



HSK



IPE SYSTEM
INFINITE
PLUS

EXTREME

PrimeTool





PrimeTool



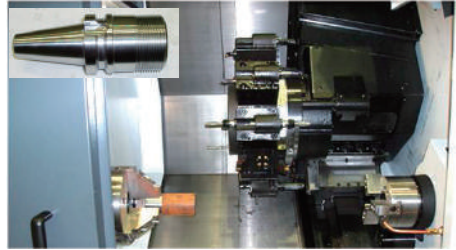
COMPANY INTRODUCTION

Uncompromising Quality Utilizing State-of-the-Art Facilities and Equipment



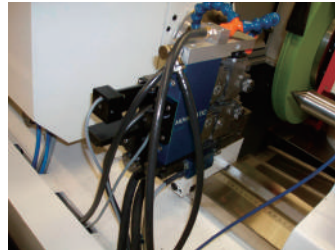
DMG-MORI Multitasking CNC Machines

- ◆ The work piece is completed in a single set-up.
- ◆ Assures the best qualities at the first step.

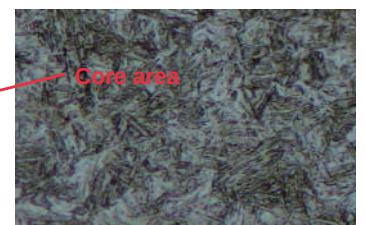
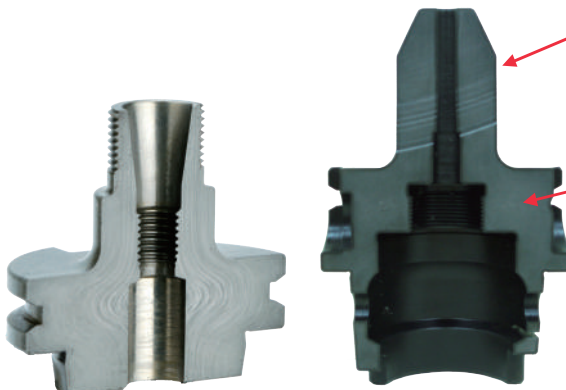
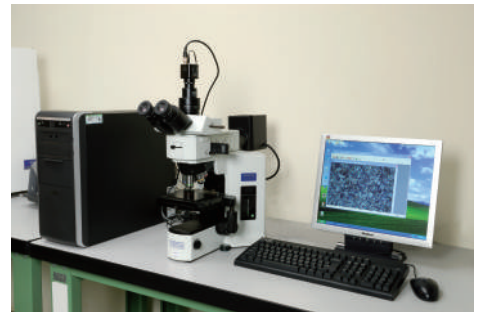


STUDER State-of- art Grinding Machines

- ◆ Multitask CNC grinder with flexible grinding functions.
- ◆ External or internal diameter, thread, facing, or profile can be ground in same process.
- ◆ High-resolution B axis 0.0001°
- ◆ High precision in-process measuring system.
- ◆ Guarantees the highest levels of precision and repeatability.



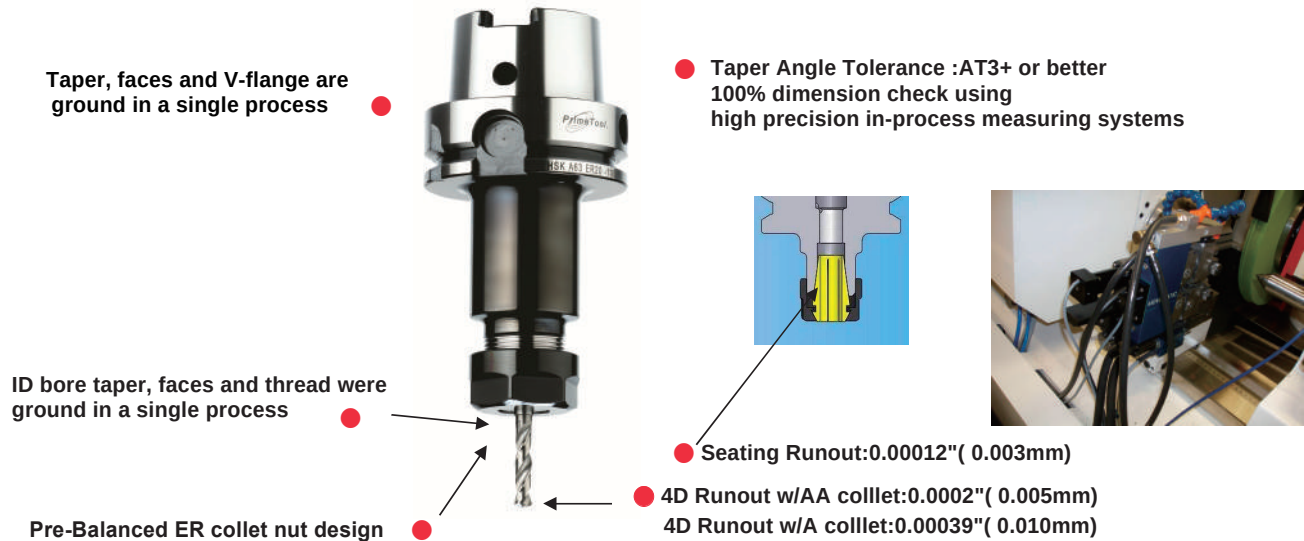
High Precision Measuring and Quality Assurance Inspection Equipment



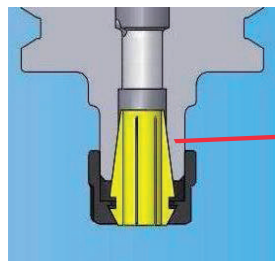
QUALITIES OF *PrimeTool* TOOL HOLDERS

• PRODUCT FEATURES

PrimeTool toolholders are manufactured using state-of-the-art technology and the latest HSM concepts. Our products are of the finest quality and highest durability. The best choice for high-precision and high speed machining.



• ID BORE, FACE and THREAD are Ground in a Single Process

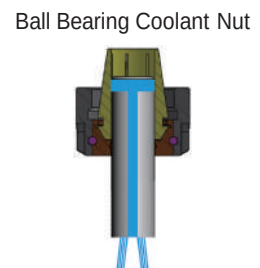


- ◆ Studer Multitask CNC grinders with flexible grinding features that offers state-of-art quality.
- ◆ The highest precision.
The ID bore, OD and thread are ground in a single process.
- ◆ **Seat Runout of ID bore: 0.003mm (0.00012")**
- ◆ Better machining precision
- ◆ Better surface finish
- ◆ Extended tool life

• PRE-BALANCED ER NUT DESIGN

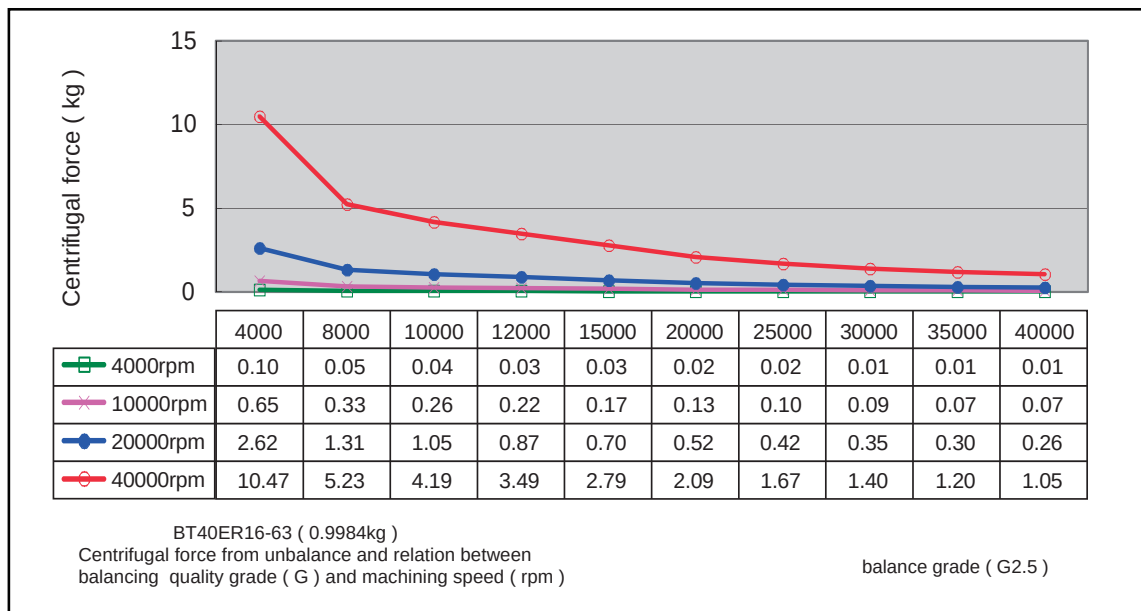


- ◆ Reducing unbalance variance after multiple uses
- ◆ Hard surface treatment of the nut resists wear and damage from gauling, and extend tool life.
- ◆ Flexible design allow the use of different nuts, such as: Mini, Standard, High-Balanced, or Coolant Nut...



• BALANCING

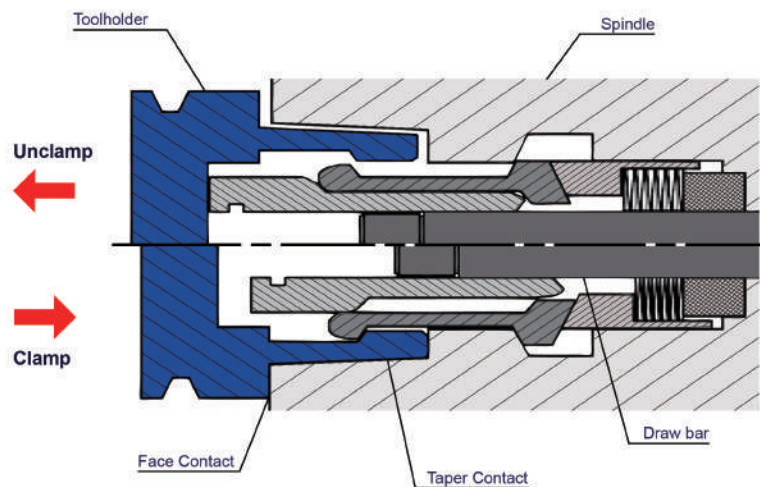
- ◆ Extended tool life, better dimension accuracy, improved surface finish, increased productivity and lower machining cost.
- ◆ G6.3 25000 rpm as standard.
- ◆ Option to G2.5 25000 rpm or higher.
- ◆ Reducing cutting force and vibration.
- ◆ Example: balanced to G2.5, 4000 rpm (see table)
Spindle cutting force at 4000rpm : 0.10kg (0.23 lb)
Spindle cutting force at 40000rpm : 10.47kg (23.46lb)



• Hollow Taper Shank - Dual Face Contact Toolholders:

Features

- ◆ Higher stiffness and rigidity than 7/24 steep taper interfacing.
- ◆ Application for modern high-speed machining.
- ◆ Improve machining accuracy lever and near-net machining.
- ◆ Improve machining surface finish, and possible to reach free-chatter machining.



• General High-Speed Machining



HSK
ISO 12164 / DIN69893
25-32-40-50-63
80-100-125-160



KM TS
ISO 26622-1
32-40-50-63



KM XMZ
32-40-50-63

• Multi-Task Machining- Turn / Milling



HSK T
ISO 12164-3
(ICTM)
32-40-50-63-100
Multi-task machining



KM TS
32-40-50-63
Multi-task machining



KM XMZ
32-40-50-63
Multi-task machining

• Hollow Taper Shank Types and Sizes



HSK A
32-40-50-63-80
-100-125-160



HSK E
25-32-40-50-63



HSK F
40-50-63-80



HSK T (ICTM)
32-40-50-63-100



KM TS
32-40-50-63



KM XMZ
32-40-50-63

HSK Form A

- ◆ Moderate-torque , moderate-to-high rpm machining.
- ◆ through coolant with coolant tube
- ◆ for ATC(automatic tool change)
- ◆ Typically machining speed



P16~17

M20
ER Collet Chuck
MINI NUT



P18~23

020
ER Collet Chuck



P24~27

030
End Mill Holder
COOLANT SLOT



P28~31

040
End Mill Holder



P32

070
Morse Taper Holder



P33

080
Morse Taper Holder
THREAD



P34~35

100
Shell Milling Holder
COMBI



P36~39

120
Shell Milling Holder



P40~43

130
Shell Milling Holder
COOLANT SLOT



P44~45

140
Drill Chuck Holder



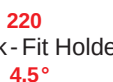
P46~47

200
Screw-In Holder



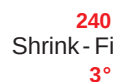
P48~49

210
Slim Collet Chuck



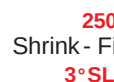
P50~55

220
Shrink - Fit Holder
4.5°



P56~59

240
Shrink - Fit Holder
3°



P60~63

250
Shrink - Fit Holder
3° SLIM



P64

310
Blank Arbor
P



P65

G000
Test Arbor
HOLLOW
P



P65

GS00
Test Arbor
SOLID
P

HSK Form E

- ◆ Super high speed machining.
- ◆ low-torque
- ◆ through coolant with coolant tube
- ◆ for ATC(automatic tool change)
- ◆ Balacing design
- ◆ Typicaly machining speed



P68~69

M20
ER Collet Chuck
MINI NUT



P70~71

020
ER Collet Chuck

P72

120
Shell Milling Holder

P72~73

130
Shell Milling Holder
COOLANT SLOT

P74

200
Screw-In Holder

P75

210
Slim Collet Chuck

P76~79

220
Shrink-Fit Holder
4.5°

P80~83

240
Shrink-Fit Holder
3°

P84~85

250
Shrink-Fit Holder
3°SLIM



P86

GS00
Test Arbor
SOLID

CONTENTS - HSK A SHANK TOOLHOLDERS:

ISO 12164-1 / DIN 69893-6
40-50-60-80

HSK Form F

- ◆ Super high speed machining.
- ◆ low-torque
- ◆ Balacing design
- ◆ Machining for wood or plastic or Al alloy



P 88~89

P 90~91

P92

P 92~93

M20
ER Collet Chuck
MINI NUT

020
ER Collet Chuck

120
Shell Milling Holder

130
Shell Milling Holder
COOLANT SLOT

P94

P95

P 96~99

P 100~101

200
Screw-In Holder

210
Slim Collet Chuck

220
Shrink-Fit Holder
4.5°

240
Shrink-Fit Holder
3

I SYSTEM TOOL HOLDERS - INFINITE

- **INFINITE SYSTEM (I SYSTEM)** is an advanced, high-performance tooling and flexible modular system.
- **I SYSTEM's** reversed ER collet is innovative design provides higher clamping force and smaller nose OD of nuts than conventional ER collet chucks.
- **I SYSTEM's** flexible innovative design provides a modular system that is quick and easy to assemble, highly accurate and rigid.
 - INFINITE Combinations
 - INFINITE Flexibility
 - INFINITE Tooling Efficiency
 - INFINITE Rigidity
 - INFINITE Applications
- Patent No:
 - TW: M319813, M319814, M322299, I 334371,
 - US: US 7628571, US 8262095, US 8888420
 - DE: DE 102007031458, DE102008037868
 - CHINA: 2007/0111455.0, ZL 2007/0111135.5, ZL 2008 1 0146711.4
 - JAPAN: 4911713.



P 106

920
HSK A
ER COLLET CHUCK
REVERSE



P 107

926
HSK A
IR BASE
EXTENSION



P 108

920
HSK E
ER COLLET CHUCK
REVERSE



P 109

926
HSK E
IR BASE
EXTENSION



P 110

920
HSK F
ER COLLET CHUCK
REVERSE



P 111

926
HSK F
IR BASE
EXTENSION



I SYSTEM TOOL HOLDERS - IR EXTENSION



P116~117

926
Extension Shank
IR BASE
T12ERXX926-XXXXX



P118

926
Extension Shank
STRAIGHT BASE
T12SSXX926-XXXXX



P119

926
Extension Shank
LATHE BASE W/FLAT
T12SSXX926-XXXXXL



P120

M20
ER Collet Chuck
MINI NUT
T12ERXXM20-XXXXX



P121

020
ER Collet Chuck
T12ERXX020-XXXXX



P122

920
ER Collet Chuck
REVERSE
T12ERXX920-XXXXX



P123

030
End Mill Holder
COOLANT SLOT
T12ERXX030-XXXXX



P124

040
End Mill Holder
T12ERXX040-XXXXX



P125

050
End Mill Holder
WHISTLE
T12ERXX050-XXXXX



P126

120
Shell Milling Holder
T12ERXX120-XXXXX



P127

130
Shell Milling Holder
COOLANT SLOT
T12ERXX130-XXXXX



P128

200
Screw-In Chuck
T12ERXX200-XXXXX



P129

210
Slim Collet Chuck
T12ERXX210-XXXXX



P130

220
Shrink-Fit Holder
4.5°
T12ERXX220-XXXXX



P131

230
Shrink-Fit Holder
4.5°SLIM
T12ERXX230-XXXXX



P132~133

240
Shrink-Fit Holder
3°
T12ERXX240-XXXXX



P134~135

250
ShrinkFit Holder
3° SLIM
T12ERXX250-XXXXX



310

Blank
EXTENSION
T12ERXX310-XXXXX



G000

Test Arbor
EXTENSION
T12ERXXG000-XXXXX

STRAIGHT SHANK EXTENSION CHUCK -T14



P171

T14
Straight Extension Shank
ER Collet Chuck
MINI NUT
T00T14ERXX-XXXXXEM



P172

T14
Straight Extension Shank
ER Collet Chuck
T00T14ERXX-XXXXXE



P173

T14
Straight Extension Shank
ER Collet Chuck
Lathe
T00T14ERXX-XXXXX-L



P174

T14
Straight Extension Shank
ER Collet Chuck
Lathe w/Pipe Thread
T00T14ERXX-XXXXX-FM



P175

T14
Straight Extension Shank
ER Collet Chuck
Lathe- Double End
T00T14ERXX-XXXXX-SM

ACCESSORIES



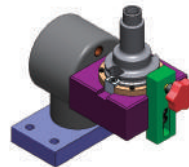
P176~179

ER Collet
T03ERXX-XXXX



P180~183

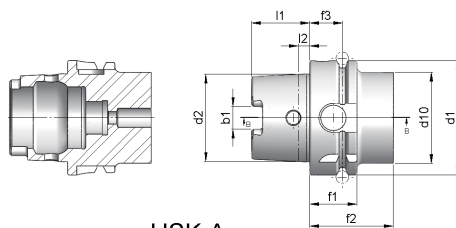
ER Nut
T04ERXX-XXX



P187

Universal CNC Tightening
System
T50-A001/ T50-B001-XXXX

DIMENSION: HSK SHANK



HSK A

HSK A / E / F

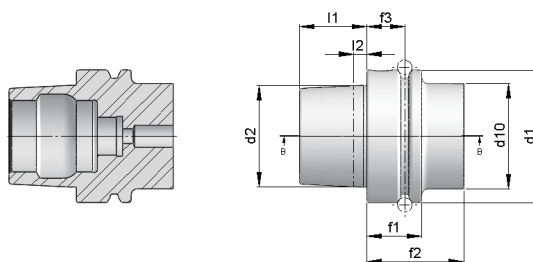
ISO 12164-1 / DIN 69893

32-40-50-63

80-100-125-160

HSK A SHANK

	d1	d2	b1	L1	L2	f1	f2	f3	d10
HSK A32	32	24	7.05	16	3.2	20	35	16	26
HSK A40	40	30	8.05	20	4	20	35	16	34
HSK A50	50	38	10.54	25	5	26	42	18	42
HSK A63	63	48	12.54	32	6.3	26	42	18	53
HSK A80	80	60	16.04	40	8	26	42	18	68
HSK A100	100	75	20.02	50	10	29	45	20	88
HSK A125	125	95	25.02	63	12.5	29	45	20	111
HSK A160	160	120	30.02	80	16	31	47	22	144



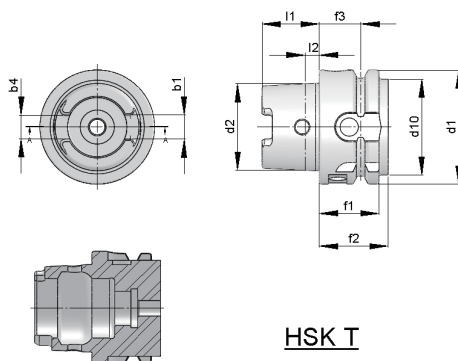
HSK E & HSK F

HSK E SHANK

	d1	d2	d10	L1	L2	f1	f2	f3
HSK E25	25	19	20	13	2.5	10	20	4.5
HSK E32	32	24	26	16	3.2	20	35	16
HSK E40	40	30	34	20	4	20	35	16
HSK E50	50	38	42	25	5	26	42	18
HSK E63	63	48	53	32	6.3	26	42	18

HSK F SHANK

	d1	d2	d10	L1	L2	f1	f2	f3
HSK F40	40	24	33.8	16	3.2	20	34	16
HSK F50	50	30	42	20	4	26	42	18
HSK F63	63	38	53	25	5	26	42	18
HSK F80	80	48	68	32	6.3	26	42	18



HSK T

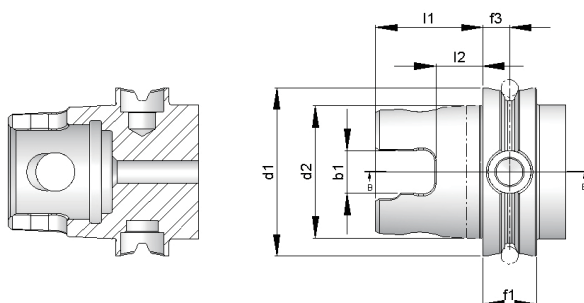
HSK T SHANK

	d1	d2	b1	b4	L1	L2	f1	f2	f3
HSK T32	32	24	7.05	6.932	16	3.2	20	23	16
HSK T40	40	30	8.05	7.932	20	4	20	23	16
HSK T50	50	38	10.54	10.425	25	5	26	30	18
HSK T63	63	48	12.54	12.425	32	6.3	26	30	18
HSK T80	80	60	16.04	15.930	40	8	26	30	18
HSK T100	100	75	20.02	19.910	50	10	29	34	20

DIMENSION: KM TS SHANK

KM TS

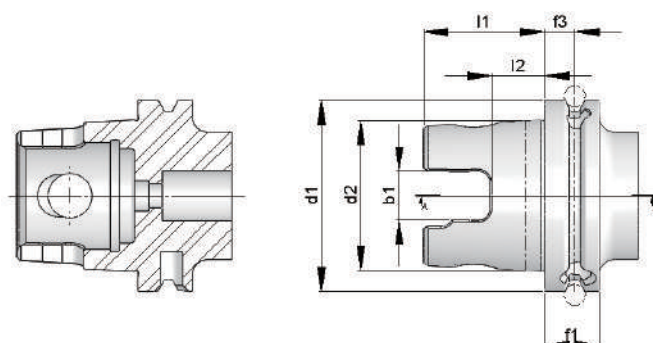
ISO 26622-1
32-40-50-63
80-100-125-160



KM

KM TS SHANK

	d1	d2	L1	L2	f3	f1	b1
KM32	32	24	20	8	4.9	10	9
KM40	40	30	25	11	5.89	12	10.1
KM50	50	40	32	12	8.9	16	14.1
KM63	63	50	40	18	10	20	16.1
KM80	80	64	45	18.5	11	22	20.1



KZ

KM TS SHANK

	d1	d2	L1	L2	f3	f1	b1
KZ32	32	24	20	8	4.9	10	9
KZ40	40	30	25	11	5.89	12	10.1
KZ50	50	40	32	12	8.9	16	14.1
KZ63	63	50	40	18	10	18	16.1
KZ80	80	64	45	18.5	11	22	20.1

Company History

Competitive Prices without Compromising Quality

PrimeTool MFG, Inc. was established in June 2005 as a subsidiary of X'Pole Precision Tools, Inc., and we officially merged with our parent company in October 2009. For over 30 years, X'Pole Precision Tools has maintained a reputation as a reliable manufacturer for Air Tooling, capturing over 70% of the market share. As a complement to X'Pole's success, **PrimeTool** has set out to accomplish that same goal, but this time in the high precision tool holder market. Henceforth, **PrimeTool** will continue as X'Pole's flagship brand name.

PrimeTool specializes in manufacturing tool holders of the finest quality as well as high-precision machine parts. In addition to quality, **PrimeTool** is able to maintain a commitment towards saving Earth's resources through the utilization of efficient machining. In part, this is accomplished from using the most advanced facilities in the world. To ensure that our tool holders not only meet, but exceed the demands for High-Speed, High-Precision and High-Performance machining, we solely manufacture with state-of-the-art equipment such as Mori-Seiki, Studer, Brown & Sharpe, Leitz, and many others.

We also provide complete and innovative solutions, as well as creative patented technology to overcome technical problems. As a result of utilizing our technological innovations, our customers have been able to achieve new levels of efficient production and thereby manage to stay ahead of their competition.

PrimeTool products are currently broken down into five main categories:

- 1.) Standard Tool Holders of the highest quality, suitable for high-speed machining, with the highest precision available, increasing machining efficiency and up-grade machining qualities.
- 2.) E System Tool Holders: a Simultaneous Dual Face Contact System (Extreme). Currently the best hybrid system in the world, the E System is the most effective solution to improve tooling rigidity and performance. The resulting extreme precision maximizes our customer's manufacturing capabilities by making their machines extremely efficient, durable and productive.
- 3.) I System Tool Holders: a Modular and Flexible System (Infinite). Our patented technology provides for unlimited applications and functions. Precision, rigidity and performance are unchanged with the addition of each extension, and the combinations with different tooling are, quite frankly, Infinite.
- 4.) IPE System Tool Holders: the I System combined with the patented Dual Face Contact design (Infinite Plus Extreme). The IPE System makes it possible to get unrivaled efficiency, quality and performance. Experience for yourself the Power you can achieve, the Extreme precision you can attain, and the Infinite tooling possibilities that are available with **PrimeTool**.
- 5.) OEM precision parts.

Our Mission

Competitive Prices without Compromising Quality Innovation and Service are always our top priorities.

Our unsurpassed manufacturing ability and strict Quality Control process ensures that our products are of the highest quality, consistently, throughout the manufacturing process. We will strive to satisfy our customers' needs and help our customers keep pace in a modern world with cutting-edge technology by providing:

1. Exceptional Quality: To meet or exceed the customer's requirements and high manufacturing standards by maintaining consistent quality at an AT3 to AT1 grade level!
2. Competitive Prices: By making precision tool holders that offer longer tool life, higher machining speeds and reduced machining time, our customers will not only appreciate the precision and accuracy that they've purchased, but the overall value as well!

PrimeTool-Next-generation equipment, Next-generation products, Outstanding quality, and Competitive pricing!

STANDARD TOOL HOLDER

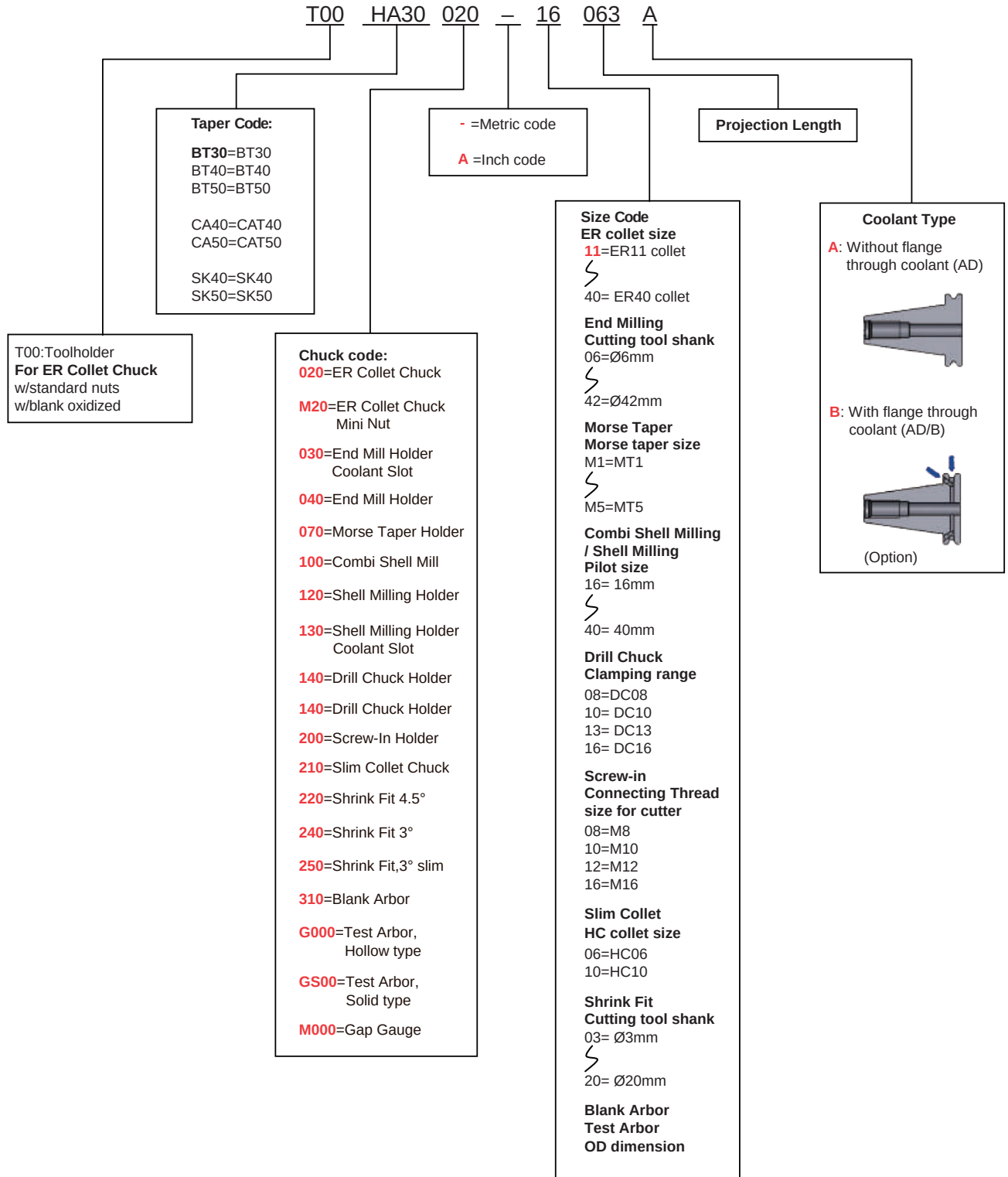


- M20** - ER Collet Chuck - **Mini Nut**
- 020** - ER Collet Chuck
- 030** - End Mill Holder **Coolant Slot**
- 040** - End Mill Holder
- 070** - Morse Taper Holder
- 120** - Shell Milling Holder
- 130** - Shell Milling Holder **Coolant Slot**
- 140** - Drill Chuck Holder
- 140** - Drill Chuck Arbor
- 200** - Screw-In Holder
- 210** - Slim Collet Chuck
- 220** - Shrink-Fit Holder **4.5°**
- 240** - Shrink-Fit Holder **3°**
- 250** - Shrink-Fit Holder **3° Slim**
- 310** - Blank Arbor
- G000** - Test Arbor

STANDARD TOOL HOLDERS

Order Number Instruction

Example: T00CA40020-16063A, HA30 ER16-063

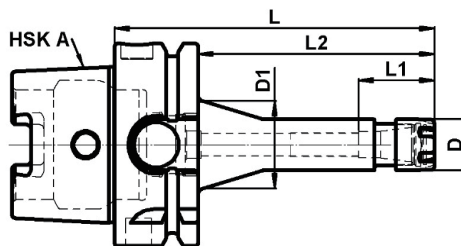


ER COLLET CHUCK MINI NUT - M20

MINI NUT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA32M20-08080	HSK A32 ER08-080M	ER08	80	0.7~5	12	12	80	13	57	3.15"
T00HA32M20-11060	HSK A32 ER11-060M	ER11	60	0.5~7	16	16	60	17	37	2.36"
T00HA32M20-11080	HSK A32 ER11-080M	ER11	80	0.5~7	16	16	80	17	57	3.15"
T00HA32M20-16060	HSK A32 ER16-060M	ER16	60	0.5~10	22	22	60	22	37	2.36"
T00HA32M20-16080	HSK A32 ER16-080M	ER16	80	0.5~10	22	22	80	22	57	3.15"
T00HA32M20-20080	HSK A32 ER20-080M	ER20	80	1~13	28	28	80	26	57	3.15"

HSK A40 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA40M20-08100	HSK A40 ER08-100M	ER08	100	0.7~5	12	12	100	13	77	3.94"
T00HA40M20-11080	HSK A40 ER11-080M	ER11	80	0.5~7	16	16	80	17	57	3.15"
T00HA40M20-11100	HSK A40 ER11-100M	ER11	100	0.5~7	16	16	100	17	77	3.94"
T00HA40M20-16080	HSK A40 ER16-080M	ER16	80	0.5~10	22	22	80	22	57	3.15"
T00HA40M20-16100	HSK A40 ER16-100M	ER16	100	0.5~10	22	22	100	22	77	3.94"
T00HA40M20-20080	HSK A40 ER20-080M	ER20	80	1~13	28	28	80	26	57	3.15"

HSK A50 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA50M20-08100	HSK A50 ER08-100M	ER08	100	0.7~5	12	12	100	13	70	3.94"
T00HA50M20-11100	HSK A50 ER11-100M	ER11	100	0.5~7	16	16	100	17	70	3.94"
T00HA50M20-16080	HSK A50 ER16-080M	ER16	80	0.5~10	22	22	80	22	50	3.15"
T00HA50M20-16100	HSK A50 ER16-100M	ER16	100	0.5~10	22	22	100	22	70	3.94"
T00HA50M20-20100	HSK A50 ER20-100M	ER20	100	1~13	28	28	100	26	70	3.94"

HSK A63 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA63M20-08100	HSK A63 ER08-100M	ER08	100	0.7~5	12	12	100	13	70	3.94"
T00HA63M20-11100	HSK A63 ER11-100M	ER11	100	0.5~7	16	16	100	17	70	3.94"
T00HA63M20-11160	HSK A63 ER11-160M	ER11	160	0.5~7	16	22	160	17	75	6.30"
T00HA63M20-16100	HSK A63 ER16-100M	ER16	100	0.5~10	22	22	100	22	70	3.94"
T00HA63M20-16160	HSK A63 ER16-160M	ER16	160	0.5~10	22	28	160	22	75	6.30"
T00HA63M20-20100	HSK A63 ER20-100M	ER20	100	1~13	28	28	100	26	70	3.94"
T00HA63M20-20160	HSK A63 ER20-160M	ER20	160	1~13	28	28	160	26	75	6.30"

HSK A80 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA80M20-11100	HSK A80 ER11-100M	ER11	100	0.5~7	16	16	100	17	70	3.94"
T00HA80M20-16100	HSK A80 ER16-100M	ER16	100	0.5~10	22	22	100	22	70	3.94"
T00HA80M20-20100	HSK A80 ER20-100M	ER20	100	1~13	28	28	100	26	70	3.94"

HSK A100 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA10M20-11100	HSK A100 ER11-100M	ER11	100	0.5~7	16	16	100	17	68	3.94"
T00HA10M20-11160	HSK A100 ER11-160M	ER11	160	0.5~7	16	22	160	17	75	6.30"
T00HA10M20-16100	HSK A100 ER16-100M	ER16	100	0.5~10	22	22	100	22	68	3.94"
T00HA10M20-16160	HSK A100 ER16-160M	ER16	160	0.5~10	22	28	160	22	75	6.30"
T00HA10M20-20100	HSK A100 ER20-100M	ER20	100	1~13	28	28	100	26	68	3.94"
T00HA10M20-20160	HSK A100 ER20-160M	ER20	160	1~13	28	28	160	26	75	6.30"

Note:

1. Order: Includes Nut and coolant tube Excludes ER collet, Retention Knob, and Wrench.

ER COLLET CHUCK MINI NUT - M20

MINI NUT

ACCESSORIES:

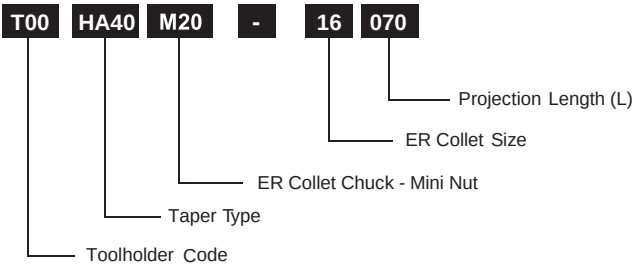
MINI NUT					
Order Number	Part Name	Thread	Type	ER Collet Size	
T04ER08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08	
T04ER11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11	
T04ER16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16	
T04ER20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20	

MINI WRENCH BEARING WITH ONE-WAY CLUTCHES			
Order Number	Part Name	Type	
T07ER0805	ER08 MINI WRENCH	Mini	
T07ER1105	ER11 MINI WRENCH	Mini	
T07ER1605	ER16 MINI WRENCH	Mini	
T07ER2005	ER20 MINI WRENCH	Mini	

COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock



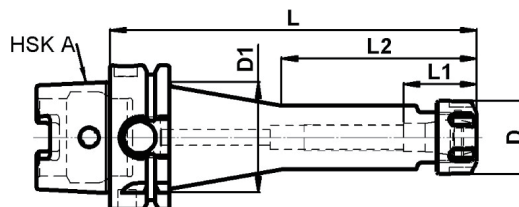
Order Number Instruction



ER COLLET CHUCK - 020 *DIN6499*

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA32020-11060	HSK A32 ER11-060	ER11	60	0.5 ~ 7	19	19	60	17	37	2.36"
T00HA32020-11080	HSK A32 ER11-080	ER11	80	0.5 ~ 7	19	19	80	17	57	3.15"
T00HA32020-16060	HSK A32 ER16-060	ER16	60	0.5 ~ 10	28	28	60	22	37	2.36"
T00HA32020-16080	HSK A32 ER16-080	ER16	80	0.5 ~ 10	28	28	80	22	57	3.15"
T00HA32020-20060	HSK A32 ER20-060	ER20	60	1 ~ 13	34	34	60	26	37	2.36"
T00HA32020-25080	HSK A32 ER25-080	ER25	80	1 ~ 16	42	42	80	29	57	3.15"

HSK A40 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA40020-11080	HSK A40 ER11-080	ER11	80	0.5 ~ 7	19	19	80	17	57	3.15"
T00HA40020-16060	HSK A40 ER16-060	ER16	60	0.5 ~ 10	28	28	60	22	37	2.36"
T00HA40020-16080	HSK A40 ER16-080	ER16	80	0.5 ~ 10	28	28	80	22	57	3.15"
T00HA40020-16100	HSK A40 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	77	3.94"
T00HA40020-20080	HSK A40 ER20-080	ER20	80	1 ~ 13	34	34	80	26	57	3.15"
T00HA40020-20100	HSK A40 ER20-100	ER20	100	1 ~ 13	34	34	100	26	77	3.94"
T00HA40020-25080	HSK A40 ER25-080	ER25	80	1 ~ 16	42	42	80	29	57	3.15"
T00HA40020-32100	HSK A40 ER32-100	ER32	100	2 ~ 20	50	50	100	34	77	3.94"

HSK A50 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA50020-11080	HSK A50 ER11-080	ER11	80	0.5 ~ 7	19	19	80	17	50	3.15"
T00HA50020-11100	HSK A50 ER11-100	ER11	100	0.5 ~ 7	19	19	100	17	70	3.94"
T00HA50020-16080	HSK A50 ER16-080	ER16	80	0.5 ~ 10	28	28	80	22	50	3.15"
T00HA50020-16100	HSK A50 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	70	3.94"
T00HA50020-16160	HSK A50 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	75	6.30"
T00HA50020-20080	HSK A50 ER20-080	ER20	80	1 ~ 13	34	34	80	26	50	3.15"
T00HA50020-20100	HSK A50 ER20-100	ER20	100	1 ~ 13	34	34	100	26	70	3.94"
T00HA50020-20160	HSK A50 ER20-160	ER20	160	1 ~ 13	34	34	160	26	130	6.30"
T00HA50020-25080	HSK A50 ER25-080	ER25	80	1 ~ 16	42	42	80	29	50	3.15"
T00HA50020-25100	HSK A50 ER25-100	ER25	100	1 ~ 16	42	42	100	29	70	3.94"
T00HA50020-32080	HSK A50 ER32-080	ER32	80	2 ~ 20	50	50	80	34	50	3.15"
T00HA50020-32100	HSK A50 ER32-100	ER32	100	2 ~ 20	50	50	100	34	70	3.94"

HSK A63 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA63020-11080	HSK A63 ER11-080	ER11	80	0.5 ~ 7	19	19	80	17	50	3.15"
T00HA63020-11100	HSK A63 ER11-100	ER11	100	0.5 ~ 7	19	19	100	17	70	3.94"
T00HA63020-11160	HSK A63 ER11-160	ER11	160	0.5 ~ 7	19	28	160	17	75	6.30"
T00HA63020-16080	HSK A63 ER16-080	ER16	80	0.5 ~ 10	28	28	80	22	50	3.15"
T00HA63020-16100	HSK A63 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	70	3.94"
T00HA63020-16160	HSK A63 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	75	6.30"
T00HA63020-16200	HSK A63 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	75	7.88"
T00HA63020-20080	HSK A63 ER20-080	ER20	80	1 ~ 13	34	34	80	26	50	3.15"
T00HA63020-20100	HSK A63 ER20-100	ER20	100	1 ~ 13	34	34	100	26	70	3.94"
T00HA63020-20160	HSK A63 ER20-160	ER20	160	1 ~ 13	34	34	160	26	130	6.30"
T00HA63020-20200	HSK A63 ER20-200	ER20	200	1 ~ 13	34	34	200	26	170	7.88"
T00HA63020-25080	HSK A63 ER25-080	ER25	80	1 ~ 16	42	42	80	29	50	3.15"
T00HA63020-25100	HSK A63 ER25-100	ER25	100	1 ~ 16	42	42	100	29	70	3.94"
T00HA63020-25160	HSK A63 ER25-160	ER25	160	1 ~ 16	42	42	160	29	130	6.30"
T00HA63020-32080	HSK A63 ER32-080	ER32	80	2 ~ 20	50	50	80	34	50	3.15"
T00HA63020-32100	HSK A63 ER32-100	ER32	100	2 ~ 20	50	50	100	34	70	3.94"
T00HA63020-32160	HSK A63 ER32-160	ER32	160	2 ~ 20	50	50	160	34	130	6.30"
T00HA63020-40120	HSK A63 ER40-120	ER40	120	3 ~ 26	63	63	100	38	70	4.73"
T00HA63020-40160	HSK A63 ER40-160	ER40	160	3 ~ 26	63	63	160	38	130	6.30"

HSK A80 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA80020-16100	HSK A80 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	70	3.94"
T00HA80020-16160	HSK A80 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	75	6.30"
T00HA80020-20100	HSK A80 ER20-100	ER20	100	1 ~ 13	34	34	100	26	70	3.94"
T00HA80020-20160	HSK A80 ER20-160	ER20	160	1 ~ 13	34	34	160	26	130	6.30"
T00HA80020-25100	HSK A80 ER25-100	ER25	100	1 ~ 16	42	42	100	29	70	3.94"

ER COLLET CHUCK - 020 *DIN6499*

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA80020-25160	HSK A80 ER25-160	ER25	160	1 ~ 16	42	42	160	29	130	6.30"
T00HA80020-32100	HSK A80 ER32-100	ER32	100	2 ~ 20	50	50	100	34	70	3.94"
T00HA80020-32160	HSK A80 ER32-160	ER32	160	2 ~ 20	50	50	160	34	130	6.30"
T00HA80020-40120	HSK A80 ER40-120	ER40	120	3 ~ 26	63	63	120	38	90	3.94"
T00HA80020-40160	HSK A80 ER40-160	ER40	160	3 ~ 26	63	63	160	38	130	6.30"

HSK A100 ER COLLET CHUCK *METRIC / INCH*

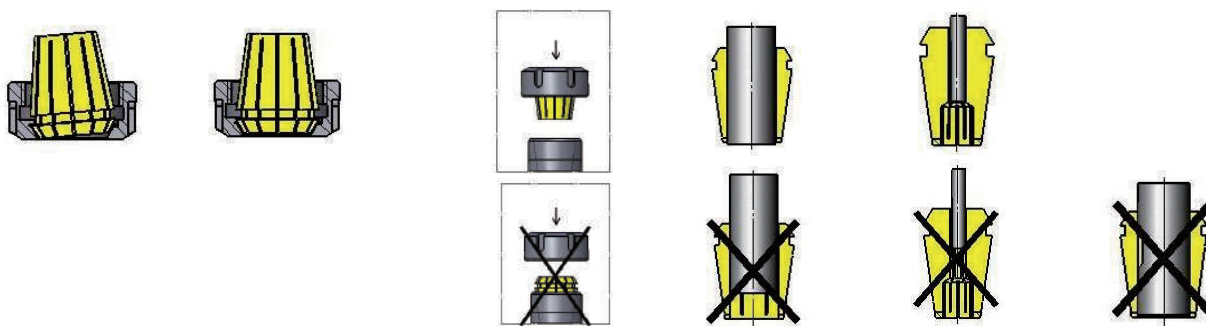
Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA10020-11100	HSK A100 ER11-100	ER11	100	0.5 ~ 7	19	19	100	17	68	3.94"
T00HA10020-11160	HSK A100 ER11-160	ER11	160	0.5 ~ 7	19	28	160	17	75	6.30"
T00HA10020-11200	HSK A100 ER11-200	ER11	200	0.5 ~ 7	19	28	200	17	75	7.87"
T00HA10020-16100	HSK A100 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	68	3.94"
T00HA10020-16160	HSK A100 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	75	6.30"
T00HA10020-16200	HSK A100 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	75	7.87"
T00HA10020-20100	HSK A100 ER20-100	ER20	100	1 ~ 13	34	34	100	26	68	3.94"
T00HA10020-20160	HSK A100 ER20-160	ER20	160	1 ~ 13	34	34	160	26	128	6.30"
T00HA10020-20200	HSK A100 ER20-200	ER20	200	1 ~ 13	34	34	200	26	168	7.87"
T00HA10020-25100	HSK A100 ER25-100	ER25	100	1 ~ 16	42	42	100	29	68	3.94"
T00HA10020-25160	HSK A100 ER25-160	ER25	160	1 ~ 16	42	42	160	29	128	6.30"
T00HA10020-25200	HSK A100 ER25-200	ER25	200	1 ~ 16	42	42	200	29	168	7.87"
T00HA10020-32100	HSK A100 ER32-100	ER32	100	2 ~ 20	50	50	100	34	68	3.94"
T00HA10020-32160	HSK A100 ER32-160	ER32	160	2 ~ 20	50	50	160	34	128	6.30"
T00HA10020-32200	HSK A100 ER32-200	ER32	200	2 ~ 20	50	50	200	34	168	7.87"
T00HA10020-40120	HSK A100 ER40-120	ER40	120	3 ~ 26	63	63	120	38	88	4.72"
T00HA10020-40160	HSK A100 ER40-160	ER40	160	3 ~ 26	63	63	160	38	128	6.30"
T00HA10020-40200	HSK A100 ER40-200	ER40	200	3 ~ 26	63	63	200	38	168	7.87"

HSK A125 ER COLLET CHUCK *METRIC / INCH*

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	L inch
T00HA12020-16100	HSK A125 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	68	3.94"
T00HA12020-16160	HSK A125 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	75	6.30"
T00HA12020-16200	HSK A125 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	75	7.87"
T00HA12020-20100	HSK A125 ER20-100	ER20	100	1 ~ 13	34	34	100	26	68	3.94"
T00HA12020-20160	HSK A125 ER20-160	ER20	160	1 ~ 13	34	34	160	26	128	6.30"
T00HA12020-20200	HSK A125 ER20-200	ER20	200	1 ~ 13	34	34	200	26	168	7.87"
T00HA12020-25100	HSK A125 ER25-100	ER25	100	1 ~ 16	42	42	100	29	68	3.94"
T00HA12020-25160	HSK A125 ER25-160	ER25	160	1 ~ 16	42	42	160	29	128	6.30"
T00HA12020-25200	HSK A125 ER25-200	ER25	200	1 ~ 16	42	42	200	29	168	7.87"
T00HA12020-32100	HSK A125 ER32-100	ER32	100	2 ~ 20	50	50	100	34	68	3.94"
T00HA12020-32160	HSK A125 ER32-160	ER32	160	2 ~ 20	50	50	160	34	128	6.30"
T00HA12020-32200	HSK A125 ER32-200	ER32	200	2 ~ 20	50	50	200	34	168	7.87"
T00HA12020-40120	HSK A125 ER40-120	ER40	120	3 ~ 26	63	63	120	38	88	3.94"
T00HA12020-40160	HSK A125 ER40-160	ER40	160	3 ~ 26	63	63	160	38	128	6.30"
T00HA12020-40200	HSK A125 ER40-200	ER40	200	3 ~ 26	63	63	200	38	168	7.87"

Note:

- Order: Includes Nut, Excludes ER collet, Retention Knob, and Wrench.
- Assembly: ER Collet, Nut and Cutter.



ER COLLET CHUCK - 020 *DIN6499*

ACCESSORIES:

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER NUTS			
Order Number			
T04ER11-H1A		Hex Nut T04ERXX-H1A	
T04ER16-H1A			
T04ER20-H1A			
T04ER25-D1A		Spanner Nut T04ERXX-D1A	
T04ER32-D1A			
T04ER40-D1A			

ER BALL BEARING NUTS			
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner

BACKUP SCREWS METRIC		
Order Number	Part Name	ER size
T06PS-BTER11LH	ER11 Backup Screws	ER16
T06PS-BTER16LH	ER16 Backup Screws	ER16
T06PS-BTER20LH	ER20 Backup Screws	ER20
T06PS-BTER25LH	ER25 Backup Screws	ER25
T06PS-BTER32LH	ER32 Backup Screws	ER32
T06PS-BTER40LH	ER40 Backup Screws	ER40

COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock
T17HSKA160-01	HSK A160 coolant tube	Mono brock

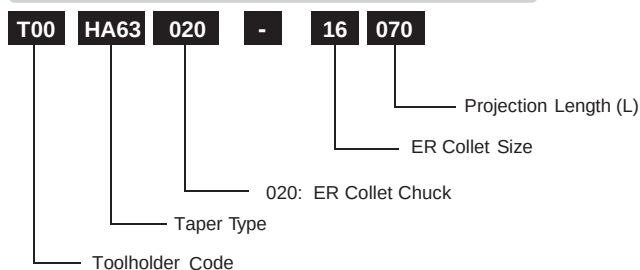


ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

WRENCH		
Order Number	Part Name	
T07ER1101	ER11 WRENCH	Hex wrench T07ERXX01 
T07ER1601	ER16 WRENCH	
T07ER2001	ER20 WRENCH	
T07ER2502	ER25 WRENCH	ER wrench T07ERXX02 
T07ER3202	ER32 WRENCH	
T07ER4002	ER40 WRENCH	



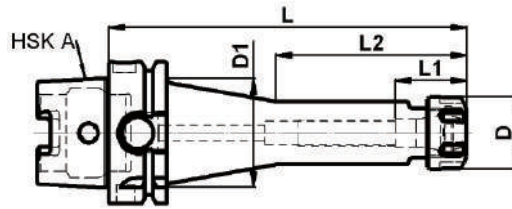
Order Number Instruction



ER COLLET CHUCK - 020 DIN6499

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A63 ER COLLET CHUCK INCH

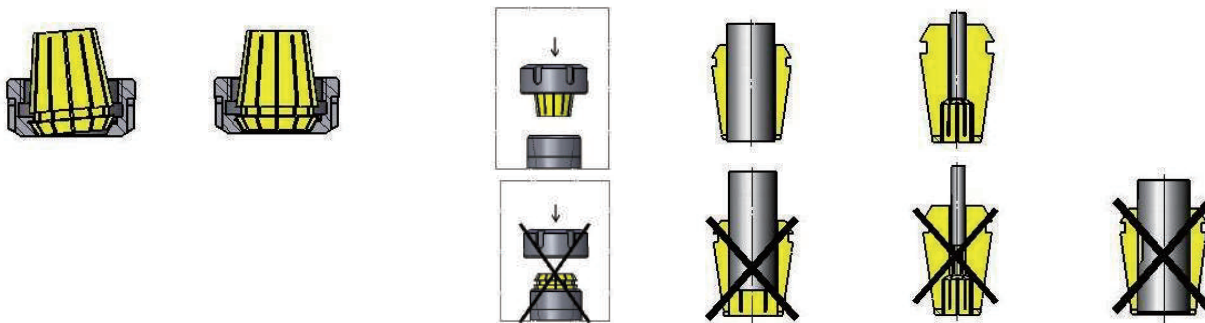
Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2
T00HA63020A11102	HSK A63 ER11-4.00"	ER11	4.00"	5/64~17/64"	0.75"	0.75"	4.00"	0.59"	2.82"
T00HA63020A11152	HSK A63 ER11-6.00"	ER11	6.00"	5/64~17/64"	0.75"	1.10"	6.00"	0.59"	2.95"
T00HA63020A16100	HSK A63 ER16-3.94"	ER16	3.94"	5/64~13/32"	1.10"	1.10"	3.94"	0.87"	2.76"
T00HA63020A16152	HSK A63 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	2.95"
T00HA63020A16203	HSK A63 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	2.95"
T00HA63020A20100	HSK A63 ER20-3.94"	ER20	3.94"	5/64~1/2"	1.34"	1.34"	3.94"	1.04"	2.76"
T00HA63020A20152	HSK A63 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	4.74"
T00HA63020A20203	HSK A63 ER20-8.00"	ER20	8.00"	5/64~1/2"	1.34"	1.34"	8.00"	1.04"	6.82"
T00HA63020A25100	HSK A63 ER25-3.94"	ER25	3.94"	5/64~5/8"	1.65"	1.65"	3.94"	1.14"	2.76"
T00HA63020A25152	HSK A63 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	4.74"
T00HA63020A32100	HSK A63 ER32-3.94"	ER32	3.94"	5/64~25/32"	1.97"	1.97"	3.94"	1.34"	2.76"
T00HA63020A32152	HSK A63 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	4.74"
T00HA63020A40120	HSK A63 ER40-4.72"	ER40	4.72"	5/64~1"	2.48"	2.48"	4.72"	1.50"	2.76"
T00HA63020A40152	HSK A63 ER40-6.00"	ER40	6.00"	5/64~1"	2.48"	2.48"	6.00"	1.50"	4.74"

HSK A100 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2
T00HA10020A11100	HSK A100 ER11-3.94"	ER11	3.94"	5/64~17/64"	0.75"	0.75"	3.94"	0.59"	2.68"
T00HA10020A11152	HSK A100 ER11-6.00"	ER11	6.00"	5/64~17/64"	0.75"	1.10"	6.00"	0.59"	2.95"
T00HA10020A11203	HSK A100 ER11-8.00"	ER11	8.00"	5/64~17/64"	0.75"	1.10"	8.00"	0.59"	2.95"
T00HA10020A16100	HSK A100 ER16-3.94"	ER16	3.94"	5/64~13/32"	1.10"	1.10"	3.94"	0.87"	2.68"
T00HA10020A16152	HSK A100 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	2.95"
T00HA10020A16203	HSK A100 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	2.95"
T00HA10020A20100	HSK A100 ER20-3.94"	ER20	3.94"	5/64~1/2"	1.34"	1.34"	3.94"	1.04"	2.68"
T00HA10020A20152	HSK A100 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	4.74"
T00HA10020A20203	HSK A100 ER20-8.00"	ER20	8.00"	5/64~1/2"	1.34"	1.34"	8.00"	1.04"	6.74"
T00HA10020A25100	HSK A100 ER25-3.94"	ER25	3.94"	5/64~5/8"	1.65"	1.65"	3.94"	1.14"	2.68"
T00HA10020A25152	HSK A100 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	4.74"
T00HA10020A25203	HSK A100 ER25-8.00"	ER25	8.00"	5/64~5/8"	1.65"	1.65"	8.00"	1.14"	6.74"
T00HA10020A32100	HSK A100 ER32-3.94"	ER32	3.94"	5/64~25/32"	1.97"	1.97"	3.94"	1.34"	2.68"
T00HA10020A32152	HSK A100 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	4.74"
T00HA10020A32203	HSK A100 ER32-8.00"	ER32	8.00"	5/64~25/32"	1.97"	1.97"	8.00"	1.34"	6.74"
T00HA10020A40120	HSK A100 ER40-4.72"	ER40	4.72"	5/64~1"	2.48"	2.48"	4.72"	1.50"	3.46"
T00HA10020A40152	HSK A100 ER40-6.00"	ER40	6.00"	5/64~1"	2.48"	2.48"	6.00"	1.50"	4.74"
T00HA10020A40203	HSK A100 ER40-8.00"	ER40	8.00"	5/64~1"	2.48"	2.48"	8.00"	1.50"	6.74"

Note:

1. Order: Includes Nut, Excludes ER collet, Retention Knob, and Wrench.
2. Assembly: ER Collet, Nut and Cutter.



ER COLLET CHUCK - 020 DIN6499

ACCESSORIES:

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER NUTS		
Order Number		Hex Nut T04ERXX-H1A
T04ER11-H1A		
T04ER16-H1A		
T04ER20-H1A		
T04ER25-D1A		Spanner Nut T04ERXX-D1A
T04ER32-D1A		
T04ER40-D1A		

ER BALL BEARING NUTS				
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32x1.50	Spanner	
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40x1.50	Spanner	
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50x1.50	Spanner	

Backup Screws Metric		
Order Number	Part Name	ER size
T06PS-BTER11LH	ER11 Backup Screws	ER16
T06PS-BTER16LH	ER16 Backup Screws	ER16
T06PS-BTER20LH	ER20 Backup Screws	ER20
T06PS-BTER25LH	ER25 Backup Screws	ER25
T06PS-BTER32LH	ER32 Backup Screws	ER32
T06PS-BTER40LH	ER40 Backup Screws	ER40

COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock
T17HSKA160-01	HSK A160 coolant tube	Mono brock



Order Number Instruction

T00 **HA32** **020** **A** **16** **070**

Projection Length (L)

ER Collet Size

A: Inch

020: ER Collet Chuck

Taper Type

Toolholder Code

ER BALANCED NUTS - Balanced 19-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

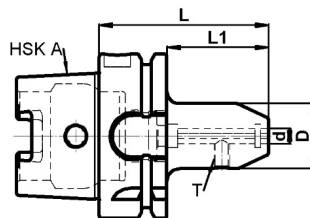
WRENCH		
Order Number	Part Name	
T07ER1101	ER11 WRENCH	Hex wrench T07ERXX01 
T07ER1601	ER16 WRENCH	
T07ER2001	ER20 WRENCH	
T07ER2502	ER25 WRENCH	ER wrench T07ERXX02 
T07ER3202	ER32 WRENCH	
T07ER4002	ER40 WRENCH	



END MILL HOLDER COOLANT SLOT - 030 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A40 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA40030-06060	HSK A40 EM06-060	6	60	6	25	60	30	M06
T00HA40030-08060	HSK A40 EM08-060	8	60	8	28	60	35	M08
T00HA40030-10060	HSK A40 EM10-060	10	60	10	35	60	40	M10
T00HA40030-12070	HSK A40 EM12-070	12	70	12	42	70	44	M12
T00HA40030-14075	HSK A40 EM14-075	14	75	14	44	75	44	M12
T00HA40030-16075	HSK A40 EM16-075	16	75	16	48	75	47	M14

HSK A50 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA50030-06100	HSK A50 EM06-100	6	100	6	25	100	30	M06
T00HA50030-08100	HSK A50 EM08-100	8	100	8	28	100	35	M08
T00HA50030-10100	HSK A50 EM10-100	10	100	10	35	100	40	M10
T00HA50030-12100	HSK A50 EM12-100	12	100	12	42	100	44	M12
T00HA50030-16100	HSK A50 EM16-100	16	100	16	48	100	47	M14
T00HA50030-20100	HSK A50 EM20-100	20	100	20	52	100	49	M16
T00HA50030-25110	HSK A50 EM25-110	25	110	25	65	110	64	M18
T00HA50030-32120	HSK A50 EM32-120	32	120	32	72	120	68	M20

HSK A63 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA63030-06065	HSK A63 EM06-065	6	65	6	25	65	30	M06
T00HA63030-06100	HSK A63 EM06-100	6	100	6	25	100	30	M06
T00HA63030-08065	HSK A63 EM08-065	8	65	8	28	65	35	M08
T00HA63030-08100	HSK A63 EM08-100	8	100	8	28	100	35	M08
T00HA63030-10065	HSK A63 EM10-065	10	65	10	35	65	40	M10
T00HA63030-10100	HSK A63 EM10-100	10	100	10	35	100	40	M10
T00HA63030-12080	HSK A63 EM12-080	12	80	12	42	80	44	M12
T00HA63030-12100	HSK A63 EM12-100	12	100	12	42	100	44	M12
T00HA63030-16080	HSK A63 EM16-080	16	80	16	48	80	47	M14
T00HA63030-16100	HSK A63 EM16-100	16	100	16	48	100	47	M14
T00HA63030-20080	HSK A63 EM20-080	20	80	20	52	80	49	M16
T00HA63030-20100	HSK A63 EM20-100	20	100	20	52	100	49	M16
T00HA63030-20160	HSK A63 EM20-160	20	160	20	52	160	49	M16
T00HA63030-25110	HSK A63 EM25-110	25	110	25	65	110	64	M18
T00HA63030-25160	HSK A63 EM25-160	25	160	25	65	160	64	M18
T00HA63030-32110	HSK A63 EM32-110	32	110	32	72	110	68	M20
T00HA63030-32160	HSK A63 EM32-160	32	160	32	72	160	68	M20

HSK A100 END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA10030-06080	HSK A100 EM06-080	6	80	6	25	80	30	M06
T00HA10030-06100	HSK A100 EM06-100	6	100	6	25	100	30	M06
T00HA10030-08080	HSK A100 EM08-080	8	80	8	28	80	35	M08
T00HA10030-08100	HSK A100 EM08-100	8	100	8	28	100	35	M08
T00HA10030-10080	HSK A100 EM10-080	10	80	10	35	80	40	M10
T00HA10030-10100	HSK A100 EM10-100	10	100	10	35	100	40	M10
T00HA10030-12100	HSK A100 EM12-100	12	100	12	42	100	44	M12
T00HA10030-14100	HSK A100 EM14-100	14	100	14	44	100	44	M12
T00HA10030-16100	HSK A100 EM16-100	16	100	16	48	100	47	M14
T00HA10030-18100	HSK A100 EM18-100	18	100	18	50	100	47	M14
T00HA10030-20100	HSK A100 EM20-100	20	100	20	52	100	49	M16
T00HA10030-20160	HSK A100 EM20-160	20	160	20	52	160	49	M16
T00HA10030-25100	HSK A100 EM25-100	25	100	25	65	100	64	M18
T00HA10030-25160	HSK A100 EM25-160	25	160	25	65	160	64	M18
T00HA10030-32100	HSK A100 EM32-100	32	100	32	72	100	68	M20
T00HA10030-32160	HSK A100 EM32-160	32	160	32	72	160	68	M20

END MILL HOLDER COOLANT SLOT - 030 DIN 1835B

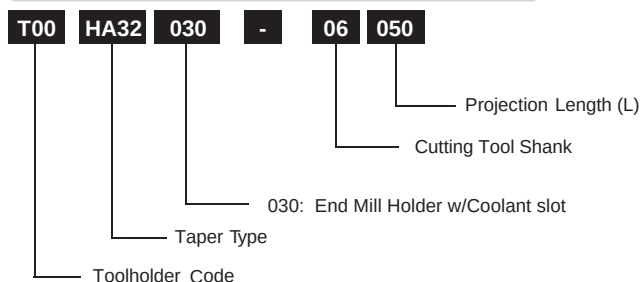
ACCESSORIES:

Set Screw for End Mill Holder Metric		
Order Number	Part Name	END MILL
T06EM06-BT	EM06 Set Screw	6
T06EM08-BT	EM08 Set Screw	8
T06EM10-BT	EM10 Set Screw	10
T06EM12-BT	EM12 & 14 Set Screw	12 , 14
T06EM16-BT	EM16 & 18 Set Screw	16 , 18
T06EM20-BT	EM20 Set Screw	20
T06EM25-BT	EM25 Set Screw	25
T06EM32-BT	EM32 Set Screw	32
T06EM40-BT	EM40 & 42Set Screw	40 , 42
T06EM50-BT	EM50 Set Screw	50
T06EM63-BT	EM63 Set Screw	63



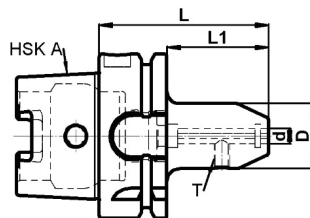
COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction



END MILL HOLDER COOLANT SLOT - 030 DIN 1835B
Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm


HSK A40 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA40030A03060	HSK A40 EM1/8"-2.36"	1/8"	2.36"	1/8"	0.69"	2.36"	0.63"	No6-32
T00HA40030A05060	HSK A40 EM3/16"-2.36"	3/16"	2.36"	3/16"	0.69"	2.36"	0.87"	No8-32
T00HA40030A06060	HSK A40 EM1/4"-2.36"	1/4"	2.36"	1/4"	0.79"	2.36"	1.18"	1/4"-28
T00HA40030A08060	HSK A40 EM5/16"-2.36"	5/16"	2.36"	5/16"	1.00"	2.36"	1.38"	1/4"-28
T00HA40030A09060	HSK A40 EM3/8"-2.36"	3/8"	2.36"	3/8"	1.00"	2.36"	1.54"	3/8"-24
T00HA40030A12070	HSK A40 EM1/2"-2.76"	1/2"	2.76"	1/2"	1.38"	2.76"	1.73"	7/16"-20
T00HA40030A16076	HSK A40 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18

HSK A50 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA50030A03060	HSK A50 EM1/8"-2.36"	1/8"	2.36"	1/8"	0.69"	2.36"	0.63"	No6-32
T00HA50030A05060	HSK A50 EM3/16"-2.36"	3/16"	2.36"	3/16"	0.69"	2.36"	0.87"	No8-32
T00HA50030A06102	HSK A50 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA50030A08102	HSK A50 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA50030A09102	HSK A50 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA50030A12102	HSK A50 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA50030A16102	HSK A50 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18
T00HA50030A19102	HSK A50 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18

HSK A63 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA63030A03065	HSK A63 EM1/8"-2.56"	1/8"	2.56"	1/8"	0.69"	2.56"	0.63"	NO6-32
T00HA63030A03102	HSK A63 EM1/8"-4.00"	1/8"	4.00"	1/8"	0.69"	4.00"	0.63"	NO6-32
T00HA63030A05065	HSK A63 EM3/16"-2.56"	3/16"	2.56"	3/16"	0.69"	2.56"	0.87"	NO8-32
T00HA63030A05102	HSK A63 EM3/16"-4.00"	3/16"	4.00"	3/16"	0.69"	4.00"	0.87"	NO8-32
T00HA63030A06065	HSK A63 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28
T00HA63030A06102	HSK A63 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA63030A08065	HSK A63 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28
T00HA63030A08102	HSK A63 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA63030A09065	HSK A63 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24
T00HA63030A09102	HSK A63 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA63030A12080	HSK A63 EM1/2"-3.15"	1/2"	3.15"	1/2"	1.38"	3.15"	1.73"	7/16"-20
T00HA63030A12102	HSK A63 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA63030A16080	HSK A63 EM5/8"-3.15"	5/8"	3.15"	5/8"	1.65"	3.15"	2.09"	9/16"-18
T00HA63030A16102	HSK A63 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18
T00HA63030A19080	HSK A63 EM3/4"-3.15"	3/4"	3.15"	3/4"	1.89"	3.15"	2.24"	5/8"-18
T00HA63030A19102	HSK A63 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18
T00HA63030A19152	HSK A63 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18
T00HA63030A22100	HSK A63 EM7/8"-3.94"	7/8"	3.94"	7/8"	2.00"	3.94"	2.17"	5/8"-18
T00HA63030A25108	HSK A63 EM1"-4.25"	1"	4.25"	1"	2.36"	4.25"	2.52"	3/4"-16
T00HA63030A25152	HSK A63 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16
T00HA63030A32108	HSK A63 EM1 1/4"-4.25"	1 1/4"	4.25"	1 1/4"	2.83"	4.25"	2.68"	3/4"-16
T00HA63030A32152	HSK A63 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16

HSK A100 END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA10030A06080	HSK A100 EM1/4"-3.15"	1/4"	3.15"	1/4"	0.79"	3.15"	1.18"	1/4"-28
T00HA10030A06102	HSK A100 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA10030A08080	HSK A100 EM5/16"-3.15"	5/16"	3.15"	5/16"	1.00"	3.15"	1.38"	1/4"-28
T00HA10030A08102	HSK A100 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA10030A09080	HSK A100 EM3/8"-3.15"	3/8"	3.15"	3/8"	1.00"	3.15"	1.54"	3/8"-24
T00HA10030A09102	HSK A100 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA10030A12090	HSK A100 EM1/2"-3.54"	1/2"	3.54"	1/2"	1.38"	3.54"	1.73"	7/16"-20
T00HA10030A12102	HSK A100 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA10030A16100	HSK A100 EM5/8"-3.94"	5/8"	3.94"	5/8"	1.65"	3.94"	2.09"	9/16"-18
T00HA10030A16152	HSK A100 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18
T00HA10030A19100	HSK A100 EM3/4"-3.94"	3/4"	3.94"	3/4"	1.89"	3.94"	2.24"	5/8"-18
T00HA10030A19152	HSK A100 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18
T00HA10030A22100	HSK A100 EM7/8"-3.94"	7/8"	3.94"	7/8"	2.00"	3.94"	2.17"	5/8"-18
T00HA10030A25100	HSK A100 EM1"-3.94"	1"	3.94"	1"	2.36"	3.94"	2.52"	3/4"-16
T00HA10030A25152	HSK A100 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16
T00HA10030A32100	HSK A100 EM1 1/4"-3.94"	1 1/4"	3.94"	1 1/4"	2.83"	3.94"	2.68"	3/4"-16
T00HA10030A32152	HSK A100 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16

END MILL HOLDER COOLANT SLOT - 030 DIN 1835B

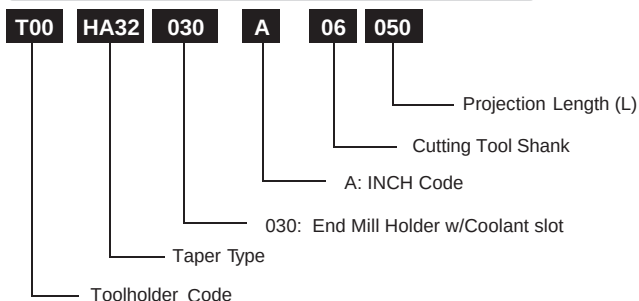
ACCESSORIES:

Set Screw for End Mill Holder INCH		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

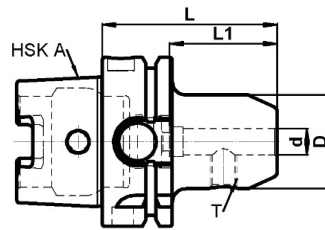
Order Number Instruction



END MILL HOLDER - 040 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



HSK A32 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA32040-06060	HSK A32 EM06-060	6	60	6	25	60	30	M06
T00HA32040-08060	HSK A32 EM08-060	8	60	8	28	60	35	M08
T00HA32040-10065	HSK A32 EM10-065	10	65	10	35	65	40	M10

HSK A40 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA40040-06060	HSK A40 EM06-060	6	60	6	25	60	30	M06
T00HA40040-08060	HSK A40 EM08-060	8	60	8	28	60	35	M08
T00HA40040-10060	HSK A40 EM10-060	10	60	10	35	60	40	M10
T00HA40040-12070	HSK A40 EM12-070	12	70	12	42	70	44	M12
T00HA40040-14075	HSK A40 EM14-075	14	75	14	44	75	44	M12
T00HA40040-16075	HSK A40 EM16-075	16	75	16	48	75	47	M14

HSK A50 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA50040-06065	HSK A50 EM06-065	6	65	6	25	65	30	M06
T00HA50040-06100	HSK A50 EM06-100	6	100	6	25	100	30	M06
T00HA50040-08065	HSK A50 EM08-065	8	65	8	28	65	35	M08
T00HA50040-08100	HSK A50 EM08-100	8	100	8	28	100	35	M08
T00HA50040-10065	HSK A50 EM10-065	10	65	10	35	65	40	M10
T00HA50040-10100	HSK A50 EM10-100	10	100	10	35	100	40	M10
T00HA50040-12080	HSK A50 EM12-080	12	80	12	42	80	44	M12
T00HA50040-12100	HSK A50 EM12-100	12	100	12	42	100	44	M12
T00HA50040-14080	HSK A50 EM14-080	14	80	14	44	80	44	M12
T00HA50040-16080	HSK A50 EM16-080	16	80	16	48	80	47	M14
T00HA50040-16100	HSK A50 EM16-100	16	100	16	48	100	47	M14
T00HA50040-18080	HSK A50 EM18-080	18	80	18	50	80	47	M14
T00HA50040-20080	HSK A50 EM20-080	20	80	20	52	80	49	M16
T00HA50040-20100	HSK A50 EM20-100	20	100	20	52	100	49	M16
T00HA50040-25110	HSK A50 EM25-110	25	110	25	65	110	64	M18
T00HA50040-32120	HSK A63 EM32-120	32	120	32	72	120	68	M20

HSK A63 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA63040-06065	HSK A63 EM06-065	6	65	6	25	65	30	M06
T00HA63040-06100	HSK A63 EM06-100	6	100	6	25	100	30	M06
T00HA63040-06160	HSK A63 EM06-160	6	160	6	25	160	30	M06
T00HA63040-08065	HSK A63 EM08-065	8	65	8	28	65	35	M08
T00HA63040-08100	HSK A63 EM08-100	8	100	8	28	100	35	M08
T00HA63040-08160	HSK A63 EM08-160	8	160	8	28	160	35	M08
T00HA63040-10065	HSK A63 EM10-065	10	65	10	35	65	40	M10
T00HA63040-10100	HSK A63 EM10-100	10	100	10	35	100	40	M10
T00HA63040-10160	HSK A63 EM10-160	10	160	10	35	160	40	M10
T00HA63040-12080	HSK A63 EM12-080	12	80	12	42	80	44	M12
T00HA63040-12100	HSK A63 EM12-100	12	100	12	42	100	44	M12
T00HA63040-12160	HSK A63 EM12-160	12	160	12	42	160	44	M12
T00HA63040-14080	HSK A63 EM14-080	14	80	14	44	80	44	M12
T00HA63040-16080	HSK A63 EM16-080	16	80	16	48	80	47	M14
T00HA63040-16100	HSK A63 EM16-100	16	100	16	48	100	47	M14
T00HA63040-16160	HSK A63 EM16-160	16	160	16	48	160	47	M14
T00HA63040-18080	HSK A63 EM18-080	18	80	18	50	80	47	M14
T00HA63040-20080	HSK A63 EM20-080	20	80	20	52	80	49	M16
T00HA63040-20100	HSK A63 EM20-100	20	100	20	52	100	49	M16
T00HA63040-20160	HSK A63 EM20-160	20	160	20	52	160	49	M16
T00HA63040-25110	HSK A63 EM25-110	25	110	25	65	110	64	M18
T00HA63040-25160	HSK A63 EM25-160	25	160	25	65	160	64	M18
T00HA63040-32110	HSK A63 EM32-110	32	110	32	72	110	68	M20
T00HA63040-32160	HSK A63 EM32-160	32	160	32	72	160	68	M20

HSK A80 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA80040-06100	HSK A80 EM06-100	6	100	6	25	100	30	M06
T00HA80040-08100	HSK A80 EM08-100	8	100	8	28	100	35	M08
T00HA80040-10100	HSK A80 EM10-100	10	100	10	35	100	40	M10

END MILL HOLDER - 040 DIN 1835B

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA80040-12100	HSK A80 EM12-100	12	100	12	42	100	44	M12
T00HA80040-14100	HSK A80 EM14-100	14	100	14	44	100	44	M12
T00HA80040-16100	HSK A80 EM16-100	16	100	16	48	100	47	M14
T00HA80040-18100	HSK A80 EM18-100	18	100	18	50	100	47	M14
T00HA80040-20100	HSK A80 EM20-100	20	100	20	52	100	49	M16
T00HA80040-25100	HSK A80 EM25-100	25	100	25	65	100	64	M18
T00HA80040-32110	HSK A80 EM32-110	32	110	32	72	110	68	M20
T00HA80040-40120	HSK A80 EM40-120	40	120	40	80	120	73	M20

HSK A100 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA10040-06080	HSK A100 EM06-080	6	80	6	25	80	30	M06
T00HA10040-06100	HSK A100 EM06-100	6	100	6	25	100	30	M06
T00HA10040-06160	HSK A100 EM06-160	6	160	6	25	160	30	M06
T00HA10040-06200	HSK A100 EM06-200	6	200	6	25	200	30	M06
T00HA10040-08080	HSK A100 EM08-080	8	80	8	28	80	35	M08
T00HA10040-08100	HSK A100 EM08-100	8	100	8	28	100	35	M08
T00HA10040-08160	HSK A100 EM08-160	8	160	8	28	160	35	M08
T00HA10040-08200	HSK A100 EM08-200	8	200	8	28	200	35	M08
T00HA10040-10080	HSK A100 EM10-080	10	80	10	35	80	40	M10
T00HA10040-10100	HSK A100 EM10-100	10	100	10	35	100	40	M10
T00HA10040-10160	HSK A100 EM10-160	10	160	10	35	160	40	M10
T00HA10040-10200	HSK A100 EM10-200	10	200	10	35	200	40	M10
T00HA10040-12090	HSK A100 EM12-090	12	90	12	42	90	44	M12
T00HA10040-12100	HSK A100 EM12-100	12	100	12	42	100	44	M12
T00HA10040-12160	HSK A100 EM12-160	12	160	12	42	160	44	M12
T00HA10040-12200	HSK A100 EM12-200	12	200	12	42	200	44	M12
T00HA10040-14100	HSK A100 EM14-100	14	100	14	44	100	44	M12
T00HA10040-14160	HSK A100 EM14-160	14	160	14	44	160	44	M12
T00HA10040-16100	HSK A100 EM16-100	16	100	16	48	100	47	M14
T00HA10040-16160	HSK A100 EM16-160	16	160	16	48	160	47	M14
T00HA10040-16200	HSK A100 EM16-200	16	200	16	48	200	47	M14
T00HA10040-18100	HSK A100 EM18-100	18	100	18	50	100	47	M14
T00HA10040-18160	HSK A100 EM18-160	18	160	18	50	160	47	M14
T00HA10040-20100	HSK A100 EM20-100	20	100	20	52	100	49	M16
T00HA10040-20135	HSK A100 EM20-135	20	135	20	52	135	49	M16
T00HA10040-20160	HSK A100 EM20-160	20	160	20	52	160	49	M16
T00HA10040-20200	HSK A100 EM20-200	20	200	20	52	200	49	M16
T00HA10040-25100	HSK A100 EM25-100	25	100	25	65	100	64	M18
T00HA10040-25135	HSK A100 EM25-135	25	135	25	65	135	64	M16
T00HA10040-25160	HSK A100 EM25-160	25	160	25	65	160	64	M18
T00HA10040-25200	HSK A100 EM25-200	25	200	25	65	200	64	M18
T00HA10040-32100	HSK A100 EM32-100	32	100	32	72	100	68	M20
T00HA10040-32135	HSK A100 EM32-135	32	135	32	72	135	68	M20
T00HA10040-32160	HSK A100 EM32-160	32	160	32	72	160	68	M20
T00HA10040-32200	HSK A100 EM32-200	32	200	32	72	200	68	M20
T00HA10040-40120	HSK A100 EM40-120	40	110	40	80	110	73	M20
T00HA10040-50130	HSK A100 EM50-130	50	130	50	100	130	83	M24

ACCESSORIES:

Set Screw for End Mill Holder METRIC

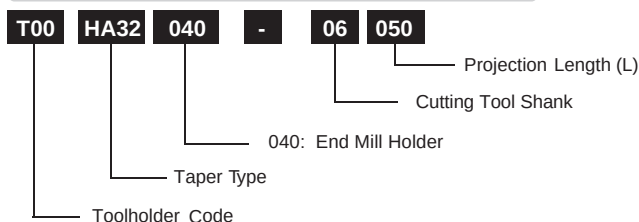
Order Number	Part Name	END MILL
T06EM06-BT	EM06 Set Screw	6
T06EM08-BT	EM08 Set Screw	8
T06EM10-BT	EM10 Set Screw	10
T06EM12-BT	EM12&14 Set Screw	12 , 14
T06EM16-BT	EM16&18Set Screw	16 , 18
T06EM20-BT	EM20 Set Screw	20
T06EM25-BT	EM25 Set Screw	25
T06EM32-BT	EM32 Set Screw	32
T06EM40-BT	EM40&42Set Screw	40 , 42
T06EM50-BT	EM50 Set Screw	50
T06EM63-BT	EM63 Set Screw	63



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

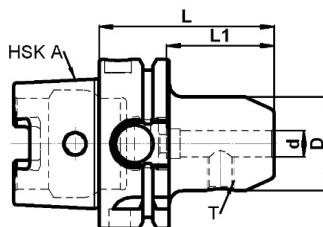
Order Number Instruction



END MILL HOLDER - 040 DIN 1835B

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



HSK A32 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA32040A03060	HSK A32 EM1/8"-2.36"	1/8"	2.36"	1/8"	0.69"	2.36"	0.63"	No6-32
T00HA32040A05060	HSK A32 EM3/16"-2.36"	3/16"	2.36"	3/16"	0.69"	2.36"	0.87"	No8-32
T00HA32040A06060	HSK A32 EM1/4"-2.36"	1/4"	2.36"	1/4"	0.79"	2.36"	1.18"	1/4"-28
T00HA32040A08060	HSK A32 EM5/16"-2.36"	5/16"	2.36"	5/16"	1.00"	2.36"	1.38"	1/4"-28
T00HA32040A09065	HSK A32 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24
T00HA32040A12070	HSK A32 EM1/2"-2.75"	1/2"	2.75"	1/2"	1.38"	2.75"	1.73"	7/16"-20
T00HA32040A16076	HSK A32 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18

HSK A40 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA40040A03060	HSK A40 EM1/8"-2.36"	1/8"	2.36"	1/8"	0.69"	2.36"	0.63"	No6-32
T00HA40040A05060	HSK A40 EM3/16"-2.36"	3/16"	2.36"	3/16"	0.69"	2.36"	0.87"	No8-32
T00HA40040A06060	HSK A40 EM1/4"-2.36"	1/4"	2.36"	1/4"	0.79"	2.36"	1.18"	1/4"-28
T00HA40040A06102	HSK A40 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA40040A08060	HSK A40 EM5/16"-2.36"	5/16"	2.36"	5/16"	1.00"	2.36"	1.38"	1/4"-28
T00HA40040A08102	HSK A40 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA40040A09060	HSK A40 EM3/8"-2.36"	3/8"	2.36"	3/8"	1.00"	2.36"	1.54"	3/8"-24
T00HA40040A09102	HSK A40 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA40040A12070	HSK A40 EM1/2"-2.76"	1/2"	2.76"	1/2"	1.38"	2.76"	1.73"	7/16"-20
T00HA40040A12102	HSK A40 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA40040A16076	HSK A40 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18
T00HA40040A16102	HSK A40 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18

HSK A50 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA50040A03060	HSK A50 EM1/8"-2.36"	1/8"	2.36"	1/8"	0.69"	2.36"	0.63"	No6-32
T00HA50040A05060	HSK A50 EM3/16"-2.36"	3/16"	2.36"	3/16"	0.69"	2.36"	0.87"	No8-32
T00HA50040A06065	HSK A50 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28
T00HA50040A06102	HSK A50 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA50040A08065	HSK A50 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28
T00HA50040A08102	HSK A50 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA50040A09065	HSK A50 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24
T00HA50040A09102	HSK A50 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA50040A12080	HSK A50 EM1/2"-3.15"	1/2"	3.15"	1/2"	1.38"	3.15"	1.73"	7/16"-20
T00HA50040A12102	HSK A50 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA50040A16080	HSK A50 EM5/8"-3.15"	5/8"	3.15"	5/8"	1.65"	3.15"	2.09"	9/16"-18
T00HA50040A16102	HSK A50 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18
T00HA50040A19080	HSK A50 EM3/4"-3.15"	3/4"	3.15"	3/4"	1.89"	3.15"	2.24"	5/8"-18
T00HA50040A19102	HSK A50 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18

HSK A63 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA63040A03065	HSK A63 EM1/8"-2.56"	1/8"	2.56"	1/8"	0.69"	2.56"	0.63"	NO6-32
T00HA63040A03102	HSK A63 EM1/8"-4.00"	1/8"	4.00"	1/8"	0.69"	4.00"	0.63"	NO6-32
T00HA63040A03152	HSK A63 EM1/8"-6.00"	1/8"	6.00"	1/8"	0.69"	6.00"	0.63"	NO6-32
T00HA63040A05065	HSK A63 EM3/16"-2.56"	3/16"	2.56"	3/16"	0.69"	2.56"	0.87"	NO8-32
T00HA63040A05102	HSK A63 EM3/16"-4.00"	3/16"	4.00"	3/16"	0.69"	4.00"	0.87"	NO8-32
T00HA63040A05152	HSK A63 EM3/16"-6.00"	3/16"	6.00"	3/16"	0.69"	6.00"	0.87"	NO8-32
T00HA63040A06065	HSK A63 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28
T00HA63040A06102	HSK A63 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA63040A06152	HSK A63 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28
T00HA63040A08065	HSK A63 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28
T00HA63040A08102	HSK A63 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA63040A08152	HSK A63 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28
T00HA63040A09065	HSK A63 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24
T00HA63040A09102	HSK A63 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA63040A09152	HSK A63 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24
T00HA63040A12080	HSK A63 EM1/2"-3.15"	1/2"	3.15"	1/2"	1.38"	3.15"	1.73"	7/16"-20
T00HA63040A12102	HSK A63 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA63040A12152	HSK A63 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20
T00HA63040A16080	HSK A63 EM5/8"-3.15"	5/8"	3.15"	5/8"	1.65"	3.15"	2.09"	9/16"-18
T00HA63040A16102	HSK A63 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18

END MILL HOLDER - 040 DIN 1835B

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA63040A16152	HSK A63 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18
T00HA63040A19080	HSK A63 EM3/4"-3.15"	3/4"	3.15"	3/4"	1.89"	3.15"	2.24"	5/8"-18
T00HA63040A19102	HSK A63 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18
T00HA63040A19152	HSK A63 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18
T00HA63040A22100	HSK A63 EM7/8"-3.94"	7/8"	3.94"	7/8"	2.00"	3.94"	2.17"	5/8"-18
T00HA63040A22152	HSK A63 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18
T00HA63040A25108	HSK A63 EM1"-4.25"	1"	4.25"	1.00"	2.36"	4.25"	2.52"	3/4"-16
T00HA63040A25152	HSK A63 EM1"-6.00"	1"	6.00"	1.00"	2.36"	6.00"	2.52"	3/4"-16
T00HA63040A32108	HSK A63 EM1 1/4"-4.25"	1 1/4"	4.25"	1 1/4"	2.83"	4.25"	2.68"	3/4"-16
T00HA63040A32152	HSK A63 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16

HSK A80 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA80040A06102	HSK A80 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA80040A08102	HSK A80 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA80040A09102	HSK A80 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA80040A12102	HSK A80 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA80040A16102	HSK A80 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18
T00HA80040A19102	HSK A80 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18
T00HA80040A22102	HSK A80 EM7/8"-4.00"	7/8"	4.00"	7/8"	2.00"	4.00"	2.17"	5/8"-18
T00HA80040A25102	HSK A80 EM1"-4.00"	1"	4.00"	1.00"	2.36"	4.00"	2.52"	3/4"-16
T00HA80040A25152	HSK A80 EM1"-6.00"	1"	6.00"	1.00"	2.36"	6.00"	2.52"	3/4"-16
T00HA80040A32102	HSK A80 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16
T00HA80040A32152	HSK A80 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16

HSK A100 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T
T00HA10040A06080	HSK A100 EM1/4"-3.15"	1/4"	3.15"	1/4"	0.79"	3.15"	1.18"	1/4"-28
T00HA10040A06102	HSK A100 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28
T00HA10040A06152	HSK A100 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28
T00HA10040A06203	HSK A100 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	8.00"	1.18"	1/4"-28
T00HA10040A08080	HSK A100 EM5/16"-3.15"	5/16"	3.15"	5/16"	1.00"	3.15"	1.38"	1/4"-28
T00HA10040A08102	HSK A100 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28
T00HA10040A08152	HSK A100 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28
T00HA10040A08203	HSK A100 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	8.00"	1.38"	1/4"-28
T00HA10040A09080	HSK A100 EM3/8"-3.15"	3/8"	3.15"	3/8"	1.00"	3.15"	1.54"	3/8"-24
T00HA10040A09102	HSK A100 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24
T00HA10040A09152	HSK A100 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24
T00HA10040A09203	HSK A100 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	8.00"	1.54"	3/8"-24
T00HA10040A12090	HSK A100 EM1/2"-3.54"	1/2"	3.54"	1/2"	1.38"	3.54"	1.73"	7/16"-20
T00HA10040A12102	HSK A100 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20
T00HA10040A12152	HSK A100 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20
T00HA10040A12203	HSK A100 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	8.00"	1.73"	7/16"-20
T00HA10040A16100	HSK A100 EM5/8"-3.94"	5/8"	3.94"	5/8"	1.65"	3.94"	2.09"	9/16"-18
T00HA10040A16152	HSK A100 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18
T00HA10040A16203	HSK A100 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	8.00"	2.09"	9/16"-18
T00HA10040A19100	HSK A100 EM3/4"-3.94"	3/4"	3.94"	3/4"	1.89"	3.94"	2.24"	5/8"-18
T00HA10040A19152	HSK A100 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18
T00HA10040A19203	HSK A100 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	8.00"	2.24"	5/8"-18
T00HA10040A22100	HSK A100 EM7/8"-3.94"	7/8"	3.94"	7/8"	2.00"	3.94"	2.17"	5/8"-18
T00HA10040A22152	HSK A100 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18
T00HA10040A25100	HSK A100 EM1"-3.94"	1"	3.94"	1"	2.36"	3.94"	2.52"	3/4"-16
T00HA10040A25152	HSK A100 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16
T00HA10040A25203	HSK A100 EM1"-8.00"	1"	8.00"	1"	2.36"	8.00"	2.52"	3/4"-16
T00HA10040A32100	HSK A100 EM1 1/4"-3.94"	1 1/4"	3.94"	1 1/4"	2.83"	3.94"	2.68"	3/4"-16
T00HA10040A32152	HSK A100 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16
T00HA10040A32203	HSK A100 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.83"	8.00"	2.68"	3/4"-16
T00HA10040A38120	HSK A100 EM1 1/2"-4.72"	1 1/2"	4.72"	1 1/2"	2.75"	4.72"	2.38"	3/4"-16
T00HA10040A50130	HSK A100 EM2"-5.12"	2"	5.12"	2"	3.75"	5.12"	3.38"	1"-14

ACCESSORIES:

COOLANT TUBE

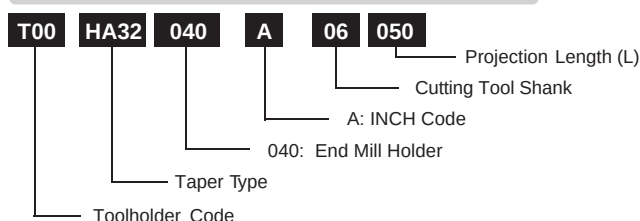
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Set Screw for End Mill Holder INCH

Order Number	Part Name	END MILL
T06EM03-CA	EM1/8", Set Screw	1/8"
T06EM05-CA	EM3/16", Set Screw	3/16"
T06EM06-CA	EM1/4", Set Screw	1/4"
T06EM09-CA	EM3/8", Set Screw	3/8"
T06EM12-CA	EM1/2", Set Screw	1/2"
T06EM16-CA01	EM5/8", Set Screw01	5/8"
T06EM16-CA02	EM5/8", Set Screw02	5/8"
T06EM19-CA01	EM3/4", Set Screw01	3/4"
T06EM19-CA02	EM3/4", Set Screw02	3/4"
T06EM25-CA01	EM1", Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1", Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1", Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



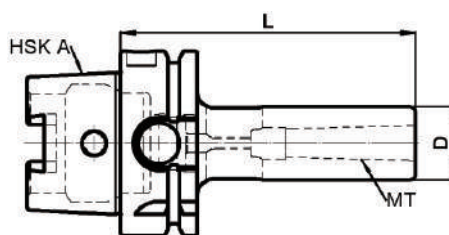
Order Number Instruction



MORSE TAPER HOLDER - 070 DIN 6383

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A50 MORSE TAPER HOLDER METRIC / INCH

Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00HA50070-M1100	HSK A50 MK1-100	MT1	100	MT1	25	100	3.94"
T00HA50070-M2120	HSK A50 MK2-120	MT2	120	MT2	32	120	4.72"
T00HA50070-M3140	HSK A50 MK3-140	MT3	140	MT3	40	140	5.51"

HSK A63 MORSE TAPER HOLDER METRIC / INCH

Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00HA63070-M1100	HSK A63 MK1-100	MT1	100	MT1	25	100	3.94"
T00HA63070-M2120	HSK A63 MK2-120	MT2	120	MT2	32	120	4.72"
T00HA63070-M3140	HSK A63 MK3-140	MT3	140	MT3	40	140	5.51"
T00HA63070-M4160	HSK A63 MK4-170	MT4	160	MT4	48	160	6.30"

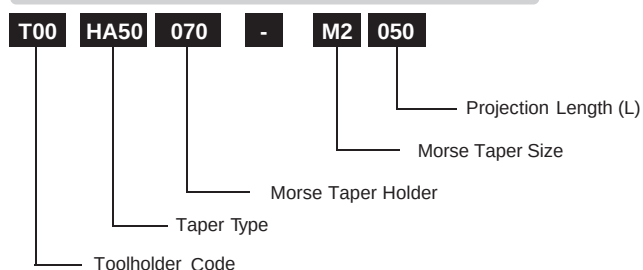
HSK A100 MORSE TAPER HOLDER METRIC / INCH

Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00HA10070-M1110	HSK A100 MK1-110	MT1	110	MT1	25	110	4.33"
T00HA10070-M2120	HSK A100 MK2-120	MT2	120	MT2	32	120	4.72"
T00HA10070-M3150	HSK A100 MK3-150	MT3	150	MT3	40	150	5.91"
T00HA10070-M4170	HSK A100 MK4-170	MT4	170	MT4	48	170	6.69"
T00HA10070-M5200	HSK A100 MK5-200	MT5	200	MT5	63	200	7.87"

COOLANT TUBE

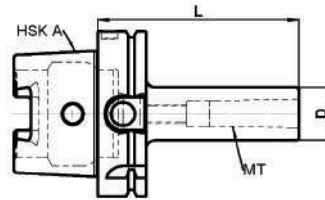
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction



Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm


HSK A63 MORSE TAPER HOLDER **THREAD METRIC / INCH**

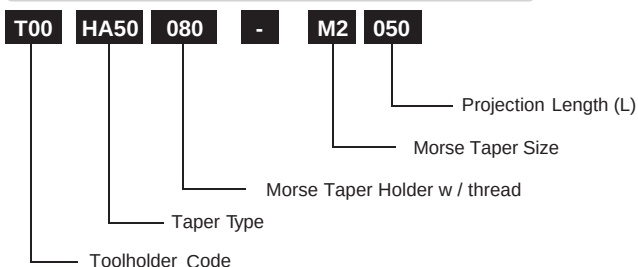
Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00HA63080-M1100A	HSK A63 MK1-100	MT1	100	MT1	25	100	3.94"
T00HA63080-M2120A	HSK A63 MK2-120	MT2	120	MT2	32	120	4.72"
T00HA63080-M3140A	HSK A63 MK3-140	MT3	140	MT3	40	140	5.51"
T00HA63080-M4160A	HSK A63 MK4-170	MT4	160	MT4	48	160	6.30"

HSK A100 MORSE TAPER HOLDER **THREAD METRIC / INCH**

Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00HA10080-M1110A	HSK A100 MK1-110	MT1	110	MT1	25	110	4.33"
T00HA10080-M2120A	HSK A100 MK2-120	MT2	120	MT2	32	120	4.72"
T00HA10080-M3150A	HSK A100 MK3-150	MT3	150	MT3	40	150	5.91"
T00HA10080-M4170A	HSK A100 MK4-170	MT4	170	MT4	48	170	6.69"
T00HA10080-M5200A	HSK A100 MK5-200	MT5	200	MT5	63	200	7.87"

COOLANT TUBE

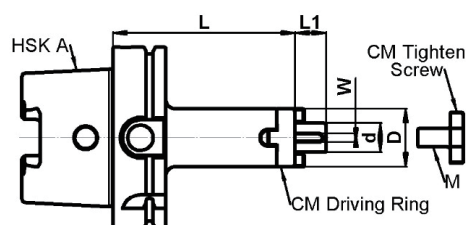
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction


COMBI SHELL MILLING HOLDER - 100 DIN6358

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A40 SHELL MILL ADAPTER COMBI METRIC

Order Number	Part Name	d	L	D	L1	W	M
T00HA40100-16050A	HSK A40 CM16-050	16	50	32	27	4*20	M08
T00HA40100-22050A	HSK A40 CM22-050	22	50	40	31	6*25	M10
T00HA40100-27065A	HSK A40 CM27-065	27	65	48	33	7*25	M12

HSK A50 SHELL MILL ADAPTER COMBI METRIC

Order Number	Part Name	d	L	D	L1	W	M
T00HA50100-16050A	HSK A50 CM16-050	16	50	32	27	4*20	M08
T00HA50100-22050A	HSK A50 CM22-050	22	50	40	31	6*25	M10
T00HA50100-27065A	HSK A50 CM27-065	27	65	48	33	7*25	M12
T00HA50100-32065A	HSK A50 CM32-065	32	65	58	38	8*28	M16

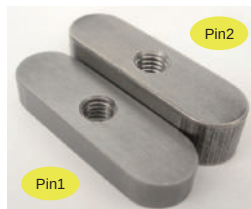
HSK A63 SHELL MILL ADAPTER COMBI METRIC

Order Number	Part Name	d	L	D	L1	W	M
T00HA63100-16060A	HSK A63 CM16-060	16	60	32	27	4*20	M08
T00HA63100-16100A	HSK A63 CM16-100	16	100	32	27	4*20	M08
T00HA63100-22060A	HSK A63 CM22-060	22	60	40	31	6*25	M10
T00HA63100-22100A	HSK A63 CM22-100	22	100	40	31	6*25	M10
T00HA63100-27060A	HSK A63 CM27-060	27	60	48	33	7*25	M12
T00HA63100-27100A	HSK A63 CM27-100	27	100	48	33	7*25	M12
T00HA63100-32060A	HSK A63 CM32-060	32	60	58	38	8*28	M16
T00HA63100-32100A	HSK A63 CM32-100	32	100	58	38	8*28	M16
T00HA63100-40070A	HSK A63 CM40-070	40	70	70	41	10*32	M20
T00HA63100-40100A	HSK A63 CM40-100	40	100	70	41	10*32	M20

HSK A100 SHELL MILL ADAPTER COMBI METRIC

Order Number	Part Name	d	L	D	L1	W	M
T00HA10100-16060A	HSK A100 CM16-060	16	60	32	27	4*20	M08
T00HA10100-16100A	HSK A100 CM16-100	16	100	32	27	4*20	M08
T00HA10100-22060A	HSK A100 CM22-060	22	60	40	31	6*25	M10
T00HA10100-22100A	HSK A100 CM22-100	22	100	40	31	6*25	M10
T00HA10100-27060A	HSK A100 CM27-060	27	60	48	33	7*25	M12
T00HA10100-27100A	HSK A100 CM27-100	27	100	48	33	7*25	M12
T00HA10100-32060A	HSK A100 CM32-060	32	60	58	38	8*28	M16
T00HA10100-32100A	HSK A100 CM32-100	32	100	58	38	8*28	M16
T00HA10100-40070A	HSK A100 CM40-070	40	70	70	41	10*32	M20
T00HA10100-40100A	HSK A100 CM40-100	40	100	70	41	10*32	M20

Note: Combi shell mill holder includes two pins.

COMBI SHELL MILLING HOLDER - 100 *DIN6358*

Apply For	Pin 1	Pin 2
	for improving unbalanceable effect	for slot key
	Order No	Order No
CM16	T090403-200CC	T090404-198CC
CM22	T090604-250CC	T090606-248CC
CM27	T090705-250CC	T090707-249CC
CM32	T090805-280CC	T090807-279CC
CM40	T091005-320CC	T091008-319CC

ACCESSORIES:

DRIVING RING METRIC

Order Number	Part Name	Pilot Size
T15CM16	CM16 Driving Ring	CM16
T15CM22	CM22 Driving Ring	CM22
T15CM27	CM27 Driving Ring	CM27
T15CM32	CM32 Driving Ring	CM32
T15CM40	CM40 Driving Ring	CM40



LOCKING SCREW METRIC

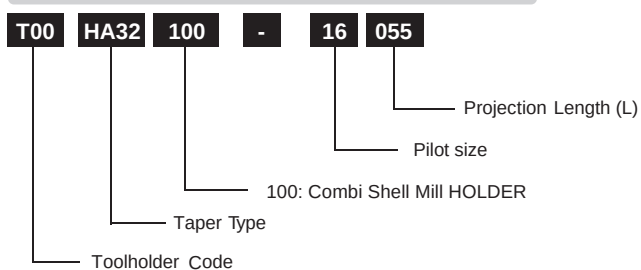
Order Number	Part Name	Pilot Size
T06SM16-DIN	CM16 Lock Screw	CM16
T06SM22-DIN	CM22 Lock Screw	CM22
T06SM27-DIN	CM27 Lock Screw	CM27
T06SM32-DIN	CM32 Lock Screw	CM32
T06SM40-DIN	CM40 Lock Screw	CM40



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

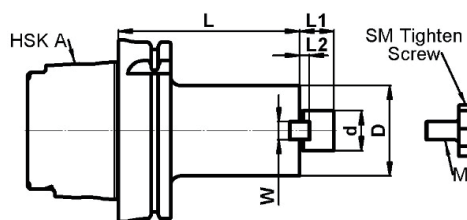
Order Number Instruction



SHELL MILLING HOLDER - 120 DIN6357

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A50 SHELL MILLING HOLDER METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA50120-16050	HSK A50 SM16-050	16	50	40	17	5	8	M08
T00HA50120-16100	HSK A50 SM16-100	16	100	40	17	5	8	M08
T00HA50120-22060	HSK A50 SM22-060	22	60	48	19	5	10	M10
T00HA50120-22100	HSK A50 SM22-100	22	100	48	19	5	10	M10
T00HA50120-27060	HSK A50 SM27-060	27	60	58	21	6	12	M12
T00HA50120-27100	HSK A50 SM27-100	27	100	58	21	6	12	M12

HSK A63 SHELL MILLING HOLDER METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA63120-16040	HSK A63 SM16-040	16	40	40	17	5	8	M08
T00HA63120-16100	HSK A63 SM16-100	16	100	40	17	5	8	M08
T00HA63120-16160	HSK A63 SM16-160	16	160	40	17	5	8	M08
T00HA63120-22050	HSK A63 SM22-050	22	50	48	19	5	10	M10
T00HA63120-22100	HSK A63 SM22-100	22	100	48	19	5	10	M10
T00HA63120-22160	HSK A63 SM22-160	22	160	48	19	5	10	M10
T00HA63120-27060	HSK A63 SM27-060	27	60	58	21	6	12	M12
T00HA63120-27100	HSK A63 SM27-100	27	100	58	21	6	12	M12
T00HA63120-27160	HSK A63 SM27-160	27	160	58	21	6	12	M12
T00HA63120-32060	HSK A63 SM32-060	32	60	78	24	7	14	M16
T00HA63120-32100	HSK A63 SM32-100	32	100	78	24	7	14	M16
T00HA63120-32160	HSK A63 SM32-160	32	160	78	24	7	14	M16
T00HA63120-40060	HSK A63 SM40-060	40	60	88	27	8.5	16	M20
T00HA63120-40100	HSK A63 SM40-100	40	100	88	27	8.5	16	M20

HSK A100 SHELL MILLING HOLDER METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA10120-16050	HSK A100 SM16-050	16	50	40	17	5	8	M08
T00HA10120-16100	HSK A100 SM16-100	16	100	40	17	5	8	M08
T00HA10120-16160	HSK A100 SM16-160	16	160	40	17	5	8	M08
T00HA10120-22050	HSK A100 SM22-050	22	50	48	19	5	10	M10
T00HA10120-22100	HSK A100 SM22-100	22	100	48	19	5	10	M10
T00HA10120-22160	HSK A100 SM22-160	22	160	48	19	5	10	M10
T00HA10120-22300	HSK A100 SM22-300	22	300	48	19	5	10	M10
T00HA10120-27050	HSK A100 SM27-050	27	50	58	21	6	12	M12
T00HA10120-27100	HSK A100 SM27-100	27	100	58	21	6	12	M12
T00HA10120-27160	HSK A100 SM27-160	27	160	58	21	6	12	M12
T00HA10120-32050	HSK A100 SM32-050	32	50	78	24	7	14	M16
T00HA10120-32100	HSK A100 SM32-100	32	100	78	24	7	14	M16
T00HA10120-32160	HSK A100 SM32-160	32	160	78	24	7	14	M16
T00HA10120-40060	HSK A100 SM40-060	40	60	88	27	8.5	16	M20
T00HA10120-40100	HSK A100 SM40-100	40	100	88	27	8.5	16	M20
T00HA10120-60070	HSK A100 SM60-070	60	70	129	40	12.5	25.4	x

SHELL MILLING HOLDER - 120 *DIN6357*

ACCESSORIES:

DRIVING KEY METRIC		
Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40

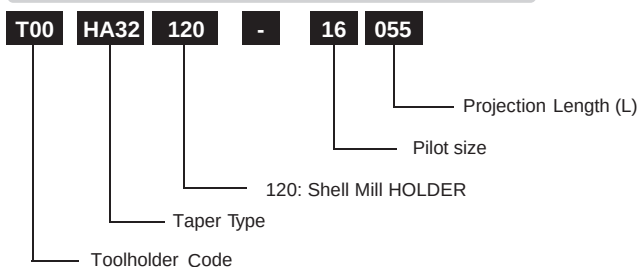


LOCK SCREW METRIC		
Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

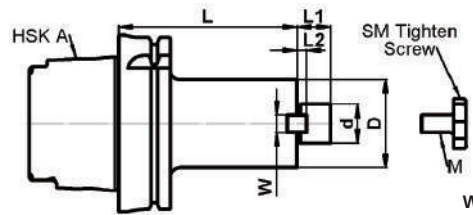
Order Number Instruction



SHELL MILLING HOLDER - 120 DIN6357

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A40 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA40120A19051	HSK A40 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA40120A19102	HSK A40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA40120A25051	HSK A40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA40120A25102	HSK A40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20

HSK A50 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA50120A19051	HSK A50 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA50120A19102	HSK A50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA50120A25057	HSK A50 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA50120A25102	HSK A50 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA50120A32057	HSK A50 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

HSK A63 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA63120A19051	HSK A63 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63120A19102	HSK A63 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63120A19152	HSK A63 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63120A25057	HSK A63 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA63120A25102	HSK A63 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA63120A25152	HSK A63 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA63120A32057	HSK A63 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA63120A32102	HSK A63 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA63120A38057	HSK A63 SM 1 1/2"-2.25"	1 1/2"	2.25"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA63120A38102	HSK A63 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA63120A50203	HSK A63 SM 2"-8.00"	2"	8.00"	4.88"	0.94"	0.39"	3/4"	1"-14

HSK A100 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA10120A19057	HSK A100 SM 3/4"-2.25"	3/4"	2.25"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10120A19102	HSK A100 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10120A19152	HSK A100 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10120A25057	HSK A100 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10120A25102	HSK A100 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10120A25152	HSK A100 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10120A32063	HSK A100 SM 1 1/4"-2.50"	1 1/4"	2.50"	2.25"	0.68"	0.28"	1/2"	5/8"-18
T00HA10120A32102	HSK A100 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA10120A38063	HSK A100 SM 1 1/2"-2.50"	1 1/2"	2.50"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA10120A38102	HSK A100 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA10120A50063	HSK A100 SM 2"-2.50"	2"	2.50"	4.88"	0.94"	0.39"	3/4"	1"-14
T00HA10120A63063	HSK A100 SM 2 1/2"-2.50"	2 1/2"	2.50"	4.88"	0.94"	0.39"	3/4"	1"-14

SHELL MILLING HOLDER - 120 DIN6357

ACCESSORIES:

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"



LOCK SCREW INCH

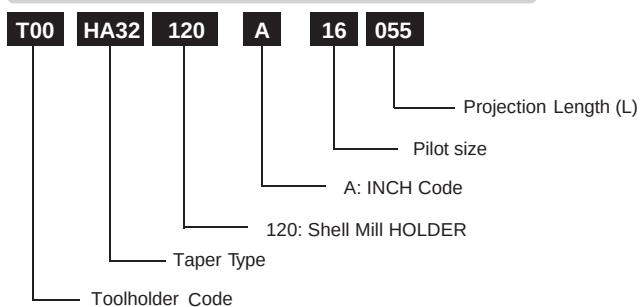
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

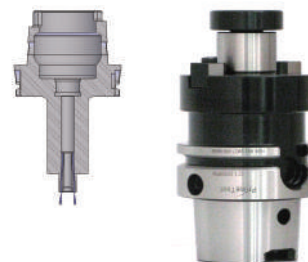
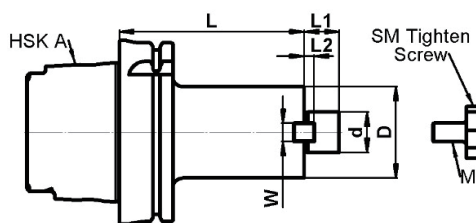
Order Number Instruction



SHELL MILLING HOLDER COOLANT SLOT - 130

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A32 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA32130-16050	HSK A32 SM16-050	16	50	40	17	5	8	M08

HSK A40 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA40130-16050	HSK A40 SM16-050	16	50	40	17	5	8	M08
T00HA40130-16100	HSK A40-SM16-100	16	100	40	17	5	8	M08
T00HA40130-22050	HSK A40 SM22-050	22	50	48	19	5	10	M10
T00HA40130-22100	HSK A40 SM22-100	22	100	48	19	5	10	M10
T00HA40130-27050	HSK A40 SM27-050	27	50	58	21	6	12	M12
T00HA40130-27100	HSK A40 SM27-100	27	100	58	21	6	12	M12

HSK A50 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA50130-16050	HSK A50 SM16-050	16	50	40	17	5	8	M08
T00HA50130-16100	HSK A50 SM16-100	16	100	40	17	5	8	M08
T00HA50130-22060	HSK A50 SM22-060	22	60	48	19	5	10	M10
T00HA50130-22100	HSK A50 SM22-100	22	100	48	19	5	10	M10
T00HA50130-27060	HSK A50 SM27-060	27	60	58	21	6	12	M12
T00HA50130-27100	HSK A50 SM27-100	27	100	58	21	6	12	M12

HSK A63 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA63130-16040	HSK A63 SM16-040	16	40	40	17	5	8	M08
T00HA63130-16100	HSK A63 SM16-100	16	100	40	17	5	8	M08
T00HA63130-16160	HSK A63 SM16-160	16	160	40	17	5	8	M08
T00HA63130-16200	HSK A63 SM16-200	16	200	40	17	5	8	M08
T00HA63130-22050	HSK A63 SM22-050	22	50	48	19	5	10	M10
T00HA63130-22100	HSK A63 SM22-100	22	100	48	19	5	10	M10
T00HA63130-22160	HSK A63 SM22-160	22	160	48	19	5	10	M10
T00HA63130-22200	HSK A63 SM22-200	22	200	48	19	5	10	M10
T00HA63130-27060	HSK A63 SM27-060	27	60	58	21	6	12	M12
T00HA63130-27100	HSK A63 SM27-100	27	100	58	21	6	12	M12
T00HA63130-27160	HSK A63 SM27-160	27	160	58	21	6	12	M12
T00HA63130-27200	HSK A63 SM27-200	27	200	58	21	6	12	M12
T00HA63130-32060	HSK A63 SM32-060	32	60	78	24	7	14	M16
T00HA63130-32100	HSK A63 SM32-100	32	100	78	24	7	14	M16
T00HA63130-32160	HSK A63 SM32-160	32	160	78	24	7	14	M16
T00HA63130-40060	HSK A63 SM40-060	40	60	88	27	8.5	16	M20
T00HA63130-40100	HSK A63 SM40-100	40	100	88	27	8.5	16	M20

HSK A80 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA80130-16050	HSK A80 SM16-050	16	50	40	17	5	8	M08
T00HA80130-16100	HSK A80 SM16-100	16	100	40	17	5	8	M08
T00HA80130-16160	HSK A80 SM16-160	16	160	40	17	5	8	M08
T00HA80130-22050	HSK A80 SM22-050	22	50	48	19	5	10	M10
T00HA80130-22100	HSK A80 SM22-100	22	100	48	19	5	10	M10
T00HA80130-22160	HSK A80 SM22-160	22	160	48	19	5	10	M10
T00HA80130-27050	HSK A80 SM27-050	27	50	58	21	6	12	M12
T00HA80130-27100	HSK A80 SM27-100	27	100	58	21	6	12	M12
T00HA80130-27160	HSK A80 SM27-160	27	160	58	21	6	12	M12
T00HA80130-32050	HSK A80 SM32-050	32	50	78	24	7	14	M16
T00HA80130-32100	HSK A80 SM32-100	32	100	78	24	7	14	M16
T00HA80130-32160	HSK A80 SM32-160	32	160	78	24	7	14	M16
T00HA80130-40060	HSK A80 SM40-060	40	60	88	27	8.5	16	M20
T00HA80130-40100	HSK A80 SM40-100	40	100	88	27	8.5	16	M20
T00HA80130-60070	HSK A80 SM60-070	60	70	129	40	12.5	25.4	x

HSK A100 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA10130-16050	HSK A100 SM16-050	16	50	40	17	5	8	M08
T00HA10130-16100	HSK A100 SM16-100	16	100	40	17	5	8	M08
T00HA10130-16160	HSK A100 SM16-160	16	160	40	17	5	8	M08

SHELL MILLING HOLDER COOLANT SLOT - 130

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA10130-16200	HSK A100 SM16-200	16	200	40	17	5	8	M08
T00HA10130-22050	HSK A100 SM22-050	22	50	48	19	5	10	M10
T00HA10130-22100	HSK A100 SM22-100	22	100	48	19	5	10	M10
T00HA10130-22160	HSK A100 SM22-160	22	160	48	19	5	10	M10
T00HA10130-22200	HSK A100 SM22-200	22	200	48	19	5	10	M10
T00HA10130-22300	HSK A100 SM22-300	22	300	48	19	5	10	M10
T00HA10130-27050	HSK A100 SM27-050	27	50	58	21	6	12	M12
T00HA10130-27100	HSK A100 SM27-100	27	100	58	21	6	12	M12
T00HA10130-27160	HSK A100 SM27-160	27	160	58	21	6	12	M12
T00HA10130-27200	HSK A100 SM27-200	27	200	58	21	6	12	M12
T00HA10130-32050	HSK A100 SM32-050	32	50	78	24	7	14	M16
T00HA10130-32100	HSK A100 SM32-100	32	100	78	24	7	14	M16
T00HA10130-32160	HSK A100 SM32-160	32	160	78	24	7	14	M16
T00HA10130-40060	HSK A100 SM40-060	40	60	88	27	8.5	16	M20
T00HA10130-40100	HSK A100 SM40-100	40	100	88	27	8.5	16	M20
T00HA10130-60070	HSK A100 SM60-070	60	70	129	40	12.5	25.4	x

HSK A125 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HA12130-16100	HSK A125 SM16-100	16	100	40	17	5	8	M08
T00HA12130-16160	HSK A125 SM16-160	16	160	40	17	5	8	M08
T00HA12130-16200	HSK A125 SM16-200	16	200	40	17	5	8	M08
T00HA12130-22100	HSK A125 SM22-100	22	100	48	19	5	10	M10
T00HA12130-22160	HSK A125 SM22-160	22	160	48	19	5	10	M10
T00HA12130-22200	HSK A125 SM22-200	22	200	48	19	5	10	M10
T00HA12130-27100	HSK A125 SM27-100	27	100	58	21	6	12	M12
T00HA12130-27160	HSK A125 SM27-160	27	160	58	21	6	12	M12
T00HA12130-27200	HSK A125 SM27-200	27	200	58	21	6	12	M12
T00HA12130-32100	HSK A125 SM32-100	32	100	78	24	7	14	M16
T00HA12130-32160	HSK A125 SM32-160	32	160	78	24	7	14	M16
T00HA12130-40100	HSK A125 SM40-100	40	100	88	27	8.5	16	M20
T00HA12130-60100	HSK A125 SM60-100	60	100	129	40	12.5	25.4	x

ACCESSORIES:

DRIVING KEY METRIC		
Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

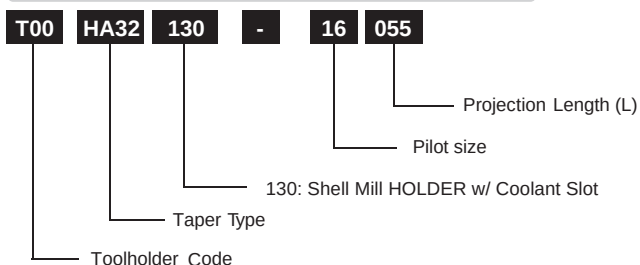


LOCK SCREW METRIC		
Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

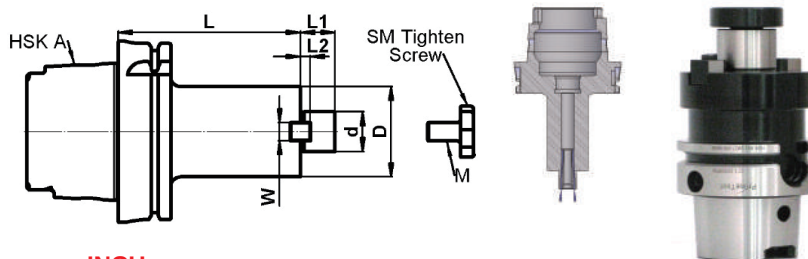
Order Number Instruction



SHELL MILLING HOLDER COOLANT SLOT - 130

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A32 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA32130A19051	HSK A32 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24

HSK A40 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA40130A19051	HSK A40 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA40130A19102	HSK A40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA40130A25051	HSK A40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA40130A25102	HSK A40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20

HSK A50 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA50130A19051	HSK A50 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA50130A19102	HSK A50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA50130A25057	HSK A50 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA50130A25102	HSK A50 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA50130A32057	HSK A50 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

HSK A63 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA63130A19051	HSK A63 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63130A19102	HSK A63 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63130A19152	HSK A63 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63130A19203	HSK A63 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA63130A25057	HSK A63 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA63130A25102	HSK A63 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA63130A25152	HSK A63 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA63130A32057	HSK A63 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA63130A32102	HSK A63 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA63130A38057	HSK A63 SM 1 1/2"-2.25"	1 1/2"	2.25"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA63130A38102	HSK A63 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA63130A50203	HSK A63 SM 2"-8.00"	2"	8.00"	4.88"	0.94"	0.35"	3/4"	1"-14

HSK A80 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA80130A19057	HSK A80 SM 3/4"-2.25"	3/4"	2.25"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA80130A19102	HSK A80 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA80130A19152	HSK A80 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA80130A25057	HSK A80 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA80130A25102	HSK A80 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA80130A25152	HSK A80 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA80130A32063	HSK A80 SM 1 1/4"-2.50"	1 1/4"	2.50"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA80130A32102	HSK A80 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA80130A38063	HSK A80 SM 1 1/2"-2.50"	1 1/2"	2.50"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA80130A38102	HSK A80 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA80130A51063	HSK A80 SM 2"-2.50"	2"	2.50"	4.88"	0.94"	0.39"	3/4"	1"-14
T00HA80130A63063	HSK A80 SM 2 1/2"-2.50"	2 1/2"	2.50"	4.88"	0.94"	0.39"	3/4"	1"-14

HSK A100 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00HA10130A19057	HSK A100 SM 3/4"-2.25"	3/4"	2.25"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10130A19102	HSK A100 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10130A19152	HSK A100 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10130A19203	HSK A100 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HA10130A25057	HSK A100 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10130A25102	HSK A100 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10130A25152	HSK A100 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10130A25203	HSK A100 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HA10130A32063	HSK A100 SM 1 1/4"-2.50"	1 1/4"	2.50"	2.25"	0.68"	0.28"	1/2"	5/8"-18
T00HA10130A32102	HSK A100 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA10130A32152	HSK A100 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00HA10130A38063	HSK A100 SM 1 1/2"-2.50"	1 1/2"	2.50"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA10130A38102	HSK A100 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00HA10130A51063	HSK A100 SM 2"-2.50"	2"	2.50"	4.88"	0.94"	0.39"	3/4"	1"-14
T00HA10130A63063	HSK A100 SM 2 1/2"-2.50"	2 1/2"	2.50"	4.88"	0.94"	0.39"	3/4"	1"-14

SHELL MILLING HOLDER COOLANT SLOT - 130

ACCESSORIES:

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"



LOCK SCREW INCH

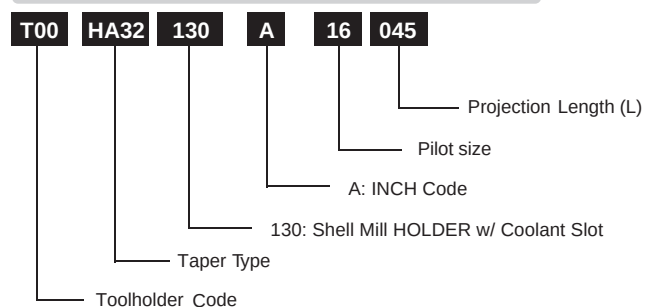
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

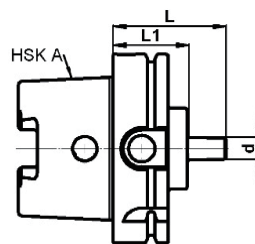
Order Number Instruction



DRILL CHUCK ARBOR - 140

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm (0.0002")
- Balance: G2.5 25000 rpm



HSK A40 DRILL CHUCK ARBOR

Order Number	Part Name	Mount	Length	L	L2	d	Taper
T00HA40A140B12050	HSK A40 B12-050	B12	50	68	50	12	B12
T01HA40A140-JT1050	HSK A40 JT1-1.97"	JT1	1.97"	2.83"	1.97"	0.39"	JT1
T01HA40A140-JT2050	HSK A40 JT2-1.97"	JT2	1.97"	2.87"	1.97"	0.56"	JT2

HSK A50 DRILL CHUCK ARBOR

Order Number	Part Name	Mount	Length	L	L2	d	Taper
T01HA50A140B12050	HSK A50 B12-050	B12	50	68	50	12	B12
T01HA50A140B16050	HSK A50 B16-050	B16	50	73	50	16	B16
T01HA50A140-J2050	HSK A50 JT2-1.97"	JT2	1.97"	2.87"	1.97"	0.56"	JT2

HSK A63 DRILL CHUCK ARBOR

Order Number	Part Name	Mount	Length	L	L2	d	Taper
T01HA63A140B12050	HSK A63 B12-050	B12	50	68	50	12	B12
T01HA63A140B16060	HSK A63 B16-060	B16	60	83	60	16	B16
T01HA63A140-J2050	HSK A63 JT2-1.97"	JT2	1.97"	2.87"	1.97"	0.56"	JT2
T01HA63A140-J6050	HSK A63 JT6-1.97"	JT6	1.97"	2.91"	1.97"	0.68"	JT6

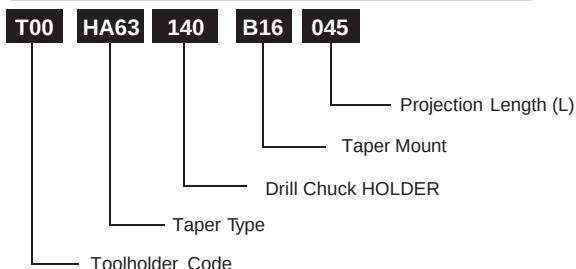
HSK A100 DRILL CHUCK ARBOR

Order Number	Part Name	Mount	Length	L	L2	d	Taper
T01HA10A140B12042	HSK A100 B12-042	B12	42	60	42	12	B12
T01HA10A140B16042	HSK A100 B16-042	B16	42	65	42	16	B16
T01HA10A140-J2042	HSK A100 JT2-1.65"	JT2	1.65"	2.48"	1.65"	0.56"	JT2
T01HA10A140-J6042	HSK A100 JT6-1.65"	JT6	1.65"	2.60"	1.65"	0.68"	JT6

COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

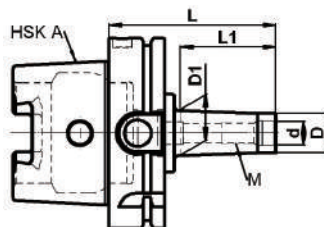
Order Number Instruction



SCREW-IN HOLDER - 200

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HA32200-08040	HSK A32 M08-040	M08	40	15	16	8.5	15	1.57"
T00HA32200-08065	HSK A32 M08-065	M08	65	15	16	8.5	40	2.56"
T00HA32200-10040	HSK A32 M10-040	M10	40	18	18	10.5	15	1.97"
T00HA32200-10065	HSK A32 M10-065	M10	65	18	20	10.5	40	2.56"
T00HA32200-12040	HSK A32 M12-040	M12	40	21	21	12.5	15	1.97"
T00HA32200-12065	HSK A32 M12-065	M12	65	21	23	12.5	40	2.56"

HSK A40 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HA40200-08050	HSK A40 M08-050	M08	50	15	15	8.5	25	1.97"
T00HA40200-08065	HSK A40 M08-065	M08	65	15	16	8.5	36	2.56"
T00HA40200-10050	HSK A40 M10-050	M10	50	18	18	10.5	25	1.97"
T00HA40200-10065	HSK A40 M10-065	M10	65	18	20	10.5	36	2.56"
T00HA40200-12050	HSK A40 M12-050	M12	50	21	21	12.5	25	1.97"
T00HA40200-12065	HSK A40 M12-065	M12	65	21	23	12.5	40	2.56"
T00HA40200-16050	HSK A40 M16-050	M16	50	29	29	17	25	1.97"
T00HA40200-16065	HSK A40 M16-065	M16	65	29	32	17	40	2.56"

HSK A50 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HA50200-08050A	HSK A50 M08-050	M08	50	15	15	8.5	19	1.97"
T00HA50200-08065A	HSK A50 M08-065	M08	65	15	16	8.5	30	2.56"
T00HA50200-08087A	HSK A50 M08-087	M08	87	15	23	8.5	50	3.43"
T00HA50200-08100A	HSK A50 M08-100	M08	100	15	23	8.5	50	3.94"
T00HA50200-10050A	HSK A50 M10-050	M10	50	18	18	10.5	19	1.97"
T00HA50200-10065A	HSK A50 M10-065	M10	65	18	20	10.5	30	2.56"
T00HA50200-10087A	HSK A50 M10-087	M10	87	18	25	10.5	50	3.43"
T00HA50200-10100A	HSK A50 M10-100	M10	100	18	25	10.5	50	3.94"
T00HA50200-12050A	HSK A50 M12-050	M12	50	21	21	12.5	19	1.97"
T00HA50200-12065A	HSK A50 M12-065	M12	65	21	23	12.5	34	2.56"
T00HA50200-12087A	HSK A50 M12-087	M12	87	21	24	12.5	50	3.43"
T00HA50200-12100A	HSK A50 M12-100	M12	100	21	24	12.5	50	3.94"
T00HA50200-16050A	HSK A50 M16-050	M16	50	29	29	17	19	1.97"
T00HA50200-16065A	HSK A50 M16-065	M16	65	29	33	17	34	2.56"
T00HA50200-16087A	HSK A50 M16-087	M16	87	29	34	17	50	3.43"
T00HA50200-16100A	HSK A50 M16-100	M16	100	29	34	17	50	3.94"

HSK A63 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HA63200-08065A	HSK A63 M08-065	M08	65	15	16	8.5	30	2.56"
T00HA63200-08087A	HSK A63 M08-087	M08	87	15	23	8.5	50	3.43"
T00HA63200-08100A	HSK A63 M08-100	M08	100	15	23	8.5	50	3.94"
T00HA63200-08127A	HSK A63 M08-127	M08	127	15	23	8.5	50	5.00"
T00HA63200-08160A	HSK A63 M08-160	M08	160	15	23	8.5	50	6.30"
T00HA63200-10065A	HSK A63 M10-065	M10	65	18	20	10.5	30	2.56"
T00HA63200-10087A	HSK A63 M10-087	M10	87	18	25	10.5	50	3.43"
T00HA63200-10100A	HSK A63 M10-100	M10	100	18	25	10.5	50	3.94"
T00HA63200-10127A	HSK A63 M10-127	M10	127	18	25	10.5	50	5.00"
T00HA63200-10160A	HSK A63 M10-160	M10	160	18	25	10.5	50	6.30"
T00HA63200-12065A	HSK A63 M12-065	M12	65	21	21	12.5	30	2.56"
T00HA63200-12087A	HSK A63 M12-087	M12	87	21	24	12.5	50	3.43"
T00HA63200-12100A	HSK A63 M12-100	M12	100	21	24	12.5	50	3.94"
T00HA63200-12127A	HSK A63 M12-127	M12	127	21	35	12.5	90	5.00"
T00HA63200-12160A	HSK A63 M12-160	M12	160	21	35	12.5	90	6.30"
T00HA63200-16065A	HSK A63 M16-065	M16	65	29	31	17	30	2.56"
T00HA63200-16087A	HSK A63 M16-087	M16	87	29	34	17	50	3.43"
T00HA63200-16100A	HSK A63 M16-100	M16	100	29	34	17	50	3.94"
T00HA63200-16127A	HSK A63 M16-127	M16	127	29	39	17	90	5.00"
T00HA63200-16160A	HSK A63 M16-160	M16	160	29	39	17	90	6.30"

SCREW-IN HOLDER - 200

HSK A80 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HA80200-08100A	HSK A80 M08-100	M08	100	13	23	8.5	50	3.94"
T00HA80200-10100A	HSK A80 M10-100	M10	100	18	25	10.5	50	3.94"
T00HA80200-12100A	HSK A80 M12-100	M12	100	21	24	12.5	50	3.94"
T00HA80200-16100A	HSK A80 M16-100	M16	100	29	34	17	50	3.94"

HSK A100 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HA10200-08087A	HSK A100 M08-087	M08	87	13	23	12.5	50	3.43"
T00HA10200-08100A	HSK A100 M08-100	M08	100	15	23	12.5	50	3.94"
T00HA10200-08127A	HSK A100 M08-127	M08	127	15	23	12.5	50	5.00"
T00HA10200-10087A	HSK A100 M10-087	M10	87	18	25	12.5	50	3.43"
T00HA10200-10100A	HSK A100 M10-100	M10	100	18	25	12.5	50	3.94"
T00HA10200-10127A	HSK A100 M10-127	M10	127	18	35	12.5	90	5.00"
T00HA10200-12087A	HSK A100 M12-087	M12	87	21	24	12.5	50	3.43"
T00HA10200-12100A	HSK A100 M12-100	M12	100	21	24	12.5	50	3.94"
T00HA10200-12127A	HSK A100 M12-127	M12	127	21	35	12.5	90	5.00"
T00HA10200-12160A	HSK A100 M12-160	M12	160	21	35	12.5	90	6.30"
T00HA10200-12200A	HSK A100 M12-200	M12	200	21	35	12.5	90	7.87"
T00HA10200-16087A	HSK A100 M16-087	M16	87	29	34	17	50	3.43"
T00HA10200-16100A	HSK A100 M16-100	M16	100	29	34	17	50	3.94"
T00HA10200-16127A	HSK A100 M16-127	M16	127	29	39	17	90	5.00"
T00HA10200-16160A	HSK A100 M16-160	M16	160	29	39	17	90	6.30"
T00HA10200-16200A	HSK A100 M16-200	M16	200	29	39	17	90	7.87"

Note:

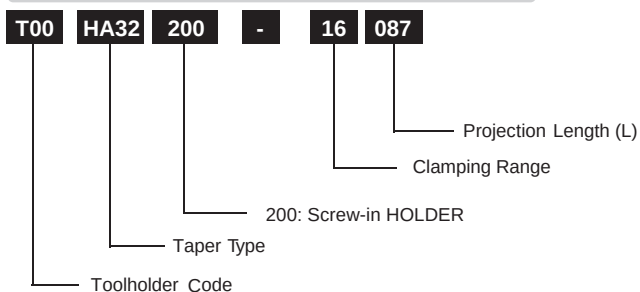
Screw-in cutter not include.

COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock



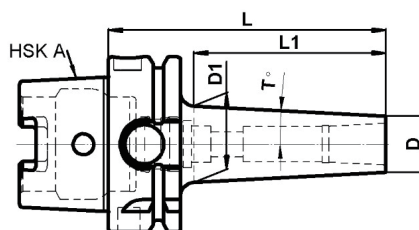
Order Number Instruction



SLIM COLLET CHUCK - 210

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HA32210-06100A	HSK A32 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HA32210-10100A	HSK A32 HC10-100	HC10	100	100	20	25	3.0	45	3.94"

HSK A40 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HA40210-06100A	HSK A40 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HA40210-06160A	HSK A40 HC06-160	HC06	160	160	13	22	2.5	125	6.30"
T00HA40210-10100A	HSK A40 HC10-100	HC10	100	100	20	27	3.0	65	3.94"
T00HA40210-10160A	HSK A40 HC10-160	HC10	160	160	20	33	3.0	125	6.30"

HSK A50 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HA50210-06100A	HSK A50 HC06-100	HC06	100	100	13	17	2.5	55	3.94"
T00HA50210-06160A	HSK A50 HC06-160	HC06	160	160	13	22	2.5	125	6.30"
T00HA50210-10100A	HSK A50 HC10-100	HC10	100	100	20	28	3.0	70	3.94"
T00HA50210-10160A	HSK A50 HC10-160	HC10	160	160	20	38	3.0	139	6.30"

HSK A63 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HA63210-06100A	HSK A63 HC06-100	HC06	100	100	13	17	2.5	55	3.94"
T00HA63210-06160A	HSK A63 HC06-160	HC06	160	160	13	22	2.5	125	6.30"
T00HA63210-10100A	HSK A63 HC10-100	HC10	100	100	20	28	3.0	70	3.94"
T00HA63210-10160A	HSK A63 HC10-160	HC10	160	160	20	34	3.0	130	6.30"
T00HA63210-16100A	HSK A63 HC16-100	HC16	100	100	32	38	3.0	70	3.94"
T00HA63210-16160A	HSK A63 HC16-160	HC16	160	160	32	38	3.0	70	6.30"

HSK A80 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HA80210-06100A	HSK A80 HC06-100	HC06	100	100	13	17	2.5	55	3.94"
T00HA80210-10100A	HSK A80 HC10-100	HC10	100	100	20	28	3.0	70	3.94"

HSK A100 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HA10210-06100A	HSK A100 HC06-100	HC06	100	100	13	17	2.5	48	3.94"
T00HA10210-06160A	HSK A100 HC06-160	HC06	160	160	13	21	2.5	108	6.30"
T00HA10210-10100A	HSK A100 HC10-100	HC10	100	100	20	26	3.0	53	3.94"
T00HA10210-10160A	HSK A100 HC10-160	HC10	160	160	20	33	3.0	113	6.30"
T00HA10210-16100A	HSK A100 HC16-100	HC16	100	100	32	37	3.0	48	3.94"
T00HA10210-16100A	HSK A100 HC16-160	HC16	160	160	32	38	3.0	70	6.30"

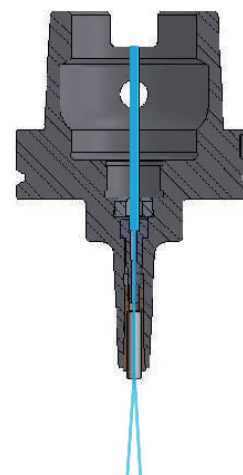
Note:

Order exclude HC collet.

ACCESSORIES:

HC COLLETS METRIC

Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16



SLIM COLLET CHUCK - 210

HC COLLETS INCH

Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"



HC DRAWBAR

Order Number	Part Name
T06HC06100-HA63	HA63 HC06100 Drawbar Screw
T06HC06160-HA63	HA63 HC06160 Drawbar Screw
T06HC10100-HA63	HA63 HC10100 Drawbar Screw
T06HC10160-HA63	HA63 HC10160 Drawbar Screw
T06HC16100-HA63	HA63 HC16100 Drawbar Screw
T06HC16160-HA63	HA63 HC16160 Drawbar Screw



HC SCREW

Order Number	Part Name
T06HC-HSK-02	HSK63 HC06 JAM NUT

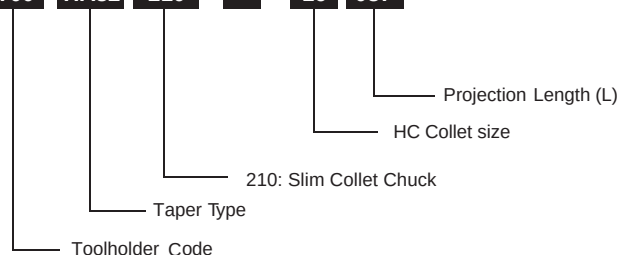


COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

T00 HA32 210 - 16 087

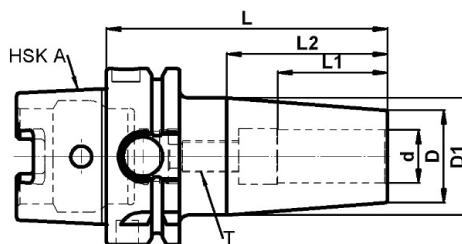


SHRINK-FIT 4.5° - 220

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA32220-03060	HSK A32 SF03-060-4.5°	3	60	3	35	15	10	15.5	S10	YES
T00HA32220-03080	HSK A32 SF03-080-4.5°	3	80	3	51	15	10	18.0	S10	YES
T00HA32220-04060	HSK A32 SF04-060-4.5°	4	60	4	35	16	12	17.5	S10	YES
T00HA32220-04080	HSK A32 SF04-080-4.5°	4	80	4	51	16	12	20.0	S10	YES
T00HA32220-05060	HSK A32 SF05-060-4.5°	5	60	5	35	20	12	17.5	S10	YES
T00HA32220-05080	HSK A32 SF05-080-4.5°	5	80	5	51	20	12	20.0	S10	YES
T00HA32220-06075	HSK A32 SF06-075-4.5°	6	75	6	38	22	21	27.0	M05	YES
T00HA32220-08075	HSK A32 SF08-075-4.5°	8	75	8	38	22	21	27.0	M06	YES
T00HA32220-10075	HSK A32 SF10-090-4.5°	10	75	10	51	31	24	32.0	M08	YES
T00HA32220-12080	HSK A32 SF12-090-4.5°	12	80	12	51	36	24	32.0	M10	YES

HSK A40 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA40220-03060	HSK A40 SF03-060-4.5°	3	60	3	35	15	10	15.5	S10	YES
T00HA40220-03100	HSK A40 SF03-100-4.5°	3	100	3	51	15	10	18.0	S10	YES
T00HA40220-04060	HSK A40 SF04-060-4.5°	4	60	4	35	16	12	17.5	S10	YES
T00HA40220-04100	HSK A40 SF04-100-4.5°	4	100	4	51	16	12	20.0	S10	YES
T00HA40220-05060	HSK A40 SF05-060-4.5°	5	60	5	35	20	12	17.5	S10	YES
T00HA40220-05100	HSK A40 SF05-100-4.5°	5	100	5	51	20	12	20.0	S10	YES
T00HA40220-06080	HSK A40 SF06-080-4.5°	6	80	6	38	22	21	27.0	M05	YES
T00HA40220-06100	HSK A40 SF06-100-4.5°	6	100	6	38	22	21	27.0	M05	YES
T00HA40220-08080	HSK A40 SF08-080-4.5°	8	80	8	38	22	21	27.0	M06	YES
T00HA40220-08100	HSK A40 SF08-100-4.5°	8	100	8	38	22	21	27.0	M06	YES
T00HA40220-10080	HSK A40 SF10-080-4.5°	10	80	10	51	31	24	32.0	M08	YES
T00HA40220-10100	HSK A40 SF10-100-4.5°	10	100	10	51	31	24	32.0	M08	YES
T00HA40220-12090	HSK A40 SF12-090-4.5°	12	90	12	51	31	24	32.0	M10	YES
T00HA40220-14090	HSK A40 SF14-090-4.5°	14	90	14	45	36	27	34.0	M10	YES
T00HA40220-16090	HSK A40 SF16-090-4.5°	16	90	16	45	39	27	34.0	M12	YES
T00HA40220-18095	HSK A40 SF18-095-4.5°	18	95	18	57	39	33	42.0	M12	YES
T00HA40220-20095	HSK A40 SF20-095-4.5°	20	95	20	57	39	33	42.0	M16	YES

HSK A50 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA50220-03080	HSK A50 SF03-080-4.5°	3	80	3	51	15	10	18.0	S10	YES
T00HA50220-03100	HSK A50 SF03-100-4.5°	3	100	3	51	15	10	18.0	S10	YES
T00HA50220-04080	HSK A50 SF04-080-4.5°	4	80	4	51	16	12	20.0	S10	YES
T00HA50220-04100	HSK A50 SF04-100-4.5°	4	100	4	51	16	12	20.0	S10	YES
T00HA50220-05080	HSK A50 SF05-080-4.5°	5	80	5	51	16	12	20.0	S10	YES
T00HA50220-05100	HSK A50 SF05-100-4.5°	5	100	5	51	16	12	20.0	S10	YES
T00HA50220-06080	HSK A50 SF06-080-4.5°	6	80	6	38	22	21	27.0	M05	YES
T00HA50220-06100	HSK A50 SF06-100-4.5°	6	100	6	38	22	21	27.0	M05	YES
T00HA50220-08080	HSK A50 SF08-080-4.5°	8	80	8	38	22	21	27.0	M06	YES
T00HA50220-08100	HSK A50 SF08-100-4.5°	8	100	8	38	22	21	27.0	M06	YES
T00HA50220-10085	HSK A50 SF10-085-4.5°	10	85	10	51	31	24	32.0	M08	YES
T00HA50220-10100	HSK A50 SF10-100-4.5°	10	100	10	51	31	24	32.0	M08	YES
T00HA50220-12090	HSK A50 SF12-090-4.5°	12	90	12	51	31	24	32.0	M10	YES
T00HA50220-14090	HSK A50 SF14-090-4.5°	14	90	14	44	36	27	34.0	M10	YES
T00HA50220-16095	HSK A50 SF16-095-4.5°	16	95	16	44	39	27	34.0	M12	YES
T00HA50220-18095	HSK A50 SF18-095-4.5°	18	95	18	57	39	33	42.0	M12	YES
T00HA50220-20100	HSK A50 SF20-100-4.5°	20	100	20	57	39	33	42.0	M16	YES

HSK A63 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63220-03080	HSK A63 SF03-080-4.5°	3	80	3	51	15	10	18.0	S10	YES
T00HA63220-03100	HSK A63 SF03-100-4.5°	3	100	3	64	15	10	20.0	S10	YES
T00HA63220-03160	HSK A63 SF03-160-4.5°	3	160	3	64	15	10	20.0	S10	YES
T00HA63220-04080	HSK A63 SF04-080-4.5°	4	80	4	51	16	12	20.0	S10	YES
T00HA63220-04100	HSK A63 SF04-100-4.5°	4	100	4	64	16	12	22.0	S10	YES
T00HA63220-04160	HSK A63 SF04-160-4.5°	4	160	4	64	16	12	22.0	S10	YES
T00HA63220-05080	HSK A63 SF05-080-4.5°	5	80	5	51	20	12	20.0	S10	YES
T00HA63220-05100	HSK A63 SF05-100-4.5°	5	100	5	64	16	12	22.0	S10	YES
T00HA63220-05160	HSK A63 SF05-160-4.5°	5	160	5	64	16	12	22.0	S10	YES
T00HA63220-06080	HSK A63 SF06-080-4.5°	6	80	6	38	22	21	27.0	M05	YES

SHRINK-FIT 4.5° - 220

4.5°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63220-06100	HSK A63 SF06-100-4.5°	6	100	6	38	22	21	27.0	M05	YES
T00HA63220-06120	HSK A63 SF06-120-4.5°	6	120	6	38	22	21	27.0	M05	YES
T00HA63220-06160	HSK A63 SF06-160-4.5°	6	160	6	38	22	21	27.0	M05	YES
T00HA63220-08080	HSK A63 SF08-080-4.5°	8	80	8	38	22	21	27.0	M06	YES
T00HA63220-08100	HSK A63 SF08-100-4.5°	8	100	8	38	22	21	27.0	M06	YES
T00HA63220-08120	HSK A63 SF08-120-4.5°	8	120	8	38	22	21	27.0	M06	YES
T00HA63220-08160	HSK A63 SF08-160-4.5°	8	160	8	38	22	21	27.0	M06	YES
T00HA63220-10085	HSK A63 SF10-085-4.5°	10	85	10	51	31	24	32.0	M08	YES
T00HA63220-10100	HSK A63 SF10-100-4.5°	10	100	10	51	31	24	32.0	M08	YES
T00HA63220-10120	HSK A63 SF10-120-4.5°	10	120	10	51	31	24	32.0	M08	YES
T00HA63220-10160	HSK A63 SF10-160-4.5°	10	160	10	51	31	24	32.0	M08	YES
T00HA63220-12090	HSK A63 SF12-090-4.5°	12	90	12	51	31	24	32.0	M10	YES
T00HA63220-12100	HSK A63 SF12-100-4.5°	12	100	12	51	31	24	32.0	M10	YES
T00HA63220-12120	HSK A63 SF12-120-4.5°	12	120	12	51	31	24	32.0	M10	YES
T00HA63220-12160	HSK A63 SF12-160-4.5°	12	160	12	51	31	24	32.0	M10	YES
T00HA63220-14090	HSK A63 SF14-090-4.5°	14	90	14	44	36	27	34.0	M10	YES
T00HA63220-16095	HSK A63 SF16-095-4.5°	16	95	16	44	39	27	34.0	M12	YES
T00HA63220-16120	HSK A63 SF16-120-4.5°	16	120	16	44	39	27	34.0	M12	YES
T00HA63220-16160	HSK A63 SF16-160-4.5°	16	160	16	44	39	27	34.0	M12	YES
T00HA63220-18095	HSK A63 SF18-095-4.5°	18	95	18	57	39	33	42.0	M12	YES
T00HA63220-20100	HSK A63 SF20-100-4.5°	20	100	20	57	41	33	42.0	M16	YES
T00HA63220-20120	HSK A63 SF20-120-4.5°	20	120	20	57	41	33	42.0	M16	YES
T00HA63220-20160	HSK A63 SF20-160-4.5°	20	160	20	57	41	33	42.0	M16	YES
T00HA63220-25115	HSK A63 SF25-115-4.5°	25	115	25	57	47	44	53.0	M16	YES
T00HA63220-25160	HSK A63 SF25-160-4.5°	25	160	25	57	47	44	53.0	M16	YES
T00HA63220-32120	HSK A63 SF32-120-4.5°	32	120	32	57	51	44	53.0	M16	YES
T00HA63220-32160	HSK A63 SF32-160-4.5°	32	160	32	57	51	44	53.0	M16	YES

HSK A80 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA80220-06085	HSK A80 SF06-085-4.5°	6	85	6	38	22	21	27.0	M05	YES
T00HA80220-08085	HSK A80 SF08-085-4.5°	8	85	8	38	26	21	27.0	M06	YES
T00HA80220-10090	HSK A80 SF10-090-4.5°	10	90	10	51	31	24	32.0	M08	YES
T00HA80220-12095	HSK A80 SF12-095-4.5°	12	95	12	51	31	24	32.0	M10	YES
T00HA80220-14095	HSK A80 SF14-095-4.5°	14	95	14	44	36	27	34.0	M10	YES
T00HA80220-16100	HSK A80 SF16-100-4.5°	16	100	16	44	39	27	34.0	M12	YES
T00HA80220-18100	HSK A80 SF18-100-4.5°	18	100	18	57	39	33	42.0	M12	YES
T00HA80220-20105	HSK A80 SF20-105-4.5°	20	105	20	57	41	33	42.0	M16	YES
T00HA80220-25115	HSK A80 SF25-115-4.5°	25	115	25	57	47	44	53.0	M16	YES
T00HA80220-32120	HSK A80 SF32-120-4.5°	32	120	32	57	51	44	53.0	M16	YES

HSK A100 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10220-03100	HSK A100 SF03-100-4.5°	3	100	3	64	15	10	20.0	S10	YES
T00HA10220-03160	HSK A100 SF03-160-4.5°	3	160	3	64	15	10	20.0	S10	YES
T00HA10220-03200	HSK A100 SF03-200-4.5°	3	200	3	64	15	10	20.0	S10	YES
T00HA10220-04100	HSK A100 SF04-100-4.5°	4	100	4	50	16	12	20.0	S10	YES
T00HA10220-04160	HSK A100 SF04-160-4.5°	4	160	4	64	16	12	22.0	S10	YES
T00HA10220-04200	HSK A100 SF04-200-4.5°	4	200	4	64	16	12	22.0	S10	YES
T00HA10220-05100	HSK A100 SF05-100-4.5°	5	100	5	50	16	12	20.0	S10	YES
T00HA10220-05160	HSK A100 SF05-160-4.5°	5	160	5	64	16	12	22.0	S10	YES
T00HA10220-05200	HSK A100 SF05-200-4.5°	5	200	5	64	16	12	22.0	S10	YES
T00HA10220-06085	HSK A100 SF06-085-4.5°	6	85	6	38	22	21	27.0	M05	YES
T00HA10220-06100	HSK A100 SF06-100-4.5°	6	100	6	38	22	21	27.0	M05	YES
T00HA10220-06160	HSK A100 SF06-160-4.5°	6	160	6	38	22	21	27.0	M05	YES
T00HA10220-06200	HSK A100 SF06-200-4.5°	6	200	6	38	22	21	27.0	M05	YES
T00HA10220-08085	HSK A100 SF08-085-4.5°	8	85	8	38	22	21	27.0	M06	YES
T00HA10220-08100	HSK A100 SF08-100-4.5°	8	100	8	38	22	21	27.0	M06	YES
T00HA10220-08160	HSK A100 SF08-160-4.5°	8	160	8	38	22	21	27.0	M06	YES
T00HA10220-08200	HSK A100 SF08-200-4.5°	8	200	8	38	22	21	27.0	M06	YES
T00HA10220-10090	HSK A100 SF10-090-4.5°	10	90	10	51	31	24	32.0	M08	YES
T00HA10220-10160	HSK A100 SF10-160-4.5°	10	160	10	51	31	24	32.0	M08	YES
T00HA10220-10200	HSK A100 SF10-200-4.5°	10	200	10	51	31	24	32.0	M08	YES
T00HA10220-12095	HSK A100 SF12-095-4.5°	12	95	12	51	31	24	32.0	M10	YES
T00HA10220-12160	HSK A100 SF12-160-4.5°	12	160	12	51	31	24	32.0	M10	YES
T00HA10220-12200	HSK A100 SF12-200-4.5°	12	200	12	51	31	24	32.0	M10	YES
T00HA10220-14095	HSK A100 SF14-095-4.5°	14	95	14	44	36	27	34.0	M10	YES
T00HA10220-16100	HSK A100 SF16-100-4.5°	16	100	16	44	36	27	34.0	M12	YES
T00HA10220-16160	HSK A100 SF16-160-4.5°	16	160	16	44	36	27	34.0	M12	YES
T00HA10220-16200	HSK A100 SF16-200-4.5°	16	200	16	44	36	27	34.0	M12	YES

SHRINK-FIT 4.5° - 220

4.5°

HSK A100 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10220-18100	HSK A100 SF18-100-4.5°	18	100	18	57	39	33	42	M12	YES
T00HA10220-20105	HSK A100 SF20-105-4.5°	20	105	20	57	39	33	42	M16	YES
T00HA10220-20160	HSK A100 SF20-160-4.5°	20	160	20	57	39	33	42	M16	YES
T00HA10220-20200	HSK A100 SF20-200-4.5°	20	200	20	57	39	33	42	M16	YES
T00HA10220-25115	HSK A100 SF25-115-4.5°	25	115	25	57	47	44	53	M16	YES
T00HA10220-25160	HSK A100 SF25-160-4.5°	25	160	25	57	47	44	53	M16	YES
T00HA10220-25200	HSK A100 SF25-200-4.5°	25	200	25	57	47	44	53	M16	YES
T00HA10220-32120	HSK A100 SF32-120-4.5°	32	120	32	57	47	44	53	M16	YES
T00HA10220-32160	HSK A100 SF32-160-4.5°	32	160	32	57	47	44	53	M16	YES

Note:

1.Cutter Shank Tolerance:

1/8" and 3mm and 4mm:H4

3/16" and 5mm:H5

Larger than 1/4" and 6mm: H6

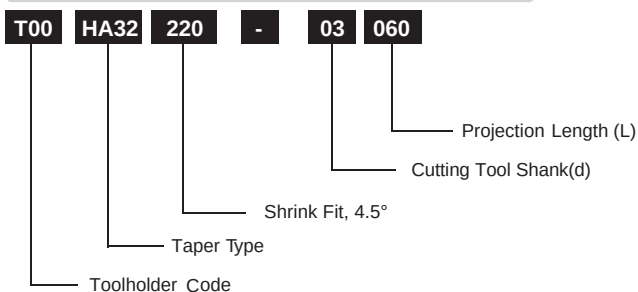
2.For carbider and HSS tooling.



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

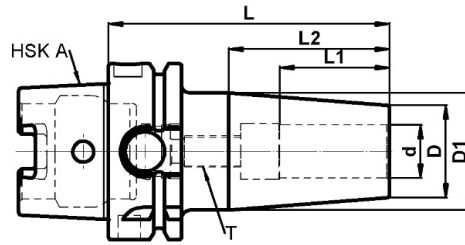


SHRINK-FIT 4.5° - 220

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA32220A03060	HSK A32 SF1/8"-2.36"-4.5°	1/8"	2.36"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HA32220A03080	HSK A32 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	2.008"	0.59"	0.394"	0.710"	S10	YES
T00HA32220A05060	HSK A32 SF3/16"-2.36"-4.5°	3/16"	2.36"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HA32220A05080	HSK A32 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	2.008"	0.79"	0.472"	0.788"	S10	YES
T00HA32220A06075	HSK A32 SF1/4"-2.95"-4.5°	1/4"	2.95"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA32220A06102	HSK A32 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA32220A08075	HSK A32 SF5/16"-2.95"-4.5°	5/16"	2.95"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA32220A09090	HSK A32 SF3/8"-3.54"-4.5°	3/8"	3.54"	3/8"	2.008"	1.42"	0.945"	1.261"	M08	YES
T00HA32220A12090	HSK A32 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.42"	0.945"	1.261"	M10	YES

HSK A40 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA40220A03060	HSK A40 SF1/8"-2.36"-4.5°	1/8"	2.36"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HA40220A03102	HSK A40 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.008"	0.59"	0.394"	0.710"	S10	YES
T00HA40220A05060	HSK A40 SF3/16"-2.36"-4.5°	3/16"	2.36"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HA40220A05102	HSK A40 SF3/16"-3.00"-4.5°	3/16"	4.00"	3/16"	2.008"	0.79"	0.472"	0.788"	S10	YES
T00HA40220A06080	HSK A40 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.062"	0.87"	0.827"	1.496"	M05	YES
T00HA40220A06102	HSK A40 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.062"	0.87"	0.827"	1.496"	M05	YES
T00HA40220A08080	HSK A40 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.062"	0.87"	0.827"	1.496"	M06	YES
T00HA40220A08102	HSK A40 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.062"	0.87"	0.827"	1.496"	M06	YES
T00HA40220A09080	HSK A40 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA40220A09102	HSK A40 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA40220A12090	HSK A40 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA40220A16090	HSK A40 SF5/8"-3.54"-4.5°	5/8"	3.54"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA40220A19095	HSK A40 SF3/4"-3.74"-4.5°	3/4"	3.74"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

HSK A50 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA50220A03080	HSK A50 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	1.969"	0.59"	0.394"	0.704"	S10	YES
T00HA50220A03102	HSK A50 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.520"	0.59"	0.394"	0.790"	S10	YES
T00HA50220A05080	HSK A50 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	1.969"	0.79"	0.472"	0.820"	S10	YES
T00HA50220A05102	HSK A50 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.520"	0.79"	0.472"	0.869"	S10	YES
T00HA50220A06080	HSK A50 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA50220A06102	HSK A50 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA50220A06102	HSK A50 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA50220A08080	HSK A50 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA50220A08102	HSK A50 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA50220A08160	HSK A50 SF5/16"-6.30"-4.5°	5/16"	6.30"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA50220A09085	HSK A50 SF3/8"-3.35"-4.5°	3/8"	3.35"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA50220A09102	HSK A50 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA50220A09160	HSK A50 SF3/8"-6.30"-4.5°	3/8"	6.30"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA50220A12090	HSK A50 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA50220A16095	HSK A50 SF5/8"-3.74"-4.5°	5/8"	3.74"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA50220A19102	HSK A50 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

HSK A63 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63220A03080	HSK A63 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	1.969"	0.59"	0.394"	0.704"	S10	YES
T00HA63220A03102	HSK A63 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.520"	0.59"	0.394"	0.790"	S10	YES
T00HA63220A03160	HSK A63 SF1/8"-6.30"-4.5°	1/8"	6.30"	1/8"	2.520"	0.59"	0.394"	0.790"	S10	YES
T00HA63220A05080	HSK A63 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	1.969"	0.79"	0.472"	0.820"	S10	YES
T00HA63220A05102	HSK A63 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.520"	0.79"	0.472"	0.869"	S10	YES
T00HA63220A05160	HSK A63 SF3/16"-6.30"-4.5°	3/16"	6.30"	3/16"	2.520"	0.79"	0.472"	0.869"	S10	YES
T00HA63220A06080	HSK A63 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA63220A06102	HSK A63 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA63220A06120	HSK A63 SF1/4"-4.72"-4.5°	1/4"	4.72"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA63220A06160	HSK A63 SF1/4"-6.30"-4.5°	1/4"	6.30"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA63220A08080	HSK A63 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA63220A08102	HSK A63 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA63220A08120	HSK A63 SF5/16"-4.72"-4.5°	5/16"	4.72"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA63220A08160	HSK A63 SF5/16"-6.30"-4.5°	5/16"	6.30"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA63220A09085	HSK A63 SF3/8"-3.35"-4.5°	3/8"	3.35"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA63220A09102	HSK A63 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES

SHRINK-FIT 4.5° - 220

4.5°

HSK A63 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63220A09120	HSK A63 SF3/8"-4.72"-4.5°	3/8"	4.72"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA63220A09160	HSK A63 SF3/8"-6.30"-4.5°	3/8"	6.30"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA63220A12090	HSK A63 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA63220A12102	HSK A63 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA63220A12120	HSK A63 SF1/2"-4.72"-4.5°	1/2"	4.72"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA63220A12160	HSK A63 SF1/2"-6.30"-4.5°	1/2"	6.30"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA63220A16095	HSK A63 SF5/8"-3.74"-4.5°	5/8"	3.74"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA63220A16120	HSK A63 SF5/8"-4.72"-4.5°	5/8"	4.72"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA63220A16160	HSK A63 SF5/8"-6.30"-4.5°	5/8"	6.30"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA63220A19102	HSK A63 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA63220A19120	HSK A63 SF3/4"-4.72"-4.5°	3/4"	4.72"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA63220A19160	HSK A63 SF3/4"-6.30"-4.5°	3/4"	6.30"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA63220A25115	HSK A63 SF1"-4.53"-4.5°	1"	4.53"	1"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA63220A25160	HSK A63 SF1"-6.30"-4.5°	1"	6.30"	1"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA63220A32120	HSK A63 SF1 1/4"-4.72"-4.5°	1 1/4"	4.72"	1 1/4"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA63220A32160	HSK A63 SF1 1/4"-6.30"-4.5°	1 1/4"	6.30"	1 1/4"	2.244"	1.85"	1.732"	2.086"	M16	YES

HSK A80 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA80220A06085	HSK A80 SF1/4"-3.35"-4.5°	1/4"	3.35"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA80220A08085	HSK A80 SF5/16"-3.35"-4.5°	5/16"	3.35"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA80220A09090	HSK A80 SF3/8"-3.54"-4.5°	3/8"	3.54"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA80220A12095	HSK A80 SF1/2"-3.74"-4.5°	1/2"	3.74"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA80220A16102	HSK A80 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA80220A19105	HSK A80 SF3/4"-4.13"-4.5°	3/4"	4.13"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA80220A22105	HSK A80 SF7/8"-4.13"-4.5°	7/8"	4.13"	7/8"	2.244"	1.61"	1.299"	1.652"	M16	YES
T00HA80220A25115	HSK A80 SF1"-4.53"-4.5°	1"	4.53"	1"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA80220A32120	HSK A80 SF1 1/4"-4.72"-4.5°	1 1/4"	4.72"	1 1/4"	2.244"	1.85"	1.732"	2.086"	M16	YES

HSK A100 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10220A03102	HSK A100 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.52"	0.59"	0.394"	0.790"	S10	YES
T00HA10220A03160	HSK A100 SF1/8"-6.30"-4.5°	1/8"	6.30"	1/8"	2.52"	0.59"	0.394"	0.790"	S10	YES
T00HA10220A03203	HSK A100 SF1/8"-8.00"-4.5°	1/8"	8.00"	1/8"	2.52"	0.59"	0.394"	0.790"	S10	YES
T00HA10220A05102	HSK A100 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.52"	0.79"	0.472"	0.869"	S10	YES
T00HA10220A05160	HSK A100 SF3/16"-6.30"-4.5°	3/16"	6.30"	3/16"	2.52"	0.79"	0.472"	0.869"	S10	YES
T00HA10220A05203	HSK A100 SF3/16"-8.00"-4.5°	3/16"	8.00"	3/16"	2.52"	0.79"	0.472"	0.869"	S10	YES
T00HA10220A06085	HSK A100 SF1/4"-3.35"-4.5°	1/4"	3.35"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA10220A06102	HSK A100 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA10220A06160	HSK A100 SF1/4"-6.30"-4.5°	1/4"	6.30"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA10220A06203	HSK A100 SF1/4"-8.00"-4.5°	1/4"	8.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HA10220A08085	HSK A100 SF5/16"-3.35"-4.5°	5/16"	3.35"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA10220A08102	HSK A100 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA10220A08160	HSK A100 SF5/16"-6.30"-4.5°	5/16"	6.30"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA10220A08203	HSK A100 SF5/16"-8.00"-4.5°	5/16"	8.00"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HA10220A09090	HSK A100 SF3/8"-3.54"-4.5°	3/8"	3.54"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA10220A09160	HSK A100 SF3/8"-6.30"-4.5°	3/8"	6.30"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA10220A09203	HSK A100 SF3/8"-8.00"-4.5°	3/8"	8.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HA10220A12095	HSK A100 SF1/2"-3.74"-4.5°	1/2"	3.74"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA10220A12160	HSK A100 SF1/2"-6.30"-4.5°	1/2"	6.30"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA10220A12203	HSK A100 SF1/2"-8.00"-4.5°	1/2"	8.00"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HA10220A16102	HSK A100 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA10220A16160	HSK A100 SF5/8"-6.30"-4.5°	5/8"	6.30"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA10220A16203	HSK A100 SF5/8"-8.00"-4.5°	5/8"	8.00"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HA10220A19105	HSK A100 SF3/4"-4.13"-4.5°	3/4"	4.13"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA10220A19160	HSK A100 SF3/4"-6.30"-4.5°	3/4"	6.30"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA10220A19203	HSK A100 SF3/4"-8.00"-4.5°	3/4"	8.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA10220A22105	HSK A100 SF7/8"-4.13"-4.5°	7/8"	4.13"	7/8"	2.244"	1.61"	1.299"	1.652"	M12	YES
T00HA10220A25115	HSK A100 SF1"-4.53"-4.5°	1"	4.53"	1"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA10220A25160	HSK A100 SF1"-6.30"-4.5°	1"	6.30"	1"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA10220A25203	HSK A100 SF1"-8.00"-4.5°	1"	8.00"	1"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA10220A32120	HSK A100 SF1 1/4"-4.72"-4.5°	1 1/4"	4.72"	1 1/4"	2.244"	1.85"	1.732"	2.086"	M16	YES
T00HA10220A32160	HSK A100 SF1 1/4"-6.30"-4.5°	1 1/4"	6.30"	1 1/4"	2.244"	1.85"	1.732"	2.086"	M16	YES

Note:

1.Cutter Shank Tolerance:

1/8" and 3mm and 4mm:H4

3/16" and 5mm:H5

Larger than 1/4" and 6mm: H6

2.For carbide and HSS tooling.





STANDARD TOOL HOLDER

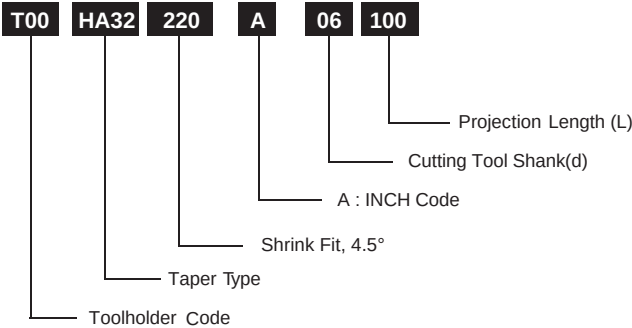
HSK A INCH
ISO 12164-1/ DIN 69893
32-40-50-63-80-100-125

SHRINK-FIT 4.5° - 220

4.5°

COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

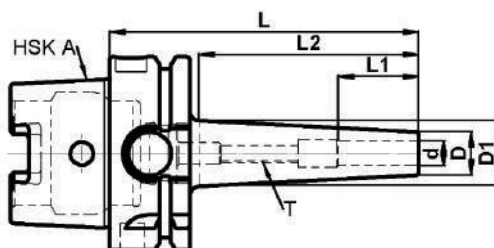


SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA32240-03060	HSK A32 SF03-060-3°	3	60	3	35	15	9	12.7	X	NO
T00HA32240-03100	HSK A32 SF03-100-3°	3	100	3	75	15	9	17.0	S10	NO
T00HA32240-04060	HSK A32 SF04-060-3°	4	60	4	35	16	10	13.7	X	NO
T00HA32240-04100	HSK A32 SF04-100-3°	4	100	4	75	16	10	18.0	S10	NO
T00HA32240-05060	HSK A32 SF05-060-3°	5	60	5	35	20	11	14.7	X	NO
T00HA32240-05100	HSK A32 SF05-100-3°	5	100	5	75	20	11	19.0	S10	NO
T00HA32240-06080	HSK A32 SF06-080-3°	6	80	6	55	22	12	18.0	M05	NO
T00HA32240-06100	HSK A32 SF06-100-3°	6	100	6	75	22	12	20.0	M05	NO
T00HA32240-08080	HSK A32 SF08-080-3°	8	80	8	55	26	14	20.0	M06	NO
T00HA32240-08100	HSK A32 SF08-100-3°	8	100	8	75	26	14	22.0	M06	NO
T00HA32240-10080	HSK A32 SF10-080-3°	10	80	10	55	31	16	22.0	M08	NO
T00HA32240-10100	HSK A32 SF10-100-3°	10	100	10	75	31	16	24.0	M08	NO
T00HA32240-12080	HSK A32 SF12-080-3°	12	80	12	55	36	18	24.0	M10	NO
T00HA32240-12100	HSK A32 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO

HSK A40 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA40240-03060	HSK A40 SF03-060-3°	3	60	3	35	15	9	12.7	X	NO
T00HA40240-03100	HSK A40 SF03-100-3°	3	100	3	75	15	9	17.0	S10	NO
T00HA40240-04060	HSK A40 SF04-060-3°	4	60	4	35	16	10	13.7	X	NO
T00HA40240-04100	HSK A40 SF04-100-3°	4	100	4	75	16	10	18.0	S10	NO
T00HA40240-05060	HSK A40 SF05-060-3°	5	60	5	35	20	11	14.7	X	NO
T00HA40240-05100	HSK A40 SF05-100-3°	5	100	5	75	20	11	19.0	S10	NO
T00HA40240-06080	HSK A40 SF06-080-3°	6	80	6	55	22	12	18.0	M05	NO
T00HA40240-06100	HSK A40 SF06-100-3°	6	100	6	75	22	12	20.0	M05	NO
T00HA40240-06160	HSK A40 SF06-160-3°	6	160	6	135	22	12	26.0	M05	NO
T00HA40240-08080	HSK A40 SF08-080-3°	8	80	8	55	26	14	20.0	M06	NO
T00HA40240-08100	HSK A40 SF08-100-3°	8	100	8	75	26	14	22.0	M06	NO
T00HA40240-08160	HSK A40 SF08-160-3°	8	160	8	135	26	14	28.0	M06	NO
T00HA40240-10080	HSK A40 SF10-080-3°	10	80	10	55	31	16	22.0	M08	NO
T00HA40240-10100	HSK A40 SF10-100-3°	10	100	10	75	31	16	24.0	M08	NO
T00HA40240-10160	HSK A40 SF10-160-3°	10	160	10	135	31	16	35.0	M08	NO
T00HA40240-12090	HSK A40 SF12-090-3°	12	90	12	65	36	18	25.0	M10	NO
T00HA40240-12160	HSK A40 SF12-160-3°	12	160	12	135	36	18	32.0	M10	NO
T00HA40240-16090	HSK A40 SF16-090-3°	16	90	16	65	41	22	29.0	M16	NO

HSK A50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA50240-03080	HSK A50 SF03-080-3°	3	80	3	50	15	9	14.2	x	NO
T00HA50240-03100	HSK A50 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HA50240-03160	HSK A50 SF03-160-3°	3	160	3	130	15	9	22.6	S10	NO
T00HA50240-04080	HSK A50 SF04-080-3°	4	80	4	50	16	10	15.2	x	NO
T00HA50240-04100	HSK A50 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HA50240-04160	HSK A50 SF04-160-3°	4	160	4	130	16	10	23.6	S10	NO
T00HA50240-05080	HSK A50 SF05-080-3°	5	80	5	50	20	11	16.2	S10	NO
T00HA50240-05100	HSK A50 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HA50240-05160	HSK A50 SF05-160-3°	5	160	5	130	20	11	24.6	S10	NO
T00HA50240-06080	HSK A50 SF06-080-3°	6	80	6	50	22	12	17.2	M05	NO
T00HA50240-06100	HSK A50 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HA50240-06160	HSK A50 SF06-160-3°	6	160	6	130	22	12	25.6	M05	NO
T00HA50240-08080	HSK A50 SF08-080-3°	8	80	8	50	26	14	19.2	M06	NO
T00HA50240-08100	HSK A50 SF08-100-3°	8	100	8	70	26	14	21.3	M06	NO
T00HA50240-08160	HSK A50 SF08-160-3°	8	160	8	130	26	14	27.6	M06	NO
T00HA50240-10085	HSK A50 SF10-085-3°	10	85	10	55	31	16	21.8	M08	NO
T00HA50240-10100	HSK A50 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HA50240-10160	HSK A50 SF10-160-3°	10	160	10	130	31	16	29.6	M08	NO
T00HA50240-12090	HSK A50 SF12-090-3°	12	90	12	60	36	18	24.3	M10	NO
T00HA50240-12160	HSK A50 SF12-160-3°	12	160	12	130	36	18	31.6	M10	NO
T00HA50240-16095	HSK A50 SF16-095-3°	16	95	16	65	39	22	28.8	M12	NO
T00HA50240-16160	HSK A50 SF16-160-3°	16	160	16	130	39	22	35.6	M12	NO
T00HA50240-20100	HSK A50 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO

SHRINK-FIT 3° - 240

3°

HSK A63 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63240-03080	HSK A63 SF03-080-3°	3	80	3	50	15	9	14.2	S10	NO
T00HA63240-03100	HSK A63 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HA63240-03160	HSK A63 SF03-160-3°	3	160	3	130	15	9	22.6	S10	NO
T00HA63240-04080	HSK A63 SF04-080-3°	4	80	4	50	16	10	15.2	S10	NO
T00HA63240-04100	HSK A63 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HA63240-04160	HSK A63 SF04-160-3°	4	160	4	130	16	10	23.6	S10	NO
T00HA63240-05080	HSK A63 SF05-080-3°	5	80	5	50	20	11	16.2	S10	NO
T00HA63240-05100	HSK A63 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HA63240-05160	HSK A63 SF05-160-3°	5	160	5	130	20	11	24.6	S10	NO
T00HA63240-06080	HSK A63 SF06-080-3°	6	80	6	50	22	12	17.2	M05	NO
T00HA63240-06100	HSK A63 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HA63240-06160	HSK A63 SF06-160-3°	6	160	6	130	22	12	25.6	M05	NO
T00HA63240-08080	HSK A63 SF08-080-3°	8	80	8	50	26	14	19.2	M06	NO
T00HA63240-08100	HSK A63 SF08-100-3°	8	100	8	70	26	14	21.3	M06	NO
T00HA63240-08160	HSK A63 SF08-160-3°	8	160	8	130	26	14	27.6	M06	NO
T00HA63240-10085	HSK A63 SF10-085-3°	10	85	10	55	31	16	21.8	M08	NO
T00HA63240-10100	HSK A63 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HA63240-10160	HSK A63 SF10-160-3°	10	160	10	130	31	16	29.6	M08	NO
T00HA63240-12090	HSK A63 SF12-090-3°	12	90	12	60	36	18	24.3	M10	NO
T00HA63240-12160	HSK A63 SF12-160-3°	12	160	12	130	36	18	31.6	M10	NO
T00HA63240-16095	HSK A63 SF16-095-3°	16	95	16	65	39	22	28.8	M12	NO
T00HA63240-16160	HSK A63 SF16-160-3°	16	160	16	130	36	22	35.6	M12	NO
T00HA63240-20100	HSK A63 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO
T00HA63240-20160	HSK A63 SF20-160-3°	20	160	20	130	36	27	40.6	M16	NO
T00HA63240-25115	HSK A63 SF25-115-3°	25	115	25	85	47	34	43.0	M16	NO
T00HA63240-25160	HSK A63 SF25-160-3°	25	160	25	130	47	34	47.6	M16	NO

HSK A100 SHRINK FIT HOLDER 3° METRIC

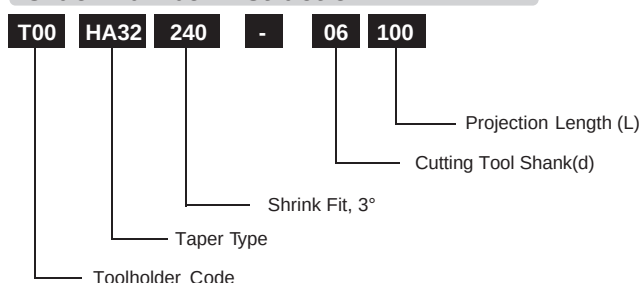
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10240-03100	HSK A100 SF03-100-3°	3	100	3	65	15	9	15.8	S10	NO
T00HA10240-03160	HSK A100 SF03-160-3°	3	160	3	125	15	9	22.1	S10	NO
T00HA10240-04100	HSK A100 SF04-100-3°	4	100	4	65	16	10	16.8	S10	NO
T00HA10240-04160	HSK A100 SF04-160-3°	4	160	4	125	16	10	23.1	S10	NO
T00HA10240-05100	HSK A100 SF05-100-3°	5	100	5	65	20	11	17.8	S10	NO
T00HA10240-05160	HSK A100 SF05-160-3°	5	160	5	125	20	11	24.1	S10	NO
T00HA10240-06085	HSK A100 SF06-085-3°	6	85	6	50	22	12	17.2	M05	NO
T00HA10240-06100	HSK A100 SF06-100-3°	6	100	6	65	22	12	18.8	M05	NO
T00HA10240-06160	HSK A100 SF06-160-3°	6	160	6	125	22	12	25.1	M05	NO
T00HA10240-08085	HSK A100 SF08-085-3°	8	85	8	50	26	14	19.2	M06	NO
T00HA10240-08100	HSK A100 SF08-100-3°	8	100	8	65	26	14	20.8	M06	NO
T00HA10240-08160	HSK A100 SF08-160-3°	8	160	8	125	26	14	27.1	M06	NO
T00HA10240-10100	HSK A100 SF10-100-3°	10	100	10	65	31	16	22.8	M08	NO
T00HA10240-10160	HSK A100 SF10-160-3°	10	160	10	125	31	16	29.1	M08	NO
T00HA10240-12100	HSK A100 SF12-100-3°	12	100	12	65	36	18	24.8	M10	NO
T00HA10240-12160	HSK A100 SF12-160-3°	12	160	12	125	36	18	31.1	M10	NO
T00HA10240-16100	HSK A100 SF16-100-3°	16	100	16	65	39	22	28.8	M12	NO
T00HA10240-16160	HSK A100 SF16-160-3°	16	160	16	125	36	22	35.1	M12	NO
T00HA10240-20105	HSK A100 SF20-105-3°	20	105	20	70	41	27	34.3	M16	NO
T00HA10240-20160	HSK A100 SF20-160-3°	20	160	20	125	36	27	40.1	M16	NO
T00HA10240-25115	HSK A100 SF25-115-3°	25	115	25	80	47	34	42.4	M16	NO
T00HA10240-25160	HSK A100 SF25-160-3°	25	160	25	125	47	34	47.1	M16	NO

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm:H4
3/16" and 5mm:H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.



Order Number Instruction



COOLANT TUBE

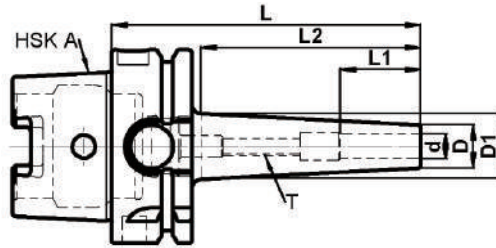
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA32240A03060	HSK A32 SF1/8"-2.36"-3°	1/8"	2.36"	1/8"	1.378"	0.59"	0.354"	0.499"	X	NO
T00HA32240A03102	HSK A32 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HA32240A05060	HSK A32 SF3/16"-2.36"-3°	3/16"	2.36"	3/16"	1.378"	0.79"	0.433"	0.577"	X	NO
T00HA32240A05102	HSK A32 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.953"	0.79"	0.433"	0.743"	S10	NO
T00HA32240A06080	HSK A32 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.165"	0.87"	0.472"	0.699"	M05	NO
T00HA32240A06102	HSK A32 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.953"	0.87"	0.472"	0.782"	M05	NO
T00HA32240A08080	HSK A32 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.165"	1.02"	0.551"	0.778"	M06	NO
T00HA32240A08102	HSK A32 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.953"	1.02"	0.551"	0.861"	M06	NO
T00HA32240A09080	HSK A32 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.165"	1.22"	0.630"	0.857"	M08	NO
T00HA32240A09102	HSK A32 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.953"	1.22"	0.630"	0.939"	M08	NO
T00HA32240A12080	HSK A32 SF1/2"-3.15"-3°	1/2"	3.15"	1/2"	2.165"	1.42"	0.709"	0.936"	M10	NO
T00HA32240A12102	HSK A32 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.953"	1.42"	0.709"	1.018"	M10	NO

HSK A40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA40240A03060	HSK A40 SF1/8"-2.36"-3°	1/8"	2.36"	1/8"	1.378"	0.59"	0.354"	0.499"	X	NO
T00HA40240A03102	HSK A40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HA40240A05060	HSK A40 SF3/16"-2.36"-3°	3/16"	2.36"	3/16"	1.378"	0.79"	0.433"	0.577"	X	NO
T00HA40240A05102	HSK A40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.953"	0.79"	0.433"	0.743"	S10	NO
T00HA40240A06080	HSK A40 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.165"	0.87"	0.472"	0.699"	M05	NO
T00HA40240A06102	HSK A40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.953"	0.87"	0.472"	0.782"	M05	NO
T00HA40240A06160	HSK A40 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.315"	0.87"	0.472"	1.029"	M05	NO
T00HA40240A08080	HSK A40 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.165"	1.02"	0.551"	0.778"	M06	NO
T00HA40240A08102	HSK A40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.953"	1.02"	0.551"	0.861"	M06	NO
T00HA40240A08160	HSK A40 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.315"	1.02"	0.551"	1.108"	M06	NO
T00HA40240A09080	HSK A40 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.165"	1.22"	0.630"	0.857"	M08	NO
T00HA40240A09102	HSK A40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.953"	1.22"	0.630"	0.939"	M08	NO
T00HA40240A09160	HSK A40 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.315"	1.22"	0.630"	1.187"	M08	NO
T00HA40240A12102	HSK A40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.953"	1.42"	0.709"	1.018"	M10	NO
T00HA40240A12160	HSK A40 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.315"	1.42"	0.709"	1.266"	M10	NO
T00HA40240A16102	HSK A40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.953"	1.54"	0.866"	1.176"	M12	NO

HSK A50 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA50240A03080	HSK A50 SF1/8"-3.15"-3°	1/8"	3.15"	1/8"	1.969"	0.59"	0.354"	0.561"	S10	NO
T00HA50240A03102	HSK A50 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HA50240A05080	HSK A50 SF3/16"-3.15"-3°	3/16"	3.15"	3/16"	1.969"	0.79"	0.433"	0.639"	S10	NO
T00HA50240A05102	HSK A50 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HA50240A06080	HSK A50 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	1.969"	0.87"	0.472"	0.679"	M05	NO
T00HA50240A06102	HSK A50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HA50240A06160	HSK A50 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.118"	0.87"	0.472"	1.009"	M05	NO
T00HA50240A08080	HSK A50 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	1.969"	1.02"	0.551"	0.757"	M06	NO
T00HA50240A08102	HSK A50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HA50240A08160	HSK A50 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.118"	1.02"	0.551"	1.088"	M06	NO
T00HA50240A09085	HSK A50 SF3/8"-3.35"-3°	3/8"	3.35"	3/8"	2.165"	1.22"	0.630"	0.857"	M08	NO
T00HA50240A09102	HSK A50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HA50240A09160	HSK A50 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.118"	1.22"	0.630"	1.166"	M08	NO
T00HA50240A12102	HSK A50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HA50240A12160	HSK A50 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.118"	1.42"	0.709"	1.245"	M10	NO
T00HA50240A16102	HSK A50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HA50240A16160	HSK A50 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	5.118"	1.54"	0.866"	1.403"	M12	NO
T00HA50240A19102	HSK A50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

HSK A63 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63240A03080	HSK A63 SF1/8"-3.15"-3°	1/8"	3.15"	1/8"	1.969"	0.59"	0.354"	0.561"	S10	NO
T00HA63240A03102	HSK A63 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HA63240A03160	HSK A63 SF1/8"-6.30"-3°	1/8"	6.30"	1/8"	5.118"	0.59"	0.354"	0.891"	S10	NO
T00HA63240A05080	HSK A63 SF3/16"-3.15"-3°	3/16"	3.15"	3/16"	1.969"	0.79"	0.433"	0.639"	S10	NO
T00HA63240A05102	HSK A63 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HA63240A05160	HSK A63 SF3/16"-6.30"-3°	3/16"	6.30"	3/16"	5.118"	0.79"	0.433"	0.969"	S10	NO
T00HA63240A06080	HSK A63 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	1.969"	0.87"	0.472"	0.679"	M05	NO

SHRINK-FIT 3° - 240

3°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63240A06102	HSK A63 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HA63240A06160	HSK A63 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.118"	0.87"	0.472"	1.009"	M05	NO
T00HA63240A08080	HSK A63 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	1.969"	1.02"	0.551"	0.757"	M06	NO
T00HA63240A08102	HSK A63 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HA63240A08160	HSK A63 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.118"	1.02"	0.551"	1.088"	M06	NO
T00HA63240A09085	HSK A63 SF3/8"-3.35"-3°	3/8"	3.35"	3/8"	2.165"	1.22"	0.630"	0.857"	M08	NO
T00HA63240A09102	HSK A63 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HA63240A09160	HSK A63 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.118"	1.22"	0.630"	1.166"	M08	NO
T00HA63240A12090	HSK A63 SF1/2"-3.54"-3°	1/2"	3.54"	1/2"	2.362"	1.42"	0.709"	0.956"	M10	NO
T00HA63240A12102	HSK A63 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HA63240A12160	HSK A63 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.118"	1.42"	0.709"	1.245"	M10	NO
T00HA63240A16095	HSK A63 SF5/8"-3.74"-3°	5/8"	3.74"	5/8"	2.559"	1.54"	0.866"	1.134"	M12	NO
T00HA63240A16160	HSK A63 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	5.118"	1.54"	0.866"	1.403"	M12	NO
T00HA63240A19102	HSK A63 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO
T00HA63240A19160	HSK A63 SF3/4"-6.30"-3°	3/4"	6.30"	3/4"	5.118"	1.61"	1.063"	1.599"	M16	NO
T00HA63240A25115	HSK A63 SF1"-4.53"-3°	1"	4.53"	1"	3.346"	1.85"	1.339"	1.689"	M16	NO
T00HA63240A25160	HSK A63 SF1"-6.30"-3°	1"	6.30"	1"	5.120"	1.85"	1.340"	1.875"	M16	NO

HSK A100 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10240A03102	HSK A100 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.559"	0.59"	0.354"	0.623"	S10	NO
T00HA10240A03160	HSK A100 SF1/8"-6.30"-3°	1/8"	6.30"	1/8"	4.921"	0.59"	0.354"	0.870"	S10	NO
T00HA10240A05102	HSK A100 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.559"	0.79"	0.433"	0.701"	S10	NO
T00HA10240A05160	HSK A100 SF3/16"-6.30"-3°	3/16"	6.30"	3/16"	4.921"	0.79"	0.433"	0.921"	S10	NO
T00HA10240A06085	HSK A100 SF1/4"-3.35"-3°	1/4"	3.35"	1/4"	1.969"	0.87"	0.472"	0.679"	M05	NO
T00HA10240A06102	HSK A100 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.559"	0.87"	0.472"	0.741"	M05	NO
T00HA10240A06160	HSK A100 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	4.921"	0.87"	0.472"	0.988"	M05	NO
T00HA10240A08085	HSK A100 SF5/16"-3.15"-3°	5/16"	3.35"	5/16"	1.969"	1.02"	0.551"	0.757"	M06	NO
T00HA10240A08102	HSK A100 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.559"	1.02"	0.551"	0.819"	M06	NO
T00HA10240A08160	HSK A100 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	4.921"	1.02"	0.551"	1.067"	M06	NO
T00HA10240A09102	HSK A100 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.559"	1.22"	0.630"	0.898"	M08	NO
T00HA10240A09160	HSK A100 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	4.921"	1.22"	0.630"	1.146"	M08	NO
T00HA10240A12102	HSK A100 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.559"	1.42"	0.709"	0.977"	M10	NO
T00HA10240A12160	HSK A100 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	4.921"	1.42"	0.709"	1.224"	M10	NO
T00HA10240A16102	HSK A100 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.559"	1.54"	0.866"	1.134"	M12	NO
T00HA10240A16160	HSK A100 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	4.921"	1.54"	0.866"	1.382"	M12	NO
T00HA10240A19105	HSK A100 SF3/4"-4.13"-3°	3/4"	4.13"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO
T00HA10240A19160	HSK A100 SF3/4"-6.30"-3°	3/4"	6.30"	3/4"	4.921"	1.61"	1.063"	1.579"	M16	NO
T00HA10240A25115	HSK A100 SF1"-4.53"-3°	1"	4.53"	1"	3.150"	1.85"	1.340"	1.669"	M16	NO
T00HA10240A25160	HSK A100 SF1"-6.30"-3°	1"	6.30"	1"	4.921"	1.85"	1.340"	1.854"	M16	NO

Note:

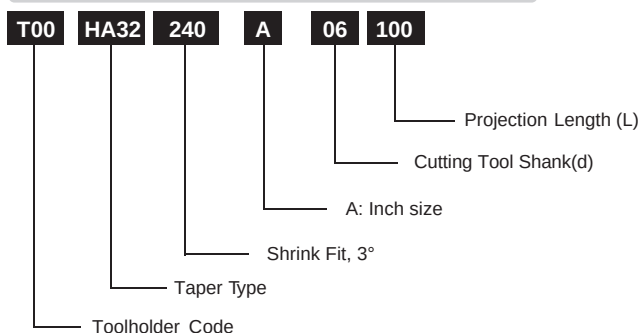
- Cutter Shank Tolerance:
1/8" and 3mm and 4mm:H4
3/16" and 5mm:H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

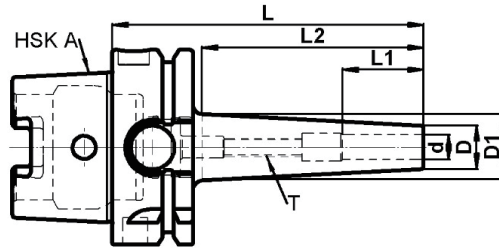


SHRINK-FIT 3° SLIM - 250

3° SLIM

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA32250-03060	HSK A32 SF03-060-3°Slim	3	60	3	35	15	6	9.7	S10	NO
T00HA32250-03100	HSK A32 SF03-100-3°Slim	3	100	3	75	15	6	13.9	S10	NO
T00HA32250-04060	HSK A32 SF04-060-3°Slim	4	60	4	35	15	7	10.7	S10	NO
T00HA32250-04100	HSK A32 SF04-100-3°Slim	4	100	4	75	15	7	14.9	S10	NO
T00HA32250-05060	HSK A32 SF05-060-3°Slim	5	60	5	35	20	8	11.7	S10	NO
T00HA32250-05100	HSK A32 SF05-100-3°Slim	5	100	5	75	20	8	15.9	S10	NO
T00HA32250-06100	HSK A32 SF06-100-3°Slim	6	100	6	75	22	9	16.9	M05	NO
T00HA32250-08100	HSK A32 SF08-100-3°Slim	8	100	8	75	22	11	18.9	M06	NO
T00HA32250-10100	HSK A32 SF10-100-3°Slim	10	100	10	75	31	13	20.9	M08	NO
T00HA32250-12100	HSK A32 SF12-100-3°Slim	12	100	12	75	36	15	22.9	M10	NO

HSK A40 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA40250-03100	HSK A40 SF03-100-3°Slim	3	100	3	75	15	6	13.9	S10	NO
T00HA40250-04100	HSK A40 SF04-100-3°Slim	4	100	4	75	15	7	14.9	S10	NO
T00HA40250-05100	HSK A40 SF05-100-3°Slim	5	100	5	75	20	8	15.9	S10	NO
T00HA40250-06100	HSK A40 SF06-100-3°Slim	6	100	6	75	22	9	16.9	M05	NO
T00HA40250-08100	HSK A40 SF08-100-3°Slim	8	100	8	75	22	11	18.9	M06	NO
T00HA40250-10100	HSK A40 SF10-100-3°Slim	10	100	10	75	31	13	20.9	M08	NO
T00HA40250-12100	HSK A40 SF12-100-3°Slim	12	100	12	75	36	15	22.9	M10	NO

HSK A50 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA50250-03100	HSK A50 SF03-100-3°Slim	3	100	3	70	15	6	13.3	S10	NO
T00HA50250-04100	HSK A50 SF04-100-3°Slim	4	100	4	70	15	7	14.3	S10	NO
T00HA50250-05100	HSK A50 SF05-100-3°Slim	5	100	5	70	20	8	15.3	S10	NO
T00HA50250-06100	HSK A50 SF06-100-3°Slim	6	100	6	70	22	9	16.3	M05	NO
T00HA50250-08100	HSK A50 SF08-100-3°Slim	8	100	8	70	22	11	18.3	M06	NO
T00HA50250-10100	HSK A50 SF10-100-3°Slim	10	100	10	70	31	13	20.3	M08	NO
T00HA50250-12100	HSK A50 SF12-100-3°Slim	12	100	12	70	36	15	22.3	M10	NO

HSK A63 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63250-03100	HSK A63 SF03-100-3°Slim	3	100	3	70	15	6	13.3	S10	NO
T00HA63250-03160	HSK A63 SF03-160-3°Slim	3	160	3	130	15	6	19.6	S10	NO
T00HA63250-04100	HSK A63 SF04-100-3°Slim	4	100	4	70	15	7	14.3	S10	NO
T00HA63250-04160	HSK A63 SF04-160-3°Slim	4	160	4	130	15	7	20.6	S10	NO
T00HA63250-05100	HSK A63 SF05-100-3°Slim	5	100	5	50	20	8	15.3	S10	NO
T00HA63250-05160	HSK A63 SF05-160-3°Slim	5	160	5	130	20	8	21.6	S10	NO
T00HA63250-06100	HSK A63 SF06-100-3°Slim	6	100	6	70	22	9	16.3	M05	NO
T00HA63250-06160	HSK A63 SF06-160-3°Slim	6	160	6	130	22	9	22.6	M05	NO
T00HA63250-06200	HSK A63 SF06-200-3°Slim	6	200	6	170	22	9	25.8	M05	NO
T00HA63250-08100	HSK A63 SF08-100-3°Slim	8	100	8	70	26	11	18.3	M06	NO
T00HA63250-08160	HSK A63 SF08-160-3°Slim	8	160	8	130	26	11	24.6	M06	NO
T00HA63250-08200	HSK A63 SF08-200-3°Slim	8	200	8	170	26	11	27.8	M06	NO
T00HA63250-10100	HSK A63 SF10-100-3°Slim	10	100	10	70	31	13	20.3	M08	NO
T00HA63250-10160	HSK A63 SF10-160-3°Slim	10	160	10	130	31	13	26.6	M08	NO
T00HA63250-10200	HSK A63 SF10-200-3°Slim	10	200	10	170	31	13	30.8	M08	NO
T00HA63250-12100	HSK A63 SF12-100-3°Slim	12	100	12	70	36	15	22.3	M10	NO
T00HA63250-12160	HSK A63 SF12-160-3°Slim	12	160	12	130	36	15	28.6	M10	NO
T00HA63250-12200	HSK A63 SF12-200-3°Slim	12	200	12	170	36	15	32.8	M10	NO

HSK A100 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10250-03100	HSK A100 SF03-100-3°Slim	3	100	3	65	15	6	12.8	S10	NO
T00HA10250-03160	HSK A100 SF03-160-3°Slim	3	160	3	125	15	6	19.1	S10	NO
T00HA10250-04100	HSK A100 SF04-100-3°Slim	4	100	4	65	15	7	13.8	S10	NO
T00HA10250-04160	HSK A100 SF04-160-3°Slim	4	160	4	125	15	7	20.1	S10	NO
T00HA10250-05100	HSK A100 SF05-100-3°Slim	5	100	5	65	20	8	14.8	S10	NO
T00HA10250-05160	HSK A100 SF05-160-3°Slim	5	160	5	125	20	8	21.1	S10	NO
T00HA10250-06100	HSK A100 SF06-100-3°Slim	6	100	6	65	22	9	15.8	M05	NO

SHRINK-FIT 3° SLIM - 250

3° SLIM

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10250-06160	HSK A100 SF06-160-3°Slim	6	160	6	125	22	9	22.1	M05	NO
T00HA10250-08100	HSK A100 SF08-100-3°Slim	8	100	8	65	26	11	17.8	M06	NO
T00HA10250-08160	HSK A100 SF08-160-3°Slim	8	160	8	125	26	11	24.1	M06	NO
T00HA10250-10100	HSK A100 SF10-100-3°Slim	10	100	10	65	31	13	19.8	M08	NO
T00HA10250-10160	HSK A100 SF10-160-3°Slim	10	160	10	125	31	13	26.1	M08	NO
T00HA10250-12100	HSK A100 SF12-100-3°Slim	12	100	12	65	36	15	21.8	M10	NO
T00HA10250-12160	HSK A100 SF12-160-3°Slim	12	160	12	125	36	15	28.1	M10	NO

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm: H5

Larger than 1/4" and 6mm: H6

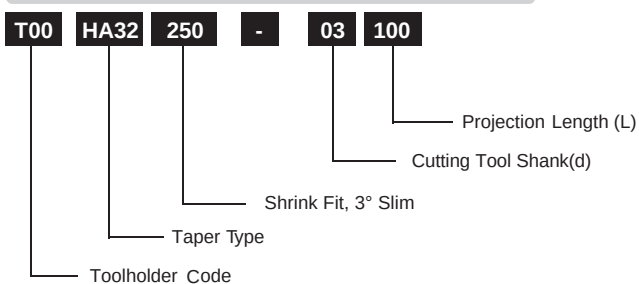
2. For carbide tooling.



COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

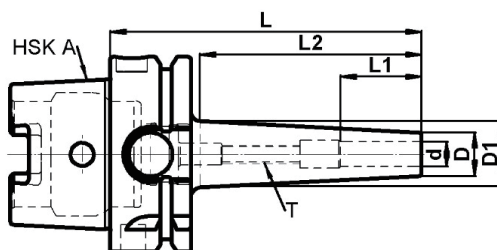


SHRINK-FIT 3° SLIM - 250

3° SLIM

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK A32 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA32250A03102	HSK A32 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.953"	0.59"	0.243"	0.553"	S10	NO
T00HA32250A05102	HSK A32 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.953"	0.79"	0.315"	0.624"	S10	NO
T00HA32250A06102	HSK A32 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.953"	0.87"	0.368"	0.678"	M05	NO
T00HA32250A08102	HSK A32 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.953"	1.02"	0.433"	0.743"	M06	NO
T00HA32250A09102	HSK A32 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.953"	1.22"	0.512"	0.821"	M08	NO
T00HA32250A12102	HSK A32 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.953"	1.42"	0.618"	0.928"	M10	NO

HSK A40 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA40250A03102	HSK A40 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.953"	0.59"	0.243"	0.553"	S10	NO
T00HA40250A05102	HSK A40 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.953"	0.79"	0.315"	0.624"	S10	NO
T00HA40250A06102	HSK A40 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.953"	0.87"	0.368"	0.678"	M05	NO
T00HA40250A08102	HSK A40 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.953"	1.02"	0.433"	0.743"	M06	NO
T00HA40250A09102	HSK A40 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.953"	1.22"	0.512"	0.821"	M08	NO
T00HA40250A12102	HSK A40 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.953"	1.42"	0.618"	0.928"	M10	NO

HSK A50 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA50250A03102	HSK A50 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.756"	0.59"	0.243"	0.532"	S10	NO
T00HA50250A05102	HSK A50 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.756"	0.79"	0.315"	0.604"	S10	NO
T00HA50250A06102	HSK A50 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.756"	0.87"	0.368"	0.657"	M05	NO
T00HA50250A08102	HSK A50 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.756"	1.02"	0.433"	0.722"	M06	NO
T00HA50250A09102	HSK A50 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.756"	1.22"	0.512"	0.801"	M08	NO
T00HA50250A12102	HSK A50 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.756"	1.42"	0.618"	0.907"	M10	NO

HSK A63 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA63250A03102	HSK A63 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.756"	0.59"	0.243"	0.532"	S10	NO
T00HA63250A03160	HSK A63 SF1/8"-6.30"-3° Silm	1/8"	6.30"	1/8"	5.118"	0.59"	0.243"	0.780"	S10	NO
T00HA63250A05102	HSK A63 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.756"	0.79"	0.315"	0.604"	S10	NO
T00HA63250A05160	HSK A63 SF3/16"-6.30"-3° Silm	3/16"	6.30"	3/16"	5.118"	0.79"	0.315"	0.851"	S10	NO
T00HA63250A06102	HSK A63 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.756"	0.87"	0.368"	0.657"	M05	NO
T00HA63250A06160	HSK A63 SF1/4"-6.30"-3° Silm	1/4"	6.30"	1/4"	5.118"	0.87"	0.368"	0.904"	M05	NO
T00HA63250A08102	HSK A63 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.756"	1.02"	0.433"	0.722"	M06	NO
T00HA63250A08160	HSK A63 SF5/16"-6.30"-3° Silm	5/16"	6.30"	5/16"	5.118"	1.02"	0.433"	0.969"	M06	NO
T00HA63250A09102	HSK A63 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.756"	1.22"	0.512"	0.801"	M08	NO
T00HA63250A09160	HSK A63 SF3/8"-6.30"-3° Silm	3/8"	6.30"	3/8"	5.118"	1.22"	0.512"	1.048"	M08	NO
T00HA63250A12102	HSK A63 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.756"	1.42"	0.618"	0.907"	M10	NO
T00HA63250A12160	HSK A63 SF1/2"-6.30"-3° Silm	1/2"	6.30"	1/2"	5.118"	1.42"	0.618"	1.154"	M10	NO

HSK A63 SHRINK FIT HOLDER 3° SLIM INCH

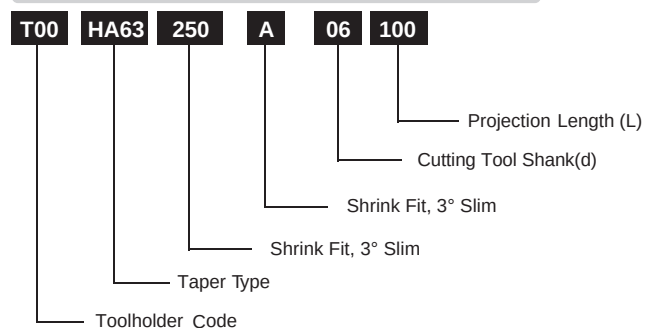
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HA10250A03102	HSK A100 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.559"	0.59"	0.243"	0.511"	S10	NO
T00HA10250A03160	HSK A100 SF1/8"-6.30"-3° Silm	1/8"	6.30"	1/8"	4.921"	0.59"	0.243"	0.759"	S10	NO
T00HA10250A05102	HSK A100 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.559"	0.79"	0.315"	0.583"	S10	NO
T00HA10250A05160	HSK A100 SF3/16"-6.30"-3° Silm	3/16"	6.30"	3/16"	4.921"	0.79"	0.315"	0.831"	S10	NO
T00HA10250A06102	HSK A100 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.559"	0.87"	0.368"	0.636"	M05	NO
T00HA10250A06160	HSK A100 SF1/4"-6.30"-3° Silm	1/4"	6.30"	1/4"	4.921"	0.87"	0.368"	0.884"	M05	NO
T00HA10250A08102	HSK A100 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.559"	1.02"	0.433"	0.701"	M06	NO
T00HA10250A08160	HSK A100 SF5/16"-6.30"-3° Silm	5/16"	6.30"	5/16"	4.921"	1.02"	0.433"	0.949"	M06	NO
T00HA10250A09102	HSK A100 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.559"	1.22"	0.512"	0.780"	M08	NO
T00HA10250A09160	HSK A100 SF3/8"-6.30"-3° Silm	3/8"	6.30"	3/8"	4.921"	1.22"	0.512"	1.028"	M08	NO
T00HA10250A12102	HSK A100 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.559"	1.42"	0.618"	0.886"	M10	NO
T00HA10250A12160	HSK A100 SF1/2"-6.30"-3° Silm	1/2"	6.30"	1/2"	4.921"	1.42"	0.618"	1.134"	M10	NO

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide tooling.



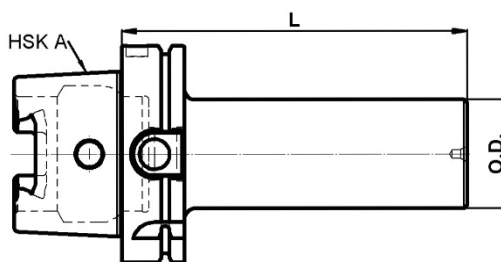
COOLANT TUBE		
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

BLANK ARBOR - 310

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58±2 on taper
- Hardness: HRC26~40 on Shank



BLANK ARBOR METRIC

Order Number	Part Name	D	L
T00HT32310-32120	HSK T32 Bk 32-120	32.0	120
T00HT32310-40152	HSK T32 Bk 40-152	40.0	152
T00HT40310-40152	HSK T40 Bk 40-152	40.0	152
T00HT40310-63152	HSK T40 Bk 63-152	63.5	152
T00HT40310-63250	HSK T40 Bk 63-250	63.5	250
T00HT50310-63152	HSK T50 Bk 63-152	63.5	152
T00HT50310-63200	HSK T50 Bk 63-200	63.5	200
T00HT50310-81200	HSK T50 Bk 81-200	81.0	200
T00HT63310-63152	HSK T63 Bk 63-152	63.5	152
T00HT63310-63200	HSK T63 Bk 63-200	63.5	200
T00HT63310-63250	HSK T63 Bk 63-250	63.5	250
T00HT63310-81250	HSK T63 Bk 81-250	81.0	250
T00HT80310-63152A	HSK T80 Bk 63-152	63.5	152
T00HT80310-63250A	HSK T80 Bk 63-250	63.5	250
T00HT80310-81250A	HSK T80 Bk 81-250	81.0	250
T00HT10310-63250A	HSK T100 Bk 63-250	63.5	250
T00HT10310-95250A	HSK T100 Bk 95-250	95.0	250
T00HT10310-95330A	HSK T100 Bk 95-330	95.0	330

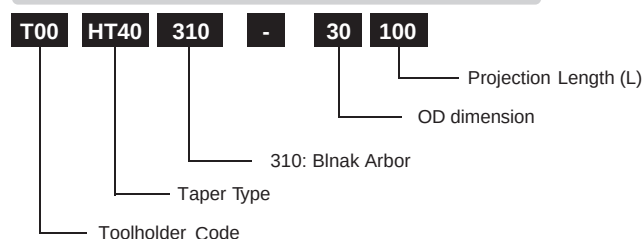
BLANK ARBOR INCH

Order Number	Part Name	D	L
T00HT32310A32120	HSK T32 Bk 1.26"-4.72"	1.26"	4.72"
T00HT32310A40152	HSK T32 Bk 1.57"-6.00"	1.57"	6.00"
T00HT40310A40152	HSK T40 Bk 1.57"-6.00"	1.57"	6.00"
T00HT40310A63152	HSK T40 Bk 2.50"-6.00"	2.50"	6.00"
T00HT40310A63250	HSK T40 Bk 2.50"-9.84"	2.50"	9.84"
T00HT50310A63152	HSK T50 Bk 2.50"-6.00"	2.50"	6.00"
T00HT50310A63200	HSK T50 Bk 2.50"-7.87"	2.50"	7.87"
T00HT50310A81200	HSK T50 Bk 3.19"-7.87"	3.19"	7.87"
T00HT63310A63152	HSK T63 Bk 2.50"-6.00"	2.50"	6.00"
T00HT63310A63200	HSK T63 Bk 2.50"-7.87"	2.50"	7.87"
T00HT63310A63250	HSK T63 Bk 2.50"-9.84"	2.50"	9.84"
T00HT63310A81250	HSK T63 Bk 3.19"-9.84"	3.19"	9.84"
T00HT80310A63152A	HSK T80 Bk 2.50"-6.00"	2.50"	6.00"
T00HT80310A63250A	HSK T80 Bk 2.50"-9.84"	2.50"	9.84"
T00HT80310A81250A	HSK T80 Bk 3.19"-9.84"	3.19"	9.84"
T00HT10310A63250A	HSK T100 Bk 2.50"-9.84"	2.50"	9.84"
T00HT10310A95250A	HSK T100 Bk 3.74"-9.84"	3.74"	9.84"
T00HT10310A95330A	HSK T100 Bk 3.74"-13.00"	3.74"	13.00"

COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSA32-01	HSK A32 coolant tube	Mono brock
T17HSA40-01	HSK A40 coolant tube	Mono brock
T17HSA50-01	HSK A50 coolant tube	Mono brock
T17HSA63-01	HSK A63 coolant tube	Mono brock
T17HSA80-01	HSK A80 coolant tube	Mono brock
T17HSA100-01	HSK A100 coolant tube	Mono brock
T17HSA125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction

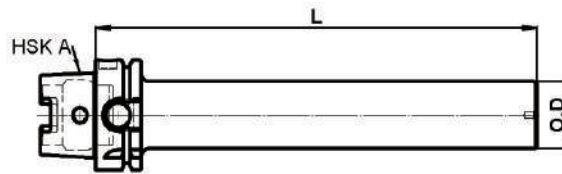


STANDARD TOOL HOLDER

TEST ARBOR - G000 HOLLOW / GS00 SOLID

Quality

- Taper Angle Tolerance: AT1
- Case Hardness: HRC 56±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm (0.00012")



BT TEST ARBOR METRIC

Order Number	Part Name	D	L
T00HA32GS00-20180	HSK A32 GS00 20-180	20	180
T00HA40G000-32180	HSK A40 G000 32-180	32	180
T00HA50G000-32240	HSK A50 G000 32-240	32	240
T00HA63G000-40320	HSK A63 G000 40-320	40	320
T00HA63GS00-40320	HSK A63 GS00 40-320	40	320
T00HA80G000-50320	HSK A80 G000 50-320	50	320
T00HA80GS00-50320	HSK A80 GS00 50-320	50	320
T00HA10G000-50320	HSK A100 G000 50-320	50	320
T00HA10GS00-50320	HSK A100 GS00 50-320	50	320

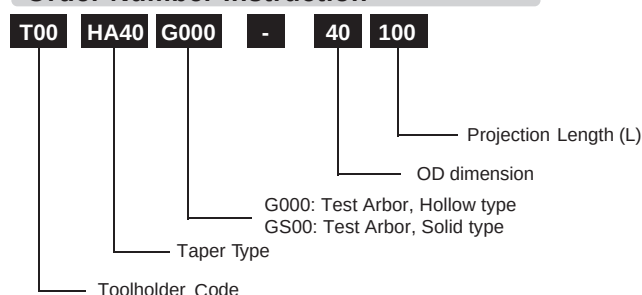
BT TEST ARBOR INCH

Order Number	Part Name	D	L
T00HA32GS00A20180	HSK A32 GS00 0.79"-7.09"	0.79"	7.09"
T00HA40G000A32180	HSK A40 G000 1.26"-7.09"	1.26"	7.09"
T00HA50G000A32240	HSK A50 G000 1.26"-9.45"	1.26"	9.45"
T00HA63G000A40320	HSK A63 G000 1.57"-12.6"	1.57"	12.6"
T00HA63GS00A40320	HSK A63 GS00 1.57"-12.6"	1.57"	12.6"
T00HA80G000A50320	HSK A80 G000 1.97"-12.6"	1.97"	12.6"
T00HA80GS00A50320	HSK A80 GS00 1.97"-12.6"	1.97"	12.6"
T00HA10G000A50320	HSK A100 G000 1.97"-12.6"	1.97"	12.6"
T00HA10GS00A50320	HSK A100 GS00 1.97"-12.6"	1.97"	12.6"

COOLANT TUBE

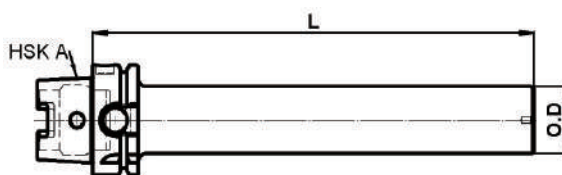
Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HSKA32-01	HSK A32 coolant tube	Mono brock
T17HSKA40-01	HSK A40 coolant tube	Mono brock
T17HSKA50-01	HSK A50 coolant tube	Mono brock
T17HSKA63-01	HSK A63 coolant tube	Mono brock
T17HSKA80-01	HSK A80 coolant tube	Mono brock
T17HSKA100-01	HSK A100 coolant tube	Mono brock
T17HSKA125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction



Quality

- Taper Angle Tolerance: AT1
- Case hardened hardness: HRC 56±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm (0.00012")



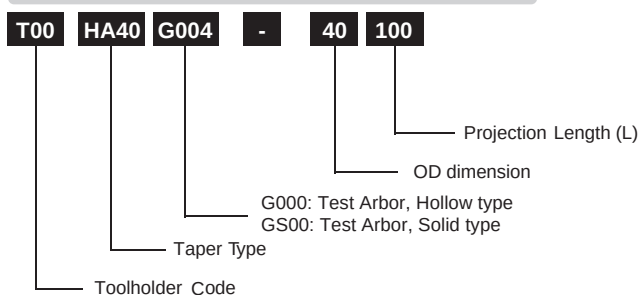
HSK TEST ARBOR 4 groove METRIC

Order Number	Part Name	D	L	D	L
T00HA25GS04-20200	HSK A25 GS04 20-200	20	200	0.787"	7.87"
T00HA40GS04-25200	HSK A40 GS04 25-200	25	200	0.984"	7.87"
T00HA50GS04-32346	HSK A50 GS04 32-346	32	346	1.260"	13.62"
T00HA63G004-40340	HSK A63 G004 40-320	40	340	1.575"	13.39"
T00HA63G004-40400	HSK A63 G004 40-400	40	400	1.575"	15.75"
T00HA63GB04-50200	HSK A63 GB04 50-200	50	200	1.969"	7.87"
T00HA10G004-50300	HSK A100 G004 50-300	50	300	1.969"	13.80"
T00HA10G004-50350	HSK A100 G004 50-350	50	350	1.969"	13.80"

COOLANT TUBE

Order Number	Part Name	Type
T17HSKE25-01	HSK E25 coolant tube	Mono brock
T17HСКА32-01	HSK A32 coolant tube	Mono brock
T17HСКА40-01	HSK A40 coolant tube	Mono brock
T17HСКА50-01	HSK A50 coolant tube	Mono brock
T17HСКА63-01	HSK A63 coolant tube	Mono brock
T17HСКА80-01	HSK A80 coolant tube	Mono brock
T17HСКА100-01	HSK A100 coolant tube	Mono brock
T17HСКА125-01	HSK A125 coolant tube	Mono brock

Order Number Instruction



STANDARD TOOL HOLDER



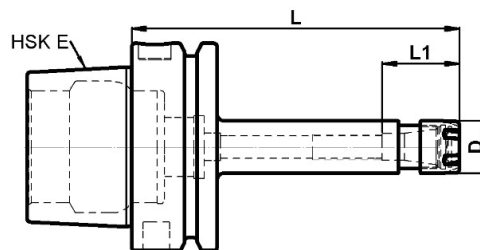
- M20** - ER Collet Chuck - **Mini Nut**
- 020** - ER Collet Chuck
- 120** - Shell Milling Holder
- 130** - Shell Milling Holder **Coolant Slot**
- 200** - Screw-In Holder
- 210** - Slim Collet Chuck
- 220** - Shrink-Fit Holder **4.5°**
- 240** - Shrink-Fit Holder **3°**
- 250** - Shrink-Fit Holder **3° Slim**
- G000** - Test Arbor

ER COLLET CHUCK MINI NUT - M20

MINI NUT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E25 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE25M20-08040	HSK E25 ER08-040M	ER08	40	0.7~5	12	40	15	1.58"
T00HE25M20-11040	HSK E25 ER11-040M	ER11	40	0.5~7	16	40	15	1.58"
T00HE25M20-16048	HSK E25 ER16-048M	ER16	48	0.5~10	22	48	22	1.89"
T00HE25M20-20048	HSK E25 ER20-048M	ER20	48	0.5~10	28	48	27	1.89"
T00HE25M20-20060	HSK E25 ER20-060M	ER20	60	0.5~10	28	60	27	2.36"

HSK E32 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE32M20-08060	HSK E32 ER08-060M	ER08	60	0.7~5	12	60	15	2.36"
T00HE32M20-11060	HSK E32 ER11-060M	ER11	60	0.5~7	16	60	15	2.36"
T00HE32M20-11080	HSK E32 ER11-080M	ER11	80	0.5~7	16	80	15	3.15"
T00HE32M20-16060	HSK E32 ER16-060M	ER16	60	0.5~10	22	60	22	2.36"
T00HE32M20-16080	HSK E32 ER16-080M	ER16	80	0.5~10	22	80	22	3.15"
T00HE32M20-20060	HSK E32 ER20-060M	ER20	60	1~13	28	60	27	2.36"
T00HE32M20-20080	HSK E32 ER20-080M	ER20	80	1~13	28	80	27	3.15"

HSK E40 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE40M20-08060	HSK E40 ER08-060M	ER08	60	0.7~5	12	60	15	2.36"
T00HE40M20-11060	HSK E40 ER11-060M	ER11	60	0.5~7	16	60	15	2.36"
T00HE40M20-11080	HSK E40 ER11-080M	ER11	80	0.5~7	16	80	15	3.15"
T00HE40M20-11100	HSK E40 ER11-100M	ER11	100	0.5~7	16	100	15	3.94"
T00HE40M20-16080	HSK E40 ER16-080M	ER16	80	0.5~10	22	80	22	3.15"
T00HE40M20-16100	HSK E40 ER16-100M	ER16	100	0.5~10	22	100	22	3.94"
T00HE40M20-20080	HSK E40 ER20-080M	ER20	80	1~13	28	80	27	3.15"

HSK E50 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE50M20-08100	HSK E50 ER08-100M	ER08	100	0.7~5	12	100	15	3.94"
T00HE50M20-11100	HSK E50 ER11-100M	ER11	100	0.5~7	16	100	15	3.94"
T00HE50M20-16080	HSK E50 ER16-080M	ER16	80	0.5~10	22	80	22	3.15"
T00HE50M20-16100	HSK E50 ER16-100M	ER16	100	0.5~10	22	100	22	3.94"
T00HE50M20-20100	HSK E50 ER20-100M	ER20	100	1~13	28	100	27	3.94"

HSK E63 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE63M20-11100	HSK E63 ER11-100M	ER11	100	0.5~7	16	100	15	3.94"
T00HE63M20-16100	HSK E63 ER16-100M	ER16	100	0.5~10	22	100	22	3.94"
T00HE63M20-20100	HSK E63 ER20-100M	ER20	100	1~13	28	100	27	3.94"

Note:

1. Order: Includes Nut and coolant tube Excludes ER collet, Retention Knob, and Wrench.

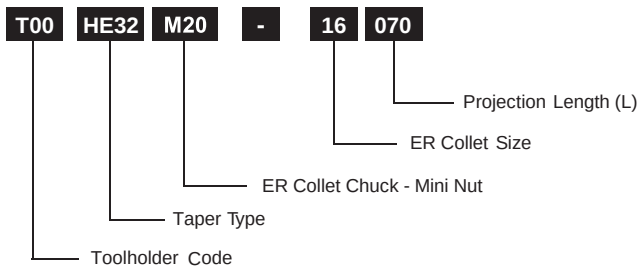
ACCESSORIES:

MINI NUT					
Order Number	Part Name	Thread	Type	ER Collet Size	
T04RR08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08	
T04RR11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11	
T04RR16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16	
T04RR20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20	

MINI WRENCH BEARING WITH ONE-WAY CLUTCHES			
Order Number	Part Name	Type	
T07ER0805	ER08 MINI WRENCH	Mini	
T07ER1105	ER11 MINI WRENCH	Mini	
T07ER1605	ER16 MINI WRENCH	Mini	
T07ER2005	ER20 MINI WRENCH	Mini	



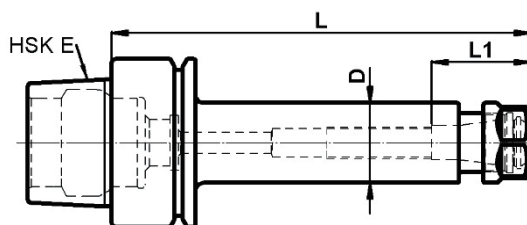
Order Number Instruction



ER COLLET CHUCK - 020 DIN6499

Quality

- Taper Angle Tolerance: AT3+
- Case Hardened Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000rpm
Option to G2.5 60000rpm



HSK E25 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE25020-11060	HSK E25 ER11-060	ER11	60	0.5 ~ 7	19	60	15	2.36"
T00HE25020-16060	HSK E25 ER16-060	ER16	60	0.5 ~ 10	28	60	22	2.36"

HSK E32 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE32020-11060	HSK E32 ER11-060	ER11	60	0.5 ~ 7	19	60	15	2.36"
T00HE32020-11080	HSK E32 ER11-080	ER11	80	0.5 ~ 7	19	80	15	3.15"
T00HE32020-16060	HSK E32 ER16-060	ER16	60	0.5 ~ 10	28	60	22	2.36"
T00HE32020-16080	HSK E32 ER16-080	ER16	80	0.5 ~ 10	28	80	22	3.15"
T00HE32020-20060	HSK E32 ER20-060	ER20	60	1 ~ 13	34	60	27	2.36"
T00HE32020-20080	HSK E32 ER20-080	ER20	80	1 ~ 13	34	80	27	3.15"
T00HE32020-25080	HSK E32 ER25-080	ER25	80	1 ~ 16	42	80	29	3.15"

HSK E40 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE40020-11060	HSK E40 ER11-060	ER11	60	0.5 ~ 7	19	60	15	2.36"
T00HE40020-11080	HSK E40 ER11-080	ER11	80	0.5 ~ 7	19	80	15	3.15"
T00HE40020-16060	HSK E40 ER16-060	ER16	60	0.5 ~ 10	28	60	22	2.36"
T00HE40020-16080	HSK E40 ER16-080	ER16	80	0.5 ~ 10	28	80	22	3.15"
T00HE40020-20080	HSK E40 ER20-080	ER20	80	1 ~ 13	34	80	27	3.15"
T00HE40020-25080	HSK E40 ER25-080	ER25	80	1 ~ 16	42	80	29	3.15"

HSK E50 ER COLLET CHUCK METRIC / INCH

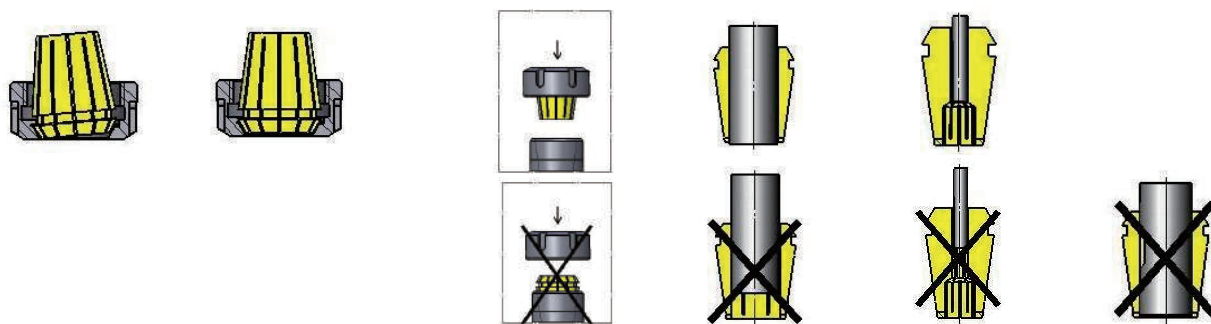
Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE50020-11100	HSK E50 ER11-100	ER11	100	0.5 ~ 7	19	100	15	3.94"
T00HE50020-16080	HSK E50 ER16-080	ER16	80	0.5 ~ 10	28	80	22	3.15"
T00HE50020-16100	HSK E50 ER16-100	ER16	100	0.5 ~ 10	28	100	22	3.94"
T00HE50020-20100	HSK E50 ER20-100	ER20	100	1 ~ 13	34	100	27	3.94"
T00HE50020-25080	HSK E50 ER25-080	ER25	80	1 ~ 16	42	80	29	3.15"
T00HE50020-25100	HSK E50 ER25-100	ER25	100	1 ~ 16	42	100	29	3.94"
T00HE50020-32100	HSK E50 ER32-100	ER32	100	2 ~ 20	63	100	34	3.94"

HSK E63 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HE63020-11100	HSK E63 ER11-100	ER11	100	0.5 ~ 7	19	100	15	3.94"
T00HE63020-16100	HSK E63 ER16-100	ER16	100	0.5 ~ 10	28	100	22	3.94"
T00HE63020-20100	HSK E63 ER20-100	ER20	100	1 ~ 13	34	100	27	3.94"
T00HE63020-25100	HSK E63 ER25-100	ER25	100	1 ~ 16	42	100	29	3.94"
T00HE63020-32100	HSK E63 ER32-100	ER32	100	2 ~ 20	50	100	34	3.94"
T00HE63020-40120	HSK E63 ER40-120	ER40	120	3 ~ 26	63	100	38	4.72"

Note:

1. Order: Includes Nut, Excludes ER collet, Retention Knob, and Wrench.
2. Assembly: ER Collet, Nut and Cutter.



ER COLLET CHUCK - 020 *DIN6499*

ACCESSORIES:

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER NUTS			
Order Number			
T04ER11-H1A		Hex Nut T04ERXX-H1A	
T04ER16-H1A			
T04ER20-H1A			
T04ER25-D1A		Spanner Nut T04ERXX-D1A	
T04ER32-D1A			
T04ER40-D1A			

ER BALL BEARING NUTS			
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner

BACKUP SCREWS METRIC		
Order Number	Part Name	ER size
T06PS-BTER11LH	ER11 Backup Screws	ER16
T06PS-BTER16LH	ER16 Backup Screws	ER16
T06PS-BTER20LH	ER20 Backup Screws	ER20
T06PS-BTER25LH	ER25 Backup Screws	ER25
T06PS-BTER32LH	ER32 Backup Screws	ER32
T06PS-BTER40LH	ER40 Backup Screws	ER40

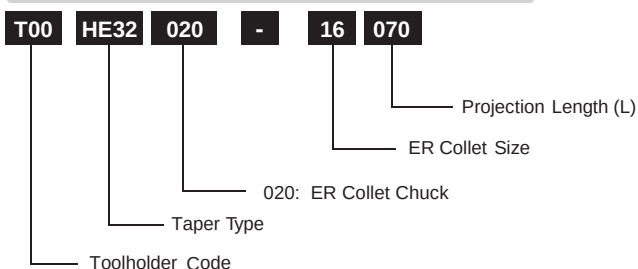


ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

WRENCH		
Order Number	Part Name	
T07ER1101	ER11 WRENCH	Hex wrench T07ERXX01 
T07ER1601	ER16 WRENCH	
T07ER2001	ER20 WRENCH	ER wrench T07ERXX02 
T07ER2502	ER25 WRENCH	
T07ER3202	ER32 WRENCH	
T07ER4002	ER40 WRENCH	

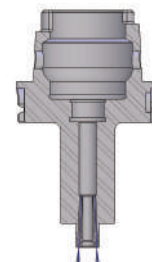
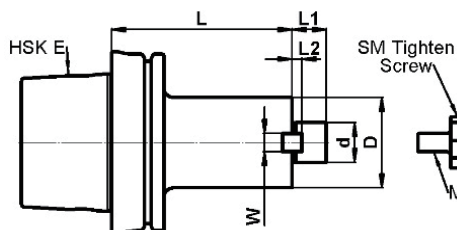


Order Number Instruction



Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm

**HSK E32 SHELL MILLING HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE32130-16050	HSK E32 SM16-050J	16	50	40	17	5	8	M08

HSK E40 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE40130-16050	HSK E40 SM16-050J	16	50	40	17	5	8	M08
T00HE40130-22050	HSK E40 SM22-050J	22	50	48	19	5	10	M10

HSK E50 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE50130-16050	HSK E50 SM16-050J	16	50	40	17	5	8	M08
T00HE50130-22050	HSK E50 SM22-050J	22	50	48	19	5	10	M10
T00HE50130-27060	HSK E50 SM27-060J	27	60	58	21	6	12	M12

HSK E63 SHELL MILLING HOLDER COOLANT SLOT METRIC

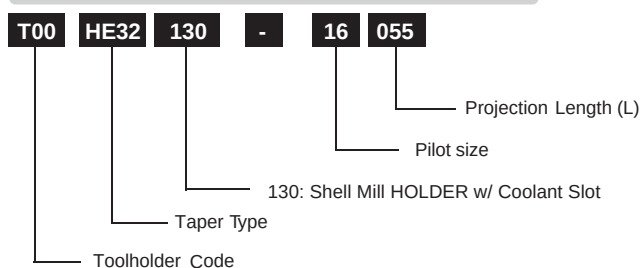
Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE63130-16050	HSK E63 SM16-050J	16	50	40	17	5	8	M08
T00HE63130-22050	HSK E63 SM22-050J	22	50	48	19	5	10	M10
T00HE63130-27060	HSK E63 SM27-060J	27	60	58	21	6	12	M12

ACCESSORIES:**DRIVING KEY METRIC**

Order Number	Part Name	Pilot Size
T10SM16	SM16 Key	SM16
T10SM22	SM22 Key	SM22
T10SM27	SM27 Key	SM27
T10SM32	SM32 Key	SM32
T10SM40	SM40 Key	SM40

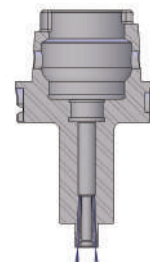
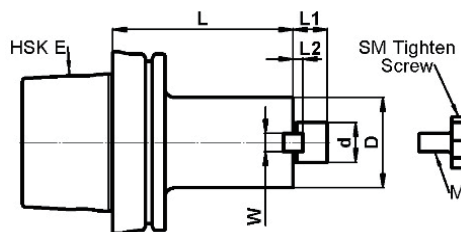
**LOCK SCREW METRIC**

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

**Order Number Instruction**

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm

**HSK E32 SHELL MILLING HOLDER COOLANT SLOT INCH**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE32130A19051	HSK E32 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24

HSK E40 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE40130A19051	HSK E40 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HE40130A25057	HSK E40 SM 1"-2.25"J	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20

HSK E50 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE50130A19051	HSK E50 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HE50130A25057	HSK E50 SM 1"-2.25"J	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HE50130A32057	HSK E50 SM 1 1/4"-2.25"J	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

HSK E63 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HE63130A19051	HSK E63 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HE63130A25057	HSK E63 SM 1"-2.25"J	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HE63130A32057	HSK A63 SM 1 1/4"-2.25"J	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

ACCESSORIES:**DRIVING KEY INCH**

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Key	SM3/4"
T10SM25.4	SM1" Key	SM1"
T10SM31	SM1 1/4" Key	SM1 1/4"
T10SM38	SM1 1/2" Key	SM1 1/2"
T10SM50	SM2" Key	SM2"

**LOCK SCREW INCH**

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

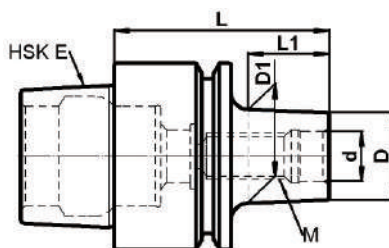
**Order Number Instruction**

T00	HE32	130	A	16	045
Toolholder Code	Taper Type	130: Shell Mill HOLDER w/ Coolant Slot	A: INCH Code	Pilot size	Projection Length (L)

SCREW-IN HOLDER - 200

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E32 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HE32200-08045	HSK E32 M08-045	M08	45	15	18	8.5	20	1.77"
T00HE32200-10045	HSK E32 M10-045	M10	45	18	20	10.5	20	1.77"
T00HE32200-12045	HSK E32 M12-045	M12	45	21	23	12.5	20	1.77"

HSK E40 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HE40200-08045	HSK E40 M08-045	M08	45	15	18	8.5	20	1.77"
T00HE40200-10045	HSK E40 M10-045	M10	50	18	20	10.5	20	1.77"
T00HE40200-12045	HSK E40 M12-045	M12	45	21	23	12.5	20	1.77"
T00HE40200-16045	HSK E40 M16-045	M16	45	29	33	17	20	1.77"

HSK E50 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HE50200-08065	HSK E50 M08-065	M08	65	15	18	8.5	20	2.56"
T00HE50200-10065	HSK E50 M10-065	M10	65	18	20	10.5	20	2.56"
T00HE50200-12065	HSK E50 M12-065	M12	65	21	23	12.5	20	2.56"
T00HE50200-16065	HSK E50 M16-065	M16	65	29	34	17	20	2.56"

HSK E63 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HE63200-08065	HSK E63 M08-065	M08	65	15	18	8.5	20	2.56"
T00HE63200-10065	HSK E63 M10-065	M10	65	18	20	10.5	20	2.56"
T00HE63200-12065	HSK E63 M12-065	M12	65	21	23	12.5	20	2.56"
T00HE63200-16065	HSK E63 M16-065	M16	65	29	34	17	20	2.56"

Note:

Order excludes Screw-In cutter.



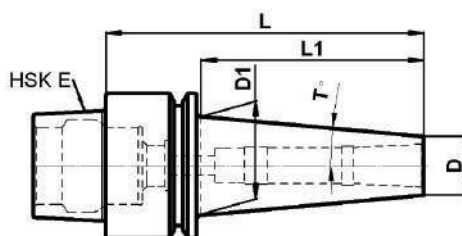
Order Number Instruction

T00	HE32	200	-	08	087
Toolholder Code	Taper Type	200: Screw-in HOLDER	Clamping Range	Projection Length (L)	

SLIM COLLET CHUCK - 210

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E32 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HE32210-06100A	HSK E32 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HE32210-10100A	HSK E32 HC10-100	HC10	100	100	20	25	3.0	45	3.94"

HSK E40 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HE40210-06100A	HSK E40 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HE40210-10100A	HSK E40 HC10-100	HC10	100	100	20	25	3.0	65	3.94"

HSK E50 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HE50210-06100A	HSK E50 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HE50210-10100A	HSK E50 HC10-100	HC10	100	100	20	25	3.0	70	3.94"

HSK E63 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HE63210-06100A	HSK E63 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HE63210-10100A	HSK E63 HC10-100	HC10	100	100	20	25	3.0	70	3.94"

Note:

Order excludes HC collet.

HC COLLETS METRIC

Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16

HC COLLETS INCH

Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"

HC DRAWBAR

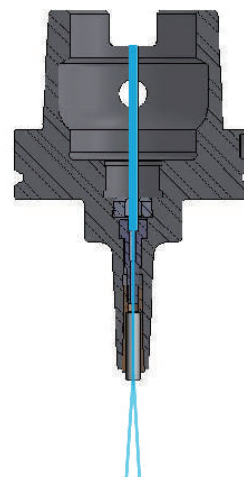
Order Number	Part Name
T06HC06100-HA63	HA63 HC06100 Drawbar Screw
T06HC06160-HA63	HA63 HC06160 Drawbar Screw
T06HC10100-HA63	HA63 HC10100 Drawbar Screw
T06HC10160-HA63	HA63 HC10160 Drawbar Screw
T06HC16100-HA63	HA63 HC16100 Drawbar Screw
T06HC16160-HA63	HA63 HC16160 Drawbar Screw

HC SCREW

Order Number	Part Name
T06HC-HSK-02	HSK63 HC06 JAM NUT

Order Number Instruction

T00	HE32	210	-	06	100
Toolholder Code	Taper Type	210: Slim Collet Chuck		HC Collet size	Projection Length (L)

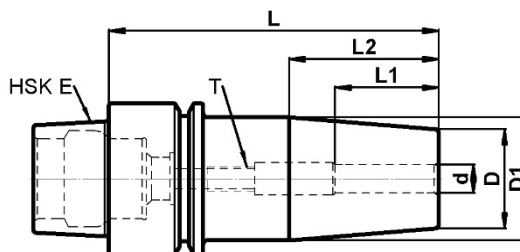


SHRINK-FIT 4.5° - 220

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm


HSK E25 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE25220-03060	HSK E25 SF03-060-4.5°	3	60	3	35	15	10	15.5	x	YES
T00HE25220-04060	HSK E25 SF04-060-4.5°	4	60	4	35	16	12	17.5	x	YES
T00HE25220-05060	HSK E25 SF05-060-4.5°	5	60	5	35	20	12	17.5	x	YES

HSK E32 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE32220-03060	HSK E32 SF03-060-4.5°	3	60	3	35	15	10	15.5	S10	YES
T00HE32220-03080	HSK E32 SF03-080-4.5°	3	80	3	35	15	10	15.5	S10	YES
T00HE32220-04060	HSK E32 SF04-060-4.5°	4	60	4	35	16	12	17.5	S10	YES
T00HE32220-04080	HSK E32 SF04-080-4.5°	4	80	4	35	16	12	17.5	S10	YES
T00HE32220-05060	HSK E32 SF05-060-4.5°	5	60	5	35	20	12	17.5	S10	YES
T00HE32220-05080	HSK E32 SF05-080-4.5°	5	80	5	35	20	12	17.5	S10	YES
T00HE32220-06070	HSK E32 SF06-070-4.5°	6	70	6	38	22	21	27.0	M05	YES
T00HE32220-08070	HSK E32 SF08-070-4.5°	8	70	8	38	22	21	27.0	M06	YES
T00HE32220-10075	HSK E32 SF10-075-4.5°	10	75	10	50	31	24	32.0	M08	YES
T00HE32220-12080	HSK E32 SF12-080-4.5°	12	80	12	50	31	24	32.0	M10	YES

HSK E40 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE40220-03060	HSK E40 SF03-060-4.5°	3	60	3	35	15	10	15.5	S10	YES
T00HE40220-03100	HSK E40 SF03-100-4.5°	3	100	3	35	15	10	15.5	S10	YES
T00HE40220-04060	HSK E40 SF04-060-4.5°	4	60	4	35	16	12	17.5	S10	YES
T00HE40220-04100	HSK E40 SF04-100-4.5°	4	100	4	35	16	12	17.5	S10	YES
T00HE40220-05060	HSK E40 SF05-060-4.5°	5	60	5	35	20	12	17.5	S10	YES
T00HE40220-05100	HSK E40 SF05-100-4.5°	5	100	5	35	20	12	17.5	S10	YES
T00HE40220-06080	HSK E40 SF06-080-4.5°	6	80	6	38	22	21	27.0	M05	YES
T00HE40220-08080	HSK E40 SF08-080-4.5°	8	80	8	38	22	21	27.0	M06	YES
T00HE40220-10080	HSK E40 SF10-080-4.5°	10	80	10	50	31	24	32.0	M08	YES
T00HE40220-12090	HSK E40 SF12-090-4.5°	12	90	12	50	31	24	32.0	M10	YES
T00HE40220-14090	HSK E40 SF14-090-4.5°	14	90	14	57	36	27	36.0	M10	YES
T00HE40220-16090	HSK E40 SF16-090-4.5°	16	90	16	57	39	27	36.0	M12	YES
T00HE40220-18095	HSK E40 SF18-095-4.5°	18	95	18	57	39	33	42.0	M12	YES
T00HE40220-20095	HSK E40 SF20-095-4.5°	20	95	20	57	39	33	42.0	M16	YES

HSK E50 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE50220-03100	HSK E50 SF03-100-4.5°	3	100	3	35	15	10	15.5	S10	YES
T00HE50220-04100	HSK E50 SF04-100-4.5°	4	100	4	35	16	12	17.5	S10	YES
T00HE50220-05100	HSK E50 SF05-100-4.5°	5	100	5	35	16	12	17.5	S10	YES
T00HE50220-06100	HSK E50 SF06-100-4.5°	6	100	6	38	22	21	27.0	M05	YES
T00HE50220-08100	HSK E50 SF08-100-4.5°	8	100	8	38	22	21	27.0	M06	YES
T00HE50220-10100	HSK E50 SF10-100-4.5°	10	100	10	50	31	24	32.0	M08	YES
T00HE50220-12100	HSK E50 SF12-100-4.5°	12	100	12	50	36	24	32.0	M10	YES
T00HE50220-14100	HSK E50 SF14-100-4.5°	14	100	14	57	36	27	36.0	M10	YES
T00HE50220-16100	HSK E50 SF16-100-4.5°	16	100	16	57	39	27	36.0	M12	YES
T00HE50220-20100	HSK E50 SF20-100-4.5°	20	100	20	57	41	33	42.0	M16	YES

HSK E63 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE63220-03100	HSK E63 SF03-100-4.5°	3	100	3	35	15	10	15.5	S10	YES
T00HE63220-04100	HSK E63 SF04-100-4.5°	4	100	4	35	16	12	17.5	S10	YES
T00HE63220-05100	HSK E63 SF05-100-4.5°	5	100	5	35	16	12	17.5	S10	YES
T00HE63220-06100	HSK E63 SF06-100-4.5°	6	100	6	38	22	21	27.0	M05	YES
T00HE63220-08100	HSK E63 SF08-100-4.5°	8	100	8	38	22	21	27.0	M06	YES
T00HE63220-10100	HSK E63 SF10-100-4.5°	10	100	10	50	31	24	32.0	M08	YES
T00HE63220-12100	HSK E63 SF12-100-4.5°	12	100	12	50	36	24	32.0	M10	YES
T00HE63220-14100	HSK E63 SF14-100-4.5°	14	100	14	57	36	27	36.0	M10	YES
T00HE63220-16100	HSK E63 SF16-100-4.5°	16	100	16	57	36	27	36.0	M12	YES
T00HE63220-18100	HSK E63 SF18-100-4.5°	18	100	18	57	39	33	42.0	M12	YES
T00HE63220-20100	HSK E63 SF20-100-4.5°	20	100	20	57	41	33	42.0	M16	YES



STANDARD TOOL HOLDER

HSK E METRIC
ISO 12164-1 / DIN 69893-5
32-40-50-63

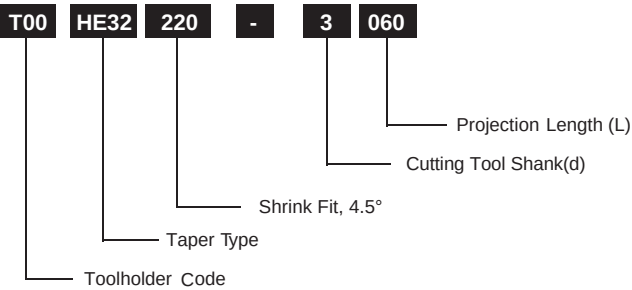
SHRINK-FIT 4.5° - 220

4.5°

- Note:
- 1. Cutter Shank Tolerance:
1/8" and 3mm and 4mm:H4
3/16" and 5mm:H5
Larger than 1/4" and 6mm: H6
 - 2. For carbider and HSS tooling.



Order Number Instruction

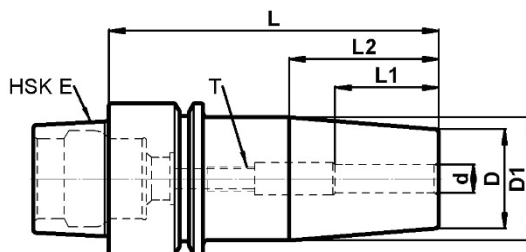


SHRINK-FIT 4.5° - 220

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm


HSK E25 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE25220A03060	HSK E25 SF1/8"-2.36"-4.5°	1/8"	2.36"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE25220A05060	HSK E25 SF3/16"-2.36"-4.5°	3/16"	2.36"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES

HSK E32 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE32220A03060	HSK E32 SF1/8"-2.36"-4.5°	1/8"	2.36"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE32220A03080	HSK E32 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE32220A05060	HSK E32 SF3/16"-2.36"-4.5°	3/16"	2.36"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HE32220A05080	HSK E32 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HE32220A06070	HSK E32 SF1/4"-2.76"-4.5°	1/4"	2.76"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HE32220A08070	HSK E32 SF5/16"-2.76"-4.5°	5/16"	2.76"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HE32220A09075	HSK E32 SF3/8"-2.95"-4.5°	3/8"	2.95"	3/8"	1.969"	1.22"	0.945"	1.255"	M08	YES
T00HE32220A12080	HSK E32 SF1/2"-3.15"-4.5°	1/2"	3.54"	1/2"	1.969"	1.42"	0.945"	1.255"	M10	YES

HSK E40 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE40220A03060	HSK E40 SF1/8"-2.36"-4.5°	1/8"	2.36"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE40220A03102	HSK E40 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE40220A05060	HSK E40 SF3/16"-2.36"-4.5°	3/16"	2.36"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HE40220A05102	HSK E40 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HE40220A06080	HSK E40 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HE40220A08080	HSK E40 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HE40220A09080	HSK E40 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	1.969"	1.22"	0.945"	1.255"	M08	YES
T00HE40220A12090	HSK E40 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	1.969"	1.22"	0.945"	1.255"	M10	YES
T00HE40220A16090	HSK E40 SF5/8"-3.54"-4.5°	5/8"	3.54"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HE40220A19095	HSK E40 SF3/4"-3.74"-4.5°	3/4"	3.74"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

HSK E50 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE50220A03102	HSK E50 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE50220A05102	HSK E50 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HE50220A06102	HSK E50 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HE50220A08102	HSK E50 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HE50220A09102	HSK E50 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HE50220A12102	HSK E50 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HE50220A16102	HSK E50 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES

HSK E63 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE63220A03102	HSK E63 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HE63220A05102	HSK E63 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HE63220A06102	HSK E63 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.496"	0.87"	0.827"	1.062"	M05	YES
T00HE63220A08102	HSK E63 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.496"	0.87"	0.827"	1.062"	M06	YES
T00HE63220A09102	HSK E63 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HE63220A12102	HSK E63 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HE63220A14102	HSK E63 SF9/16"-4.00"-4.5°	9/16"	4.00"	9/16"	1.732"	1.54"	1.063"	1.336"	M10	YES
T00HE63220A16102	HSK E63 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	2.244"	1.54"	1.063"	1.416"	M12	YES
T00HE63220A19102	HSK E63 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

Note:

1. Cutter Shank Tolerance:
1/8" and 3mm and 4mm:H4
3/16" and 5mm:H5
Larger than 1/4" and 6mm: H6
2. For carbide and HSS tooling.





STANDARD TOOL HOLDER

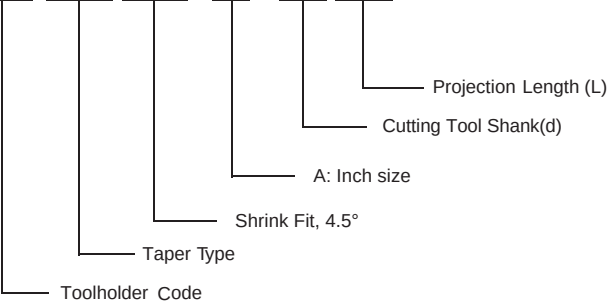
HSK E INCH
ISO 12164-1 / DIN 69893-5
32-40-50-63

SHRINK-FIT 4.5° - 220

4.5°

Order Number Instruction

T00 HE40 220 A 06 100

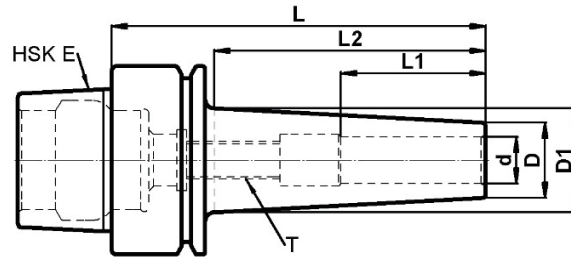


SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E25 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE25240-03060	HSK E25 SF03-060-3°	3	60	3	35	15	9	12.7	X	NO
T00HE25240-04060	HSK E25 SF04-060-3°	4	60	4	35	16	10	13.7	X	NO
T00HE25240-05060	HSK E25 SF05-060-3°	5	60	5	35	20	11	14.7	X	NO
T00HE25240-06060	HSK E25 SF06-060-3°	6	60	6	45	22	12	16.7	X	NO
T00HE25240-08060	HSK E25 SF08-060-3°	8	60	8	45	26	14	18.7	S10	NO

HSK E32 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE32240-03060	HSK E32 SF03-060-3°	3	60	3	35	15	9	12.7	X	NO
T00HE32240-03100	HSK E32 SF03-100-3°	3	100	3	75	15	9	17.0	S10	NO
T00HE32240-04060	HSK E32 SF04-060-3°	4	60	4	35	16	10	13.7	X	NO
T00HE32240-04100	HSK E32 SF04-100-3°	4	100	4	75	16	10	18.0	S10	NO
T00HE32240-05060	HSK E32 SF05-060-3°	5	60	5	35	20	11	14.7	X	NO
T00HE32240-05100	HSK E32 SF05-100-3°	5	100	5	75	20	11	19.0	S10	NO
T00HE32240-06080	HSK E32 SF06-080-3°	6	80	6	55	22	12	18.0	M05	NO
T00HE32240-06100	HSK E32 SF06-100-3°	6	100	6	75	22	12	20.0	M05	NO
T00HE32240-08080	HSK E32 SF08-080-3°	8	80	8	55	26	14	20.0	M06	NO
T00HE32240-08100	HSK E32 SF08-100-3°	8	100	8	75	26	14	22.0	M06	NO
T00HE32240-10080	HSK E32 SF10-080-3°	10	80	10	55	31	16	22.0	M08	NO
T00HE32240-10100	HSK E32 SF10-100-3°	10	100	10	75	31	16	24.0	M08	NO
T00HE32240-12080	HSK E32 SF12-080-3°	12	80	12	55	36	18	24.0	M10	NO
T00HE32240-12100	HSK E32 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO

HSK E40 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE40240-03060	HSK E40 SF03-060-3°	3	60	3	35	15	9	12.7	X	NO
T00HE40240-03100	HSK E40 SF03-100-3°	3	100	3	75	15	9	16.9	S10	NO
T00HE40240-04060	HSK E40 SF04-060-3°	4	60	4	35	16	10	13.7	X	NO
T00HE40240-04100	HSK E40 SF04-100-3°	4	100	4	75	16	10	17.9	S10	NO
T00HE40240-05060	HSK E40 SF05-060-3°	5	60	5	35	20	11	14.7	X	NO
T00HE40240-05100	HSK E40 SF05-100-3°	5	100	5	75	20	11	18.9	S10	NO
T00HE40240-06080	HSK E40 SF06-080-3°	6	80	6	55	22	12	17.8	M05	NO
T00HE40240-06100	HSK E40 SF06-100-3°	6	100	6	75	22	12	19.9	M05	NO
T00HE40240-08100	HSK E40 SF08-100-3°	8	100	8	75	26	14	21.9	M06	NO
T00HE40240-10100	HSK E40 SF10-100-3°	10	100	10	75	31	16	23.9	M08	NO
T00HE40240-12100	HSK E40 SF12-100-3°	12	100	12	75	36	18	25.9	M10	NO
T00HE40240-16100	HSK E40 SF16-100-3°	16	100	16	75	41	22	29.9	M16	NO

HSK E50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE50240-03100	HSK E50 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HE50240-04100	HSK E50 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HE50240-05100	HSK E50 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HE50240-06100	HSK E50 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HE50240-08100	HSK E50 SF08-100-3°	8	100	8	70	26	14	21.3	M05	NO
T00HE50240-10100	HSK E50 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HE50240-12100	HSK E50 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HE50240-16100	HSK E50 SF16-100-3°	16	100	16	70	39	22	29.3	M12	NO
T00HE50240-20100	HSK E50 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO

HSK E63 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE63240-03100	HSK E63 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HE63240-04100	HSK E63 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HE63240-05100	HSK E63 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HE63240-06100	HSK E63 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HE63240-08100	HSK E63 SF08-100-3°	8	100	8	70	26	14	21.3	M05	NO
T00HE63240-10100	HSK E63 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HE63240-12100	HSK E63 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HE63240-16100	HSK E63 SF16-100-3°	16	100	16	70	36	22	29.3	M12	NO
T00HE63240-20100	HSK E63 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO
T00HE63240-25115	HSK E63 SF25-115-3°	25	115	25	85	47	34	42.9	M16	NO

Note:

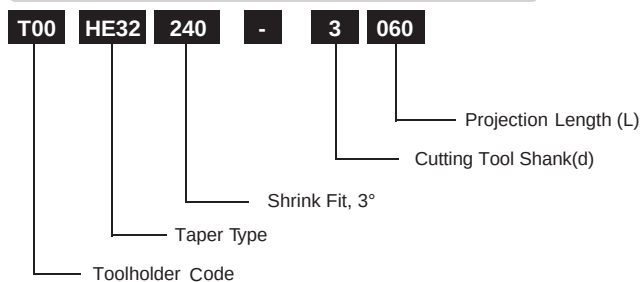
1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm: H5

Larger than 1/4" and 6mm: H6

2. For carbide and HSS tooling.

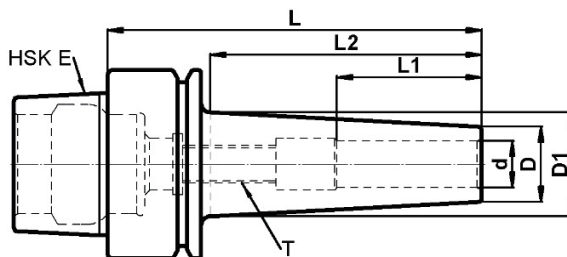
**Order Number Instruction**

SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E25 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE25240A03060	HSK E25 SF1/8"-2.36"-3°	1/8"	2.36"	1/8"	1.378"	0.59"	0.354"	0.499"	X	NO
T00HE25240A05060	HSK E25 SF3/16"-2.36"-3°	3/16"	2.36"	3/16"	1.378"	0.79"	0.433"	0.577"	X	NO
T00HE25240A06060	HSK E25 SF1/4"-2.36"-3°	1/4"	2.36"	1/4"	1.772"	0.87"	0.472"	0.673"	X	NO
T00HE25240A08060	HSK E25 SF5/16"-2.36"-3°	5/16"	2.36"	5/16"	1.772"	1.02"	0.551"	0.737"	X	NO

HSK E32 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE32240A03060	HSK E32 SF1/8"-2.36"-3°	1/8"	2.36"	1/8"	1.378"	0.59"	0.354"	0.499"	X	NO
T00HE32240A03102	HSK E32 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HE32240A05060	HSK E32 SF3/16"-2.36"-3°	3/16"	2.36"	3/16"	1.378"	0.79"	0.433"	0.577"	X	NO
T00HE32240A05102	HSK E32 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.953"	0.79"	0.433"	0.743"	S10	NO
T00HE32240A06080	HSK E32 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.165"	0.87"	0.472"	0.699"	M05	NO
T00HE32240A06102	HSK E32 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.953"	0.87"	0.472"	0.782"	M05	NO
T00HE32240A08080	HSK E32 SF5/16"-3.15"-3°	5/16"	3.15"	5/16"	2.165"	1.02"	0.551"	0.778"	M06	NO
T00HE32240A08102	HSK E32 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.953"	1.02"	0.551"	0.861"	M06	NO
T00HE32240A09080	HSK E32 SF3/8"-3.15"-3°	3/8"	3.15"	3/8"	2.165"	1.22"	0.630"	0.857"	M08	NO
T00HE32240A09102	HSK E32 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.953"	1.22"	0.630"	0.939"	M08	NO
T00HE32240A12080	HSK E32 SF1/2"-3.15"-3°	1/2"	3.15"	1/2"	2.165"	1.42"	0.709"	0.936"	M10	NO
T00HE32240A12102	HSK E32 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.953"	1.42"	0.709"	1.018"	M10	NO

HSK E40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE40240A03060	HSK E40 SF1/8"-2.36"-3°	1/8"	2.36"	1/8"	1.378"	0.59"	0.354"	0.499"	X	NO
T00HE40240A03102	HSK E40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HE40240A05060	HSK E40 SF3/16"-2.36"-3°	3/16"	2.36"	3/16"	1.378"	0.79"	0.433"	0.577"	X	NO
T00HE40240A05102	HSK E40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.953"	0.79"	0.433"	0.743"	S10	NO
T00HE40240A06080	HSK E40 SF1/4"-3.15"-3°	1/4"	3.15"	1/4"	2.165"	0.87"	0.472"	0.699"	M05	NO
T00HE40240A06102	HSK E40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.953"	0.87"	0.472"	0.782"	M05	NO
T00HE40240A08102	HSK E40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.953"	1.02"	0.551"	0.861"	M06	NO
T00HE40240A09102	HSK E40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.953"	1.22"	0.630"	0.939"	M08	NO
T00HE40240A12102	HSK E40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.953"	1.42"	0.709"	1.018"	M10	NO
T00HE40240A16102	HSK E40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.950"	1.54"	0.870"	1.180"	M12	NO
T00HE40240A19102	HSK E40 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.950"	1.61"	1.060"	1.370"	M16	NO

HSK E50 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE50240A03102	HSK E50 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HE50240A05102	HSK E50 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HE50240A06102	HSK E50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HE50240A08102	HSK E50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HE50240A09102	HSK E50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HE50240A12102	HSK E50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HE50240A16102	HSK E50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HE50240A19102	HSK E50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

HSK E63 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE63240A03102	HSK E63 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HE63240A05102	HSK E63 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HE63240A06102	HSK E63 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HE63240A08102	HSK E63 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HE63240A09102	HSK E63 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HE63240A12102	HSK E63 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HE63240A16102	HSK E63 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HE63240A19102	HSK E63 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO
T00HE63240A25115	HSK E63 SF1"-4.53"-3°	1"	4.53"	1"	3.346"	1.85"	1.339"	1.689"	M16	NO

Note:

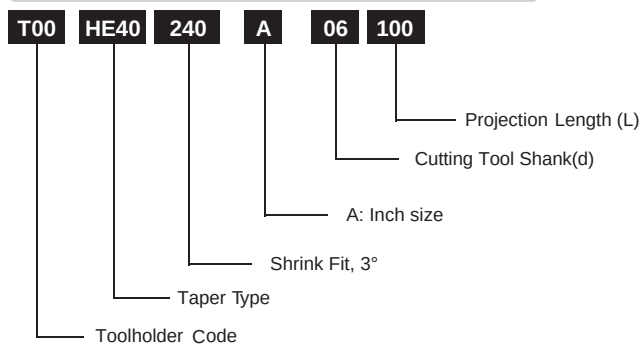
1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm: H5

Larger than 1/4" and 6mm: H6

2. For carbide and HSS tooling.

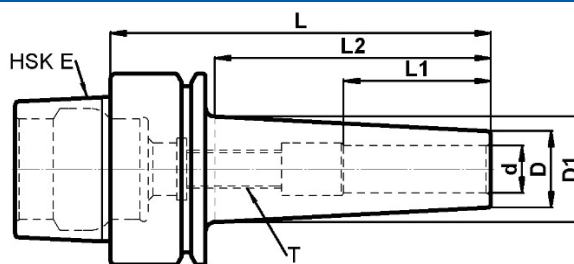
**Order Number Instruction**

SHRINK-FIT 3° SLIM - 250

3° SLIM

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm


HSK E25 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE25250-03060	HSK E25 SF03-060-3°slim	3	60	3	35	15	6	9.7	x	NO
T00HE25250-04060	HSK E25 SF04-060-3°slim	4	60	4	35	16	7	10.7	x	NO
T00HE25250-05060	HSK E25 SF05-060-3°slim	5	60	5	35	20	8	11.7	x	NO
T00HE25250-06060	HSK E25 SF06-060-3°slim	6	60	6	45	22	9	13.7	x	NO
T00HE25250-08060	HSK E25 SF08-060-3°slim	8	60	8	45	26	11	15.7	x	NO
T00HE25250-10060	HSK E25 SF10-060-3°slim	10	60	10	45	31	13	17.7	x	NO
T00HE25250-12060	HSK E25 SF12-060-3°slim	12	60	12	45	36	15	19.7	x	NO

HSK E32 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE32250-03100	HSK E32 SF03-100-3°slim	3	100	3	75	15	6	13.9	S10	NO
T00HE32250-04100	HSK E32 SF04-100-3°slim	4	100	4	75	15	7	14.9	S10	NO
T00HE32250-05100	HSK E32 SF05-100-3°slim	5	100	5	75	20	8	15.9	S10	NO
T00HE32250-06100	HSK E32 SF06-100-3°slim	6	100	6	75	22	9	16.9	M05	NO
T00HE32250-08100	HSK E32 SF08-100-3°slim	8	100	8	75	22	11	18.9	M06	NO
T00HE32250-10100	HSK E32 SF10-100-3°slim	10	100	10	75	31	13	20.9	M08	NO
T00HE32250-12100	HSK E32 SF12-100-3°slim	12	100	12	75	36	15	22.9	M10	NO

HSK E40 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE40250-03100	HSK E40 SF03-100-3°slim	3	100	3	75	15	6	13.9	S10	NO
T00HE40250-04100	HSK E40 SF04-100-3°slim	4	100	4	75	15	7	14.9	S10	NO
T00HE40250-05100	HSK E40 SF05-100-3°slim	5	100	5	75	20	8	15.9	S10	NO
T00HE40250-06100	HSK E40 SF06-100-3°slim	6	100	6	75	22	9	16.9	M05	NO
T00HE40250-08100	HSK E40 SF08-100-3°slim	8	100	8	75	22	11	18.9	M06	NO
T00HE40250-10100	HSK E40 SF10-100-3°slim	10	100	10	75	31	13	20.9	M08	NO
T00HE40250-12100	HSK E40 SF12-100-3°slim	12	100	12	75	36	15	22.9	M10	NO

HSK E50 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE50250-03100	HSK E50 SF03-100-3°slim	3	100	3	70	15	6	13.3	S10	NO
T00HE50250-04100	HSK E50 SF04-100-3°slim	4	100	4	70	15	7	14.3	S10	NO
T00HE50250-05100	HSK E50 SF05-100-3°slim	5	100	5	70	20	8	15.3	S10	NO
T00HE50250-06100	HSK E50 SF06-100-3°slim	6	100	6	70	22	9	16.3	M05	NO
T00HE50250-08100	HSK E50 SF08-100-3°slim	8	100	8	70	22	11	18.3	M06	NO
T00HE50250-10100	HSK E50 SF10-100-3°slim	10	100	10	70	31	13	20.3	M08	NO
T00HE50250-12100	HSK E50 SF12-100-3°slim	12	100	12	70	36	15	22.3	M10	NO

Note:

1. Cutter Shank Tolerance:

1/8" and 3mm and 4mm: H4

3/16" and 5mm: H5

Larger than 1/4" and 6mm: H6

2. For carbide tooling.


Order Number Instruction

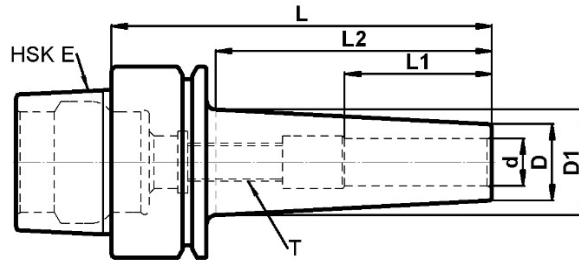
T00	HE32	250	-	3	060
Toolholder Code	Taper Type	Shrink Fit, 3° Slim		Cutting Tool Shank(d)	Projection Length (L)

SHRINK-FIT 3° SLIM - 250

3° SLIM

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm

**HSK E25 SHRINK FIT HOLDER 3° SLIM INCH**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE25250A03060	HSK E25 SF1/8"-2.36"-3° slim	1/8"	2.36"	1/8"	1.378"	0.59"	0.243"	0.381"	x	NO
T00HE25250A05060	HSK E25 SF3/16"-2.36"-3° slim	3/16"	2.36"	3/16"	1.378"	0.79"	0.315"	0.459"	x	NO
T00HE25250A06060	HSK E25 SF1/4"-2.36"-3° slim	1/4"	2.36"	1/4"	1.772"	0.87"	0.368"	0.554"	x	NO
T00HE25250A08060	HSK E25 SF5/16"-2.36"-3° slim	5/16"	2.36"	5/16"	1.772"	1.02"	0.433"	0.619"	x	NO
T00HE25250A09060	HSK E25 SF3/8"-2.36"-3° slim	3/8"	2.36"	3/8"	1.772"	1.22"	0.512"	0.697"	x	NO
T00HE25250A12060	HSK E25 SF1/2"-2.36"-3° slim	1/2"	2.36"	1/2"	1.575"	1.42"	0.618"	0.783"	x	NO

HSK E32 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE32250A03102	HSK E32 SF1/8"-4.00"-3° slim	1/8"	4.00"	1/8"	2.953"	0.59"	0.243"	0.553"	S10	NO
T00HE32250A05102	HSK E32 SF3/16"-4.00"-3° slim	3/16"	4.00"	3/16"	2.953"	0.79"	0.315"	0.624"	S10	NO
T00HE32250A06102	HSK E32 SF1/4"-4.00"-3° slim	1/4"	4.00"	1/4"	2.953"	0.87"	0.368"	0.717"	M05	NO
T00HE32250A08102	HSK E32 SF5/16"-4.00"-3° slim	5/16"	4.00"	5/16"	2.953"	1.02"	0.433"	0.743"	M06	NO
T00HE32250A09102	HSK E32 SF3/8"-4.00"-3° slim	3/8"	4.00"	3/8"	2.953"	1.22"	0.512"	0.821"	M08	NO
T00HE32250A12102	HSK E32 SF1/2"-4.00"-3° slim	1/2"	4.00"	1/2"	2.953"	1.42"	0.618"	0.928"	M10	NO

HSK E40 SHRINK FIT HOLDER 3° SLIM INCH

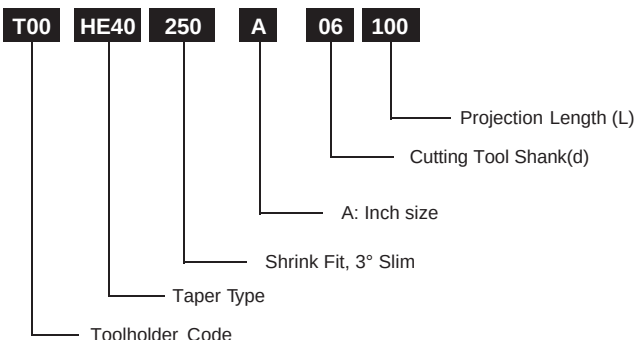
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE40250A03102	HSK E40 SF1/8"-4.00"-3° slim	1/8"	4.00"	1/8"	2.953"	0.59"	0.243"	0.553"	S10	NO
T00HE40250A05102	HSK E40 SF3/16"-4.00"-3° slim	3/16"	4.00"	3/16"	2.953"	0.79"	0.315"	0.624"	S10	NO
T00HE40250A06102	HSK E40 SF1/4"-4.00"-3° slim	1/4"	4.00"	1/4"	2.953"	0.87"	0.368"	0.717"	M05	NO
T00HE40250A08102	HSK E40 SF5/16"-4.00"-3° slim	5/16"	4.00"	5/16"	2.953"	1.02"	0.433"	0.743"	M06	NO
T00HE40250A09102	HSK E40 SF3/8"-4.00"-3° slim	3/8"	4.00"	3/8"	2.953"	1.22"	0.512"	0.821"	M08	NO
T00HE40250A12102	HSK E40 SF1/2"-4.00"-3° slim	1/2"	4.00"	1/2"	2.953"	1.42"	0.618"	0.928"	M10	NO

HSK E50 SHRINK FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HE50250A03102	HSK E50 SF1/8"-4.00"-3° slim	1/8"	4.00"	1/8"	2.756"	0.59"	0.243"	0.532"	S10	NO
T00HE50250A05102	HSK E50 SF3/16"-4.00"-3° slim	3/16"	4.00"	3/16"	2.756"	0.79"	0.315"	0.604"	S10	NO
T00HE50250A06102	HSK E50 SF1/4"-4.00"-3° slim	1/4"	4.00"	1/4"	2.756"	0.87"	0.368"	0.657"	M05	NO
T00HE50250A08102	HSK E50 SF5/16"-4.00"-3° slim	5/16"	4.00"	5/16"	2.756"	1.02"	0.433"	0.722"	M06	NO
T00HE50250A09102	HSK E50 SF3/8"-4.00"-3° slim	3/8"	4.00"	3/8"	2.756"	1.22"	0.512"	0.801"	M08	NO
T00HE50250A12102	HSK E50 SF1/2"-4.00"-3° slim	1/2"	4.00"	1/2"	2.756"	1.42"	0.618"	0.907"	M10	NO

Note:

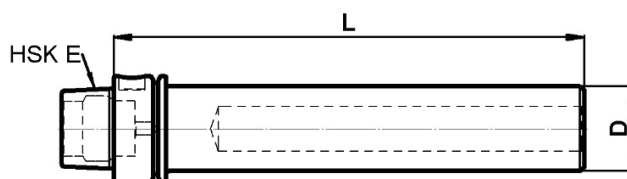
- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide tooling.

**Order Number Instruction**

TEST ARBOR - G000 HOLLOW / GS00 SOLID

Quality

- Taper Angle Tolerance: AT1
- Case hardened hardness: HRC 56±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm (0.00012")



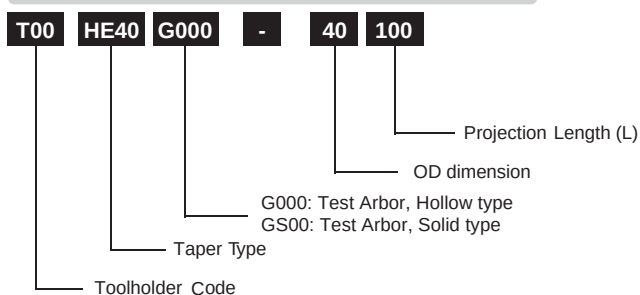
HSK TEST ARBOR METRIC

Order Number	Part Name	D	L
T00HE25GS00-20175	HSK E25 GS00 20-175	20	175
T00HE25GS04-20200	HSK E25 GS04 20-200	20	200
T00HE32GS00-20180	HSK E32 GS00 20-180	20	180
T00HE40G000-32180	HSK E40 G000 32-180	32	180
T00HE50G000-32240	HSK E50 G000 32-240	32	240
T00HE63G000-40320	HSK E63 G000 40-320	40	320

HSK TEST ARBOR INCH

Order Number	Part Name	D	L
T00HE25GS00A20175	HSK E25 GS00 0.79"-6.89"	0.787"	6.89"
T00HE25GS04A20200	HSK E25 GS04 0.79"-7.874"	0.787"	7.87"
T00HE32GS00A20180	HSK E32 GS00 0.79"-7.09"	0.787"	7.09"
T00HE40G000A32180	HSK A40 G000 1.26"-7.09"	1.260"	7.09"
T00HE50G000A32240	HSK A50 G000 1.26"-9.45"	1.260"	9.45"
T00HE63G000A40320	HSK A63 G000 1.57"-12.6"	1.575"	12.6"

Order Number Instruction



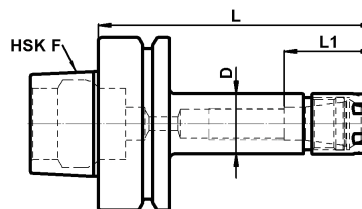
STANDARD TOOL HOLDER



- M20** - ER Collet Chuck - **Mini Nut**
- 020** - ER Collet Chuck
- 120** - Shell Milling Holder
- 130** - Shell Milling Holder **Coolant Slot**
- 200** - Screw-In Holder
- 210** - Slim Collet Chuck
- 220** - Shrink-Fit Holder **4.5°**
- 240** - Shrink-Fit Holder **3°**
- 250** - Shrink-Fit Holder **3° Slim**
- G000** - Test Arbor

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm

**HSK F40 ER COLLET CHUCK MINI NUT METRIC / INCH**

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF40M20-08060	HSK F40 ER08-060M	ER08	60	0.7~5	12	60	20	2.36"
T00HF40M20-11080	HSK F40 ER11-080M	ER11	80	0.5~7	16	80	15	3.15"
T00HF40M20-16080	HSK F40 ER16-080M	ER16	80	0.5~10	22	80	22	3.15"
T00HF40M20-20080	HSK F40 ER20-080M	ER20	80	1~13	28	80	27	3.15"

HSK F50 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF50M20-08100	HSK F50 ER08-100M	ER08	100	0.7~5	12	100	20	3.94"
T00HF50M20-11100	HSK F50 ER11-100M	ER11	100	0.5~7	16	100	15	3.94"
T00HF50M20-16100	HSK F50 ER16-100M	ER16	100	0.5~10	22	100	22	3.94"
T00HF50M20-20100	HSK F50 ER20-100M	ER20	100	1~13	28	100	27	3.94"

HSK F63 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF63M20-08100	HSK F63 ER08-100M	ER08	100	0.7~5	12	100	20	3.94"
T00HF63M20-11100	HSK F63 ER11-100M	ER11	100	0.5~7	16	100	15	3.94"
T00HF63M20-16100	HSK F63 ER16-100M	ER16	100	0.5~10	22	100	22	3.94"
T00HF63M20-20100	HSK F63 ER20-100M	ER20	100	1~13	28	100	27	3.94"

HSK F80 ER COLLET CHUCK MINI NUT METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF80M20-08100	HSK F80 ER08-100M	ER08	100	0.7~5	12	100	20	3.94"
T00HF80M20-11100	HSK F80 ER11-100M	ER11	100	0.5~7	16	100	15	3.94"
T00HF80M20-16100	HSK F80 ER16-100M	ER16	100	0.5~10	22	100	22	3.94"
T00HF80M20-20100	HSK F80 ER20-100M	ER20	100	1~13	28	100	27	3.94"

Note:

1. Order: Includes Nut and coolant tube Excludes ER collet, Retention Knob, and Wrench.



STANDARD TOOL HOLDER

HSK F METRIC / INCH

ISO 12164-1 / DIN 69893-6

40-50-63-80

ER COLLET CHUCK MINI NUT - M20

MINI NUT

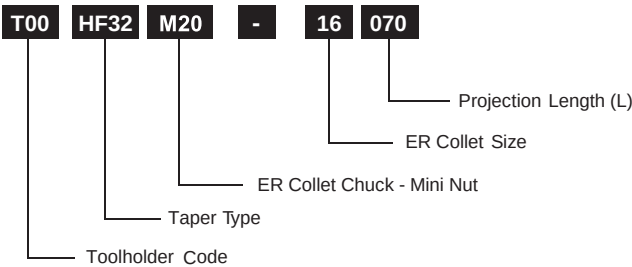
ACCESSORIES:

MINI NUT					
Order Number	Part Name	Thread	Type	ER Collet Size	
T04RR08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08	
T04RR11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11	
T04RR16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16	
T04RR20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20	

MINI WRENCH BEARING WITH ONE-WAY CLUTCHES			
Order Number	Part Name	Type	
T07ER0805	ER08M WRENCH	Mini	
T07ER1105	ER11M WRENCH	Mini	
T07ER1605	ER16M WRENCH	Mini	
T07ER2005	ER20M WRENCH	Mini	



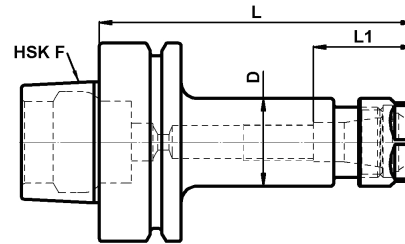
Order Number Instruction



ER COLLET CHUCK - 020 DIN6499

Quality

- Taper Angle Tolerance: AT3+
- Case Hardened Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000rpm
Option to G2.5 60000rpm



HSK F40 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF40020-11060	HSK F40 ER11-060	ER11	60	0.5 ~ 7	19	60	15	2.36"
T00HF40020-16060	HSK F40 ER16-060	ER16	60	0.5 ~ 10	28	60	22	2.36"
T00HF40020-20060	HSK F40 ER20-060	ER20	60	1 ~ 13	34	60	27	2.36"
T00HF40020-25060	HSK F40 ER25-060	ER25	60	1 ~ 16	42	60	29	2.36"
T00HF40020-25080	HSK F40 ER25-080	ER25	80	1 ~ 16	42	80	29	3.15"

HSK F50 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF50020-11060	HSK F50 ER11-060	ER11	60	0.5 ~ 7	19	60	15	2.36"
T00HF50020-16060	HSK F50 ER16-060	ER16	60	0.5 ~ 10	28	60	22	2.36"
T00HF50020-20060	HSK F50 ER20-060	ER20	60	1 ~ 13	34	60	27	2.36"
T00HF50020-25080	HSK F50 ER25-080	ER25	80	1 ~ 16	42	80	29	3.94"
T00HF50020-32080	HSK F50 ER32-080	ER32	80	2 ~ 20	63	80	34	3.94"

HSK F63 ER COLLET CHUCK METRIC / INCH

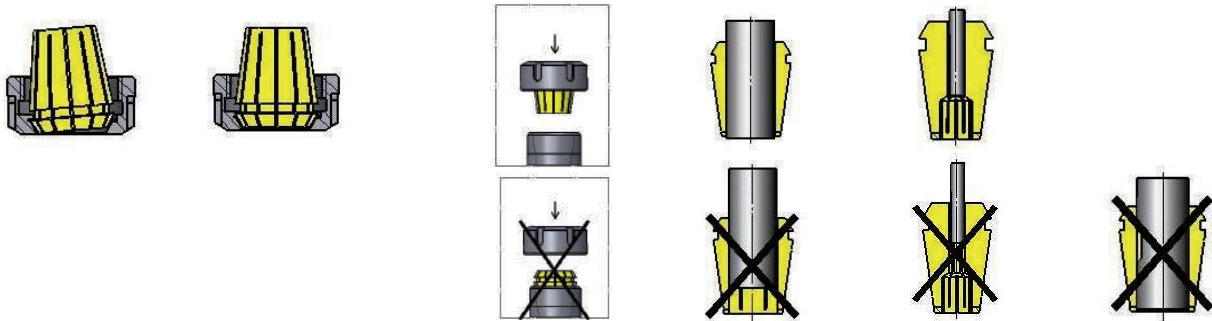
Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF63020-11100	HSK F63 ER11-100	ER16	100	0.5 ~ 7	19	100	15	3.94"
T00HF63020-16060	HSK F63 ER16-060	ER16	60	0.5 ~ 10	28	60	22	2.36"
T00HF63020-16100	HSK F63 ER16-100	ER16	100	0.5 ~ 10	28	100	22	3.94"
T00HF63020-20060	HSK F63 ER20-060	ER20	60	1 ~ 13	34	60	27	2.36"
T00HF63020-20100	HSK F63 ER20-100	ER20	100	1 ~ 13	34	100	27	3.94"
T00HF63020-25080	HSK F63 ER25-080	ER25	80	1 ~ 16	42	80	29	3.15"
T00HF63020-25100	HSK F63 ER25-100	ER25	100	1 ~ 16	42	100	29	3.94"
T00HF63020-32080	HSK F63 ER32-080	ER32	80	2 ~ 20	50	80	34	3.15"
T00HF63020-32100	HSK F63 ER32-100	ER32	100	2 ~ 20	50	100	34	3.94"
T00HF63020-40080	HSK F63 ER40-080	ER40	80	3 ~ 26	63	80	38	3.15"
T00HF63020-40120	HSK F63 ER40-120	ER40	120	3 ~ 26	63	100	38	4.72"

HSK F80 ER COLLET CHUCK METRIC / INCH

Order Number	Part Name	Collet	Length	Range	D	L	L1	L inch
T00HF80020-11100	HSK F80 ER11-100	ER16	100	0.5 ~ 7	19	100	15	3.94"
T00HF80020-16100	HSK F80 ER16-100	ER16	100	0.5 ~ 10	28	100	22	3.94"
T00HF80020-20100	HSK F80 ER20-100	ER20	100	1 ~ 13	34	100	27	3.94"
T00HF80020-25100	HSK F80 ER25-100	ER25	100	1 ~ 16	42	100	29	3.94"
T00HF80020-32100	HSK F80 ER32-100	ER32	100	2 ~ 20	50	100	34	3.94"
T00HF80020-40120	HSK F80 ER40-120	ER40	120	3 ~ 26	63	100	38	4.72"

Note:

1. Order: Includes Nut, Excludes ER collet, Retention Knob, and Wrench.
2. Assembly: ER Collet, Nut and Cutter.



ER COLLET CHUCK - 020 *DIN6499*

ACCESSORIES:

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER NUTS	
Order Number	Part Name
T04ER11-H1A	 Hex Nut T04ERXX-H1A
T04ER16-H1A	
T04ER20-H1A	
T04ER25-D1A	 Spanner Nut T04ERXX-D1A
T04ER32-D1A	
T04ER40-D1A	

ER BALL BEARING NUTS			
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner

BACKUP SCREWS METRIC		
Order Number	Part Name	ER size
T06PS-BTER11LH	ER11 Backup Screws	ER16
T06PS-BTER16LH	ER16 Backup Screws	ER16
T06PS-BTER20LH	ER20 Backup Screws	ER20
T06PS-BTER25LH	ER25 Backup Screws	ER25
T06PS-BTER32LH	ER32 Backup Screws	ER32
T06PS-BTER40LH	ER40 Backup Screws	ER40

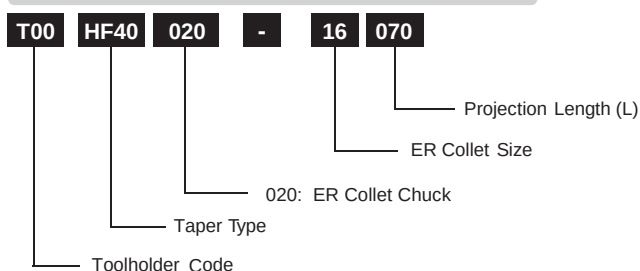


ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

WRENCH	
Order Number	Part Name
T07ER1101	ER11 WRENCH
T07ER1601	ER16 WRENCH
T07ER2001	ER20 WRENCH
T07ER2502	ER25 WRENCH
T07ER3202	ER32 WRENCH
T07ER4002	ER40 WRENCH



Order Number Instruction

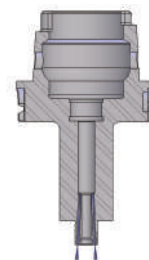
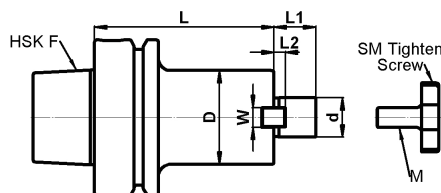


SHELL MILLING HOLDER COOLANT SLOT - 130

COOLANT SLOT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF40130-16050	HSK F40 SM16-050	16	50	40	17	5	8	M08
T00HF40130-22050	HSK F40 SM22-050	22	50	48	19	5	10	M10

HSK F50 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF50130-16050	HSK F50 SM16-050	16	50	40	17	5	8	M08
T00HF50130-22050	HSK F50 SM22-050	22	50	48	19	5	10	M10
T00HF50130-27060	HSK F50 SM27-060	27	60	58	21	6	12	M12

HSK F63 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF63130-16040	HSK F63 SM16-040	16	40	40	17	5	8	M08
T00HF63130-22050	HSK F63 SM22-050	22	50	48	19	5	10	M10
T00HF63130-27060	HSK F63 SM27-060	27	60	58	21	6	12	M12

HSK F80 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF80130-16040	HSK F80 SM16-040	16	40	40	17	5	8	M08
T00HF80130-22050	HSK F80 SM22-050	22	50	48	19	5	10	M10
T00HF80130-27060	HSK F80 SM27-060	27	60	58	21	6	12	M12

ACCESSORIES:

DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Key	SM16
T10SM22	SM22 Key	SM22
T10SM27	SM27 Key	SM27
T10SM32	SM32 Key	SM32
T10SM40	SM40 Key	SM40



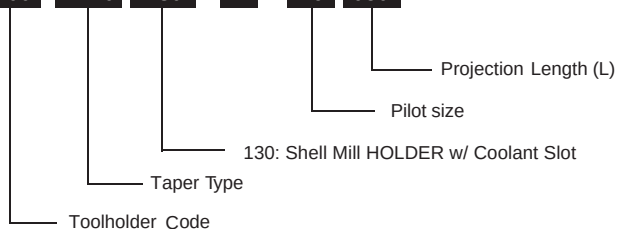
LOCK SCREW METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



Order Number Instruction

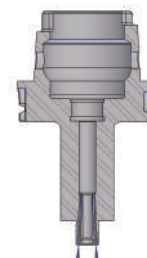
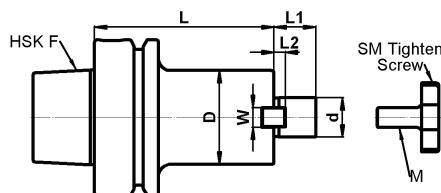
T00 **HF40** **130** **-** **16** **050**



SHELL MILLING HOLDER COOLANT SLOT - 130 COOLANT SLOT

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF40130A19051	HSK F40 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HF40130A25051	HSK F40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20

HSK F50 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF50130A19051	HSK F50 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HF50130A25057	HSK F50 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HF50130A32057	HSK F50 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

HSK F63 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF63130A19051	HSK F63 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HF63130A25057	HSK F63 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HF63130A32057	HSK F63 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

HSK F80 SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	d	L	D	L1	L2	W	M
T00HF80130A19051	HSK F80 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00HF80130A25057	HSK F80 SM 1"-2.25"	1"	2.25"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00HF80130A32057	HSK F80 SM 1 1/4"-2.25"	1 1/4"	2.25"	2.75"	0.68"	0.28"	1/2"	5/8"-18

ACCESSORIES:

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Key	SM3/4"
T10SM25.4	SM1" Key	SM1"
T10SM31	SM1 1/4" Key	SM1 1/4"
T10SM38	SM1 1/2" Key	SM1 1/2"
T10SM50	SM2" Key	SM2"

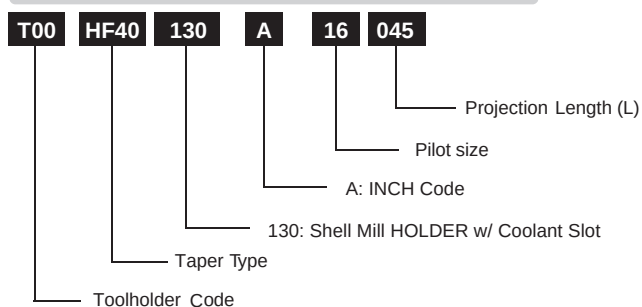


LOCK SCREW INCH

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



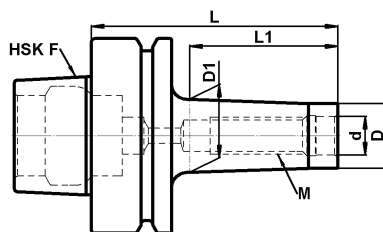
Order Number Instruction



SCREW-IN HOLDER - 200

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G2.5 25000 rpm



HSK F40 SCREW-IN HOLDE METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HF40200-08065	HSK F40 M08-065	M08	65	15	18	8.5	20	2.56"
T00HF40200-10065	HSK F40 M10-065	M10	65	18	20	10.5	30	2.56"
T00HF40200-12065	HSK F40 M12-065	M12	65	21	23	12.5	40	2.56"
T00HF40200-16065	HSK F40 M16-065	M16	65	29	33	17	20	2.56"

HSK F50 SCREW-IN HOLDE METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HF50200-08065	HSK F50 M08-065	M08	65	15	18	8.5	20	2.56"
T00HF50200-10065	HSK F50 M10-065	M10	65	18	20	10.5	30	2.56"
T00HF50200-12065	HSK F50 M12-065	M12	65	21	23	12.5	40	2.56"
T00HF50200-16065	HSK F50 M16-065	M16	65	29	34	17	40	2.56"

HSK F63 SCREW-IN HOLDE METRIC

Order Number	Part Name	M	L	D	D1	d	L1	L
T00HF63200-08100	HSK F63 M08-100	M08	100	15	23	8.5	50	3.94"
T00HF63200-10100	HSK F63 M10-100	M10	100	18	25	10.5	50	3.94"
T00HF63200-12100	HSK F63 M12-100	M12	100	21	24	12.5	50	3.94"
T00HF63200-16100	HSK F63 M16-100	M16	100	29	34	17	50	3.94"

HSK F80 SCREW-IN HOLDE METRIC

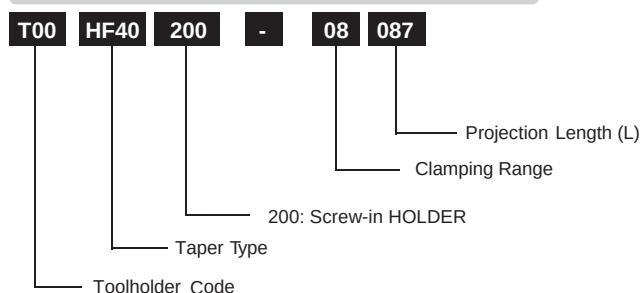
Order Number	Part Name	M	L	D	D1	d	L1	L
T00HF80200-08100	HSK F80 M08-100	M08	100	15	23	8.5	50	3.94"
T00HF80200-10100	HSK F80 M10-100	M10	100	18	25	10.5	50	3.94"
T00HF80200-12100	HSK F80 M12-100	M12	100	21	24	12.5	50	3.94"
T00HF80200-16100	HSK F80 M16-100	M16	100	29	34	17	50	3.94"

Note:

Order excludes Screw-In cutter.



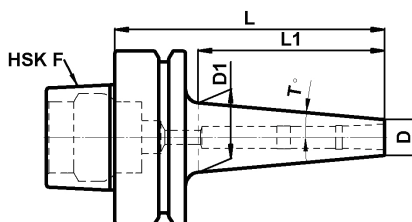
Order Number Instruction



SLIM COLLET CHUCK - 210

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HF40210-06100A	HSK F40 HC06-100	HC06	100	100	13	18	2.5	65	3.94"
T00HF40210-10100A	HSK F40 HC10-100	HC10	100	100	20	27	3.0	45	3.94"

HSK F50 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HF50210-06100A	HSK F50 HC06-100	HC06	100	100	13	17	2.5	55	3.94"
T00HF50210-10100A	HSK F50 HC10-100	HC10	100	100	20	28	3.0	70	3.94"

HSK F63 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HF63210-06100A	HSK F63 HC06-100	HC06	100	100	13	17	2.5	55	3.94"
T00HF63210-10100A	HSK F63 HC10-100	HC10	100	100	20	28	3.0	70	3.94"

HSK F80 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1	Length
T00HF80210-06100A	HSK F80 HC06-100	HC06	100	100	13	17	2.5	55	3.94"
T00HF80210-10100A	HSK F80 HC10-100	HC10	100	100	20	28	3.0	70	3.94"

Note:

Order excludes HC collet.

HC COLLETS METRIC

Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16

HC COLLETS INCH

Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"

HC DRAWBAR

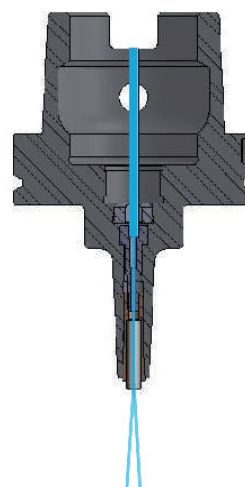
Order Number	Part Name
T06HC06100-HA63	HA63 HC06100 Drawbar Screw
T06HC06160-HA63	HA63 HC06160 Drawbar Screw
T06HC10100-HA63	HA63 HC10100 Drawbar Screw
T06HC10160-HA63	HA63 HC10160 Drawbar Screw
T06HC16100-HA63	HA63 HC16100 Drawbar Screw
T06HC16160-HA63	HA63 HC16160 Drawbar Screw

HC SCREW

Order Number	Part Name
T06HC-HSK-02	HSK63 HC06 JAM NUT

Order Number Instruction

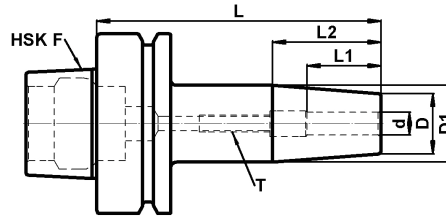
T00	HF40	210	-	06	100
					Projection Length (L)
					HC Collet size
					210: Slim Collet Chuck
					Taper Type
					Toolholder Code



SHRINK-FIT 4.5° - 220

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm

**HSK F40 SHRINK FIT HOLDER 4.5° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF40220-03060	HSK F40 SF03-060-4.5°	3	60	3	38	15	10	16	S10	YES
T00HF40220-04060	HSK F40 SF04-060-4.5°	4	60	4	38	16	12	18	S10	YES
T00HF40220-05060	HSK F40 SF05-060-4.5°	5	60	5	38	16	12	18	S10	YES
T00HF40220-06080	HSK F40 SF06-080-4.5°	6	80	6	38	22	21	27	M05	YES
T00HF40220-08080	HSK F40 SF08-080-4.5°	8	80	8	38	22	21	27	M06	YES
T00HF40220-10080	HSK F40 SF10-080-4.5°	10	80	10	51	31	24	32	M08	YES
T00HF40220-12090	HSK F40 SF12-090-4.5°	12	90	12	64	31	24	34	M10	YES
T00HF40220-16090	HSK F40 SF16-090-4.5°	16	90	16	57	39	27	36	M12	YES
T00HF40220-20095	HSK F40 SF20-095-4.5°	20	95	20	57	39	33	42	M16	YES

HSK F50 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF50220-03080	HSK F50 SF03-080-4.5°	3	80	3	38	15	10	16	S10	YES
T00HF50220-04080	HSK F50 SF04-080-4.5°	4	80	4	38	16	12	18	S10	YES
T00HF50220-05080	HSK F50 SF05-080-4.5°	5	80	5	38	16	12	18	S10	YES
T00HF50220-06080	HSK F50 SF06-080-4.5°	6	80	6	38	22	21	27	M05	YES
T00HF50220-08080	HSK F50 SF08-080-4.5°	8	80	8	38	22	21	27	M06	YES
T00HF50220-10085	HSK F50 SF10-080-4.5°	10	85	10	51	31	24	32	M08	YES
T00HF50220-12090	HSK F50 SF12-080-4.5°	12	90	12	51	36	24	32	M10	YES
T00HF50220-14090	HSK F50 SF14-090-4.5°	14	90	14	57	36	27	36	M10	YES
T00HF50220-16095	HSK F50 SF16-095-4.5°	16	95	16	57	39	27	36	M12	YES
T00HF50220-18095	HSK F50 SF18-095-4.5°	18	95	18	57	39	33	42	M12	YES
T00HF50220-20100	HSK F50 SF20-100-4.5°	20	100	20	57	39	33	42	M16	YES

HSK F63 SHRINK FIT HOLDER 4.5° METRIC

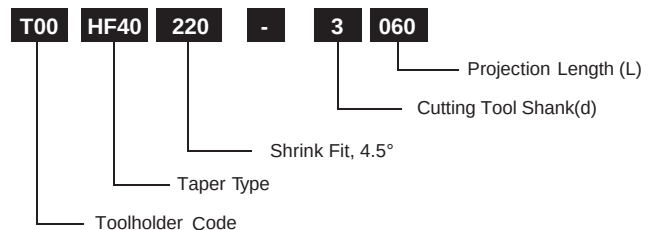
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF63220-03100	HSK F63 SF03-100-4.5°	3	100	3	38	15	10	16	S10	YES
T00HF63220-04100	HSK F63 SF04-100-4.5°	4	100	4	38	16	12	18	S10	YES
T00HF63220-05100	HSK F63 SF05-100-4.5°	5	100	5	38	16	12	18	S10	YES
T00HF63220-06080	HSK F63 SF06-080-4.5°	6	80	6	38	22	21	27	M05	YES
T00HF63220-08080	HSK F63 SF08-080-4.5°	8	80	8	38	22	21	27	M06	YES
T00HF63220-10085	HSK F63 SF10-085-4.5°	10	85	10	51	31	24	32	M08	YES
T00HF63220-12090	HSK F63 SF12-090-4.5°	12	90	12	64	36	24	34	M10	YES
T00HF63220-14090	HSK F63 SF14-090-4.5°	14	90	14	57	36	27	36	M10	YES
T00HF63220-16095	HSK F63 SF16-095-4.5°	16	95	16	57	39	27	36	M12	YES
T00HF63220-18095	HSK F63 SF18-095-4.5°	18	95	18	57	39	33	42	M12	YES
T00HF63220-20100	HSK F63 SF20-100-4.5°	20	100	20	57	41	33	42	M16	YES

HSK F80 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF80220-03100	HSK F80 SF03-100-4.5°	3	100	3	38	15	10	16	S10	YES
T00HF80220-04100	HSK F80 SF04-100-4.5°	4	100	4	38	16	12	18	S10	YES
T00HF80220-05100	HSK F80 SF05-100-4.5°	5	100	5	38	16	12	18	S10	YES
T00HF80220-06100	HSK F80 SF06-100-4.5°	6	100	6	38	22	21	27	M05	YES
T00HF80220-08100	HSK F80 SF08-100-4.5°	8	100	8	38	22	21	27	M06	YES
T00HF80220-10100	HSK F80 SF10-100-4.5°	10	100	10	64	31	24	34	M08	YES
T00HF80220-12100	HSK F80 SF12-100-4.5°	12	100	12	64	36	24	34	M10	YES
T00HF80220-14100	HSK F80 SF14-100-4.5°	14	100	14	57	36	27	36	M10	YES
T00HF80220-16100	HSK F80 SF16-100-4.5°	16	100	16	57	39	27	36	M12	YES
T00HF80220-18100	HSK F80 SF18-100-4.5°	18	100	18	57	39	33	42	M12	YES
T00HF80220-20100	HSK F80 SF20-100-4.5°	20	100	20	57	41	33	42	M16	YES

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.

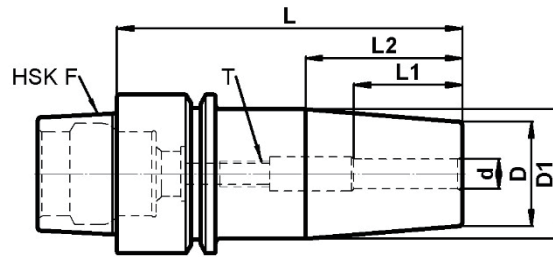
**Order Number Instruction**

SHRINK-FIT 4.5° - 220

4.5°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm


HSK F40 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF40220A03060	HSK F40 SF1/8"-2.36"-4.5°	1/8"	2.36"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HF40220A05060	HSK F40 SF3/16"-2.36"-4.5°	3/16"	2.36"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HF40220A06080	HSK F40 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.062"	0.87"	0.827"	1.496"	M05	YES
T00HF40220A08080	HSK F40 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.062"	0.87"	0.827"	1.496"	M06	YES
T00HF40220A09080	HSK F40 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HF40220A12090	HSK F40 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HF40220A16090	HSK F40 SF5/8"-3.54"-4.5°	5/8"	3.54"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HF40220A19095	HSK F40 SF3/4"-3.74"-4.5°	3/4"	3.74"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

HSK F50 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF50220A03080	HSK F50 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HF50220A05080	HSK F50 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HF50220A06080	HSK F50 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.062"	0.87"	0.827"	1.496"	M05	YES
T00HF50220A08080	HSK F50 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.062"	0.87"	0.827"	1.496"	M06	YES
T00HF50220A09080	HSK F50 SF3/8"-3.15"-4.5°	3/8"	3.15"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HF50220A12090	HSK F50 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HF50220A16095	HSK F50 SF5/8"-3.74"-4.5°	5/8"	3.74"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HF50220A19102	HSK F40 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

HSK F63 SHRINK FIT HOLDER 4.5° INCH

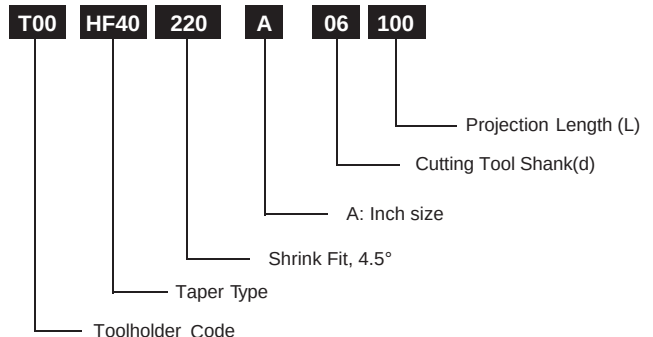
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF63220A03102	HSK F63 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HF63220A05102	HSK F63 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HF63220A06080	HSK F63 SF1/4"-3.15"-4.5°	1/4"	3.15"	1/4"	1.062"	0.87"	0.827"	1.496"	M05	YES
T00HF63220A08080	HSK F63 SF5/16"-3.15"-4.5°	5/16"	3.15"	5/16"	1.062"	0.87"	0.827"	1.496"	M06	YES
T00HF63220A09085	HSK F63 SF3/8"-3.35"-4.5°	3/8"	3.35"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HF63220A12090	HSK F63 SF1/2"-3.54"-4.5°	1/2"	3.54"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HF63220A16095	HSK F63 SF5/8"-3.74"-4.5°	5/8"	3.74"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HF63220A19102	HSK F63 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

HSK F80 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF80220A03102	HSK F80 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	1.378"	0.59"	0.394"	0.611"	S10	YES
T00HF80220A05102	HSK F80 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	1.378"	0.79"	0.472"	0.689"	S10	YES
T00HF80220A06102	HSK F80 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.062"	0.87"	0.827"	1.496"	M05	YES
T00HF80220A08102	HSK F80 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.062"	0.87"	0.827"	1.496"	M06	YES
T00HF80220A09102	HSK F80 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.008"	1.22"	0.945"	1.261"	M08	YES
T00HF80220A12102	HSK F80 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	2.008"	1.22"	0.945"	1.261"	M10	YES
T00HF80220A16102	HSK F80 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.732"	1.54"	1.063"	1.336"	M12	YES
T00HF80220A19102	HSK F80 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.244"	1.61"	1.299"	1.652"	M12	YES

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm:H4
3/16" and 5mm:H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.

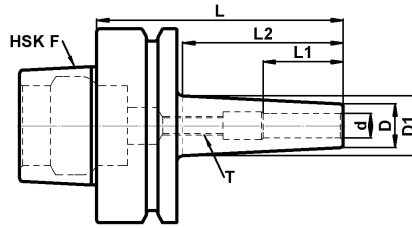
**Order Number Instruction**

SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF40240-03100	HSK F40 SF03-100-3°	3	100	3	75	15	9	16.9	S10	NO
T00HF40240-04100	HSK F40 SF04-100-3°	4	100	4	75	16	10	17.9	S10	NO
T00HF40240-05100	HSK F40 SF05-100-3°	5	100	5	75	20	11	18.9	S10	NO
T00HF40240-06100	HSK F40 SF06-100-3°	6	100	6	75	22	12	19.9	M05	NO
T00HF40240-08100	HSK F40 SF08-100-3°	8	100	8	75	26	14	21.9	M06	NO
T00HF40240-10100	HSK F40 SF10-100-3°	10	100	10	75	31	16	23.9	M08	NO
T00HF40240-12100	HSK F40 SF12-100-3°	12	100	12	75	36	18	25.9	M10	NO
T00HF40240-16100	HSK F40 SF16-100-3°	16	100	16	75	41	22	29.9	M16	NO

HSK F50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF50240-03100	HSK F50 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HF50240-04100	HSK F50 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HF50240-05100	HSK F50 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HF50240-06100	HSK F50 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HF50240-08100	HSK F50 SF08-100-3°	8	100	8	70	26	14	21.3	M06	NO
T00HF50240-10100	HSK F50 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HF50240-12100	HSK F50 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HF50240-16100	HSK F50 SF16-100-3°	16	100	16	70	39	22	29.3	M16	NO

HSK F63 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF63240-03100	HSK F63 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HF63240-04100	HSK F63 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HF63240-05100	HSK F63 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HF63240-06100	HSK F63 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HF63240-08100	HSK F63 SF08-100-3°	8	100	8	70	26	14	21.3	M05	NO
T00HF63240-10100	HSK F63 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HF63240-12100	HSK F63 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HF63240-16100	HSK F63 SF16-100-3°	16	100	16	70	36	22	29.3	M12	NO
T00HF63240-20100	HSK F63 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO

HSK F80 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF80240-03100	HSK F80 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HF80240-04100	HSK F80 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HF80240-05100	HSK F80 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HF80240-06100	HSK F80 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HF80240-08100	HSK F80 SF08-100-3°	8	100	8	70	26	14	21.3	M05	NO
T00HF80240-10100	HSK F80 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HF80240-12100	HSK F80 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HF80240-16100	HSK F80 SF16-100-3°	16	100	16	70	36	22	29.3	M12	NO
T00HF80240-20100	HSK F80 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.



Order Number Instruction

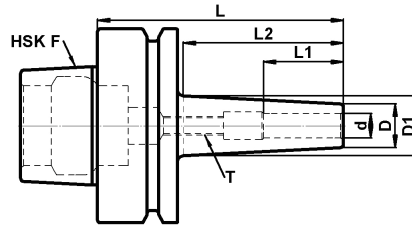
T00	HF40	240	-	3	060
Toolholder Code	Taper Type	Shrink Fit, 3°		Projection Length (L)	Cutting Tool Shank(d)

SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF40240A03102	HSK F40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HF40240A05102	HSK F40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.953"	0.79"	0.433"	0.743"	S10	NO
T00HF40240A06102	HSK F40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.953"	0.87"	0.472"	0.782"	M05	NO
T00HF40240A08102	HSK F40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.953"	1.02"	0.551"	0.861"	M06	NO
T00HF40240A09102	HSK F40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.953"	1.22"	0.630"	0.939"	M08	NO
T00HF40240A12102	HSK F40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.953"	1.42"	0.709"	1.018"	M10	NO
T00HF40240A16102	HSK F40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.953"	1.54"	0.870"	1.180"	M12	NO

HSK F50 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF50240A03102	HSK F50 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HF50240A05102	HSK F50 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HF50240A06102	HSK F50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HF50240A08102	HSK F50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HF50240A09102	HSK F50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HF50240A12102	HSK F50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HF50240A16102	HSK F50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HF50240A19102	HSK F50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

HSK F63 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF63240A03102	HSK F63 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HF63240A05102	HSK F63 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HF63240A06102	HSK F63 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HF63240A08102	HSK F63 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HF63240A09102	HSK F63 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HF63240A12102	HSK F63 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HF63240A16102	HSK F63 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HF63240A19102	HSK F63 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

HSK F63 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF80240A03102	HSK F80 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HF80240A05102	HSK F80 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HF80240A06102	HSK F80 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HF80240A08102	HSK F80 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HF80240A09102	HSK F80 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HF80240A12102	HSK F80 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HF80240A16102	HSK F80 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HF80240A19102	HSK F80 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

Note:

1.Cutter Shank Tolerance:

1/8" and 3mm and 4mm:H4

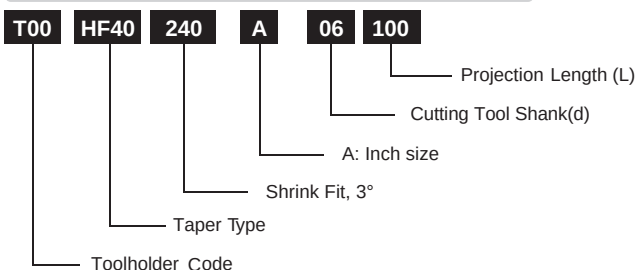
3/16" and 5mm:H5

Larger than 1/4" and 6mm: H6

2.For carbide and HSS tooling.



Order Number Instruction

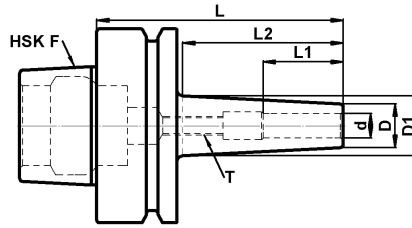


SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm

**HSK F40 SHRINK FIT HOLDER 3° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF40240-03100	HSK F40 SF03-100-3°	3	100	3	75	15	9	16.9	S10	NO
T00HF40240-04100	HSK F40 SF04-100-3°	4	100	4	75	16	10	17.9	S10	NO
T00HF40240-05100	HSK F40 SF05-100-3°	5	100	5	75	20	11	18.9	S10	NO
T00HF40240-06100	HSK F40 SF06-100-3°	6	100	6	75	22	12	19.9	M05	NO
T00HF40240-08100	HSK F40 SF08-100-3°	8	100	8	75	26	14	21.9	M06	NO
T00HF40240-10100	HSK F40 SF10-100-3°	10	100	10	75	31	16	23.9	M08	NO
T00HF40240-12100	HSK F40 SF12-100-3°	12	100	12	75	36	18	25.9	M10	NO
T00HF40240-16100	HSK F40 SF16-100-3°	16	100	16	75	41	22	29.9	M16	NO

HSK F50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF50240-03100	HSK F50 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HF50240-04100	HSK F50 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HF50240-05100	HSK F50 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HF50240-06100	HSK F50 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HF50240-08100	HSK F50 SF08-100-3°	8	100	8	70	26	14	21.3	M06	NO
T00HF50240-10100	HSK F50 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HF50240-12100	HSK F50 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HF50240-16100	HSK F50 SF16-100-3°	16	100	16	70	39	22	29.3	M16	NO

HSK F63 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF63240-03100	HSK F63 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HF63240-04100	HSK F63 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HF63240-05100	HSK F63 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HF63240-06100	HSK F63 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HF63240-08100	HSK F63 SF08-100-3°	8	100	8	70	26	14	21.3	M05	NO
T00HF63240-10100	HSK F63 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HF63240-12100	HSK F63 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HF63240-16100	HSK F63 SF16-100-3°	16	100	16	70	36	22	29.3	M12	NO
T00HF63240-20100	HSK F63 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO

HSK F80 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF80240-03100	HSK F80 SF03-100-3°	3	100	3	70	15	9	16.3	S10	NO
T00HF80240-04100	HSK F80 SF04-100-3°	4	100	4	70	16	10	17.3	S10	NO
T00HF80240-05100	HSK F80 SF05-100-3°	5	100	5	70	20	11	18.3	S10	NO
T00HF80240-06100	HSK F80 SF06-100-3°	6	100	6	70	22	12	19.3	M05	NO
T00HF80240-08100	HSK F80 SF08-100-3°	8	100	8	70	26	14	21.3	M05	NO
T00HF80240-10100	HSK F80 SF10-100-3°	10	100	10	70	31	16	23.3	M08	NO
T00HF80240-12100	HSK F80 SF12-100-3°	12	100	12	70	36	18	25.3	M10	NO
T00HF80240-16100	HSK F80 SF16-100-3°	16	100	16	70	36	22	29.3	M12	NO
T00HF80240-20100	HSK F80 SF20-100-3°	20	100	20	70	41	27	34.3	M16	NO

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.

**Order Number Instruction**

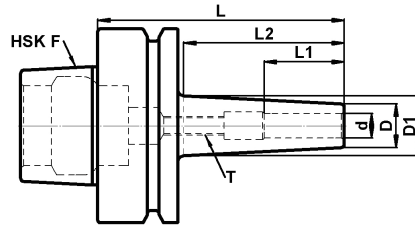
Order Number	Instruction
T00	Toolholder Code
HF40	Taper Type
240	Shrink Fit, 3°
-	
3	Cutting Tool Shank(d)
060	Projection Length (L)

SHRINK-FIT 3° - 240

3°

Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF40240A03102	HSK F40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.953"	0.59"	0.354"	0.664"	S10	NO
T00HF40240A05102	HSK F40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.953"	0.79"	0.433"	0.743"	S10	NO
T00HF40240A06102	HSK F40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.953"	0.87"	0.472"	0.782"	M05	NO
T00HF40240A08102	HSK F40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.953"	1.02"	0.551"	0.861"	M06	NO
T00HF40240A09102	HSK F40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.953"	1.22"	0.630"	0.939"	M08	NO
T00HF40240A12102	HSK F40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.953"	1.42"	0.709"	1.018"	M10	NO
T00HF40240A16102	HSK F40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.953"	1.54"	0.870"	1.180"	M12	NO

HSK F50 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF50240A03102	HSK F50 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HF50240A05102	HSK F50 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HF50240A06102	HSK F50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HF50240A08102	HSK F50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HF50240A09102	HSK F50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HF50240A12102	HSK F50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HF50240A16102	HSK F50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HF50240A19102	HSK F50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

HSK F63 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF63240A03102	HSK F63 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HF63240A05102	HSK F63 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HF63240A06102	HSK F63 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HF63240A08102	HSK F63 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HF63240A09102	HSK F63 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HF63240A12102	HSK F63 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HF63240A16102	HSK F63 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HF63240A19102	HSK F63 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

HSK F80 SHRINK FIT HOLDER 3° INCH

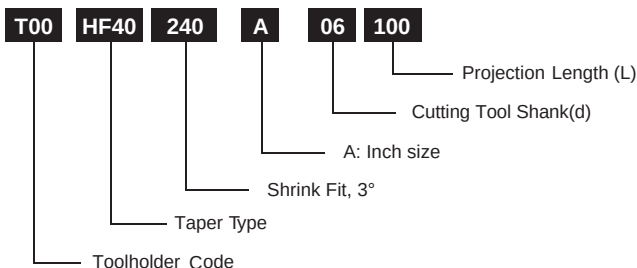
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00HF80240A03102	HSK F80 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.756"	0.59"	0.354"	0.643"	S10	NO
T00HF80240A05102	HSK F80 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.756"	0.79"	0.433"	0.722"	S10	NO
T00HF80240A06102	HSK F80 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.756"	0.87"	0.472"	0.761"	M05	NO
T00HF80240A08102	HSK F80 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.756"	1.02"	0.551"	0.840"	M06	NO
T00HF80240A09102	HSK F80 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.756"	1.22"	0.630"	0.919"	M08	NO
T00HF80240A12102	HSK F80 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.756"	1.42"	0.709"	0.997"	M10	NO
T00HF80240A16102	HSK F80 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.756"	1.54"	0.866"	1.155"	M12	NO
T00HF80240A19102	HSK F80 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.756"	1.61"	1.063"	1.352"	M16	NO

Note:

- Cutter Shank Tolerance:
1/8" and 3mm and 4mm: H4
3/16" and 5mm: H5
Larger than 1/4" and 6mm: H6
- For carbide and HSS tooling.



Order Number Instruction





INFINITE TOOL HOLDER

INFINITE Combination

INFINITE Flexibility

INFINITE Tooling efficiency

INFINITE Rigidity

INFINITE Performance,

and much more...

I SYSTEM TOOL HOLDER

I SYSTEM - IR BASE

I SYSTEM - IR EXTENSION BASE

IPE SYSTEM - IR BASE

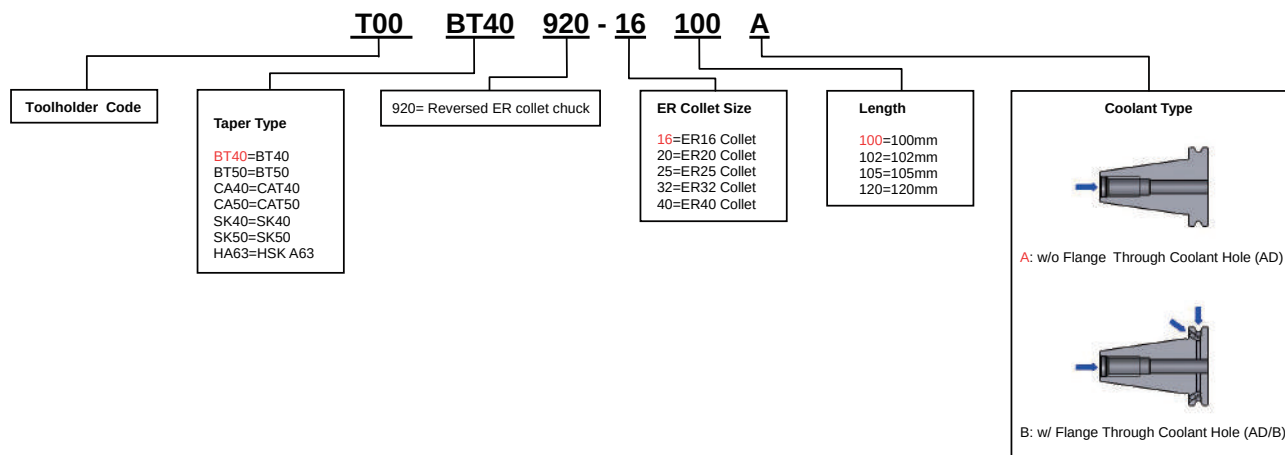
IPE SYSTEM - IR EXTENSION CHUCK

I SYSTEM TOOL HOLDERS (INFINITE)

Order Number Instruction

I SYSTEM Toolholder: Reversed ER Collet Chuck

Example: T00BT40920-16100A

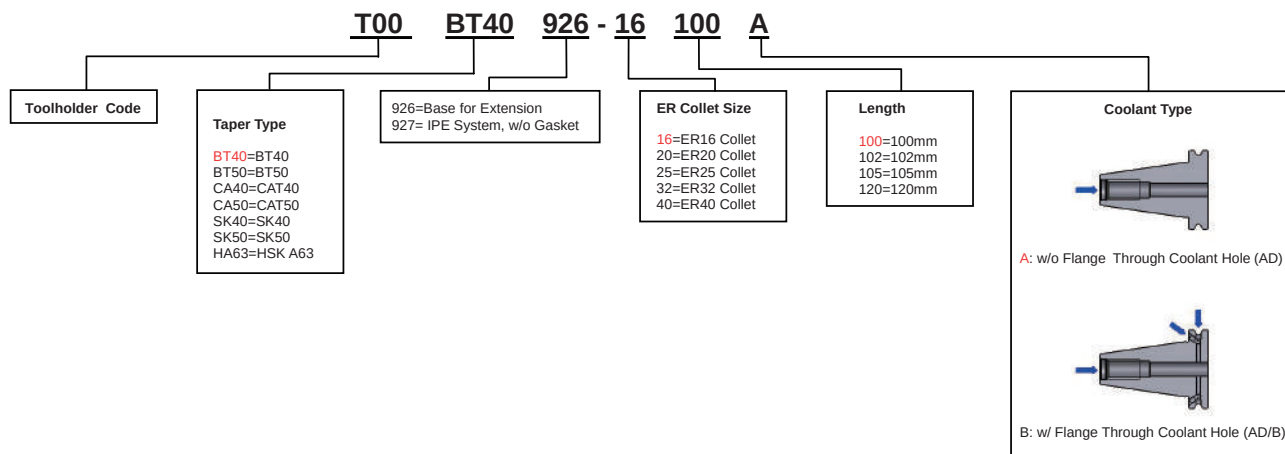


Note

Example: **T00BT40920-16100A** Reversed Collet Chuck, the part name is BT40 ER16-100-IN

I SYSTEM Toolholder: Base for Extension

Example: T00BT40926-16100A

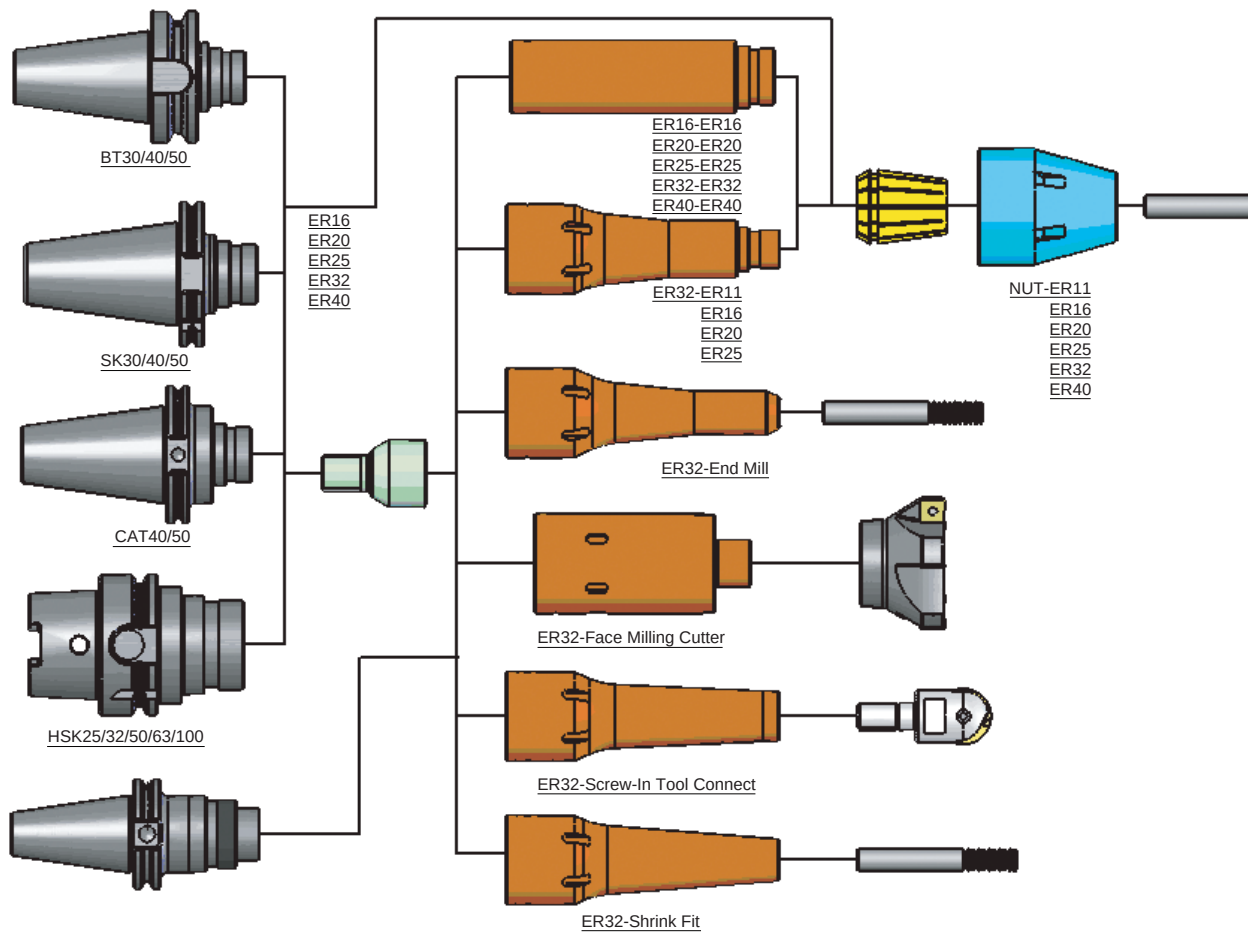


Note

- Example: **T00BT40926-16100** for base extension, part name is BT40 ER 16-100-EX
- Please refer to our I-system extensions for you appropriate assembly needs.

REVOLUTIONARY TOOL HOLDER MODULE

*Simultaneously providing flexibility and stability,
State of the art engineering and ingenuity make infinite combinations possible and simple.
Super powerful clamping force, surpassing conventional ER collet type or shrink fit chuck.*



With the invention of PrimeTool **INFINITE** SYSTEM, tooling system is getting smarter than ever. Imagine how different it will mean to your investment and machining requirements if one system can provide all the solutions you need for different applications!

PrimeTool makes the impossible task become a reality by introducing our **INFINITE** SYSTEM tooling system.

At present, high-precision metal machining, such as drilling, reaming, boring, thread milling, inner/outer diameter drilling, or surface milling, usually require many different types of toolholders and cutters. Therefore, huge efforts are required to procure toolholders for different specific functions. It is an even more daunting task to manage their various characteristics such as precision, clamping force, and different fields of applications.

PrimeTool **INFINITE** SYSTEM utilize the concept of modulization to resolve this problem. By using one patent toolholder base, we can add to it many different extension adapters, which will then be coupled with its specific cutters.

For example, as shown in our diagram, users can choose to connect to their toolholder base to an ER collet cutter or a face milling cutter simply by changing the extension adapter. Many functions can then be created by switching to different extension adapters. The length and diameter of the extension adapters can even be flexible to provide many different needs of applications.

BENEFITS AND ADVANTAGES

- **Interchangeability:**

With same assortment of extension adapters, **INFINITE** SYSTEM can be applied to all kinds of spindle types and provide a maximum combinations of choices and cost effectiveness.

- **Multiple-functions:**

Applicable to ER collets, end milling, combi shell milling, screw-in tool connect, shrink fit, and many more.

- **Superior clamping force:**

Reverse ER Collet-to-Nut assembly provides more contact area and friction force than traditional assembly.

- **Flexible in length:**

Multiple length extensions can meet customer's various applications.

- **Excellent concentricity:**

Shank with connector design or integrated shank design can offer excellent concentricity.

- **Minimized machining interference:**

Small-diameter nut design decreases machining interference.

- **Available for dual face contact:**

Improving machining precision and quality.

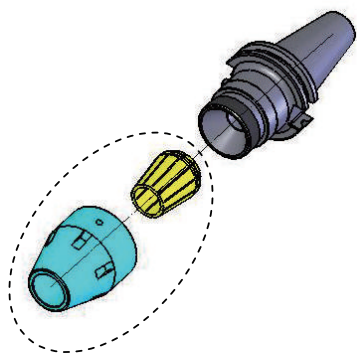
Fixture Connector



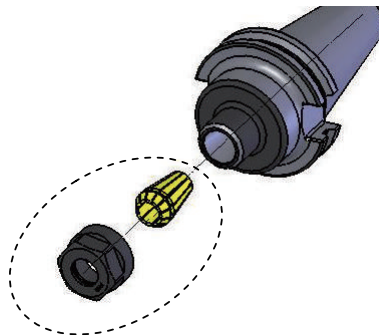
The **INFINITE** SYSTEM is extremely precise in terms of its concentricity, thanks to our patented design of an interior fixture connector between the toolholder base and the extension rod. This connector provides a very precise fit between the extension rod and toolholder base, and also enhances the overall tooling system rigidity.

Reversed Collet-to-Nut Design

Reversed Collet-to-Nut



Conventional Collet-to-Nut



INFINITE SYSTEM includes the special design of reversed mounting a conventional ER collet and its redesigned collet nut. Conventional ER collet clamping often results in insufficient clamping force when encountered with heavier cutting applications. In our new design, due to smaller nut front than conventional ER nut, the length of the cutter does not need to be extended as far while still adding much needed clearance in difficult and tight machining applications. This design increases the contact area of the cutter with the tool chuck apparatus, and reduces the impact of external forces, thus machining precision of the cutter is significantly improved.

For heavy duty machining applications, the **INFINITE** SYSTEM can easily meet any strict requirements for precision and efficiency.

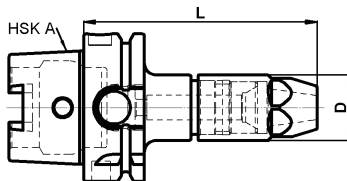
Now we bring you a “one that fits all” system. It not only replaces many specific function toolholders but also surpasses their performance in many ways!

REVERSED ER COLLET CHUCK - 920

32-40-50-63
80-100-125

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G6.3 25000 rpm
Option to G2.5 60000 rpm



HSK A32 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA32920-11080	HSK A32 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HA32920-16080	HSK A32 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"

HSK A40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA40920-11080	HSK A40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HA40920-16080	HSK A40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HA40920-20080	HSK A40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

HSK A50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA50920-11100	HSK A50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA50920-16100	HSK A50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA50920-20100	HSK A50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA50920-25100	HSK A50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA50920-32110	HSK A50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

HSK A63 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA63920-11100	HSK A63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA63920-16100	HSK A63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA63920-20100	HSK A63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA63920-25100	HSK A63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA63920-32110	HSK A63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA63920-40120	HSK A63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK A80 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA80920-11100	HSK A80 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA80920-16100	HSK A80 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA80920-20100	HSK A80 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA80920-25100	HSK A80 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA80920-32110	HSK A80 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA80920-40120	HSK A80 ER40-120-IN	ER40	120	3~26	63	120	4.72"

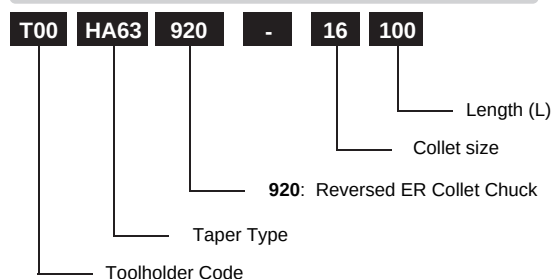
HSK A100 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA10920-16100	HSK A100 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA10920-20100	HSK A100 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA10920-25100	HSK A100 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA10920-32110	HSK A100 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA10920-40120	HSK A100 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK A125 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA12920-16100	HSK A125 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA12920-20100	HSK A125 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA12920-25100	HSK A125 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA12920-32110	HSK A125 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA12920-40120	HSK A125 ER40-120-IN	ER40	120	3~26	63	120	4.72"

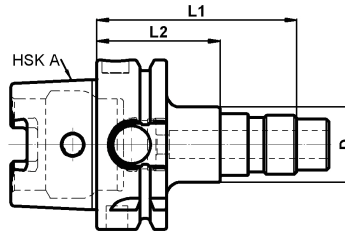
Order Number Instruction



HSK A - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm
Option to G2.5 25000 rpm



HSK A32 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"

HSK A40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80	x	19	63	45.0	3.15"
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80	x	28	55	26.0	3.15"
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80	x	34	52	25.0	3.15"

HSK A50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA50926-32120	HSK A50 IR32-120-EX	IR32	120	x	50	84	54.5	4.33"

HSK A63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100	x	19	83	65.0	3.94"
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA63926-32110G	HSK A63 IR32-110-EXG	IR32	110	x	50	74	44.5	4.33"
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"

HSK A80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"

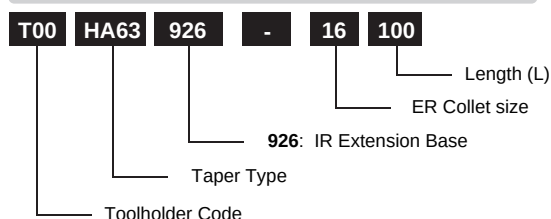
HSK A100 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100	x	19	83	65.0	3.94"
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA10926-32110G	HSK A100 IR32-110-EXG	IR32	110	x	50	74	44.5	4.33"
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120	x	85	79	50.5	4.72"

HSK A125 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100	x	50	75	46.0	3.94"
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100	x	50	72	45.0	3.94"
T00HA12926-25110	HSK A125 IR25-110-EX	IR25	110	x	50	79	48.0	4.33"
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120	x	85	79	50.5	4.72"

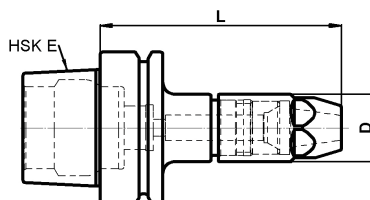
Order Number Instruction



REVERSED ER COLLET CHUCK - 920

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 $\pm$ 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E32 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE32920-11080	HSK E32 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HE32920-16080	HSK E32 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"

HSK E40 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE40920-11080	HSK E40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HE40920-16080	HSK E40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HE40920-20080	HSK E40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

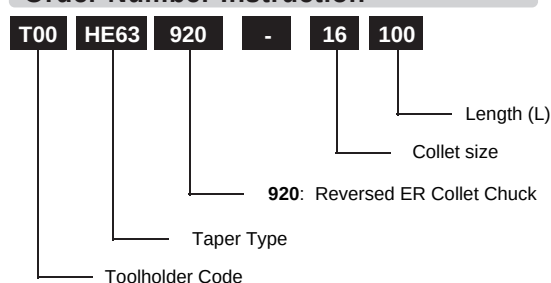
HSK E50 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE50920-11100	HSK E50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HE50920-16100	HSK E50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HE50920-20100	HSK E50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HE50920-25100	HSK E50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HE50920-32110	HSK E50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

HSK E63 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE63920-11100	HSK E63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HE63920-16100	HSK E63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HE63920-20100	HSK E63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HE63920-25100	HSK E63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HE63920-32110	HSK E63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HE63920-40120	HSK E63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

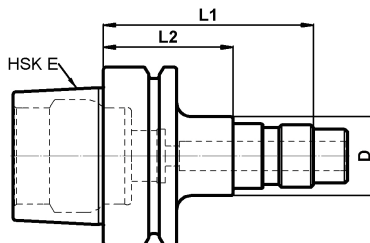
Order Number Instruction



HSK E - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK E25 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE25926-08040	HSK E25 IR08-040-EX	IR08	40	x	12	39	20.6	1.57"
T00HE25926-8S040	HSK E25 IR8S-040-EX	IR8S	40	x	16	39	20.6	1.57"
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50	x	19	33	15.0	1.97"

HSK E32 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"

HSK E40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80	x	19	63	45.0	3.15"
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80	x	28	55	26.0	3.15"
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80	x	34	52	25.0	3.15"

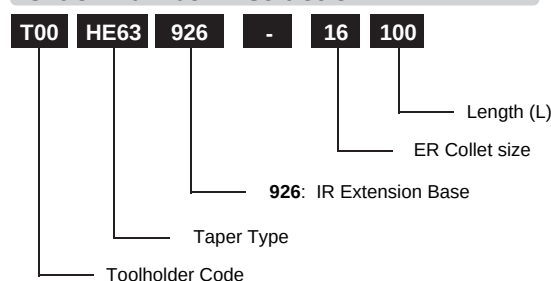
HSK E50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HE50926-25110	HSK E50 IR25-110-EX	IR25	110	x	42	79	48.0	4.33"
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120	x	50	84	54.5	4.72"

HSK E63 I SYSTEM, IR EXTENSION BASE METRIC

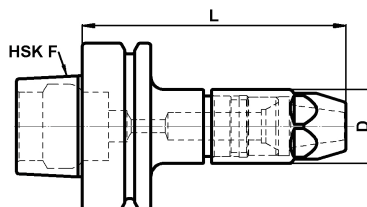
Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"

Order Number Instruction



Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF40920-11080	HSK F40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HF40920-16080	HSK F40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HF40920-20080	HSK F40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

HSK F50 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF50920-11100	HSK F50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF50920-16100	HSK F50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF50920-20100	HSK F50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF50920-25100	HSK F50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF50920-32110	HSK F50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

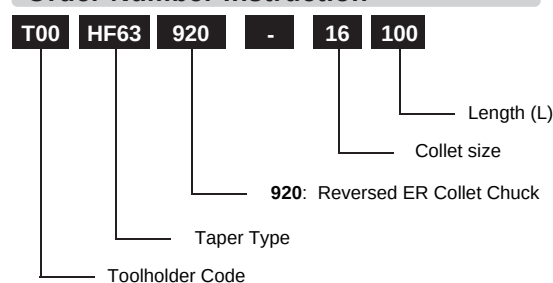
HSK F63 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF63920-11100	HSK F63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF63920-16100	HSK F63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF63920-20100	HSK F63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF63920-25100	HSK F63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF63920-32110	HSK F63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HF63920-40120	HSK F63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK F80 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF80920-11100	HSK F80 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF80920-16100	HSK F80 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF80920-20100	HSK F80 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF80920-25100	HSK F80 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF80920-32110	HSK F80 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HF80920-40120	HSK F80 ER40-120-IN	ER40	120	3~26	63	120	4.72"

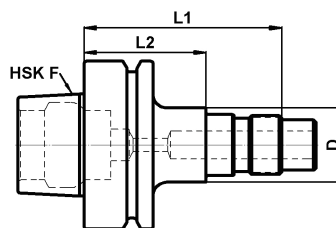
Order Number Instruction



HSK F - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: $\pm 0.003\text{mm}$
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm ($0.00012''$)
- Balance: G2.5 25000 rpm
Option to G2.5 60000 rpm



HSK F40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF40926-08050	HSK F40 ER08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF40926-8S050	HSK F40 ER8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF40926-11070	HSK F40 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF40926-16100	HSK F40 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF40926-20100	HSK F40 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"

HSK F50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF50926-08050	HSK F50 ER08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF50926-8S050	HSK F50 ER8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF50926-11070	HSK F50 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF50926-16100	HSK F50 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF50926-20100	HSK F50 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF50926-25110	HSK F50 ER25-110-EX	IR25	110	x	42	79	48.0	4.33"
T00HF50926-32120	HSK F50 ER32-120-EX	IR32	120	x	50	84	54.5	4.72"

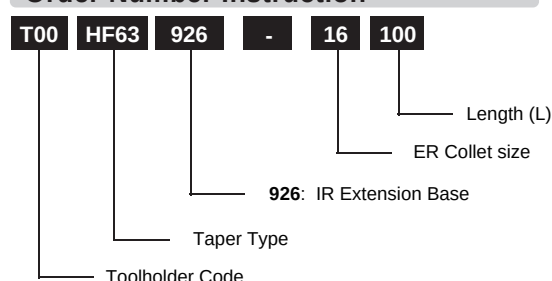
HSK F63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF63926-11070	HSK F63 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF63926-16100	HSK F63 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF63926-20100	HSK F63 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF63926-25100	HSK F63 ER25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HF63926-32100	HSK F63 ER32-100-EX	IR32	100	x	50	64	34.5	3.94"
T00HF63926-40120	HSK F63 ER40-120-EX	IR40	120	x	63	79	50.5	4.72"

HSK F80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF80926-11070	HSK F80 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF80926-16100	HSK F80 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF80926-20100	HSK F80 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF80926-25100	HSK F80 ER25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HF80926-32110	HSK F80 ER32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HF80926-40120	HSK F80 ER40-120-EX	IR40	120	x	63	79	50.5	4.72"

Order Number Instruction



I SYSTEM TOOL HOLDERS - IR EXTENSION



926
Extension Shank
IR BASE
T12ERXX926-XXXXX



926
Extension Shank
STRAIGHT BASE
T12SSXX926-XXXXX



926
Extension Shank
LATHE BASE W/FLAT
T12SSXX926-XXXXXL



M20
ER Collet Chuck
MINI NUT
T12ERXXM20-XXXXX



020
ER Collet Chuck
T12ERXX020-XXXXX



920
ER Collet Chuck
REVERSE
T12ERXX920-XXXXXX



030
End Mill Holder
COOLANT SLOT
T12ERXX030-XXXXX



040
End Mill Holder
T12ERXX040-XXXXX



050
End Mill Holder
WHISTLE
T12ERXX050-XXXXX



120
Shell Milling Holder
T12ERXX120-XXXXX



130
Shell Milling Holder
COOLANT SLOT
T12ERXX130-XXXXX



200
Screw-In Chuck
T12ERXX200-XXXXX



210
Slim Collet Chuck
T12ERXX210-XXXXX



220
Shrink-Fit Holder
4.5°
T12ERXX220-XXXXX



230
Shrink-Fit Holder
4.5° SLIM
T12ERXX230-XXXXX



240
ShrinkFit Holder
3°
T12ERXX240-XXXXX



250
ShrinkFit Holder
3° SLIM
T12ERXX250-XXXXX

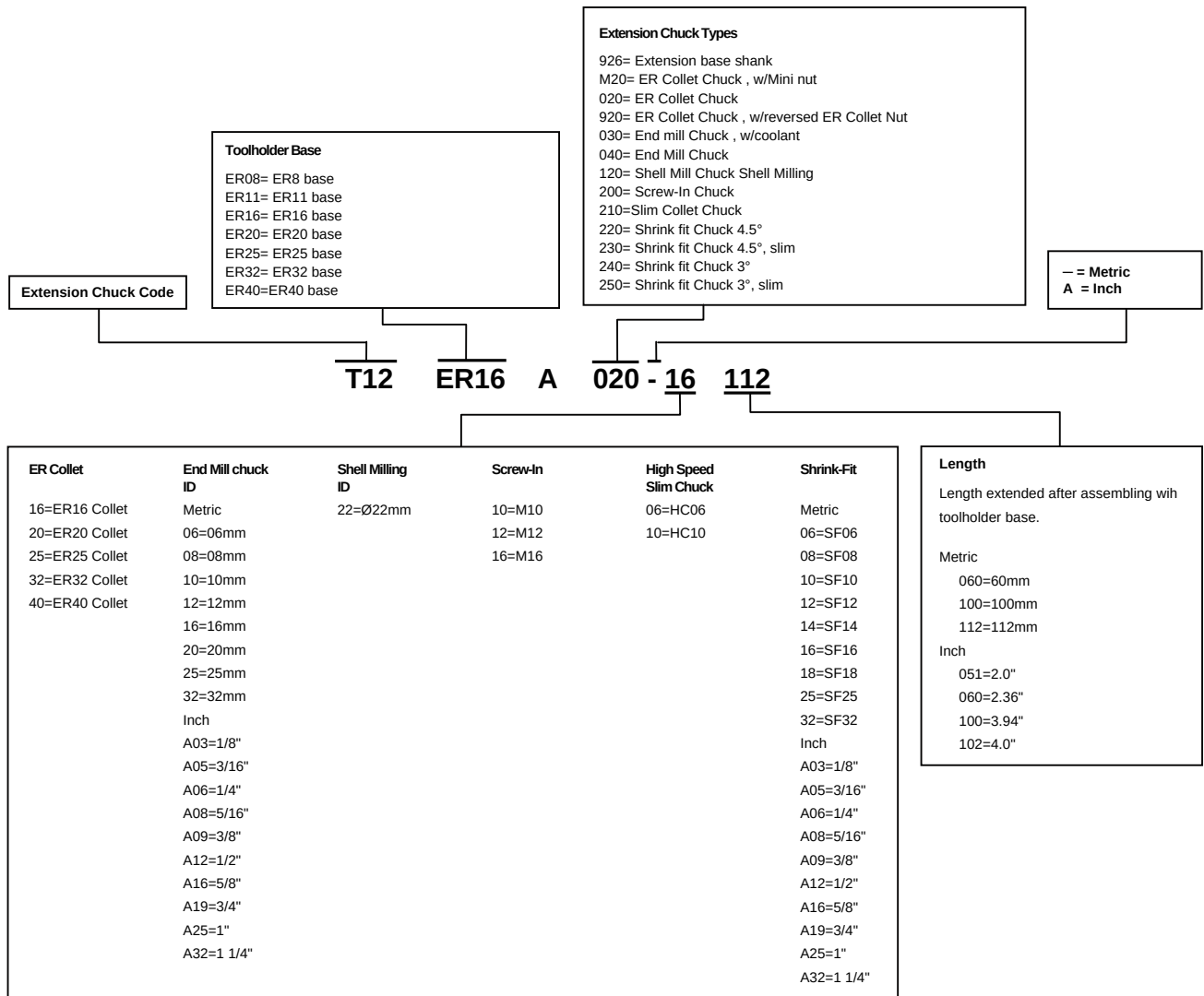


310
Blank
EXTENSION
T12ERXX310-XXXXX



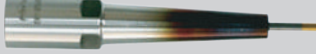
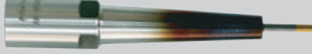
G000
Test Arbor
EXTENSION
T12ERXXG000-XXXXX

Order No Instruction



I SYSTEM TOOL HOLDERS (INFINITE)

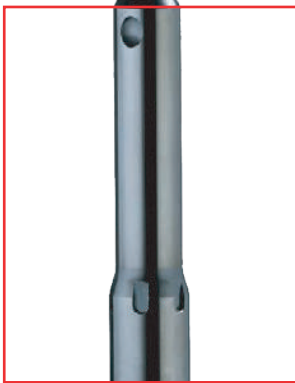
EXTENSION CHUCK

926 IR EXTENSION BASE			
926 STRAIGHT BASE			
926 LATHE BASE FLAT			
M20 ER COLLET CHUCK MINI NUT		020 ER COLLET CHUCK	
920 ER COLLET CHUCK REVERSED			
030 END MILL HOLDER COOLANT SLOT		040 END MILL CHUCK	
050 END MILL HOLDER WHISTLE			
120 SHELL MILL HOLDER		130 SHELL MILL ADAPTER COOLANT SLOT	
200 SCREW-IN CHUCK			
210 SLIM COLLET CHUCK			
220 SHRINK FIT 4.5°		230 SHRINK FIT 4.5° SLIM	
240 SHRINK FIT 3°		250 SHRINK FIT 3° SLIM	

I SYSTEM TOOL HOLDERS (INFINITE)

End Mill Holder Extension

Interchangeable between
ER Collet Chuck,
Screw-In Chuck,
High Speed Slim Chuck,
Shrink Fit Chuck and more.



BT40 Toolholder Base

Interchangeable between
BT50, CAT40, CAT50,
SK40, SK50, HSK A63,
HSK A100 Toolholder Base.



End Mill Holder Extension

Interchangeable between
ER Collet Chuck,
Screw-In Chuck,
High Speed Slim Chuck,
Shrink Fit Chuck and more.



Extension Base



Extension Base



BT40 Toolholder Base

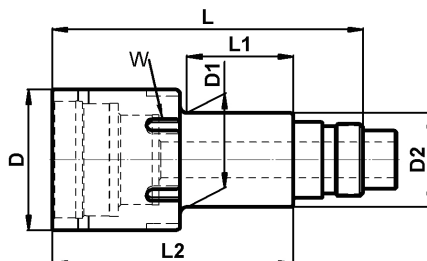
Interchangeable between
BT50, CAT40, CAT50,
SK40, SK50, HSK A63,
HSK A100 Toolholder Base.



IR EXTENSION BASE - 926 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



IR EXTENSION BASE METRIC

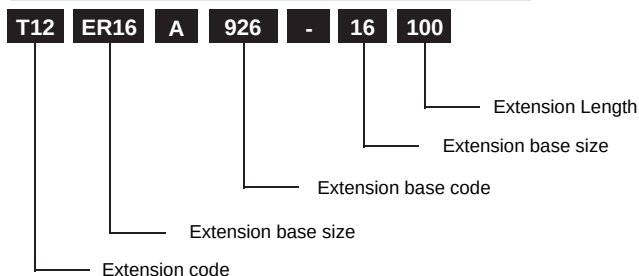
Order Number	Part Name	Base	Extension		D	D1	D2	L	L1	L2	W Wrench
			Size	Length							
T12ER08A926-08035	IR08-IR08-035-EX	IR08	IR08	35	12	12	12	54	X	35	T07IR0801
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	12	12	12	69	X	50	T07IR0801
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	12	12	12	119	X	100	T07IR0801
T12ER8SA926-08050	IR8S-IR08-050-EX	IR8S	IR08	50	16	14	12	69	14	50	T07IR8S01
T12ER8SA926-08100	IR8S-IR08-100-EX	IR8S	IR08	100	16	16	12	119	46	100	T07IR8S01
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	16	16	16	69	X	50	T07IR8S01
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	16	16	16	119	X	100	T07IR8S01
T12ER11A926-08020	IR11-IR08-020-EX	IR11	IR08	20	19	12	12	54	X	36	T07ER1101
T12ER11A926-08050	IR11-IR08-050-EX	IR11	IR08	50	19	15	12	84	29	66	T07ER1101
T12ER11A926-08070	IR11-IR08-070-EX	IR11	IR08	70	19	17	12	104	49	86	T07ER1101
T12ER11A926-08100	IR11-IR08-100-EX	IR11	IR08	100	19	19	12	134	80	116	T07ER1101
T12ER11A926-8S050	IR11-IR8S-050-EX	IR11	IR8S	50	19	16	16	84	29	66	T07ER1101
T12ER11A926-8S070	IR11-IR8S-070-EX	IR11	IR8S	70	19	16	16	104	49	86	T07ER1101
T12ER11A926-8S100	IR11-IR8S-100-EX	IR11	IR8S	100	19	16	16	134	79	116	T07ER1101
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	19	19	19	118	x	100	T07ER1101
T12ER11A926-11200	IR11-IR11-200-EX	IR11	IR11	200	19	19	19	218	x	200	T07ER1101
T12ER16A926-11050	IR16-IR11-050-EX	IR16	IR11	50	28	28	28	87	x	69	T07ER1601
T12ER16A926-11100	IR16-IR11-100-EX	IR16	IR11	100	28	19	19	137	55	119	T07ER1601
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	28	28	28	129	X	100	T07ER1601
T12ER16A926-16112	IR16-IR16-112-EX	IR16	IR16	112	28	28	28	141	x	112	T07ER1601
T12ER16A926-16200	IR16-IR16-200-EX	IR16	IR16	200	28	28	28	229	X	200	T07ER1601
T12ER20A926-16050	IR20-IR16-050-EX	IR20	IR16	50	34	34	34	80	X	51	T07IR2004
T12ER20A926-16100	IR20-IR16-100-EX	IR20	IR16	100	34	28	28	130	53	101	T07IR2004
T12ER20A926-16112	IR20-IR16-112-EX	IR20	IR16	112	34	28	28	142	65	113	T07IR2004
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	34	34	34	127	x	100	T07IR2004
T12ER20A926-20112	IR20-IR20-112-EX	IR20	IR20	112	34	34	34	139	x	112	T07IR2004
T12ER20A926-20200	IR20-IR20-200-EX	IR20	IR20	200	34	34	34	227	x	200	T07IR2004
T12ER25A926-16050	IR25-IR16-050-EX	IR25	IR16	50	42	42	42	87	x	58	T07ER2502
T12ER25A926-16100	IR25-IR16-100-EX	IR25	IR16	100	42	28	28	137	47	108	T07ER2502
T12ER25A926-16112	IR25-IR16-112-EX	IR25	IR16	112	42	28	28	149	59	120	T07ER2502
T12ER25A926-20050	IR25-IR20-050-EX	IR25	IR20	50	42	42	42	84	x	57	T07ER2502
T12ER25A926-20100	IR25-IR20-100-EX	IR25	IR20	100	42	34	34	134	46	107	T07ER2502
T12ER25A926-20112	IR25-IR20-112-EX	IR25	IR20	112	42	34	34	146	58	119	T07ER2502
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	42	42	42	131	x	100	T07IR2504
T12ER25A926-25112	IR25-IR25-112-EX	IR25	IR25	112	42	42	42	143	x	112	T07IR2504
T12ER25A926-25200	IR25-IR25-200-EX	IR25	IR25	200	42	42	42	231	x	200	T07IR2504
T12ER32A926-16050	IR32-IR16-050-EX	IR32	IR16	50	50	34	34	90	4	62	T07ER3202
T12ER32A926-16100	IR32-IR16-100-EX	IR32	IR16	100	50	28	28	140	54	112	T07ER3202
T12ER32A926-20050	IR32-IR20-050-EX	IR32	IR20	50	50	50	50	87	x	61	T07ER3202
T12ER32A926-20100	IR32-IR20-100-EX	IR32	IR20	100	50	34	34	137	40	111	T07ER3202
T12ER32A926-25055	IR32-IR25-050-EX	IR32	IR25	50	50	50	50	90	x	59	T07ER3202
T12ER32A926-25100	IR32-IR25-100-EX	IR32	IR25	100	50	42	42	135	77	104	T07ER3202
T12ER32A926-25112	IR32-IR25-112-EX	IR32	IR25	112	50	42	42	147	55	116	T07ER3202
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	50	50	50	129	x	100	T07IR3204
T12ER32A926-32200	IR32-IR32-200-EX	IR32	IR32	200	50	50	50	229	x	200	T07IR3204
T12ER40A926-25060	IR40-IR25-060-EX	IR40	IR25	60	63	42	42	89	10	108	T07ER4002
T12ER40A926-25100	IR40-IR25-100-EX	IR40	IR25	100	63	42	42	139	50	108	T07ER4002
T12ER40A926-25112	IR40-IR25-112-EX	IR40	IR25	112	63	42	42	151	62	120	T07ER4002
T12ER40A926-32060	IR40-IR32-060-EX	IR40	IR32	60	63	50	50	93	47	104	T07ER4002
T12ER40A926-32100	IR40-IR32-100-EX	IR40	IR32	100	63	50	50	133	47	104	T07ER4002
T12ER40A926-32112	IR40-IR32-112-EX	IR40	IR32	112	63	50	50	145	57	116	T07ER4002
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	63	63	63	129	x	100	T07IR4004
T12ER40A926-40112	IR40-IR40-112-EX	IR40	IR40	112	63	63	63	141	x	112	T07IR4004
T12ER40A926-41100	IR40-IR41-100-EX	IR40	IR41	100	63	70	70	129	40	100	T07IR4004
T12ER40A926-42100	IR40-IR42-100-EX	IR40	IR42	100	63	85	85	129	40	100	T07IR4004
T12ER41A926-41100	IR41-IR41-100-EX	IR41	IR41	100	70	70	70	129	x	100	T07IR4104
T12ER41A926-42100	IR41-IR42-100-EX	IR41	IR42	100	70	85	85	129	40	100	T07IR4104
T12ER42A926-42100	IR42-IR42-100-EX	IR42	IR42	100	85	85	85	129	x	100	T07IR4204

IR EXTENSION BASE - 926 EXTENSION

IR EXTENSION BASE INCH

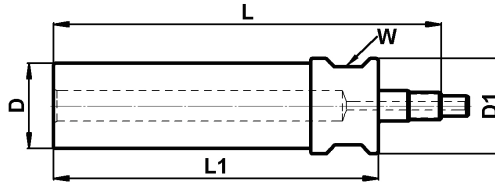
Order Number	Part Name	Base	Extension		D	D1	D2	L	L1	L2	W Wrench
			Size	Length							
T12ER08A926A08034	IR08-IR08-1.32"-EX	IR08	IR08	1.32"	0.470"	0.470"	0.470"	2.047"	x	1.32"	T07IR0801
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	0.470"	0.470"	0.470"	2.728"	x	2.00"	T07IR0801
T12ER08A926A08072	IR08-IR08-2.84"-EX	IR08	IR08	2.84"	0.470"	0.470"	0.470"	3.547"	x	2.84"	T07IR0801
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	0.470"	0.470"	0.470"	4.728"	x	4.00"	T07IR0801
T12ER8SA926A08102	IR8S-IR08-4"-EX	IR8S	IR08	4.00"	0.630"	0.470"	0.470"	4.728"	1.803"	4.00"	T07IR8S01
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	0.630"	0.630"	0.630"	4.728"	x	4.00"	T07IR8S01
T12ER8SA926A8S127	IR8S-IR8S-5"-EX	IR8S	IR8S	5.00"	0.630"	0.630"	0.630"	5.728"	x	5.00"	T07IR8S01
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	0.750"	0.750"	0.750"	4.709"	x	4.00"	T07IR1101
T12ER11A926A11127	IR11-IR11-5"-EX	IR11	IR11	5.00"	0.750"	0.750"	0.750"	5.709"	x	5.00"	T07IR1101
T12ER11A926A11203	IR11-IR11-8"-EX	IR11	IR11	8.00"	0.750"	0.750"	0.750"	8.709"	x	8.00"	T07IR1101
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1.103"	1.103"	1.103"	5.122"	x	4.00"	T07IR1601
T12ER16A926A16127	IR16-IR16-5"-EX	IR16	IR16	5.00"	1.103"	1.103"	1.103"	6.122"	x	5.00"	T07IR1601
T12ER16A926A16203	IR16-IR16-8"-EX	IR16	IR16	8.00"	1.103"	1.103"	1.103"	9.122"	x	8.00"	T07IR1601
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	1.340"	1.340"	1.340"	5.043"	x	4.00"	T07IR2004
T12ER20A926A20127	IR20-IR20-5"-EX	IR20	IR20	5.00"	1.340"	1.340"	1.340"	6.043"	x	5.00"	T07IR2004
T12ER20A926A20203	IR20-IR20-8"-EX	IR20	IR20	8.00"	1.340"	1.340"	1.340"	9.043"	x	8.00"	T07IR2004
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	1.660"	1.660"	1.660"	5.221"	x	4.00"	T07IR2504
T12ER25A926A25127	IR25-IR25-5"-EX	IR25	IR25	5.00"	1.660"	1.660"	1.660"	6.221"	x	5.00"	T07IR2504
T12ER25A926A25203	IR25-IR25-8"-EX	IR25	IR25	8.00"	1.660"	1.660"	1.660"	9.221"	x	8.00"	T07IR2504
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	1.970"	1.970"	1.970"	5.142"	x	4.00"	T07IR3204
T12ER32A926A32127	IR32-IR32-5"-EX	IR32	IR32	5.00"	1.970"	1.970"	1.970"	6.142"	x	5.00"	T07IR3204
T12ER32A926A32203	IR32-IR32-8"-EX	IR32	IR32	8.00"	1.970"	1.970"	1.970"	9.142"	x	8.00"	T07IR3204
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	2.480"	2.480"	2.480"	5.122"	x	4.00"	T07IR4004
T12ER40A926A40127	IR40-IR40-5"-EX	IR40	IR40	5.00"	2.480"	2.480"	2.480"	6.122"	x	5.00"	T07IR4004
T12ER41A926A41102	IR41-IR41-4"-EX	IR41	IR41	4.00"	2.750"	2.750"	2.750"	5.122"	x	4.00"	T07IR4104
T12ER41A926A42102	IR41-IR42-4"-EX	IR41	IR42	4.00"	2.750"	3.350"	3.350"	5.122"	x	4.00"	T07IR4104

Order Number Instruction



Quality

- Shaft tolerance: H4
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



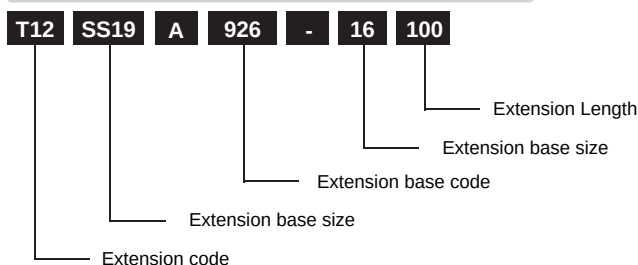
IR EXTENSION BASE STRAIGHT METRIC

Order Number	Part Name	Base	Extension Size	Length	D	D1	L	L1	W Wrench
T12SS08A926-8S096	SS8-IR8S-096-EX	SS08	IR8S	96	8	16	123	96	T07IR8S01
T12SS08A926-11096	SS8-IR11-096-EX	SS08	IR11	96	8	19	125	96	T07ER1101
T12SS12A926-11096	SS12-IR11-096-EX	SS12	IR11	96	12	19	125	96	T07ER1101
T12SS12A926-16096	SS12-IR16-096-EX	SS12	IR16	96	12	28	138	96	T07ER1601
T12SS16A926-11096	SS16-IR11-096-EX	SS16	IR11	96	16	19	125	96	T07ER1101
T12SS16A926-16096	SS16-IR16-096-EX	SS16	IR16	96	16	28	138	96	T07ER1601
T12SS19A926-8S096	SS19-IR8S-096-EX	SS19	IR8S	96	19	19	123	96	T07IR8S01
T12SS19A926-11096	SS19-IR11-096-EX	SS19	IR11	96	19	19	125	96	T07ER1101
T12SS19A926-16096	SS19-IR16-096-EX	SS19	IR16	96	19	28	138	96	T07ER1601
T12SS19A926-22096	SS19-IR20-096-EX	SS19	IR20	96	19	34	138	96	T07IR2004
T12SS19A926-25096	SS19-IR25-096-EX	SS19	IR25	96	19	42	143	96	T07IR2504
T12SS19A926-32096	SS19-IR32-096-EX	SS19	IR32	96	19	50	140	96	T07IR3204
T12SS25A926-11096	SS25-IR11-096-EX	SS25	IR11	96	25	19	125	96	T07ER1101
T12SS25A926-16096	SS25-IR16-096-EX	SS25	IR16	96	25	28	138	96	T07ER1601
T12SS25A926-20096	SS25-IR20-096-EX	SS25	IR20	96	25	34	138	96	T07IR2004
T12SS25A926-25096	SS25-IR25-096-EX	SS25	IR25	96	25	42	143	96	T07IR2504
T12SS25A926-32096	SS25-IR32-096-EX	SS25	IR32	96	25	50	140	96	T07IR3204
T12SS25A926-40096	SS25-IR40-096-EX	SS25	IR40	96	25	63	140	96	T07IR4004

IR EXTENSION BASE STRAIGHT INCH

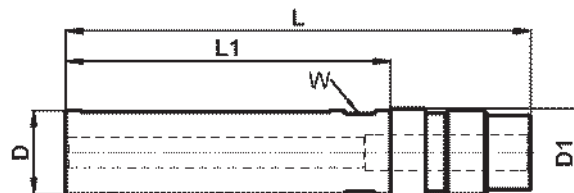
Order Number	Part Name	Base	Extension Size	Length	D	D1	L	L1	W Wrench
T12SS08A926A8S096	SS5/16"-IR8S-3.78"-EX	SS5/16"	IR8S	3.78"	5/16"	0.63"	4.823"	3.78"	T07IR8S01
T12SS08A926A11096	SS5/16"-IR11-3.78"-EX	SS5/16"	IR11	3.78"	5/16"	0.75"	4.921"	3.78"	T07ER1101
T12SS12A926A11096	SS1/2"-IR11-3.78"-EX	SS1/2"	IR11	3.78"	1/2"	0.75"	4.921"	3.78"	T07ER1101
T12SS12A926A16096	SS1/2"-IR16-3.78"-EX	SS1/2"	IR16	3.78"	1/2"	0.75"	5.413"	3.78"	T07ER1601
T12SS16A926A11096	SS5/8"-IR11-3.78"-EX	SS5/8"	IR11	3.78"	5/8"	0.75"	4.921"	3.78"	T07ER1101
T12SS16A926A16096	SS5/8"-IR16-3.78"-EX	SS5/8"	IR16	3.78"	5/8"	1.10"	5.413"	3.78"	T07ER1601
T12SS19A926A8S096	SS3/4"-IR8S-3.78"-EX	SS3/4"	IR8S	3.78"	3/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS19A926A11096	SS3/4"-IR11-3.78"-EX	SS3/4"	IR11	3.78"	3/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS19A926A16096	SS3/4"-IR16-3.78"-EX	SS3/4"	IR16	3.78"	3/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS19A926A20096	SS3/4"-IR20-3.78"-EX	SS3/4"	IR20	3.78"	3/4"	1.34"	5.413"	3.78"	T07IR2004
T12SS19A926A25096	SS3/4"-IR25-3.78"-EX	SS3/4"	IR25	3.78"	3/4"	1.34"	5.630"	3.78"	T07IR2504
T12SS19A926A32096	SS3/4"-IR32-3.78"-EX	SS3/4"	IR32	3.78"	3/4"	1.34"	5.512"	3.78"	T07IR3204
T12SS25A926A11096	SS1"-IR11-3.78"-EX	SS1"	IR11	3.78"	1"	0.75"	4.921"	3.78"	T07ER1101
T12SS25A926A16096	SS1"-IR16-3.78"-EX	SS1"	IR16	3.78"	1"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A20096	SS1"-IR20-3.78"-EX	SS1"	IR20	3.78"	1"	1.34"	5.413"	3.78"	T07IR2004
T12SS25A926A25096	SS1"-IR25-3.78"-EX	SS1"	IR25	3.78"	1"	1.66"	5.630"	3.78"	T07IR2504
T12SS25A926A32096	SS1"-IR32-3.78"-EX	SS1"	IR32	3.78"	1"	1.97"	5.512"	3.78"	T07IR3204
T12SS25A926A40096	SS1"-IR40-3.78"-EX	SS1"	IR40	3.78"	1"	1.97"	5.492"	3.78"	T07IR4004

Order Number Instruction



Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



IR EXTENSION BASE LATHE w/FLAT METRIC

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS16A926-8S096L	SS16-IR8S-096-EXL	SS16	IR8S	96	16	16	122.5	96	T07IR8S01
T12SS16A926-11096L	SS16-IR11-096-EXL	SS16	IR11	96	16	19	125.0	96	T07ER1101
T12SS16A926-16096L	SS16-IR16-096-EXL	SS16	IR16	96	16	28	137.5	96	T07ER1601
T12SS20A926-8S096L	SS20-IR8S-096-EXL	SS20	IR8S	96	20	16	122.5	96	T07IR8S01
T12SS20A926-11096L	SS20-IR11-096-EXL	SS20	IR11	96	20	19	125.0	96	T07ER1101
T12SS20A926-16096L	SS20-IR16-096-EXL	SS20	IR16	96	20	28	137.5	96	T07ER1601
T12SS22A926-8S018L	SS22-IR8S-018-EXL	SS22	IR8S	18	22	16	67.7	43	T07IR8S01
T12SS25A926-8S096L	SS25-IR8S-096-EXL	SS25	IR8S	96	25	16	122.5	96	T07IR8S01
T12SS25A926-11096L	SS25-IR11-096-EXL	SS25	IR11	96	25	19	125.0	96	T07ER1101
T12SS25A926-16096L	SS25-IR16-096-EXL	SS25	IR16	96	25	28	137.5	96	T07ER1601
T12SS25A926-20096L	SS25-IR20-096-EXL	SS25	IR20	96	25	34	137.5	96	T07IR2004
T12SS25A926-25096L	SS25-IR25-096-EXL	SS25	IR25	96	25	42	143.0	96	T07IR2504
T12SS25A926-32096L	SS25-IR32-096-EXL	SS25	IR32	96	25	50	140.0	96	T07IR3204
T12SS25A926-40096L	SS25-IR40-096-EXL	SS25	IR40	96	25	63	139.5	96	T07IR4004
T12SS32A926-8S096L	SS32-IR8S-096-EXL	SS32	IR8S	96	32	16	122.5	96	T07IR8S01
T12SS32A926-11096L	SS32-IR11-096-EXL	SS32	IR11	96	32	19	125.0	96	T07ER1101
T12SS32A926-16096L	SS32-IR16-096-EXL	SS32	IR16	96	32	28	137.5	96	T07ER1601
T12SS32A926-20096L	SS32-IR20-096-EXL	SS32	IR20	96	32	34	137.5	96	T07IR2004
T12SS32A926-25096L	SS32-IR25-096-EXL	SS32	IR25	96	32	42	143.0	96	T07IR2504
T12SS32A926-32096L	SS32-IR32-096-EXL	SS32	IR32	96	32	50	140.0	96	T07IR3204
T12SS32A926-40096L	SS32-IR40-096-EXL	SS32	IR40	96	32	63	139.5	96	T07IR4004

IR EXTENSION BASE LATHE w/FLAT INCH

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS19A926A8S096L	SS3/4"-IR8S-3.78"-EXL	SS3/4"	IR8S	3.78"	3/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS19A926A11096L	SS3/4"-IR11-3.78"-EXL	SS3/4"	IR11	3.78"	3/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS19A926A16096L	SS3/4"-IR16-3.78"-EXL	SS3/4"	IR16	3.78"	3/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A8S096L	SS1"-IR8S-3.78"-EXL	SS1"	IR8S	3.78"	1"	0.63"	4.823"	3.78"	T07IR8S01
T12SS25A926A11096L	SS1"-IR11-3.78"-EXL	SS1"	IR11	3.78"	1"	0.75"	4.921"	3.78"	T07ER1101
T12SS25A926A16096L	SS1"-IR16-3.78"-EXL	SS1"	IR16	3.78"	1"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A20096L	SS1"-IR20-3.78"-EXL	SS1"	IR20	3.78"	1"	1.34"	5.413"	3.78"	T07IR2004
T12SS25A926A25096L	SS1"-IR25-3.78"-EXL	SS1"	IR25	3.78"	1"	1.66"	5.630"	3.78"	T07IR2504
T12SS25A926A32096L	SS1"-IR32-3.78"-EXL	SS1"	IR32	3.78"	1"	1.97"	5.512"	3.78"	T07IR3204
T12SS25A926A40096L	SS1"-IR40-3.78"-EXL	SS1"	IR40	3.78"	1"	1.97"	5.492"	3.78"	T07IR4004
T12SS32A926A8S096L	SS1 1/4"-IR8S-3.78"-EXL	SS1 1/4"	IR8S	3.78"	1 1/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS32A926A11096L	SS1 1/4"-IR11-3.78"-EXL	SS1 1/4"	IR11	3.78"	1 1/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS32A926A16096L	SS1 1/4"-IR16-3.78"-EXL	SS1 1/4"	IR16	3.78"	1 1/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS32A926A20096L	SS1 1/4"-IR20-3.78"-EXL	SS1 1/4"	IR20	3.78"	1 1/4"	1.34"	5.413"	3.78"	T07IR2004
T12SS32A926A25096L	SS1 1/4"-IR25-3.78"-EXL	SS1 1/4"	IR25	3.78"	1 1/4"	1.66"	5.630"	3.78"	T07IR2504
T12SS32A926A32096L	SS1 1/4"-IR32-3.78"-EXL	SS1 1/4"	IR32	3.78"	1 1/4"	1.97"	5.512"	3.78"	T07IR3204
T12SS32A926A40096L	SS1 1/4"-IR40-3.78"-EXL	SS1 1/4"	IR40	3.78"	1 1/4"	1.97"	5.492"	3.78"	T07IR4004

Order Number Instruction

T12	SS16	A	926	-	16	100	L	Lathe base code - w/ Flat	
							Extension Length		
							Extension base size		
							Extension base code		
							Shank base - OD size code		
							Extension code		

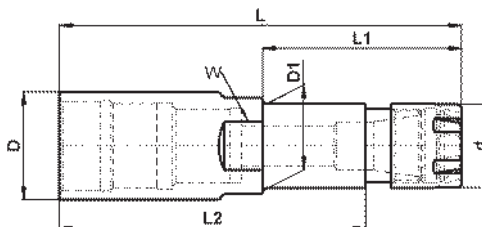


ER COLLET CHUCK MINI NUT - M20 EXTENSION

MINI NUT

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 2500rpm



ER COLLET CHUCK MINI NUT METRIC

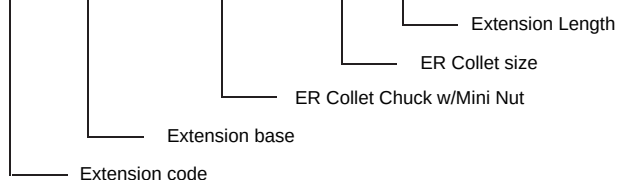
Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	12	12	12	79.4	x	62.4	T07IR0801
T12ER08AM20-08090	IR08-ER08-090M	IR08	ER08M	90	12	12	12	109.4	x	92.4	T07IR0801
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	12	12	12	119.4	x	102.4	T07IR0801
T12ER08AM20-08130	IR08-ER08-130M	IR08	ER08M	130	12	12	12	149.4	x	132.4	T07IR0801
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	16	12	12	80	51	63	T07IR8S01
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	16	12	12	120	91	133	T07IR8S01
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	16	16	16	49.4	x	30.8	T07IR8S01
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	16	16	16	79.4	x	60.8	T07IR8S01
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	16	16	16	119.4	x	100.8	T07IR8S01
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	19	12	12	95	59	79	T07ER1101
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	19	12	12	135	99	119	T07ER1101
T12ER11AM20-11023	IR11-ER11-023M	IR11	ER11M	23	19	16	16	58	22	40	T07ER1101
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	19	16	16	95	59	76.4	T07ER1101
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	19	16	16	135	99	116.4	T07ER1101
T12ER16AM20-11060	IR16-ER11-060M	IR16	ER11M	60	28	16	16	114	61	95.4	T07ER1601
T12ER16AM20-11100	IR16-ER11-100M	IR16	ER11M	100	28	16	16	154	101	135.4	T07ER1601
T12ER16AM20-16060	IR16-ER16-060M	IR16	ER16M	60	28	22	22	114	61	89	T07ER1601
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	28	22	22	154	101	129	T07ER1601
T12ER16AM20-20060	IR16-ER20-060M	IR16	ER20M	60	28	28	28	114	x	86	T07ER1601
T12ER16AM20-20100	IR16-ER20-100M	IR16	ER20M	100	28	28	28	154	x	126	T07ER1601

ER COLLET CHUCK MINI NUT INCH

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	0.47"	0.47"	0.47"	2.79"	x	2.14"	T07IR0801
T12ER08AM20A08081	IR08-ER08-3.19"M	IR08	ER08M	3.19"	0.47"	0.47"	0.47"	3.97"	x	3.32"	T07IR0801
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	0.47"	0.47"	0.47"	4.79"	x	4.20"	T07IR0801
T12ER08AM20A08132	IR08-ER08-5.19"M	IR08	ER08M	5.19"	0.47"	0.47"	0.47"	5.97"	x	5.32"	T07IR0801
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	0.63"	0.47"	0.47"	2.79"	1.65"	2.14"	T07IR8S01
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	0.63"	0.47"	0.47"	4.79"	3.65"	4.14"	T07IR8S01
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	0.63"	0.63"	0.63"	2.76"	x	2.14"	T07IR8S01
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	0.63"	0.63"	0.63"	4.76"	x	4.14"	T07IR8S01
T12ER11AM20A08051	IR11-ER08-2.0"M	IR11	ER08M	2.00"	0.75"	0.47"	0.47"	3.39"	1.11"	2.75"	T07ER1101
T12ER11AM20A08102	IR11-ER08-4.0"M	IR11	ER08M	4.00"	0.75"	0.47"	0.47"	5.39"	3.11"	4.76"	T07ER1101
T12ER11AM20A11051	IR11-ER11-2.0"M	IR11	ER11M	2.00"	0.75"	0.63"	0.63"	3.39"	1.97"	2.56"	T07ER1101
T12ER11AM20A11102	IR11-ER11-4.0"M	IR11	ER11M	4.00"	0.75"	0.63"	0.63"	5.39"	3.97"	4.65"	T07ER1101
T12ER16AM20A11051	IR16-ER11-2.0"M	IR16	ER11M	2.00"	1.10"	0.63"	0.63"	4.13"	2.04"	3.39"	T07ER1601
T12ER16AM20A11102	IR16-ER11-4.0"M	IR16	ER11M	4.00"	1.10"	0.63"	0.63"	6.13"	4.04"	5.39"	T07ER1601
T12ER16AM20A16051	IR16-ER16-2.0"M	IR16	ER16M	2.00"	1.10"	0.87"	0.87"	4.13"	2.04"	3.14"	T07ER1601
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	1.10"	0.87"	0.87"	6.13"	4.04"	5.14"	T07ER1601
T12ER16AM20A20051	IR16-ER20-2.0"M	IR16	ER20M	2.00"	1.10"	1.10"	1.10"	4.13"	x	3.02"	T07ER1601
T12ER16AM20A20102	IR16-ER20-4.0"M	IR16	ER20M	4.00"	1.10"	1.10"	1.10"	6.13"	x	5.02"	T07ER1601

Order Number Instruction

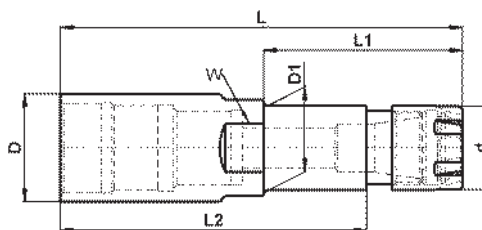
T12 ER16 A M20 - 16 060



ER COLLET CHUCK - 020 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 2500rpm



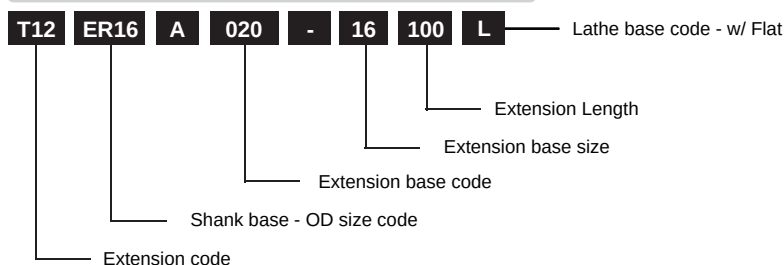
ER COLLET CHUCK **METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	19	19	19	95	x	78	T07ER1101
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	19	19	19	135	x	118	T07ER1101
T12ER16A020-11060	IR16-ER11-060	IR16	ER11	60	28	19	19	114	48.5	97	T07ER1601
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	28	19	19	154	88.5	137	T07ER1601
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	28	28	28	115	x	88.5	T07ER1601
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	28	28	28	155	x	128.5	T07ER1601
T12ER16A020-16112	IR16-ER16-112	IR16	ER16	112	28	28	28	167	x	140.5	T07ER1601
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	34	28	28	156	105.6	129.5	T07IR2004
T12ER20A020-16112	IR20-ER16-112	IR20	ER16	112	34	28	28	168	117.6	141.5	T07IR2004
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	34	34	34	117	x	89	T07IR2004
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	34	34	34	157	x	129	T07IR2004
T12ER20A020-20112	IR20-ER20-112	IR20	ER20	112	34	34	34	166	x	141	T07IR2004
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	42	28	28	163	104.5	136.5	T07ER2502
T12ER25A020-16112	IR25-ER16-112	IR25	ER16	112	42	28	28	175	116.5	148.5	T07ER2502
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	42	34	34	164	104.5	136	T07ER2502
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	42	42	42	122	x	90	T07ER2504
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	42	42	42	162	x	130	T07ER2504
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	50	28	28	166	109	140	T07ER3202
T12ER32A020-16112	IR32-ER16-112	IR32	ER16	112	50	28	28	178	121	152	T07ER3202
T12ER32A020-20100	IR32-ER20-100	IR32	ER20	100	50	35	34	166	86	137.5	T07ER3202
T12ER32A020-20112	IR32-ER20-112	IR32	ER20	112	50	35	34	178	98	149.5	T07ER3202
T12ER32A020-25100	IR32-ER25-100	IR32	ER25	100	50	42	42	166	106	108.5	T07ER3202
T12ER32A020-25112	IR32-ER25-112	IR32	ER25	112	50	42	42	178	118	120.5	T07ER3202
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	50	50	50	126	x	94	T07IR3204
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	50	50	50	166	x	134	T07IR3204
T12ER32A020-32112	IR32-ER32-112	IR32	ER32	112	50	50	50	178	x	146	T07IR3204
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	63	42	42	170	141	112.5	T07ER4002
T12ER40A020-25112	IR40-ER25-112	IR40	ER25	112	63	42	42	182	153	124.5	T07ER4002
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	63	50	50	170	112	138	T07ER4002
T12ER40A020-32112	IR40-ER32-112	IR40	ER32	112	63	50	50	182	124	150	T07ER4002
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	63	63	63	130	x	92.5	T07IR4004
T12ER40A020-40100	IR40-ER40-100	IR40	ER40	100	63	63	63	170	x	132.5	T07IR4004
T12ER40A020-40112	IR40-ER40-112	IR40	ER40	112	63	63	63	182	x	144.5	T07IR4004

ER COLLET CHUCK **INCH**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.0"	0.75"	0.75"	0.47"	3.38"	x	2.71"	T07ER1101
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.0"	0.75"	0.75"	0.47"	5.38"	x	4.71"	T07ER1101
T12ER16A020A11051	IR16-ER11-2.0"	IR16	ER11	2.0"	1.10"	1.10"	0.75"	4.13"	1.55"	3.46"	T07ER1601
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.0"	1.10"	1.10"	0.75"	6.13"	3.55"	5.46"	T07ER1601
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.0"	1.10"	1.10"	1.10"	4.16"	x	3.13"	T07ER1601
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.0"	1.10"	1.10"	1.10"	6.16"	x	5.13"	T07ER1601
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.0"	1.34"	1.34"	1.34"	4.23"	x	3.14"	T07IR2004
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.0"	1.34"	1.34"	1.34"	6.23"	x	5.14"	T07IR2004
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.0"	1.66"	1.66"	1.66"	4.44"	x	3.18"	T07IR2504
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.0"	1.66"	1.66"	1.66"	6.44"	x	5.18"	T07IR2504
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.0"	1.97"	1.97"	1.97"	4.58"	x	3.34"	T07IR3204
T12ER32A020A32102	IR32-ER32-4.0"	IR32	ER32	4.0"	1.97"	1.97"	1.97"	6.58"	x	5.34"	T07IR3204
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.0"	2.48"	2.48"	2.48"	4.74"	x	3.28"	T07IR4004
T12ER40A020A40102	IR40-ER40-4.0"	IR40	ER40	4.0"	2.48"	2.48"	2.48"	6.74"	x	5.28"	T07IR4004

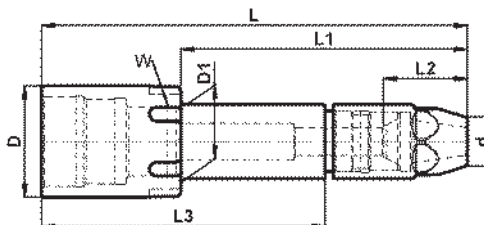
Order Number Instruction



REVERSED ER COLLET CHUCK - 920 EXTENSION **REVERSED**

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



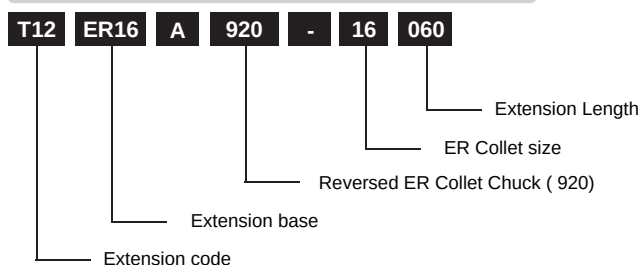
REVERSED ER COLLET CHUCK **METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	L3	W Wrench
			Size	Length								
T12ER16A920-16060	IR16-ER16-060-IN	IR16	ER16-IN	60	28	28	19	114	114	19	x	T07ER1601
T12ER16A920-16100	IR16-ER16-100-IN	IR16	ER16-IN	100	28	28	19	154	154	19	x	T07ER1601
T12ER16A920-16112	IR16-ER16-112-IN	IR16	ER16-IN	112	28	28	19	166	166	19	x	T07ER1601
T12ER20A920-16100	IR20-ER16-100-IN	IR20	ER16-IN	100	34	28	19	155	102	19	101	T07IR2004
T12ER20A920-16112	IR20-ER16-112-IN	IR20	ER16-IN	112	34	28	19	167	114	19	113	T07IR2004
T12ER20A920-20060	IR20-ER20-060-IN	IR20	ER20-IN	60	34	34	23	110	110	20	x	T07IR2004
T12ER20A920-20100	IR20-ER20-100-IN	IR20	ER20-IN	100	34	34	23	150	150	20	x	T07IR2004
T12ER20A920-20112	IR20-ER20-112-IN	IR20	ER20-IN	112	34	34	23	167	167	20	x	T07IR2004
T12ER25A920-16100	IR25-ER16-100-IN	IR25	ER16-IN	100	42	28	19	151	83	19	108	T07ER2502
T12ER25A920-16112	IR25-ER16-112-IN	IR25	ER16-IN	112	42	28	19	163	95	19	120	T07ER2502
T12ER25A920-20100	IR25-ER20-100-IN	IR25	ER20-IN	100	42	35	23	131	73	20	107	T07ER2502
T12ER25A920-20112	IR25-ER20-112-IN	IR25	ER20-IN	112	42	35	23	153	85	20	119	T07ER2502
T12ER25A920-25060	IR25-ER25-060-IN	IR25	ER25-IN	60	42	42	28	122	122	22	x	T07IR2504
T12ER25A920-25100	IR25-ER25-100-IN	IR25	ER25-IN	100	42	42	28	162	162	22	x	T07IR2504
T12ER25A920-25112	IR25-ER25-112-IN	IR25	ER25-IN	112	42	42	28	174	174	22	x	T07IR2504
T12ER32A920-16100	IR32-ER16-100-IN	IR32	ER16-IN	100	50	28	19	155	73	19	111	T07ER3202
T12ER32A920-16112	IR32-ER16-112-IN	IR32	ER16-IN	112	50	28	19	167	85	19	123	T07ER3202
T12ER32A920-20100	IR32-ER20-100-IN	IR32	ER20-IN	100	50	35	23	158	88	20	110	T07ER3202
T12ER32A920-20112	IR32-ER20-112-IN	IR32	ER20-IN	112	50	35	23	170	100	20	122	T07ER3202
T12ER32A920-25100	IR32-ER25-100-IN	IR32	ER25-IN	100	50	42	28	160	101	22	103	T07ER3202
T12ER32A920-25112	IR32-ER25-112-IN	IR32	ER25-IN	112	50	42	28	172	113	22	115	T07ER3202
T12ER32A920-32060	IR32-ER32-060-IN	IR32	ER32-IN	60	50	50	34	125	125	25	x	T07IR3204
T12ER32A920-32100	IR32-ER32-100-IN	IR32	ER32-IN	100	50	50	34	165	165	25	x	T07IR3204
T12ER40A920-25100	IR40-ER25-100-IN	IR40	ER25-IN	100	63	42	28	170	98	22	107	T07ER4002
T12ER40A920-25112	IR40-ER25-112-IN	IR40	ER25-IN	112	63	42	28	182	110	22	119	T07ER4002
T12ER40A920-32100	IR40-ER32-100-IN	IR40	ER32-IN	100	63	50	34	170	75	25	104	T07ER4002
T12ER40A920-32112	IR40-ER32-112-IN	IR40	ER32-IN	112	63	50	34	182	87	25	116	T07ER4002
T12ER40A920-40060	IR40-ER40-060-IN	IR40	ER40-IN	60	63	63	42	130	130	24	x	T07IR4004
T12ER40A920-40100	IR40-ER40-100-IN	IR40	ER40-IN	100	63	63	42	170	170	24	x	T07IR4004
T12ER40A920-40112	IR40-ER40-112-IN	IR40	ER40-IN	112	63	63	42	182	182	24	x	T07IR4004

REVERSED ER COLLET CHUCK **INCH**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	L3	W Wrench
			Size	Length								
T12ER16A920A16051	IR16-ER16-2.0"-IN	IR16	ER16-IN	2.0"	1.10"	1.10"	0.75"	4.15"	4.15"	0.77"	x	T07ER1601
T12ER16A920A16102	IR16-ER16-4.0"-IN	IR16	ER16-IN	4.0"	1.10"	1.10"	0.75"	6.15"	6.15"	0.77"	x	T07ER1601
T12ER20A920A20051	IR20-ER20-2.0"-IN	IR20	ER20-IN	2.0"	1.34"	1.34"	0.91"	3.98"	3.98"	0.79"	x	T07IR2004
T12ER20A920A20102	IR20-ER20-4.0"-IN	IR20	ER20-IN	4.0"	1.34"	1.34"	0.91"	5.98"	5.98"	0.79"	x	T07IR2004
T12ER25A920A25051	IR25-ER25-2.0"-IN	IR25	ER25-IN	2.0"	1.66"	1.66"	1.11"	4.45"	4.45"	0.87"	x	T07IR2504
T12ER25A920A25102	IR25-ER25-4.0"-IN	IR25	ER25-IN	4.0"	1.66"	1.66"	1.11"	6.45"	6.45"	0.87"	x	T07IR2504
T12ER32A920A32051	IR32-ER32-2.0"-IN	IR32	ER32-IN	2.0"	1.97"	1.97"	1.34"	4.57"	4.57"	1.01"	x	T07IR3204
T12ER32A920A32102	IR32-ER32-4.0"-IN	IR32	ER32-IN	4.0"	1.97"	1.97"	1.34"	6.58"	6.58"	1.01"	x	T07IR3204
T12ER40A920A40051	IR40-ER40-2.0"-IN	IR40	ER40-IN	2.0"	2.48"	2.48"	1.66"	4.77"	4.77"	0.98"	x	T07IR4004
T12ER40A920A40102	IR40-ER40-4.0"-IN	IR40	ER40-IN	4.0"	2.48"	2.48"	1.66"	6.78"	6.78"	0.98"	x	T07IR4004

Order Number Instruction



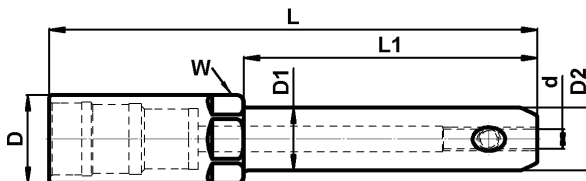
INFINITE TOOL HOLDERS

END MILL HOLDER COOLANT SLOT - 030 EXTENSION

COOLANT SLOT

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 25000rpm



END MILL HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER16A030-06060	IR16-EM06-060J	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A030-06100	IR16-EM06-100J	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A030-08060	IR16-EM08-060J	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A030-08100	IR16-EM08-100J	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A030-10060	IR20-EM10-060J	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A030-10100	IR20-EM10-100J	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A030-12060	IR25-EM12-060J	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A030-12100	IR25-EM12-100J	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A030-16060	IR25-EM16-060J	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A030-16100	IR25-EM16-100J	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A030-16060	IR32-EM16-060J	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A030-16100	IR32-EM16-100J	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A030-20060	IR32-EM20-060J	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A030-20100	IR32-EM20-100J	IR32	EM20	100	50	52	52	20	166	105	T07IR3204
T12ER40A030-20100	IR40-EM20-100J	IR40	EM20	100	63	52	52	20	170	109	T07IR4004
T12ER40A030-25060	IR40-EM25-060J	IR40	EM25	60	63	63	63	25	130	x	T07IR4004
T12ER40A030-25100	IR40-EM25-100J	IR40	EM25	100	63	63	63	25	170	x	T07IR4004
T12ER41A030-32060	IR41-EM32-060J	IR41	EM32	60	70	72	72	32	130	69	T07IR4104
T12ER41A030-32100	IR41-EM32-100J	IR41	EM32	100	70	72	72	32	170	109	T07IR4104

END MILL HOLDER COOLANT SLOT INCH

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER11A030A03051	IR11-EM1/8"-2.0"J	IR11	EM1/8"	2.0"	0.75"	0.69"	0.69"	1/8"	3.38"	1.80"	T07ER1101
T12ER11A030A03102	IR11-EM1/8"-4.0"J	IR11	EM1/8"	4.0"	0.75"	0.69"	0.69"	1/8"	5.38"	3.80"	T07ER1101
T12ER11A030A05051	IR11-EM3/16"-2.0"J	IR11	EM3/16"	2.0"	0.75"	0.79"	0.79"	3/16"	3.38"	1.96"	T07ER1101
T12ER11A030A05102	IR11-EM3/16"-4.0"J	IR11	EM3/16"	4.0"	0.75"	0.79"	0.79"	3/16"	5.38"	3.96"	T07ER1101
T12ER11A030A06051	IR11-EM1/4"-2.0"J	IR11	EM1/4"	2.0"	0.75"	0.79"	0.79"	1/4"	3.38"	1.96"	T07ER1101
T12ER11A030A06102	IR11-EM1/4"-4.0"J	IR11	EM1/4"	4.0"	0.75"	0.79"	0.79"	1/4"	5.38"	3.96"	T07ER1101
T12ER16A030A06051	IR16-EM1/4"-2.0"J	IR16	EM1/4"	2.0"	1.10"	0.79"	0.79"	1/4"	4.13"	1.68"	T07ER1601
T12ER16A030A06102	IR16-EM1/4"-4.0"J	IR16	EM1/4"	4.0"	1.10"	0.79"	0.79"	1/4"	6.13"	3.68"	T07ER1601
T12ER16A030A08051	IR16-EM5/16"-2.0"J	IR16	EM5/16"	2.0"	1.10"	1.00"	1.00"	5/16"	4.13"	1.68"	T07ER1601
T12ER16A030A08102	IR16-EM5/16"-4.0"J	IR16	EM5/16"	4.0"	1.10"	1.00"	1.00"	5/16"	6.13"	3.68"	T07ER1601
T12ER16A030A09051	IR16-EM3/8"-2.0"J	IR16	EM3/8"	2.0"	1.10"	1.00"	1.00"	3/8"	4.13"	1.68"	T07ER1601
T12ER16A030A09102	IR16-EM3/8"-4.0"J	IR16	EM3/8"	4.0"	1.10"	1.00"	1.00"	3/8"	6.13"	3.68"	T07ER1601
T12ER20A030A12051	IR20-EM1/2"-2.0"J	IR20	EM1/2"	2.0"	1.34"	1.38"	1.38"	1/2"	4.17"	2.20"	T07IR2004
T12ER20A030A12102	IR20-EM1/2"-4.0"J	IR20	EM1/2"	4.0"	1.34"	1.38"	1.38"	1/2"	6.17"	4.20"	T07IR2004
T12ER25A030A16051	IR25-EM5/8"-2.0"J	IR25	EM5/8"	2.0"	1.65"	1.65"	1.65"	5/8"	4.44"	x	T07IR2504
T12ER25A030A16102	IR25-EM5/8"-4.0"J	IR25	EM5/8"	4.0"	1.65"	1.65"	1.65"	5/8"	6.44"	x	T07IR2504
T12ER25A030A19051	IR25-EM3/4"-2.0"J	IR25	EM3/4"	2.0"	1.65"	1.89"	1.89"	3/4"	4.44"	2.08"	T07IR2504
T12ER25A030A19102	IR25-EM3/4"-4.0"J	IR25	EM3/4"	4.0"	1.65"	1.89"	1.89"	3/4"	6.44"	4.08"	T07IR2504
T12ER32A030A22051	IR32-EM7/8"-2.0"J	IR32	EM7/8"	2.0"	1.97"	2.00"	2.00"	7/8"	4.58"	x	T07IR3204
T12ER32A030A22102	IR32-EM7/8"-4.0"J	IR32	EM7/8"	4.0"	1.97"	2.00"	2.00"	7/8"	6.58"	x	T07IR3204
T12ER40A030A25051	IR40-EM1"-2.0"J	IR40	EM1"	2.0"	2.48"	2.48"	2.48"	1"	4.74"	x	T07IR4004
T12ER40A030A25102	IR40-EM1"-4.0"J	IR40	EM1"	4.0"	2.48"	2.48"	2.48"	1"	6.74"	x	T07IR4004
T12ER40A030A32051	IR40-EM1 1/4"-2.0"J	IR40	EM1 1/4"	2.0"	2.48"	2.48"	2.48"	1 1/4"	4.74"	x	T07IR4004
T12ER40A030A32102	IR40-EM1 1/4"-4.0"J	IR40	EM1 1/4"	4.0"	2.48"	2.48"	2.48"	1 1/4"	6.74"	x	T07IR4004

Order Number Instruction

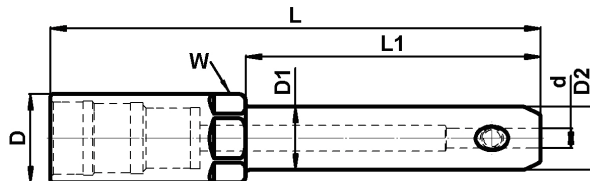
T12 **ER16** **A** **030** **-** **06** **060**

Extension code
 Extension base
 End Mill holder w/Coolant slot
 Cutter shank size
 Extension Length

END MILL HOLDER - 040 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 2500rpm



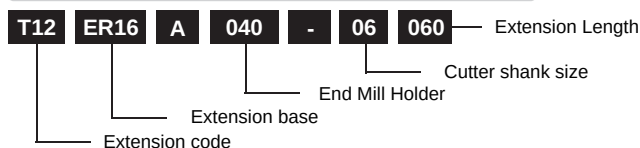
END MILL HOLDER METRIC

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER16A040-06060	IR16-EM06-060	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A040-06100	IR16-EM06-100	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A040-08100	IR16-EM08-100	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A040-08112	IR20-EM08-112	IR20	EM08	112	34	28	28	8	167	x	T07IR2004
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A040-10100	IR20-EM10-100	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A040-12060	IR25-EM12-060	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A040-12100	IR25-EM12-100	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A040-14060	IR25-EM14-060	IR25	EM14	60	42	44	44	14	122	62	T07IR2504
T12ER25A040-14100	IR25-EM14-100	IR25	EM14	100	42	44	44	14	162	102	T07IR2504
T12ER25A040-16060	IR25-EM16-060	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A040-16100	IR25-EM16-100	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A040-16060	IR32-EM16-060	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A040-16100	IR32-EM16-100	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A040-18060	IR32-EM18-060	IR32	EM18	60	50	50	50	18	126	x	T07IR3204
T12ER32A040-18100	IR32-EM18-100	IR32	EM18	100	50	50	50	18	166	x	T07IR3204
T12ER32A040-20060	IR32-EM20-060	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A040-20100	IR32-EM20-100	IR32	EM20	100	50	52	52	20	166	105	T07IR3204
T12ER40A040-20112	IR40-EM20-112	IR40	EM20	112	63	52	52	20	182	121	T07IR4004
T12ER40A040-25060	IR40-EM25-060	IR40	EM25	60	63	63	63	25	129.5	x	T07IR4004
T12ER40A040-25100	IR40-EM25-100	IR40	EM25	100	63	63	63	25	169.5	x	T07IR4004
T12ER40A040-25112	IR40-EM25-112	IR40	EM25	112	63	63	63	25	181.5	x	T07IR4004
T12ER41A040-32060	IR41-EM32-060	IR41	EM32	60	70	72	72	32	129.5	69	T07IR4004
T12ER41A040-32100	IR41-EM32-100	IR41	EM32	100	70	72	72	32	169.5	109	T07IR4004
T12ER41A040-40100	IR41-EM40-100	IR41	EM40	100	70	80	80	40	169.5	109	T07IR4004
T12ER41A040-42100	IR41-EM42-100	IR41	EM40	100	70	80	80	42	169.5	109	T07IR4004
T12ER42A040-50100	IR42-EM50-100	IR42	EM50	100	85	92	92	50	169.5	109	T07IR4004

END MILL HOLDER INCH

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d	L	L1	W Wrench
T12ER11A040A03051	IR11-EM1/8"-2.0"	IR11	EM1/8"	2.0"	0.75"	0.69"	0.69"	1/8"	3.38"	1.80"	T07ER1101
T12ER11A040A03102	IR11-EM1/8"-4.0"	IR11	EM1/8"	4.0"	0.75"	0.69"	0.69"	1/8"	5.38"	3.80"	T07ER1101
T12ER11A040A05051	IR11-EM3/16"-2.0"	IR11	EM3/16"	2.0"	0.75"	0.79"	0.79"	3/16"	3.38"	1.96"	T07ER1101
T12ER11A040A05102	IR11-EM3/16"-4.0"	IR11	EM3/16"	4.0"	0.75"	0.79"	0.79"	3/16"	5.38"	3.96"	T07ER1101
T12ER11A040A06051	IR11-EM1/4"-2.0"	IR11	EM1/4"	2.0"	0.75"	0.79"	0.79"	1/4"	3.38"	1.96"	T07ER1101
T12ER11A040A06102	IR11-EM1/4"-4.0"	IR11	EM1/4"	4.0"	0.75"	0.79"	0.79"	1/4"	5.38"	3.96"	T07ER1101
T12ER16A040A06051	IR16-EM1/4"-2.0"	IR16	EM1/4"	2.0"	1.10"	0.79"	0.79"	1/4"	4.13"	1.68"	T07ER1601
T12ER16A040A06102	IR16-EM1/4"-4.0"	IR16	EM1/4"	4.0"	1.10"	0.79"	0.79"	1/4"	6.13"	3.68"	T07ER1601
T12ER16A040A08051	IR16-EM5/16"-2.0"	IR16	EM5/16"	2.0"	1.10"	1.00"	1.00"	5/16"	4.13"	1.68"	T07ER1601
T12ER16A040A08102	IR16-EM5/16"-4.0"	IR16	EM5/16"	4.0"	1.10"	1.00"	1.00"	5/16"	6.13"	3.68"	T07ER1601
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.0"	1.10"	1.00"	1.00"	3/8"	4.13"	1.68"	T07ER1601
T12ER16A040A09102	IR16-EM3/8"-4.0"	IR16	EM3/8"	4.0"	1.10"	1.00"	1.00"	3/8"	6.13"	3.68"	T07ER1601
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.0"	1.34"	1.38"	1.38"	1/2"	4.17"	2.20"	T07IR2004
T12ER20A040A12102	IR20-EM1/2"-4.0"	IR20	EM1/2"	4.0"	1.34"	1.38"	1.38"	1/2"	6.17"	4.20"	T07IR2004
T12ER25A040A16051	IR25-EM5/8"-2.0"	IR25	EM5/8"	2.0"	1.65"	1.65"	1.65"	5/8"	4.44"	x	T07IR2504
T12ER25A040A16102	IR25-EM5/8"-4.0"	IR25	EM5/8"	4.0"	1.65"	1.65"	1.65"	5/8"	6.44"	x	T07IR2504
T12ER25A040A19051	IR25-EM3/4"-2.0"	IR25	EM3/4"	2.0"	1.65"	1.89"	1.89"	3/4"	4.44"	2.08"	T07IR2504
T12ER25A040A19102	IR25-EM3/4"-4.0"	IR25	EM3/4"	4.0"	1.65"	1.89"	1.89"	3/4"	6.44"	4.08"	T07IR2504
T12ER32A040A22051	IR32-EM7/8"-2.0"	IR32	EM7/8"	2.0"	1.97"	2.00"	2.00"	7/8"	4.58"	x	T07IR3204
T12ER32A040A22102	IR32-EM7/8"-4.0"	IR32	EM7/8"	4.0"	1.97"	2.00"	2.00"	7/8"	6.58"	x	T07IR3204
T12ER40A040A25051	IR40-EM1"-2.0"	IR40	EM1"	2.0"	2.48"	2.48"	2.48"	1"	4.74"	x	T07IR4004
T12ER40A040A25102	IR40-EM1"-4.0"	IR40	EM1"	4.0"	2.48"	2.48"	2.48"	1"	6.74"	x	T07IR4004
T12ER40A040A32051	IR40-EM1 1/4"-2.0"	IR40	EM1 1/4"	2.0"	2.48"	2.48"	2.48"	1 1/4"	4.74"	x	T07IR4004
T12ER40A040A32102	IR40-EM1 1/4"-4.0"	IR40	EM1 1/4"	4.0"	2.48"	2.48"	2.48"	1 1/4"	6.74"	x	T07IR4004
T12ER41A040A38102	IR41-EM1 1/2"-4.0"	IR41	EM1 1/2"	4.0"	2.75"	2.75"	2.75"	1 1/2"	6.74"	4.40"	T07IR4104
T12ER41A040A50102	IR41-EM2"-4.0"	IR41	EM2"	4.0"	2.75"	3.75"	3.75"	2"	6.74"	4.40"	T07IR4104

Order Number Instruction

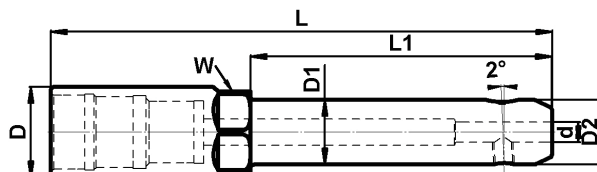


END MILL HOLDER WHISTLE - 050 EXTENSION

WHISTLE

Quality

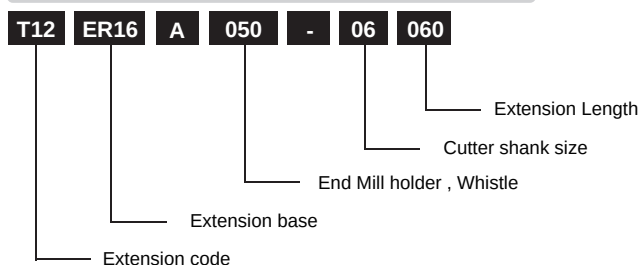
- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 25000rpm



END MILL HOLDER WHISTLE METRIC

Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	D2	d	L	L1	W Wrench
T12ER16A050-06060	IR16-EM06-060W	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A050-06100	IR16-EM06-100W	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A050-08060	IR16-EM08-060W	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A050-08100	IR16-EM08-100W	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A050-10060	IR20-EM10-060W	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A050-10100	IR20-EM10-100W	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A050-12060	IR25-EM12-060W	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A050-12100	IR25-EM12-100W	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A050-14060	IR25-EM14-060W	IR25	EM14	60	42	44	44	14	122	62	T07IR2504
T12ER25A050-14100	IR25-EM14-100W	IR25	EM14	100	42	44	44	14	162	102	T07IR2504
T12ER25A050-16060	IR25-EM16-060W	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A050-16100	IR25-EM16-100W	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A050-16060	IR32-EM16-060W	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A050-16100	IR32-EM16-100W	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A050-18060	IR32-EM18-060W	IR32	EM18	60	50	50	50	18	126	x	T07IR3204
T12ER32A050-18100	IR32-EM18-100W	IR32	EM18	100	50	50	50	18	166	x	T07IR3204
T12ER32A050-20060	IR32-EM20-060W	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A050-20100	IR32-EM20-100W	IR32	EM20	100	50	52	52	20	166	105	T07IR3204

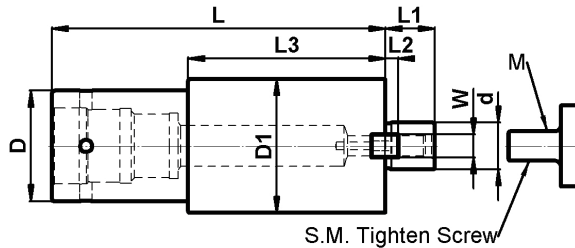
Order Number Instruction



SHELL MILLING HOLDER - 120 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm



SHELL MILLING HOLDER METRIC

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER20A120-16060	IR20-SM16-060	IR20	SM16	60	16	115	34	38	17	5	8	M8	61
T12ER20A120-16100	IR20-SM16-100	IR20	SM16	100	16	155	34	38	17	5	8	M8	101
T12ER25A120-16060	IR25-SM16-060	IR25	SM16	60	16	122	42	38	17	5	8	M8	64
T12ER25A120-16100	IR25-SM16-100	IR25	SM16	100	16	162	42	38	17	5	8	M8	104
T12ER32A120-22060	IR32-SM22-060	IR32	SM22	60	22	89	50	50	19	5	10	M10	x
T12ER32A120-22096	IR32-SM22-096	IR32	SM22	96	22	125	50	50	19	5	10	M10	x
T12ER32A120-22100	IR32-SM22-100	IR32	SM22	100	22	129	50	50	19	5	10	M10	x
T12ER32A120-22060-01	IR32-SMB22-060	IR32	SM22	60	22	89	50	60	19	5	10	M10	26
T12ER32A120-22100-01	IR32-SMB22-100	IR32	SM22	100	22	129	50	60	19	5	10	M10	66
T12ER32A120-27060	IR32-SM27-060	IR32	SM27	60	27	89	50	60	21	6	12	M12	26
T12ER32A120-27100	IR32-SM27-100	IR32	SM27	100	27	129	50	60	21	6	12	M12	66
T12ER40A120-27060	IR40-SM27-060	IR40	SM27	60	27	130	63	60	21	6	12	M12	69.5
T12ER40A120-27100	IR40-SM27-100	IR40	SM27	100	27	170	63	60	21	6	12	M12	109.5
T12ER41A120-27060-01	IR41-SMB27-060	IR41	SM32	60	27	130	70	80	21	6	12	M12	69.5
T12ER41A120-27100-01	IR41-SMB27-100	IR41	SM32	100	27	170	70	80	21	6	12	M12	109.5
T12ER41A120-32060	IR41-SM32-060	IR41	SM32	60	32	130	70	78	24	7	14	M16	69.5
T12ER41A120-32100	IR41-SM32-100	IR41	SM32	100	32	170	70	78	24	7	14	M16	109.5
T12ER42A120-40060	IR42-SM40-060	IR42	SM40	60	40	130	85	89	27	8.5	16	M20	69.5
T12ER42A120-40100	IR42-SM40-100	IR42	SM40	100	40	170	85	89	27	8.5	16	M20	109.5
T12ER42A120-60060	IR42-SM60-060	IR42	SM60	60	60	130	85	129	40	12.5	25.4	M16*4	69.5
T12ER42A120-60100	IR42-SM60-100	IR42	SM60	100	60	170	85	129	40	12.5	25.4	M16*4	109.5

SHELL MILLING HOLDER INCH

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER25A120A19063	IR25-SM3/4"-2.5"	IR25	SM 3/4"	2.5"	3/4"	4.67"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER25A120A19102	IR25-SM3/4"-4"	IR25	SM 3/4"	4.0"	3/4"	6.17"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A19063-01	IR32-SMB3/4"-2.5"	IR32	SM3/4"	2.5"	3/4"	3.64"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A19102-01	IR32-SMB3/4"-4"	IR32	SM3/4"	4.0"	3/4"	5.14"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A25063	IR32-SM1"-2.5"	IR32	SM1"	2.5"	1"	3.64"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	2.60"
T12ER32A120A25102	IR32-SM1"-4"	IR32	SM1"	4.0"	1"	5.14"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	4.60"
T12ER40A120A25063-01	IR40-SMB1"-2.5"	IR41	SM1"	2.5"	1"	5.24"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER40A120A25102-01	IR40-SMB1"-4"	IR41	SM1"	4.0"	1"	6.74"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER41A120A32063	IR41-SM1 1/4"-2.5"	IR41	SM11/4"	2.5"	1 1/4"	5.24"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A120A32102	IR41-SM1 1/4"-4"	IR41	SM11/4"	4.0"	1 1/4"	6.74"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A120A32063-01	IR41-SMB1 1/4"-2.5"	IR41	SM11/4"	2.5"	1 1/4"	5.24"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	2.88"
T12ER41A120A32102-01	IR41-SMB1 1/4"-4"	IR41	SM11/4"	4.0"	1 1/4"	6.74"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	4.38"
T12ER42A120A38063	IR42-SM1 1/2"-2.5"	IR42	SM11/2"	2.5"	1 1/2"	5.24"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A120A38102	IR42-SM1 1/2"-4"	IR42	SM11/2"	4.0"	1 1/2"	6.74"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A120A38063-01	IR42-SMB1 1/2"-2.5"	IR42	SM11/2"	2.5"	1 1/2"	5.24"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A120A38102-01	IR42-SMB1 1/2"-4"	IR42	SM11/2"	4.0"	1 1/2"	6.74"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A120A50063	IR42-SM2"-2.5"	IR42	SM2"	2.5"	2"	5.24"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	2.88"
T12ER42A120A50102	IR42-SM2"-4"	IR42	SM2"	4.0"	2"	6.74"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	4.88"
T12ER42A120A50063-01	IR42-SMB2"-2.5"	IR42	SM2"	2.5"	2"	5.24"	3.35"	5.50"	0.94"	0.39"	3/4"	1"-14	2.88"

ACCESSORIES:

DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

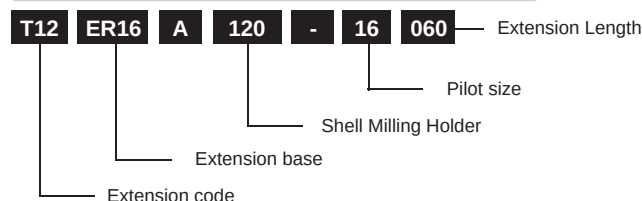
LOCK SCREWS METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

LOCK SCREWS INCH

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

Order Number Instruction

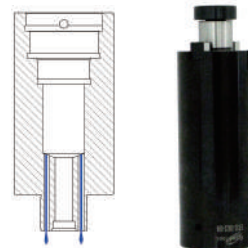
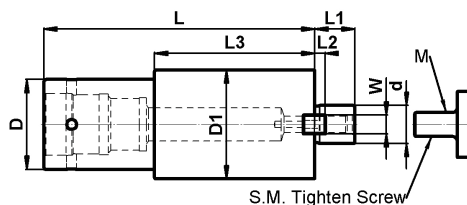


SHELL MILLING HOLDER COOLANT SLOT - 130

COOLANT SLOT

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm



SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER20A130-16060	IR20-SM16-060J	IR20	SM16	60	16	115	34	38	17	5	8	M8	61
T12ER20A130-16100	IR20-SM16-100J	IR20	SM16	100	16	155	34	38	17	5	8	M8	101
T12ER25A130-16060	IR25-SM16-060J	IR25	SM16	60	16	122	34	38	17	5	8	M8	64
T12ER25A130-16100	IR25-SM16-100J	IR25	SM16	100	16	162	42	38	17	5	8	M8	104
T12ER32A130-22060	IR32-SM22-060J	IR32	SM22	60	22	89	50	50	19	5	10	M10	x
T12ER32A130-22100	IR32-SM22-100J	IR32	SM22	100	22	129	50	50	19	5	10	M10	x
T12ER32A130-22060-01	IR32-SMB22-060J	IR32	SM22	60	22	89	50	60	19	5	10	M10	26
T12ER32A130-22100-01	IR32-SMB22-100J	IR32	SM22	100	22	129	50	60	19	5	10	M10	66
T12ER32A130-27060	IR32-SM27-060J	IR32	SM27	60	27	89	50	60	21	6	12	M12	26
T12ER32A130-27100	IR32-SM27-100J	IR32	SM27	100	27	129	50	60	21	6	12	M12	66
T12ER40A130-27060	IR40-SM27-060J	IR40	SM27	60	27	130	63	60	21	6	12	M12	69.5
T12ER40A130-27100	IR40-SM27-100J	IR40	SM27	100	27	170	63	60	21	6	12	M12	109.5
T12ER41A130-27060-01	IR41-SMB27-060J	IR41	SM32	60	27	130	70	80	21	6	12	M12	69.5
T12ER41A130-27100-01	IR41-SMB27-100J	IR41	SM32	100	27	170	70	80	21	6	12	M12	109.5
T12ER41A130-32060	IR41-SM32-060J	IR41	SM32	60	32	130	70	78	24	7	14	M16	69.5
T12ER41A130-32100	IR41-SM32-100J	IR41	SM32	100	32	170	70	78	24	7	14	M16	109.5
T12ER42A130-40060	IR42-SM40-060J	IR42	SM40	60	40	130	85	89	27	8.5	16	M20	69.5
T12ER42A130-40100	IR42-SM40-100J	IR42	SM40	100	40	170	85	89	27	8.5	16	M20	109.5
T12ER42A130-60060	IR42-SM60-060J	IR42	SM60	60	60	130	85	129	40	12.5	25.4	M16*4	69.5
T12ER42A130-60100	IR42-SM60-100J	IR42	SM60	100	60	170	85	129	40	12.5	25.4	M16*4	109.5

SHELL MILLING HOLDER COOLANT SLOT INCH

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER25A130A19063	IR25-SM3/4"-2.5"J	IR25	SM 3/4"	2.5"	3/4"	4.67"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER25A130A19102	IR25-SM3/4"-4"J	IR25	SM 3/4"	4.0"	3/4"	6.17"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A19063-01	IR32-SMB3/4"-2.5"J	IR32	SM3/4"	2.5"	3/4"	3.64"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A19102-01	IR32-SMB3/4"-4"J	IR32	SM3/4"	4.0"	3/4"	5.14"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A25063	IR32-SM1"-2.5"J	IR32	SM1"	2.5"	1"	3.64"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	2.60"
T12ER32A130A25102	IR32-SM1"-4"J	IR32	SM1"	4.0"	1"	5.14"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	4.60"
T12ER40A130A25063-01	IR40-SMB1"-2.5"J	IR41	SM1"	2.5"	1"	5.24"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER40A130A25102-01	IR40-SMB1"-4"J	IR41	SM1"	4.0"	1"	6.74"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER41A130A32063	IR41-SM1 1/4"-2.5"J	IR41	SM11/4"	2.5"	1 1/4"	5.24"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A130A32102	IR41-SM1 1/4"-4"J	IR41	SM11/4"	4.0"	1 1/4"	6.74"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A130A32063-01	IR41-SMB1 1/4"-2.5"J	IR41	SM11/4"	2.5"	1 1/4"	5.24"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	2.88"
T12ER41A130A32102-01	IR41-SMB1 1/4"-4"J	IR41	SM11/4"	4.0"	1 1/4"	6.74"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	4.38"
T12ER42A130A38063	IR42-SM1 1/2"-2.5"J	IR42	SM11/2"	2.5"	1 1/2"	5.24"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A130A38102	IR42-SM1 1/2"-4"J	IR42	SM11/2"	4.0"	1 1/2"	6.74"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A130A38063-01	IR42-SMB1 1/2"-2.5"J	IR42	SM11/2"	2.5"	1 1/2"	5.24"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A130A38102-01	IR42-SMB1 1/2"-4"J	IR42	SM11/2"	4.0"	1 1/2"	6.74"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A130A50063	IR42-SM2"-2.5"J	IR42	SM2"	2.5"	2"	5.24"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	2.88"
T12ER42A130A50102	IR42-SM2"-4"J	IR42	SM2"	4.0"	2"	6.74"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	4.88"
T12ER42A130A50063-01	IR42-SMB2"-2.5"J	IR42	SM2"	2.5"	2"	5.24"	3.35"	5.50"	0.94"	0.39"	3/4"	1"-14	2.88"

ACCESSORIES:

DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

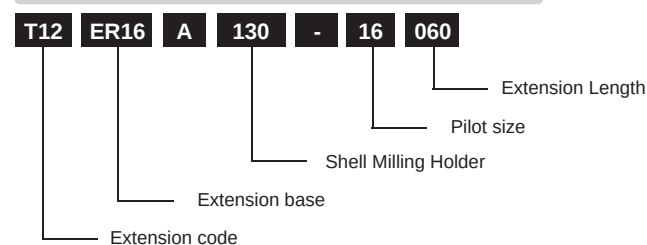
LOCK SCREWS METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

LOCK SCREWS INCH

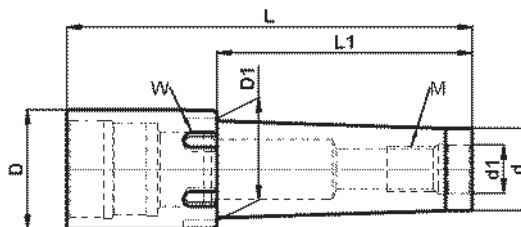
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

Order Number Instruction



SCREW-IN HOLDER - 200 EXTENSION
Quality

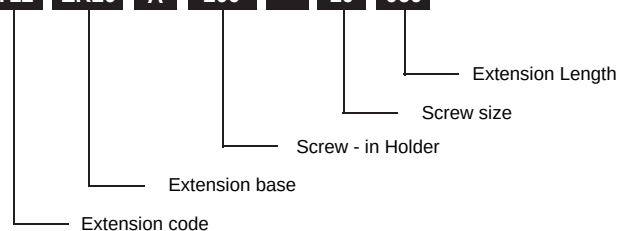
- Shaft tolerance: H3
- Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm

**SCREW-IN HOLDER METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	d1	L	L1	M	W Wrench
			Size	Length								
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	19	19	13	8.5	95	55	M8	T07ER1101
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	19	19	13	8.5	135	95	M8	T07ER1101
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	19	19	18	10.5	95	55	M10	T07ER1101
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	19	19	18	10.5	135	95	M10	T07ER1101
T12ER16A200-10060	IR16-M10-060	IR16	M10	60	28	25	18	10.5	114	58	M10	T07ER1601
T12ER16A200-10100	IR16-M10-100	IR16	M10	100	28	25	18	10.5	154	98	M10	T07ER1601
T12ER16A200-12060	IR16-M12-060	IR16	M12	60	28	25	21	12.5	114	58	M12	T07ER1601
T12ER16A200-12100	IR16-M12-100	IR16	M12	100	28	25	21	12.5	154	98	M12	T07ER1601
T12ER20A200-10060	IR20-M10-060	IR20	M10	60	34	25	18	10.5	115	62	M10	T07ER2004
T12ER20A200-10100	IR20-M10-100	IR20	M10	100	34	25	18	10.5	155	102	M10	T07ER2004
T12ER20A200-10112	IR20-M10-112	IR20	M10	112	34	25	18	10.5	167	110	M10	T07ER2004
T12ER20A200-12060	IR20-M12-060	IR20	M12	60	34	24	21	12.5	115	62	M12	T07ER2004
T12ER20A200-12100	IR20-M12-100	IR20	M12	100	34	24	21	12.5	155	102	M12	T07ER2004
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	34	34	29	17.0	115	62	M16	T07ER2004
T12ER20A200-16100	IR20-M16-100	IR20	M16	100	34	34	29	17.0	155	102	M16	T07ER2004
T12ER25A200-12112	IR25-M12-112	IR25	M12	112	42	24	21	12.5	143	77	M12	T07ER2504
T12ER25A200-16112	IR25-M16-112	IR25	M16	112	42	34	29	17.0	143	90	M16	T07ER2504

SCREW-IN HOLDER INCH

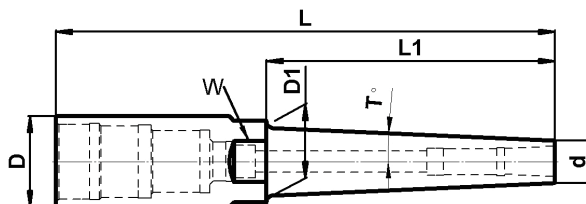
Order Number	Part Name	Base	Extension		D	D1	d	d1	L	L1	M	W Wrench
			Size	Length								
T12ER11A200A08060	IR11-M08-2.36"	IR11	M08	2.36"	0.75"	0.75"	0.52"	0.33"	3.74"	2.17"	M8	T07ER1101
T12ER11A200A08100	IR11-M08-3.94"	IR11	M08	3.94"	0.75"	0.75"	0.52"	0.33"	5.32"	3.74"	M8	T07ER1101
T12ER11A200A10060	IR11-M10-2.36"	IR11	M10	2.36"	0.75"	0.75"	0.71"	0.41"	3.74"	2.17"	M10	T07ER1101
T12ER11A200A10100	IR11-M10-3.94"	IR11	M10	3.94"	0.75"	0.75"	0.71"	0.41"	5.32"	3.74"	M10	T07ER1101
T12ER16A200A10060	IR16-M10-2.36"	IR16	M10	2.36"	1.10"	0.99"	0.71"	0.41"	4.65"	2.28"	M10	T07ER1601
T12ER16A200A10100	IR16-M10-3.94"	IR16	M10	3.94"	1.10"	0.99"	0.71"	0.41"	6.06"	3.86"	M10	T07ER1601
T12ER16A200A12060	IR16-M12-2.36"	IR16	M12	2.36"	1.10"	0.99"	0.83"	0.49"	4.65"	2.28"	M12	T07ER1601
T12ER16A200A12100	IR16-M12-3.94"	IR16	M12	3.94"	1.10"	0.99"	0.83"	0.49"	6.06"	3.86"	M12	T07ER1601
T12ER20A200A10060	IR20-M10-2.36"	IR20	M10	2.36"	1.34"	0.99"	0.71"	0.41"	4.53"	2.44"	M10	T07ER2004
T12ER20A200A10100	IR20-M10-3.94"	IR20	M10	3.94"	1.34"	0.99"	0.71"	0.41"	6.10"	4.02"	M10	T07ER2004
T12ER20A200A10112	IR20-M10-4.41"	IR20	M10	4.41"	1.34"	0.99"	0.71"	0.41"	6.58"	4.33"	M10	T07ER2004
T12ER20A200A12060	IR20-M12-2.36"	IR20	M12	2.36"	1.34"	0.95"	0.83"	0.49"	4.53"	2.44"	M12	T07ER2004
T12ER20A200A12100	IR20-M12-3.94"	IR20	M12	3.94"	1.34"	0.95"	0.83"	0.49"	6.10"	4.02"	M12	T07ER2004
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	1.34"	1.34"	1.14"	0.67"	4.53"	2.44"	M16	T07ER2004
T12ER20A200A16100	IR20-M16-3.94"	IR20	M16	3.94"	1.34"	1.34"	1.14"	0.67"	6.10"	4.02"	M16	T07ER2004
T12ER25A200A12112	IR25-M12-4.41"	IR25	M12	4.41"	1.65"	0.95"	0.83"	0.49"	5.63"	3.03"	M12	T07ER2504
T12ER25A200A16112	IR25-M16-4.41"	IR25	M16	4.41"	1.65"	1.34"	1.14"	0.67"	5.65"	3.54"	M16	T07ER2504

Order Number Instruction
T12 ER20 A 200 - 10 060


SLIM COLLET CHUCK - 210 EXTENSION

Quality

- Shaft tolerance: H3
- Hardness: HRC56±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm



SLIM COLLET CHUCK METRIC

Order Number	Part Name	Base	Extension		D	D1	T	d	L	L1	Length	W Wrench
			Size	Length								
T12ER11A210-06100	IR11-HC06-100	IR11	HC06	100	19	19	2.5 °	13	135	67	3.94"	T07ER1101
T12ER16A210-06100	IR16-HC06-100	IR16	HC06	100	28	21	2.5 °	13	154	87	3.94"	T07ER1601
T12ER16A210-10100	IR16-HC10-100	IR16	HC10	100	28	28	3.0 °	21	154	73	3.94"	T07ER1601
T12ER20A210-16100	IR20-HC16-100	IR20	HC16	100	34	34	3.0 °	32	155	18	3.94"	T07ER2004

ACCESSORIES:

HC COLLETS METRIC

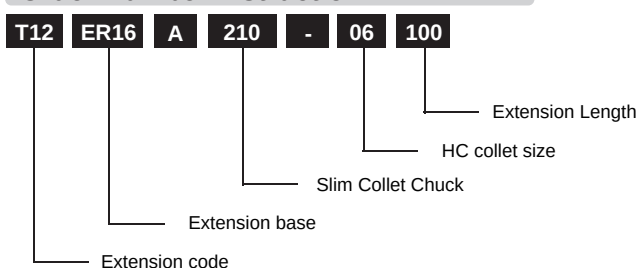
Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16



HC COLLETS INCH

Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"

Order Number Instruction

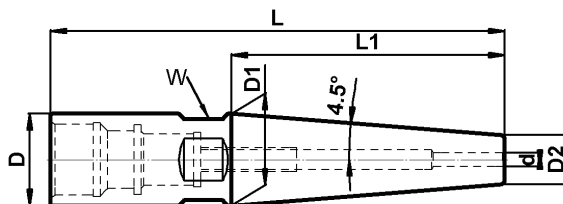


SHRINK-FIT HOLDER 4.5° - 220 EXTENSION

4.5°

Quality

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



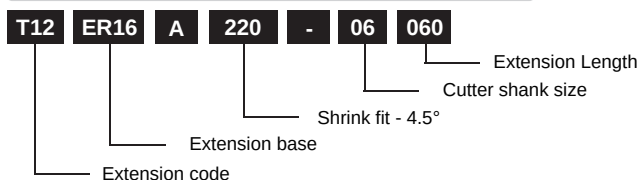
SHRINK - FIT HOLDER 4.5° METRIC

Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	D2	d mm	L	L1	HSS	W Wrench
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	16	16	10	3	80	38	YES	T07IR8S01
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	100	16	16	10	3	120	38	YES	T07IR8S01
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	19	19	10	3	95	57	YES	T07ER1101
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	19	19	10	3	135	57	YES	T07ER1101
T12ER11A220-04060	IR11-SF04-060-4.5°	IR11	SF04	60	19	19	12	4	95	44	YES	T07ER1101
T12ER11A220-04100	IR11-SF04-100-4.5°	IR11	SF04	100	19	19	12	4	135	44	YES	T07ER1101
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	19	19	12	5	95	44	YES	T07ER1101
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	19	19	12	5	135	44	YES	T07ER1101
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	28	28	21	6	114	44	YES	T07ER1601
T12ER16A220-06100	IR16-SF06-100-4.5°	IR16	SF06	100	28	28	21	6	154	44	YES	T07ER1601
T12ER16A220-08060	IR16-SF08-060-4.5°	IR16	SF08	60	28	28	21	8	114	44	YES	T07ER1601
T12ER16A220-08100	IR16-SF08-100-4.5°	IR16	SF08	100	28	28	21	8	154	44	YES	T07ER1601
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	28	28	24	10	114	25	YES	T07ER1601
T12ER16A220-10100	IR16-SF10-100-4.5°	IR16	SF10	100	28	28	24	10	154	25	YES	T07ER1601
T12ER16A220-12060	IR16-SF12-060-4.5°	IR16	SF12	60	28	28	24	12	114	25	YES	T07ER1601
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	28	28	24	12	154	25	YES	T07ER1601
T12ER20A220-14060	IR20-SF14-060-4.5°	IR20	SF14	60	34	34	27	14	115	44	YES	T07IR2004
T12ER20A220-14100	IR20-SF14-100-4.5°	IR20	SF14	100	34	34	27	14	155	44	YES	T07IR2004
T12ER20A220-16060	IR20-SF16-060-4.5°	IR20	SF16	60	34	34	27	16	115	44	YES	T07IR2004
T12ER20A220-16100	IR20-SF16-100-4.5°	IR20	SF16	100	34	34	27	16	155	44	YES	T07IR2004
T12ER25A220-18060	IR25-SF18-060-4.5°	IR25	SF18	60	42	42	33	18	122	57	YES	T07IR2504
T12ER25A220-18100	IR25-SF18-100-4.5°	IR25	SF18	100	42	42	33	18	162	57	YES	T07IR2504
T12ER25A220-20060	IR25-SF20-060-4.5°	IR25	SF20	60	42	42	33	20	122	57	YES	T07IR2504
T12ER25A220-20100	IR25-SF20-100-4.5°	IR25	SF20	100	42	42	33	20	162	57	YES	T07IR2504
T12ER32A220-25060	IR32-SF25-060-4.5°	IR32	SF25	60	50	50	44	25	126	38	YES	T07IR3204
T12ER32A220-25100	IR32-SF25-100-4.5°	IR32	SF25	100	50	50	44	25	166	38	YES	T07IR3204
T12ER32A220-32060	IR32-SF32-060-4.5°	IR32	SF32	60	50	50	44	32	126	38	YES	T07IR3204
T12ER32A220-32100	IR32-SF32-100-4.5°	IR32	SF32	100	50	50	44	32	166	38	YES	T07IR3204

SHRINK - FIT HOLDER 4.5° INCH

Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	D2	d inch	L	L1	HSS	W Wrench
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	0.63"	0.63"	0.40"	1/8"	2.77"	1.50"	YES	T07IR8S01
T12ER8SA220A03102	IR8S-SF1/8"-4"-4.5°	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.40"	1/8"	4.77"	1.50"	YES	T07IR8S01
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	0.75"	0.66"	0.40"	1/8"	3.38"	1.78"	YES	T07ER1101
T12ER11A220A03102	IR11-SF1/8"-4"-4.5°	IR11	SF1/8"	4.00"	0.75"	0.75"	0.40"	1/8"	5.38"	2.25"	YES	T07ER1101
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	0.75"	0.75"	0.47"	3/16"	3.38"	1.76"	YES	T07ER1101
T12ER11A220A05102	IR11-SF3/16"-4"-4.5°	IR11	SF3/16"	4.00"	0.75"	0.75"	0.47"	3/16"	5.38"	1.76"	YES	T07ER1101
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	1.10"	1.10"	0.83"	1/4"	4.13"	1.75"	YES	T07ER1601
T12ER16A220A06060	IR16-SF1/4"-2.36"-4.5°	IR16	SF1/4"	2.36"	1.10"	1.10"	0.83"	1/4"	4.49"	1.75"	YES	T07ER1601
T12ER16A220A06102	IR16-SF1/4"-4"-4.5°	IR16	SF1/4"	4.00"	1.10"	1.10"	0.83"	1/4"	6.13"	1.75"	YES	T07ER1601
T12ER16A220A08051	IR16-SF5/16"-2"-4.5°	IR16	SF5/16"	2.00"	1.10"	1.10"	0.83"	5/16"	4.13"	1.75"	YES	T07ER1601
T12ER16A220A08060	IR16-SF5/16"-2.36"-4.5°	IR16	SF5/16"	2.36"	1.10"	1.10"	0.83"	5/16"	4.49"	1.75"	YES	T07ER1601
T12ER16A220A08102	IR16-SF5/16"-4"-4.5°	IR16	SF5/16"	4.00"	1.10"	1.10"	0.83"	5/16"	6.13"	1.75"	YES	T07ER1601
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	1.10"	1.10"	0.95"	3/8"	4.13"	1.00"	YES	T07ER1601
T12ER16A220A09060	IR16-SF3/8"-2.36"-4.5°	IR16	SF3/8"	2.36"	1.10"	1.10"	0.95"	3/8"	4.49"	1.00"	YES	T07ER1601
T12ER16A220A09102	IR16-SF3/8"-4"-4.5°	IR16	SF3/8"	4.00"	1.10"	1.10"	0.95"	3/8"	6.13"	1.00"	YES	T07ER1601
T12ER16A220A12051	IR16-SF1/2"-2"-4.5°	IR16	SF1/2"	2.00"	1.10"	1.10"	0.95"	1/2"	4.13"	1.00"	YES	T07ER1601
T12ER16A220A12060	IR16-SF1/2"-2.36"-4.5°	IR16	SF1/2"	2.36"	1.10"	1.10"	0.95"	1/2"	4.49"	1.00"	YES	T07ER1601
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	1.10"	1.10"	0.95"	1/2"	6.13"	1.00"	YES	T07ER1601
T12ER20A220A16051	IR20-SF5/8"-2"-4.5°	IR20	SF5/8"	2.00"	1.34"	1.34"	1.06"	5/8"	4.17"	1.75"	YES	T07IR2004
T12ER20A220A16102	IR20-SF5/8"-4"-4.5°	IR20	SF5/8"	4.00"	1.34"	1.34"	1.06"	5/8"	6.17"	1.75"	YES	T07IR2004
T12ER25A220A19051	IR25-SF3/4"-2"-4.5°	IR25	SF3/4"	2.00"	1.65"	1.65"	1.30"	3/4"	4.44"	2.25"	YES	T07IR2504
T12ER25A220A19102	IR25-SF3/4"-4"-4.5°	IR25	SF3/4"	4.00"	1.65"	1.65"	1.30"	3/4"	6.44"	2.25"	YES	T07IR2504
T12ER32A220A25051	IR32-SF1"-2"-4.5°	IR32	SF1"	2.00"	1.97"	1.97"	1.73"	1"	4.60"	1.50"	YES	T07IR3204
T12ER32A220A25102	IR32-SF1"-4"-4.5°	IR32	SF1"	4.00"	1.97"	1.97"	1.73"	1"	6.60"	1.50"	YES	T07IR3204
T12ER32A220A32051	IR32-SF1 1/4"-2"-4.5°	IR32	SF1 1/4"	2.00"	1.97"	1.97"	1.73"	1 1/4"	4.60"	1.50"	YES	T07IR3204
T12ER32A220A32102	IR32-SF1 1/4"-4"-4.5°	IR32	SF1 1/4"	4.00"	1.97"	1.97"	1.73"	1 1/4"	6.60"	1.50"	YES	T07IR3204

Order Number Instruction



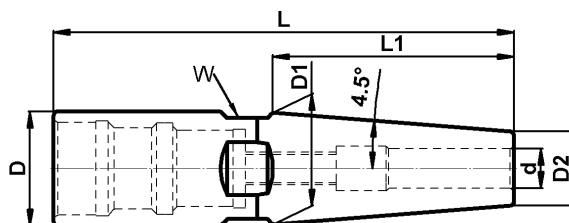
INFINITE TOOL HOLDERS

SHRINK-FIT HOLDER 4.5° SLIM - 230 EXTENSION

4.5°

Quality

- Shaft tolerance: H3
- Case Hardness: HRC52±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



SHRINK-FIT HOLDER 4.5° Slim METRIC

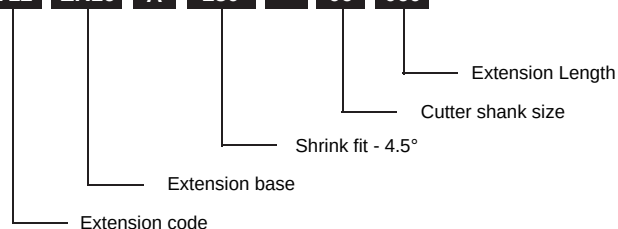
Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A230-06060	IR11-SF06-060-4.5° slim	IR11	SF06	60	19	19	15	6	95	25	NO	T07ER1101
T12ER11A230-06100	IR11-SF06-100-4.5° slim	IR11	SF06	100	19	19	15	6	135	25	NO	T07ER1101
T12ER11A230-08060	IR11-SF08-060-4.5° slim	IR11	SF08	60	19	19	15	8	95	25	NO	T07ER1101
T12ER11A230-08100	IR11-SF08-100-4.5° slim	IR11	SF08	100	19	19	15	8	135	25	NO	T07ER1101
T12ER16A230-10060	IR16-SF10-060-4.5° slim	IR16	SF10	60	28	27	18	10	114	63	NO	T07ER1601
T12ER16A230-10100	IR16-SF10-100-4.5° slim	IR16	SF10	100	28	28	18	10	154	63	NO	T07ER1601
T12ER16A230-12060	IR16-SF12-060-4.5° slim	IR16	SF12	60	28	27	18	12	114	63	NO	T07ER1601
T12ER16A230-12100	IR16-SF12-100-4.5° slim	IR16	SF12	100	28	27	18	12	154	63	NO	T07ER1601
T12ER16A230-16060	IR16-SF16-060-4.5° slim	IR16	SF16	60	28	28	21	16	114	45	NO	T07ER1601
T12ER16A230-16100	IR16-SF16-100-4.5° slim	IR16	SF16	100	28	28	21	16	154	45	NO	T07ER1601
T12ER20A230-20060	IR20-SF20-060-4.5° slim	IR20	SF20	60	34	34	25	20	115	57	NO	T07IR2004
T12ER20A230-20100	IR20-SF20-100-4.5° slim	IR20	SF20	100	34	34	25	20	155	57	NO	T07IR2004

SHRINK-FIT HOLDER 4.5° Slim INCH

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A230A06051	IR11-SF1/4"-2"-4.5° slim	IR11	SF1/4"	2.00"	0.75"	0.75"	0.590"	1/4"	3.38"	1.00"	NO	T07ER1101
T12ER11A230A06102	IR11-SF1/4"-4"-4.5° slim	IR11	SF1/4"	4.00"	0.75"	0.75"	0.590"	1/4"	5.38"	1.00"	NO	T07ER1101
T12ER11A230A08051	IR11-SF5/16"-2"-4.5° slim	IR11	SF5/16"	2.00"	0.75"	0.75"	0.590"	5/16"	3.38"	1.00"	NO	T07ER1101
T12ER11A230A08102	IR11-SF5/16"-4"-4.5° slim	IR11	SF5/16"	4.00"	0.75"	0.75"	0.590"	5/16"	5.38"	1.00"	NO	T07ER1101
T12ER16A230A09060	IR16-SF3/8"-2.36"-4.5° slim	IR16	SF3/8"	2.36"	1.10"	1.10"	0.710"	3/8"	4.49"	2.50"	NO	T07ER1601
T12ER16A230A09102	IR16-SF3/8"-4"-4.5° slim	IR16	SF3/8"	4.00"	1.10"	1.10"	0.710"	3/8"	6.13"	2.50"	NO	T07ER1601
T12ER16A230A12060	IR16-SF1/2"-2.36"-4.5° slim	IR16	SF1/2"	2.36"	1.10"	1.10"	0.710"	1/2"	4.49"	2.50"	NO	T07ER1601
T12ER16A230A12102	IR16-SF1/2"-4"-4.5° slim	IR16	SF1/2"	4.00"	1.10"	1.10"	0.710"	1/2"	6.13"	2.50"	NO	T07ER1601
T12ER16A230A16060	IR16-SF5/8"-2.36"-4.5° slim	IR16	SF5/8"	2.36"	1.10"	1.10"	0.827"	5/8"	4.49"	1.75"	NO	T07ER1601
T12ER16A230A16102	IR16-SF5/8"-4"-4.5° slim	IR16	SF5/8"	4.00"	1.10"	1.10"	0.827"	5/8"	6.13"	1.75"	NO	T07ER1601
T12ER20A230A19051	IR20-SF3/4"-2"-4.5° slim	IR20	SF3/4"	2.00"	1.34"	1.34"	0.984"	3/4"	4.17"	2.24"	NO	T07IR2004
T12ER20A230A19102	IR20-SF3/4"-4"-4.5° slim	IR20	SF3/4"	4.00"	1.34"	1.34"	0.984"	3/4"	6.17"	2.24"	NO	T07IR2004

Order Number Instruction

T12 **ER16** **A** **230** **-** **06** **060**

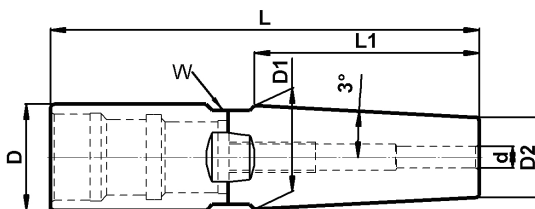


SHRINK-FIT HOLDER 3° - 240 EXTENSION

3°

Quality

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm



SHRINK - FIT HOLDER 3° METRIC

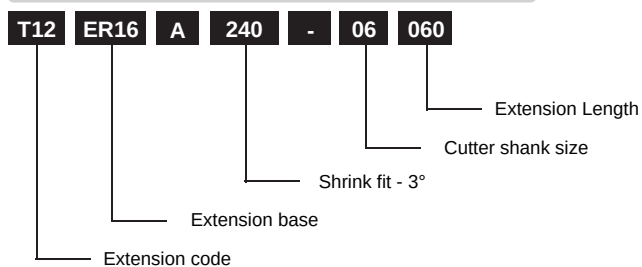
Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d mm	L	L1	HSS	W Wrench
T12ER8SA240-03060	IR8S-SF03-060-3°	IR8S	SF03	60	16	14	9	3	80	44	NO	T07IR8S01
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	16	16	9	3	120	66	NO	T07IR8S01
T12ER8SA240-04060	IR8S-SF04-060-3°	IR8S	SF04	60	16	14	10	4	80	39	NO	T07IR8S01
T12ER8SA240-04100	IR8S-SF04-100-3°	IR8S	SF04	100	16	16	10	4	120	57	NO	T07IR8S01
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	16	15	11	5	80	39	NO	T07IR8S01
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	16	16	11	5	120	47	NO	T07IR8S01
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	16	16	12	6	80	38	NO	T07IR8S01
T12ER8SA240-06100	IR8S-SF06-100-3°	IR8S	SF06	100	16	16	12	6	120	38	NO	T07IR8S01
T12ER11A240-03060	IR11-SF03-060-3°	IR11	SF03	60	19	15	9	3	95	58	NO	T07ER1101
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	19	19	9	3	135	95	NO	T07ER1101
T12ER11A240-04060	IR11-SF04-060-3°	IR11	SF04	60	19	16	10	4	95	53	NO	T07ER1101
T12ER11A240-04100	IR11-SF04-100-3°	IR11	SF04	100	19	19	10	4	135	85	NO	T07ER1101
T12ER11A240-05060	IR11-SF05-060-3°	IR11	SF05	60	19	16	11	5	95	54	NO	T07ER1101
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	19	19	11	5	135	76	NO	T07ER1101
T12ER11A240-06060	IR11-SF06-060-3°	IR11	SF06	60	19	18	12	6	95	54	NO	T07ER1101
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	19	19	12	6	135	66	NO	T07ER1101
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	19	19	14	8	95	47	NO	T07ER1101
T12ER11A240-08100	IR11-SF08-100-3°	IR11	SF08	100	19	19	14	8	135	47	NO	T07ER1101
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	19	19	16	10	95	28	NO	T07ER1101
T12ER11A240-10100	IR11-SF10-100-3°	IR11	SF10	100	19	19	16	10	135	28	NO	T07ER1101
T12ER11A240-12060	IR11-SF12-060-3°	IR11	SF12	60	21	21	18	12	95	28	NO	T07ER1101
T12ER11A240-12100	IR11-SF12-100-3°	IR11	SF12	100	21	21	18	12	135	28	NO	T07ER1101
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	28	28	18	12	154	95	NO	T07ER1601
T12ER16A240-16060	IR16-SF16-060-3°	IR16	SF16	60	28	28	22	16	114	57	NO	T07ER1601
T12ER16A240-16100	IR16-SF16-100-3°	IR16	SF16	100	28	28	22	16	154	57	NO	T07ER1601
T12ER20A240-16100	IR20-SF16-100-3°	IR20	SF16	100	34	33	22	16	155	105	NO	T07IR2004
T12ER20A240-20060	IR20-SF20-060-3°	IR20	SF20	60	34	34	27	20	115	66	NO	T07IR2004
T12ER20A240-20100	IR20-SF20-100-3°	IR20	SF20	100	34	34	27	20	155	66	NO	T07IR2004
T12ER25A240-25060	IR25-SF25-060-3°	IR25	SF25	60	42	41	34	25	122	64	NO	T07IR2504
T12ER25A240-25100	IR25-SF25-100-3°	IR25	SF25	100	42	42	34	25	162	76	NO	T07IR2504

SHRINK - FIT HOLDER 3° INCH

Order Number	Part Name	Base	Extension Size	Length	D	D1	D2	d inch	L	L1	HSS	W Wrench
T12ER8SA240A03051	IR8S-SF1/8"-2"-3°	IR8S	SF1/8"	2"	0.63"	0.47"	0.354"	1/8"	2.77"	1.17"	NO	T07IR8S01
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4"	0.63"	0.63"	0.354"	1/8"	4.77"	2.63"	NO	T07IR8S01
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2"	0.63"	0.60"	0.433"	3/16"	2.77"	1.57"	NO	T07IR8S01
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4"	0.63"	0.63"	0.433"	3/16"	4.77"	1.87"	NO	T07IR8S01
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2"	0.63"	0.63"	0.472"	1/4"	2.77"	1.50"	NO	T07IR8S01
T12ER8SA240A06102	IR8S-SF1/4"-4"-3°	IR8S	SF1/4"	4"	0.63"	0.63"	0.472"	1/4"	4.77"	1.50"	NO	T07IR8S01
T12ER11A240A03051	IR11-SF1/8"-2"-3°	IR11	SF1/8"	2"	0.75"	0.56"	0.354"	1/8"	3.38"	1.93"	NO	T07ER1101
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4"	0.75"	0.75"	0.354"	1/8"	5.38"	3.75"	NO	T07ER1101
T12ER11A240A05051	IR11-SF3/16"-2"-3°	IR11	SF3/16"	2"	0.75"	0.64"	0.433"	3/16"	3.38"	1.96"	NO	T07ER1101
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4"	0.75"	0.75"	0.433"	3/16"	5.38"	3.00"	NO	T07ER1101
T12ER11A240A06051	IR11-SF1/4"-2"-3°	IR11	SF1/4"	2"	0.75"	0.66"	0.472"	1/4"	3.38"	1.77"	NO	T07ER1101
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4"	0.75"	0.75"	0.472"	1/4"	5.38"	2.63"	NO	T07ER1101
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2"	0.75"	0.75"	0.551"	5/16"	3.38"	1.87"	NO	T07ER1101
T12ER11A240A08102	IR11-SF5/16"-4"-3°	IR11	SF5/16"	4"	0.75"	0.75"	0.551"	5/16"	5.38"	1.87"	NO	T07ER1101
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2"	0.75"	0.75"	0.630"	3/8"	3.38"	1.12"	NO	T07ER1101
T12ER11A240A09102	IR11-SF3/8"-4"-3°	IR11	SF3/8"	4"	0.75"	0.75"	0.630"	3/8"	5.38"	1.12"	NO	T07ER1101
T12ER11A240A12051	IR11-SF1/2"-2"-3°	IR11	SF1/2"	2"	0.83"	0.83"	0.709"	1/2"	3.38"	1.12"	NO	T07ER1101

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A240A12102	IR11-SF1/2"-4"-3°	IR11	SF1/2"	4"	0.83"	0.83"	0.709"	1/2"	5.38"	1.12"	NO	T07ER1101
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4"	1.10"	1.10"	0.709"	1/2"	6.13"	3.75"	NO	T07ER1601
T12ER16A240A16051	IR16-SF5/8"-2"-3°	IR16	SF5/8"	2"	1.10"	1.10"	0.870"	5/8"	4.13"	1.96"	NO	T07ER1601
T12ER16A240A16102	IR16-SF5/8"-4"-3°	IR16	SF5/8"	4"	1.10"	1.10"	0.870"	5/8"	6.13"	2.25"	NO	T07ER1601
T12ER20A240A16102	IR20-SF5/8"-4"-3°	IR20	SF5/8"	4"	1.34"	1.34"	0.870"	5/8"	6.13"	4.50"	NO	T07IR2004
T12ER20A240A19051	IR20-SF3/4"-2"-3°	IR20	SF3/4"	2"	1.34"	1.29"	1.060"	3/4"	4.16"	2.17"	NO	T07IR2004
T12ER20A240A19102	IR20-SF3/4"-4"-3°	IR20	SF3/4"	4"	1.34"	1.34"	1.060"	3/4"	6.16"	2.63"	NO	T07IR2004
T12ER25A240A25051	IR25-SF1"-2"-3°	IR25	SF1"	2"	1.65"	1.57"	1.340"	1"	4.44"	2.15"	NO	T07IR2504
T12ER25A240A25102	IR25-SF1"-4"-3°	IR25	SF1"	4"	1.65"	1.65"	1.340"	1"	6.44"	3.00"	NO	T07IR2504

Order Number Instruction

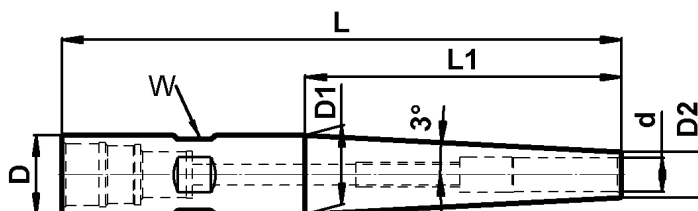


SHRINK-FIT HOLDER 3° SLIM - 250 EXTENSION

3° SLIM

Quality

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm

**SHRINK - FIT HOLDER 3° SLIM METRIC**

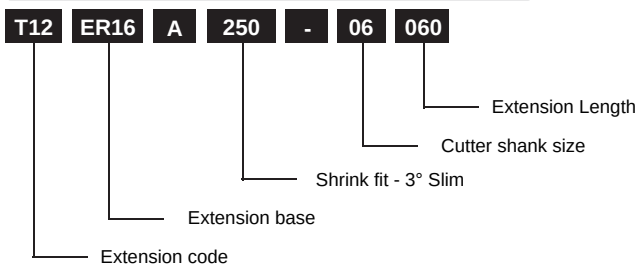
Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	12	11	6	3	80	43	NO	T07IR0801
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	12	12	6	3	120	57	NO	T07IR0801
T12ER08A250-04060	IR08-SF04-060-3° slim	IR08	SF04	60	12	12	7	4	80	47	NO	T07IR0801
T12ER08A250-04100	IR08-SF04-100-3° slim	IR08	SF04	100	12	12	7	4	120	47	NO	T07IR0801
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	12	12	8	5	80	38	NO	T07IR0801
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	12	12	8	5	120	38	NO	T07IR0801
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	12	12	9	6	80	28	NO	T07IR0801
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	12	12	9	6	120	28	NO	T07IR0801
T12ER8SA250-03060	IR8S-SF03-060-3° slim	IR8S	SF03	60	16	11	6	3	80	42	NO	T07IR8S01
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	16	14	6	3	120	78	NO	T07IR8S01
T12ER8SA250-04060	IR8S-SF04-060-3° slim	IR8S	SF04	60	16	11	7	4	80	37	NO	T07IR8S01
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	16	16	7	4	120	85	NO	T07IR8S01
T12ER8SA250-05060	IR8S-SF05-060-3° slim	IR8S	SF05	60	16	12	8	5	80	38	NO	T07IR8S01
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	16	16	8	5	120	76	NO	T07IR8S01
T12ER8SA250-06060	IR8S-SF06-060-3° slim	IR8S	SF06	60	16	15	9	6	80	43	NO	T07IR8S01
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	16	16	9	6	120	66	NO	T07IR8S01
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	16	16	11	8	80	47	NO	T07IR8S01
T12ER8SA250-08100	IR8S-SF08-100-3° slim	IR8S	SF08	100	16	16	11	8	120	47	NO	T07IR8S01
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	16	16	13	10	80	28	NO	T07IR8S01
T12ER8SA250-10100	IR8S-SF10-100-3° slim	IR8S	SF10	100	16	16	13	10	120	28	NO	T07IR8S01
T12ER11A250-03060	IR11-SF03-060-3° slim	IR11	SF03	60	19	12	6	3	95	59	NO	T07ER1101
T12ER11A250-03100	IR11-SF03-100-3° slim	IR11	SF03	100	19	16	6	3	135	99	NO	T07ER1101
T12ER11A250-04060	IR11-SF04-060-3° slim	IR11	SF04	60	19	13	7	4	95	57	NO	T07ER1101
T12ER11A250-04100	IR11-SF04-100-3° slim	IR11	SF04	100	19	17	7	4	135	94	NO	T07ER1101
T12ER11A250-05060	IR11-SF05-060-3° slim	IR11	SF05	60	19	14	8	5	95	58	NO	T07ER1101
T12ER11A250-05100	IR11-SF05-100-3° slim	IR11	SF05	100	19	18	8	5	135	94	NO	T07ER1101
T12ER11A250-06060	IR11-SF06-060-3° slim	IR11	SF06	60	19	15	9	6	95	59	NO	T07ER1101
T12ER11A250-06100	IR11-SF06-100-3° slim	IR11	SF06	100	19	19	9	6	135	95	NO	T07ER1101
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	19	17	11	8	95	59	NO	T07ER1101
T12ER11A250-08100	IR11-SF08-100-3° slim	IR11	SF08	100	19	19	11	8	135	76	NO	T07ER1101
T12ER11A250-10060	IR11-SF10-060-3° slim	IR11	SF10	60	19	19	13	10	95	57	NO	T07ER1101
T12ER11A250-10100	IR11-SF10-100-3° slim	IR11	SF10	100	19	19	13	10	135	57	NO	T07ER1101
T12ER11A250-12060	IR11-SF12-060-3° slim	IR11	SF12	60	19	19	15	12	95	38	NO	T07ER1101
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	19	19	15	12	135	38	NO	T07ER1101

SHRINK - FIT HOLDER 3° SLIM INCH

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	0.47"	0.43"	0.243"	1/8"	3.13"	1.74"	NO	T07IR0801
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	0.47"	0.47"	0.243"	1/8"	4.77"	2.18"	NO	T07IR0801
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	0.47"	0.47"	0.315"	3/16"	3.13"	1.50"	NO	T07IR0801
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	0.47"	0.47"	0.315"	3/16"	4.77"	1.50"	NO	T07IR0801
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	0.47"	0.47"	0.368"	1/4"	3.13"	1.00"	NO	T07IR0801
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	0.47"	0.47"	0.368"	1/4"	4.77"	1.00"	NO	T07IR0801
T12ER8SA250A03060	IR8S-SF1/8"-2.36"-3° slim	IR8S	SF1/8"	2.36"	0.63"	0.42"	0.243"	1/8"	3.13"	1.67"	NO	T07IR8S01
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.243"	1/8"	4.77"	3.68"	NO	T07IR8S01
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	0.63"	0.47"	0.315"	3/16"	3.13"	1.46"	NO	T07IR8S01
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	0.63"	0.63"	0.315"	3/16"	4.77"	3.00"	NO	T07IR8S01
T12ER8SA250A06060	IR8S-SF1/4"-2.36"-3° slim	IR8S	SF1/4"	2.36"	0.63"	0.53"	0.368"	1/4"	3.13"	1.51"	NO	T07IR8S01
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	0.63"	0.63"	0.368"	1/4"	4.77"	2.49"	NO	T07IR8S01
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	0.63"	0.63"	0.433"	5/16"	3.13"	1.87"	NO	T07IR8S01

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA250A08102	IR8S-SF5/16"-4"-3° slim	IR8S	SF5/16"	4.00"	0.63"	0.63"	0.433"	5/16"	4.77"	1.87"	NO	T07IR8S01
T12ER8SA250A09102	IR8S-SF3/8"-4"-3° slim	IR8S	SF3/8"	4.00"	0.63"	0.63"	0.512"	3/8"	4.77"	1.12"	NO	T07IR8S01
T12ER11A250A03051	IR11-SF1/8"-2"-3° slim	IR11	SF1/8"	2.00"	0.75"	0.44"	0.240"	1/8"	3.38"	1.88"	NO	T07ER1101
T12ER11A250A03102	IR11-SF1/8"-4"-3° slim	IR11	SF1/8"	4.00"	0.75"	0.66"	0.240"	1/8"	5.38"	3.96"	NO	T07ER1101
T12ER11A250A05051	IR11-SF3/16"-2"-3° slim	IR11	SF3/16"	2.00"	0.75"	0.52"	0.315"	3/16"	3.38"	1.92"	NO	T07ER1101
T12ER11A250A05102	IR11-SF3/16"-4"-3° slim	IR11	SF3/16"	4.00"	0.75"	0.71"	0.315"	3/16"	5.38"	3.79"	NO	T07ER1101
T12ER11A250A06051	IR11-SF1/4"-2"-3° slim	IR11	SF1/4"	2.00"	0.75"	0.56"	0.368"	1/4"	3.38"	1.96"	NO	T07ER1101
T12ER11A250A06102	IR11-SF1/4"-4"-3° slim	IR11	SF1/4"	4.00"	0.75"	0.75"	0.368"	1/4"	5.38"	3.62"	NO	T07ER1101
T12ER11A250A08051	IR11-SF5/16"-2"-3° slim	IR11	SF5/16"	2.00"	0.75"	0.64"	0.433"	5/16"	3.38"	1.96"	NO	T07ER1101
T12ER11A250A08102	IR11-SF5/16"-4"-3° slim	IR11	SF5/16"	4.00"	0.75"	0.75"	0.433"	5/16"	5.38"	3.00"	NO	T07ER1101
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	0.75"	0.70"	0.512"	3/8"	3.38"	1.78"	NO	T07ER1101
T12ER11A250A09102	IR11-SF3/8"-4"-3° slim	IR11	SF3/8"	4.00"	0.75"	0.75"	0.512"	3/8"	5.38"	2.25"	NO	T07ER1101
T12ER11A250A12051	IR11-SF1/2"-2"-3° slim	IR11	SF1/2"	2.00"	0.75"	0.75"	0.620"	1/2"	3.38"	1.22"	NO	T07ER1101
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	0.75"	0.75"	0.620"	1/2"	5.38"	1.22"	NO	T07ER1101

Order Number Instruction



INDEX - IR BASE

I SYSTEM

SHANK	SIZE		
BT	30	40	50
CAT		40	50
SK		40	50

IPE SYSTEM

SHANK	SIZE		
PBBT	30	40	50
PBCAT		40	50
PBSK		40	50

SHANK	SIZE					
HSK A	32	40	50	63	100	125
HSK E	32	40	50	63		
HSK F	40	50	63	80		
PSC	4	5	6	8		
KM	63					
KZ	63					

BT30 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100
T00BT30926-32100AG	BT30 IR32-100-EXG	IR32	100

BT40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100
T00BT40926-32100AG	BT40 IR32-100-EXG	IR32	100
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100

BT50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100
T00BT50926-25100A	BT50 IR25-100-EX	IR25	100
T00BT50926-32100A	BT50 IR32-100-EX	IR32	100
T00BT50926-32100AG	BT50 IR32-100-EXG	IR32	100
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120
T00BT50926-42120A	BT50 IR42-120-EX	IR42	120

SK40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100
T00SK40926-32100AG	SK40 IR32-100-EXG	IR32	100
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120

SK50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100
T00SK50926-32100AG	SK50 IR32-100-EXG	IR32	100
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105
T00SK50926-41105A	SK50 IR41-105-EX	IR41	105



CAT40 I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40926-11102A	CAT40 IR11-4"-EX	IR11	4.00"
T00CA40926-16102A	CAT40 IR16-4"-EX	IR16	4.00"
T00CA40926-20102A	CAT40 IR20-4"-EX	IR20	4.00"
T00CA40926-25102A	CAT40 IR25-4"-EX	IR25	4.00"
T00CA40926-32120A	CAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40926-32120AG	CAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"

CAT50 I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50926-11102A	CAT50 IR11-4"-EX	IR11	4.00"
T00CA50926-16102A	CAT50 IR16-4"-EX	IR16	4.00"
T00CA50926-20102A	CAT50 IR20-4"-EX	IR20	4.00"
T00CA50926-25102A	CAT50 IR25-4"-EX	IR25	4.00"
T00CA50926-32102A	CAT50 IR32-4"-EX	IR32	4.00"
T00CA50926-32102AG	CAT50 IR32-4"-EXG	IR32	4.00"
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"

HSK A32 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70
T00HA32926-16100	HSK A32 IR16-100-EX	IR16	100

HSK A40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80

HSK A50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100
T00HA50926-32110	HSK A50 IR32-110-EX	IR32	110

INDEX - IR BASE

HSK A63 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110
T00HA63626-32110G	HSK A63 IR32-100-EXG	IR32	110
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120

HSK A80 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100
T00HA80926-32100	HSK A80 IR32-110-EX	IR32	110
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120

HSK A100 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110
T00HA10926-32110G	HSK A100 IR32-110-EXG	IR32	110
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120

HSK A125 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100
T00HA12926-25100	HSK A125 IR25-100-EX	IR25	100
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120

HSK E25 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50

HSK E32 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70
T00HE32926-16100	HSK E32 IR16-100-EX	IR16	100

HSK E40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80

HSK E50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100
T00HE50926-25100	HSK E50 IR25-100-EX	IR25	110
T00HE20926-32110	HSK E50 IR32-100-EX	IR32	120

HSK E63 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110

HSK F40 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50
T00HF40926-11070	HSK F40 IR11-070-EX	IR11	70
T00HF40926-16100	HSK F40 IR16-100-EX	IR16	100
T00HF40926-20100	HSK F40 IR20-100-EX	IR20	100

HSK F50 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50
T00HF50926-11070	HSK F50 IR11-070-EX	IR11	70
T00HF50926-16100	HSK F50 IR16-100-EX	IR16	100
T00HF50926-20100	HSK F50 IR20-100-EX	IR20	100
T00HF50926-25100	HSK F50 IR25-100-EX	IR25	100
T00HF50926-32110	HSK F50 IR32-110-EX	IR32	110

HSK F63 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50
T00HF63926-11070	HSK F63 IR11-070-EX	IR11	70
T00HF63926-16100	HSK F63 IR16-100-EX	IR16	100
T00HF63926-20100	HSK F63 IR20-100-EX	IR20	100
T00HF63926-25100	HSK F63 IR25-100-EX	IR25	100
T00HF63926-32100	HSK F63 IR32-100-EX	IR32	100
T00HF63926-40120	HSK F63 IR40-120-EX	IR40	120

HSK F80 I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50
T00HF80926-11070	HSK F80 IR11-070-EX	IR11	70
T00HF80926-16100	HSK F80 IR16-100-EX	IR16	100
T00HF80926-20100	HSK F80 IR20-100-EX	IR20	100
T00HF80926-25100	HSK F80 IR25-100-EX	IR25	100
T00HF80926-32100	HSK F80 IR32-100-EX	IR32	100
T00HF80926-40100	HSK F80 IR40-100-EX	IR40	100

INDEX - IR EXTENSION BASE - 928

IPE SYSTEM

SHANK	SIZE		
PBBT	30	40	50
PBCAT		40	50
PBSK		40	50

PBBT30 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100

PBBT40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100
T00BT40928-32100AG	PBBT40 IR32-100-EXG	IR32	100
T00BT40928-40100A	PBBT40 IR40-100-EX	IR40	100

PBBT50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100
T00BT50928-25100A	PBBT50 IR25-100-EX	IR25	100
T00BT50928-32100A	PBBT50 IR32-100-EX	IR32	100
T00BT50928-32100AG	PBBT50 IR32-100-EXG	IR32	100
T00BT50928-40120A	PBBT50 IR40-120-EX	IR40	120
T00BT50928-42120A	PBBT50 IR42-120-EX	IR42	120

PBSK40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100
T00SK40928-32100A	PBSK40 IR32-100-EX	IR32	100
T00SK40928-32100AG	PBSK40 IR32-100-EXG	IR32	100
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120

PBCAT40 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40928-11102A	PBCAT40 IR11-4"-EX	IR11	4.00"
T00CA40928-16102A	PBCAT40 IR16-4"-EX	IR16	4.00"
T00CA40928-20102A	PBCAT40 IR20-4"-EX	IR20	4.00"
T00CA40928-25102A	PBCAT40 IR25-4"-EX	IR25	4.00"
T00CA40928-32120A	PBCAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40928-32120AG	PBCAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"

PBCAT50 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50928-8S072A	PBCAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50928-11102A	PBCAT50 IR11-4"-EX	IR11	4.00"
T00CA50928-16102A	PBCAT50 IR16-4"-EX	IR16	4.00"
T00CA50928-20102A	PBCAT50 IR20-4"-EX	IR20	4.00"
T00CA50928-25102A	PBCAT50 IR25-4"-EX	IR25	4.00"
T00CA50928-32102A	PBCAT50 IR32-4"-EX	IR32	4.00"
T00CA50928-32102AG	PBCAT50 IR32-4"-EXG	IR32	4.00"
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"

PBSK50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100
T00SK50928-32100A	PBSK50 IR32-100-EX	IR32	100
T00SK50928-32100AG	PBSK50 IR32-100-EXG	IR32	100
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105
T00SK50928-41105A	PBSK50 IR41-105-EX	IR41	105



INDEX - IR EXTENSION BASE - 929

IPE SYSTEM

SHANK	SIZE		
PBT	30	40	50
PCAT		40	50
PSK		40	50

PBT30 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100


PBT40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100
T00BT40929-32100AG	PBT40 IR32-100-EXG	IR32	100
T00BT40929-40100A	PBT40 IR40-100-EX	IR40	100

PCAT40 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA40929-08072A	PCAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40929-11102A	PCAT40 IR11-4"-EX	IR11	4.00"
T00CA40929-16102A	PCAT40 IR16-4"-EX	IR16	4.00"
T00CA40929-20102A	PCAT40 IR20-4"-EX	IR20	4.00"
T00CA40929-25102A	PCAT40 IR25-4"-EX	IR25	4.00"
T00CA40929-32120A	PCAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40929-32120AG	PCAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"

PBT50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100
T00BT50929-25100A	PBT50 IR25-100-EX	IR25	100
T00BT50929-32100A	PBT50 IR32-100-EX	IR32	100
T00BT50929-32100AG	PBT50 IR32-100-EXG	IR32	100
T00BT50929-40120A	PBT50 IR40-120-EX	IR40	120
T00BT50929-42120A	PBT50 IR42-120-EX	IR42	120

PCAT50 I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50929-11102A	PCAT50 IR11-4"-EX	IR11	4.00"
T00CA50929-16102A	PCAT50 IR16-4"-EX	IR16	4.00"
T00CA50929-20102A	PCAT50 IR20-4"-EX	IR20	4.00"
T00CA50929-25102A	PCAT50 IR25-4"-EX	IR25	4.00"
T00CA50929-32102A	PCAT50 IR32-4"-EX	IR32	4.00"
T00CA50929-32102AG	PCAT50 IR32-4"-EXG	IR32	4.00"
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"

PSK40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100
T00SK40929-32100A	PSK40 IR32-100-EX	IR32	100
T00SK40929-32100AG	PSK40 IR32-100-EXG	IR32	100
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120

PSK50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100
T00SK50929-32100A	PSK50 IR32-100-EX	IR32	100
T00SK50929-32100AG	PSK50 IR32-100-EXG	IR32	100
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105
T00SK50929-41105A	PSK50 IR41-105-EX	IR41	105

INDEX - IR08 EXTENSION

BT- I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	

PBBT- IPE SYSTEM, IR EXTENSION BASE **METRIC** BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

PBT- IPE SYSTEM, IR EXTENSION BASE **METRIC** STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70	
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70	
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70	
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70	
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70	
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70	

CAT- I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE **INCH** BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA50928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	

PCAT- IPE SYSTEM, IR EXTENSION BASE **INCH** STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-08072A	PCAT40 IR8-2.82"-EX	IR08	2.82"	
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	

SK- I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	

PBSK- IPE SYSTEM, IR EXTENSION BASE **METRIC** BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	

PSK- IPE SYSTEM, IR EXTENSION BASE **METRIC** STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50	
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50	

HSK A - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	
T00HA63926-08070	HSK A63 IR08-050-EX	IR08	70	
T00HA63926-8S070	HSK A63 IR8S-050-EX	IR8S	70	
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	

HSK E - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45	
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45	
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	

HSK F - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50	
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50	
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50	
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50	
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	

INDEX - IR08 EXTENSION

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A926-08035	IR08-IR08-035-EX	IR08	IR08	35	
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A926A08034	IR08-IR08-1.32"-EX	IR08	IR08	1.32"	
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	
T12ER08A926A08072	IR08-IR08-2.84"-EX	IR08	IR08	2.84"	
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	
T12ER08AM20-08090	IR08-ER08-090M	IR08	ER08M	90	
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	
T12ER08AM20-08130	IR08-ER08-130M	IR08	ER08M	130	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	
T12ER08AM20A08081	IR08-ER08-3.19"M	IR08	ER08M	3.19"	
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	
T12ER08AM20A08132	IR08-ER08-5.19"M	IR08	ER08M	5.19"	

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	
T12ER08A250-04060	IR08-SF04-060-3° slim	IR08	SF04	60	
T12ER08A250-04100	IR08-SF04-100-3° slim	IR08	SF04	100	
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	

INDEX - IR8S EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

CAT- I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50928-8S072A	PBCAT80 IR8S-2.82"-EX	IR8S	2.82"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-08072A	PCAT40 IR8-2.82"-EX	IR08	2.82"	
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	

SK- I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	
T00HA63926-08070	HSK A63 IR08-050-EX	IR08	70	
T00HA63926-8S070	HSK A63 IR8S-050-EX	IR8S	70	
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45	
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45	
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50	
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50	
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50	
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50	
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	

INDEX - IR8S EXTENSION

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA926-08050	IR8S-IR08-050-EX	IR8S	IR08	50	
T12ER8SA926-08100	IR8S-IR08-100-EX	IR8S	IR08	100	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA926A08102	IR8S-IR08-4"-EX	IR8S	IR08	4.00"	
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	
T12ER8SA926A8S127	IR8S-IR8S-5"-EX	IR8S	IR8S	5.00"	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	100	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	
T12ER8SA220A03102	IR8S-SF1/8"-4"-4.5°	IR8S	SF1/8"	4.00"	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA240-03060	IR8S-SF03-060-3°	IR8S	SF03	60	
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	
T12ER8SA240-04060	IR8S-SF04-060-3°	IR8S	SF04	60	
T12ER8SA240-04100	IR8S-SF04-100-3°	IR8S	SF04	100	
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	
T12ER8SA240-06100	IR8S-SF06-100-3°	IR8S	SF06	100	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA240A03051	IR8S-SF1/8"-2"-3°	IR8S	SF1/8"	2.00"	
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4.00"	
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2.00"	
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4.00"	
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2.00"	
T12ER8SA240A06102	IR8S-SF1/4"-4"-3°	IR8S	SF1/4"	4.00"	

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA250-03060	IR8S-SF03-060-3° slim	IR8S	SF03	60	
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	
T12ER8SA250-04060	IR8S-SF04-060-3° slim	IR8S	SF04	60	
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	
T12ER8SA250-05060	IR8S-SF05-060-3° slim	IR8S	SF05	60	
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	
T12ER8SA250-06060	IR8S-SF06-060-3° slim	IR8S	SF06	60	
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	
T12ER8SA250-08100	IR8S-SF08-100-3° slim	IR8S	SF08	100	
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	
T12ER8SA250-10100	IR8S-SF10-100-3° slim	IR8S	SF10	100	

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA250A03060	IR8S-SF1/8"-2.36"-3° slim	IR8S	SF1/8"	2.36"	
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	
T12ER8SA250A06060	IR8S-SF1/4"-2.36"-3° slim	IR8S	SF1/4"	2.36"	
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	
T12ER8SA250A08102	IR8S-SF5/16"-4"-3° slim	IR8S	SF5/16"	4.00"	
T12ER8SA250A09102	IR8S-SF3/8"-4"-3° slim	IR8S	SF3/8"	4.00"	

INDEX - IR11 EXTENSION
BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100	
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70	
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100	
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100	
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70	
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100	
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100	
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70	
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100	
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-11102A	CAT40 IR11-4"-EX	IR11	4.00"	
T00CA50926-11102A	CAT50 IR11-4"-EX	IR11	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-11102A	PBCAT40 IR11-4"-EX	IR11	4.00"	
T00CA50928-11102A	PBCAT50 IR11-4"-EX	IR11	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-11102A	PCAT40 IR11-4"-EX	IR11	4.00"	
T00CA50929-11102A	PCAT50 IR11-4"-EX	IR11	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70	
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80	
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70	
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70	
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100	
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50	
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70	
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80	
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70	
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-11070	HSK F40 IR11-070-EX	IR11	70	
T00HF50926-11070	HSK F50 IR11-070-EX	IR11	70	
T00HF63926-11070	HSK F63 IR11-070-EX	IR11	70	
T00HF80926-11070	HSK F80 IR11-070-EX	IR11	70	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70	
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70	
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70	
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-08020	IR11-IR08-020-EX	IR11	IR08	20	
T12ER11A926-08050	IR11-IR08-050-EX	IR11	IR08	50	
T12ER11A926-08070	IR11-IR08-070-EX	IR11	IR08	70	
T12ER11A926-08100	IR11-IR08-100-EX	IR11	IR08	100	
T12ER11A926-8S050	IR11-IR8S-050-EX	IR11	IR8S	50	
T12ER11A926-8S070	IR11-IR8S-070-EX	IR11	IR8S	70	
T12ER11A926-8S100	IR11-IR8S-100-EX	IR11	IR8S	100	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	
T12ER11A926-11200	IR11-IR11-200-EX	IR11	IR11	200	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A08102	IR11-IR08-4"-EX	IR11	IR08	4.00"	
T12ER11A926A8S102	IR11-IR8S-4"-EX	IR11	IR8S	4.00"	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	
T12ER11A926A11127	IR11-IR11-5"-EX	IR11	IR11	5.00"	
T12ER11A926A11203	IR11-IR11-8"-EX	IR11	IR11	8.00"	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.00"	

INDEX - IR11 EXTENSION
SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A210-06100	IR11-HC06-100	IR11	HC06	100	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A030A03051	IR11-EM1/8"-2.0"J	IR11	EM1/8"	2.00"	
T12ER11A030A03102	IR11-EM1/8"-4.0"J	IR11	EM1/8"	4.00"	
T12ER11A030A05051	IR11-EM3/16"-2.0"J	IR11	EM3/16"	2.00"	
T12ER11A030A05102	IR11-EM3/16"-4.0"J	IR11	EM3/16"	4.00"	
T12ER11A030A06051	IR11-EM1/4"-2.0"J	IR11	EM1/4"	2.00"	
T12ER11A030A06102	IR11-EM1/4"-4.0"J	IR11	EM1/4"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A040A03051	IR11-EM1/8"-2.0"	IR11	EM1/8"	2.00"	
T12ER11A040A03102	IR11-EM1/8"-4.0"	IR11	EM1/8"	4.00"	
T12ER11A040A05051	IR11-EM3/16"-2.0"	IR11	EM3/16"	2.00"	
T12ER11A040A05102	IR11-EM3/16"-4.0"	IR11	EM3/16"	4.00"	
T12ER11A040A06051	IR11-EM1/4"-2.0"	IR11	EM1/4"	2.00"	
T12ER11A040A06102	IR11-EM1/4"-4.0"	IR11	EM1/4"	4.00"	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	60	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03060	IR11-SF03-060-3°	IR11	SF03	60	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	
T12ER11A240-04060	IR11-SF04-060-3°	IR11	SF04	60	
T12ER11A240-04100	IR11-SF04-100-3°	IR11	SF04	100	
T12ER11A240-05060	IR11-SF05-060-3°	IR11	SF05	60	
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	
T12ER11A240-06060	IR11-SF06-060-3°	IR11	SF06	60	
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	
T12ER11A240-08100	IR11-SF08-100-3°	IR11	SF08	100	
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	
T12ER11A240-10100	IR11-SF10-100-3°	IR11	SF10	100	
T12ER11A240-12060	IR11-SF12-060-3°	IR11	SF12	60	
T12ER11A240-12100	IR11-SF12-100-3°	IR11	SF12	100	

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A250-03060	IR11-SF03-060-3° slim	IR11	SF03	60	
T12ER11A250-03100	IR11-SF03-100-3° slim	IR11	SF03	100	
T12ER11A250-04060	IR11-SF04-060-3° slim	IR11	SF04	60	
T12ER11A250-04100	IR11-SF04-100-3° slim	IR11	SF04	100	
T12ER11A250-05060	IR11-SF05-060-3° slim	IR11	SF05	60	
T12ER11A250-05100	IR11-SF05-100-3° slim	IR11	SF05	100	
T12ER11A250-06060	IR11-SF06-060-3° slim	IR11	SF06	60	
T12ER11A250-06100	IR11-SF06-100-3° slim	IR11	SF06	100	
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	
T12ER11A250-08100	IR11-SF08-100-3° slim	IR11	SF08	100	
T12ER11A250-10060	IR11-SF10-060-3° slim	IR11	SF10	60	
T12ER11A250-10100	IR11-SF10-100-3° slim	IR11	SF10	100	
T12ER11A250-12060	IR11-SF12-060-3° slim	IR11	SF12	60	
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	
T12ER8SA220A03102	IR8S-SF1/8"-4"-4.5°	IR8S	SF1/8"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A200A08060	IR11-M08-2.36"	IR11	M08	2.36"	
T12ER11A200A08100	IR11-M08-3.94"	IR11	M08	3.94"	
T12ER11A200A10060	IR11-M10-2.36"	IR11	M10	2.36"	
T12ER11A200A10100	IR11-M10-3.94"	IR11	M10	3.94"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03051	IR11-SF1/8"-2"-3°	IR11	SF1/8"	2.00"	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	
T12ER11A240A05051	IR11-SF3/16"-2"-3°	IR11	SF3/16"	2.00"	
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	
T12ER11A240A06051	IR11-SF1/4"-2"-3°	IR11	SF1/4"	2.00"	
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2.00"	
T12ER11A240A08102	IR11-SF5/16"-4"-3°	IR11	SF5/16"	4.00"	
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	
T12ER11A240A09102	IR11-SF3/8"-4"-3°	IR11	SF3/8"	4.00"	
T12ER11A240A12051	IR11-SF1/2"-2"-3°	IR11	SF1/2"	2.00"	
T12ER11A240A12102	IR11-SF1/2"-4"-3°	IR11	SF1/2"	4.00"	

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A250A03051	IR11-SF1/8"-2"-3° slim	IR11	SF1/8"	2.00"	
T12ER11A250A03102	IR11-SF1/8"-4"-3° slim	IR11	SF1/8"	4.00"	
T12ER11A250A05051	IR11-SF3/16"-2"-3° slim	IR11	SF3/16"	2.00"	
T12ER11A250A05102	IR11-SF3/16"-4"-3° slim	IR11	SF3/16"	4.00"	
T12ER11A250A06051	IR11-SF1/4"-2"-3° slim	IR11	SF1/4"	2.00"	
T12ER11A250A06102	IR11-SF1/4"-4"-3° slim	IR11	SF1/4"	4.00"	
T12ER11A250A08051	IR11-SF5/16"-2"-3° slim	IR11	SF5/16"	2.00"	
T12ER11A250A08102	IR11-SF5/16"-4"-3° slim	IR11	SF5/16"	4.00"	
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	
T12ER11A250A09102	IR11-SF3/8"-4"-3° slim	IR11	SF3/8"	4.00"	
T12ER11A250A12051	IR11-SF1/2"-2"-3° slim	IR11	SF1/2"	2.00"	
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	

INDEX - IR16 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100	
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100	
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100	
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100	
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100	
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100	
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-16102A	CAT40 IR16-4"-EX	IR16	4.00"	
T00CA50926-16102A	CAT50 IR16-4"-EX	IR16	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-16102A	PBCAT40 IR16-4"-EX	IR16	4.00"	
T00CA50928-16102A	PBCAT50 IR16-4"-EX	IR16	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-16102A	PCAT40 IR16-4"-EX	IR16	4.00"	
T00CA50929-16102A	PCAT50 IR16-4"-EX	IR16	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-16100	HSK A32 IR16-100-EX	IR16	100	
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80	
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100	
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100	
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100	
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100	
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE32926-16100	HSK E32 IR16-100-EX	IR16	100	
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80	
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100	
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-16100	HSK F40 IR16-100-EX	IR16	100	
T00HF50926-16100	HSK F50 IR16-100-EX	IR16	100	
T00HF63926-16100	HSK F63 IR16-100-EX	IR16	100	
T00HF80926-16100	HSK F80 IR16-100-EX	IR16	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100	
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100	
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100	
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-11050	IR16-IR11-050-EX	IR16	IR11	50	
T12ER16A926-11100	IR16-IR11-100-EX	IR16	IR11	100	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	
T12ER16A926-16112	IR16-IR16-112-EX	IR16	IR16	112	
T12ER16A926-16200	IR16-IR16-200-EX	IR16	IR16	200	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16AM20-11060	IR16-ER11-060M	IR16	ER11M	60	1
T12ER16AM20-11100	IR16-ER11-100M	IR16	ER11M	100	
T12ER16AM20-16060	IR16-ER16-060M	IR16	ER16M	60	1
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	
T12ER16AM20-20060	IR16-ER20-060M	IR16	ER20M	60	
T12ER16AM20-20100	IR16-ER20-100M	IR16	ER20M	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-11060	IR16-ER11-060	IR16	ER11	60	
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	
T12ER16A020-16112	IR16-ER16-112	IR16	ER16	112	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A11102	IR16-IR11-4"-EX	IR16	IR11	4.00"	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	
T12ER16A926A16127	IR16-IR16-5"-EX	IR16	IR16	5.00"	
T12ER16A926A16203	IR16-IR16-8"-EX	IR16	IR16	8.00"	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16AM20A11051	IR16-ER11-2.0"M	IR16	ER11M	2.00"	1
T12ER16AM20A11102	IR16-ER11-4.0"M	IR16	ER11M	4.00"	
T12ER16AM20A16051	IR16-ER16-2.0"M	IR16	ER16M	2.00"	1
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	
T12ER16AM20A20051	IR16-ER20-2.0"M	IR16	ER20M	2.00"	
T12ER16AM20A20102	IR16-ER20-4.0"M	IR16	ER20M	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A11051	IR16-ER11-2.0"	IR16	ER11	2.00"	
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.00"	
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.00"	
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	

INDEX - IR16 EXTENSION

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A030-06060	IR16-EM06-060J	IR16	EM06	60	
T12ER16A030-06100	IR16-EM06-100J	IR16	EM06	100	
T12ER16A030-08060	IR16-EM08-060J	IR16	EM08	60	
T12ER16A030-08100	IR16-EM08-100J	IR16	EM08	100	

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A040-06060	IR16-EM06-060	IR16	EM06	60	
T12ER16A040-06100	IR16-EM06-100	IR16	EM06	100	
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	
T12ER16A040-08100	IR16-EM08-100	IR16	EM08	100	

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A050-06060	IR16-EM06-060W	IR16	EM06	60	
T12ER16A050-06100	IR16-EM06-100W	IR16	EM06	100	
T12ER16A050-08060	IR16-EM08-060W	IR16	EM08	60	
T12ER16A050-08100	IR16-EM08-100W	IR16	EM08	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A200-10060	IR16-M10-060	IR16	M10	60	
T12ER16A200-10100	IR16-M10-100	IR16	M10	100	
T12ER16A200-12060	IR16-M12-060	IR16	M12	60	
T12ER16A200-12100	IR16-M12-100	IR16	M12	100	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A210-06100	IR16-HC06-100	IR16	HC06	100	
T12ER16A210-10100	IR16-HC10-100	IR16	HC10	100	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	
T12ER16A220-06100	IR16-SF06-100-4.5°	IR16	SF06	100	
T12ER16A220-08060	IR16-SF08-060-4.5°	IR16	SF08	60	
T12ER16A220-08100	IR16-SF08-100-4.5°	IR16	SF08	100	
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	
T12ER16A220-10100	IR16-SF10-100-4.5°	IR16	SF10	100	
T12ER16A220-12060	IR16-SF12-060-4.5°	IR16	SF12	60	
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A230-10060	IR16-SF10-060-4.5° slim	IR16	SF10	60	
T12ER16A230-10100	IR16-SF10-100-4.5° slim	IR16	SF10	100	
T12ER16A230-12060	IR16-SF12-060-4.5° slim	IR16	SF12	60	
T12ER16A230-12100	IR16-SF12-100-4.5° slim	IR16	SF12	100	
T12ER16A230-16060	IR16-SF16-060-4.5° slim	IR16	SF16	60	
T12ER16A230-16100	IR16-SF16-100-4.5° slim	IR16	SF16	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	
T12ER16A240-16060	IR16-SF16-060-3°	IR16	SF16	60	
T12ER16A240-16100	IR16-SF16-100-3°	IR16	SF16	100	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A030A06051	IR16-EM1/4"-2.0"J	IR16	EM1/4"	2.00"	
T12ER16A030A06102	IR16-EM1/4"-4.0"J	IR16	EM1/4"	4.00"	
T12ER16A030A08051	IR16-EM5/16"-2.0"J	IR16	EM5/16"	2.00"	
T12ER16A030A08102	IR16-EM5/16"-4.0"J	IR16	EM5/16"	4.00"	
T12ER16A030A09051	IR16-EM3/8"-2.0"J	IR16	EM3/8"	2.00"	
T12ER16A030A09102	IR16-EM3/8"-4.0"J	IR16	EM3/8"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A040A06051	IR16-EM1/4"-2.0"	IR16	EM1/4"	2.00"	
T12ER16A040A06102	IR16-EM1/4"-4.0"	IR16	EM1/4"	4.00"	
T12ER16A040A08051	IR16-EM5/16"-2.0"	IR16	EM5/16"	2.00"	
T12ER16A040A08102	IR16-EM5/16"-4.0"	IR16	EM5/16"	4.00"	
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.00"	
T12ER16A040A09102	IR16-EM3/8"-4.0"	IR16	EM3/8"	4.00"	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A200A10060	IR16-M10-2.36"	IR16	M10	2.36"	
T12ER16A200A10100	IR16-M10-3.94"	IR16	M10	3.94"	
T12ER16A200A12060	IR16-M12-2.36"	IR16	M12	2.36"	
T12ER16A200A12100	IR16-M12-3.94"	IR16	M12	3.94"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	
T12ER16A220A06060	IR16-SF1/4"-2.36"-4.5°	IR16	SF1/4"	2.36"	
T12ER16A220A06102	IR16-SF1/4"-4"-4.5°	IR16	SF1/4"	4.00"	
T12ER16A220A08051	IR16-SF5/16"-2"-4.5°	IR16	SF5/16"	2.00"	
T12ER16A220A08060	IR16-SF5/16"-2.36"-4.5°	IR16	SF5/16"	2.36"	
T12ER16A220A08102	IR16-SF5/16"-4"-4.5°	IR16	SF5/16"	4.00"	
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	
T12ER16A220A09060	IR16-SF3/8"-2.36"-4.5°	IR16	SF3/8"	2.36"	
T12ER16A220A09102	IR16-SF3/8"-4"-4.5°	IR16	SF3/8"	4.00"	
T12ER16A220A12051	IR16-SF1/2"-2"-4.5°	IR16	SF1/2"	2.00"	
T12ER16A220A12060	IR16-SF1/2"-2.36"-4.5°	IR16	SF1/2"	2.36"	
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A230A09060	IR16-SF3/8"-2.36"-4.5° slim	IR16	SF3/8"	2.36"	
T12ER16A230A09102	IR16-SF3/8"-4"-4.5° slim	IR16	SF3/8"	4.00"	
T12ER16A230A12060	IR16-SF1/2"-2.36"-4.5° slim	IR16	SF1/2"	2.36"	
T12ER16A230A12102	IR16-SF1/2"-4"-4.5° slim	IR16	SF1/2"	4.00"	
T12ER16A230A16060	IR16-SF5/8"-2.36"-4.5° slim	IR16	SF5/8"	2.36"	
T12ER16A230A16102	IR16-SF5/8"-4"-4.5° slim	IR16	SF5/8"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4.00"	
T12ER16A240A16051	IR16-SF5/8"-2"-3°	IR16	SF5/8"	2.00"	
T12ER16A240A16102	IR16-SF5/8"-4"-3°	IR16	SF5/8"	4.00"	

INDEX - IR20 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100	
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100	
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100	
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100	
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100	
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100	
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-20102A	CAT40 IR20-4"-EX	IR20	4.00"	
T00CA50926-20102A	CAT50 IR20-4"-EX	IR20	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-20102A	PBCAT40 IR20-4"-EX	IR20	4.00"	
T00CA50928-20102A	PBCAT50 IR20-4"-EX	IR20	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-20102A	PCAT40 IR20-4"-EX	IR20	4.00"	
T00CA50929-20102A	PCAT50 IR20-4"-EX	IR20	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80	
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100	
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100	
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100	
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100	
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80	
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100	
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-20100	HSK F40 IR20-100-EX	IR20	100	
T00HF50926-20100	HSK F50 IR20-100-EX	IR20	100	
T00HF63926-20100	HSK F63 IR20-100-EX	IR20	100	
T00HF80926-20100	HSK F80 IR20-100-EX	IR20	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100	
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A926-16050	IR20-IR16-050-EX	IR20	IR16	50	
T12ER20A926-16100	IR20-IR16-100-EX	IR20	IR16	100	
T12ER20A926-16112	IR20-IR16-112-EX	IR20	IR16	112	
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	
T12ER20A926-20112	IR20-IR20-112-EX	IR20	IR20	112	
T12ER20A926-20200	IR20-IR20-200-EX	IR20	IR20	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	
T12ER20A020-16112	IR20-ER16-112	IR20	ER16	112	
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	
T12ER20A020-20112	IR20-ER20-112	IR20	ER20	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A030-10060	IR20-EM10-060J	IR20	EM10	60	
T12ER20A030-10100	IR20-EM10-100J	IR20	EM10	100	

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A040-08112	IR20-EM08-112	IR20	EM08	112	
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	
T12ER20A040-10100	IR20-EM10-100	IR20	EM10	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	
T12ER20A926A20127	IR20-IR20-5"-EX	IR20	IR20	5.00"	
T12ER20A926A20203	IR20-IR20-8"-EX	IR20	IR20	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.00"	
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A030A12051	IR20-EM1/2"-2.0"J	IR20	EM1/2"	2.00"	
T12ER20A030A12102	IR20-EM1/2"-4.0"J	IR20	EM1/2"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.00"	
T12ER20A040A12102	IR20-EM1/2"-4.0"	IR20	EM1/2"	4.00"	

INDEX - IR20 EXTENSION

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A050-10060	IR20-EM10-060W	IR20	EM10	60	
T12ER20A050-10100	IR20-EM10-100W	IR20	EM10	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A120-16060	IR20-SM16-060	IR20	SM16	60	
T12ER20A120-16100	IR20-SM16-100	IR20	SM16	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A130-16060	IR20-SM16-060J	IR20	SM16	60	
T12ER20A130-16100	IR20-SM16-100J	IR20	SM16	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A200-10060	IR20-M10-060	IR20	M10	60	
T12ER20A200-10100	IR20-M10-100	IR20	M10	100	
T12ER20A200-10112	IR20-M10-112	IR20	M10	112	
T12ER20A200-12060	IR20-M12-060	IR20	M12	60	
T12ER20A200-12100	IR20-M12-100	IR20	M12	100	
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	
T12ER20A200-16100	IR20-M16-100	IR20	M16	100	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A210-16100	IR20-HC16-100	IR20	HC16	100	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A220-14060	IR20-SF14-060-4.5°	IR20	SF14	60	
T12ER20A220-14100	IR20-SF14-100-4.5°	IR20	SF14	100	
T12ER20A220-16060	IR20-SF16-060-4.5°	IR20	SF16	60	
T12ER20A220-16100	IR20-SF16-100-4.5°	IR20	SF16	100	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A230-20060	IR20-SF20-060-4.5° slim	IR20	SF20	60	
T12ER20A230-20100	IR20-SF20-100-4.5° slim	IR20	SF20	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A240-16100	IR20-SF16-100-3°	IR20	SF16	100	
T12ER20A240-20060	IR20-SF20-060-3°	IR20	SF20	60	
T12ER20A240-20100	IR20-SF20-100-3°	IR20	SF20	100	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A200A10060	IR20-M10-2.36"	IR20	M10	2.36"	
T12ER20A200A10100	IR20-M10-3.94"	IR20	M10	3.94"	
T12ER20A200A10112	IR20-M10-4.41"	IR20	M10	4.41"	
T12ER20A200A12060	IR20-M12-2.36"	IR20	M12	2.36"	
T12ER20A200A12100	IR20-M12-3.94"	IR20	M12	3.94"	
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	
T12ER20A200A16100	IR20-M16-3.94"	IR20	M16	3.94"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A220A16051	IR20-SF5/8"-2"-4.5°	IR20	SF5/8"	2.00"	
T12ER20A220A16102	IR20-SF5/8"-4"-4.5°	IR20	SF5/8"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A230A19051	IR20-SF3/4"-2"-4.5° slim	IR20	SF3/4"	2.00"	
T12ER20A230A19102	IR20-SF3/4"-4"-4.5° slim	IR20	SF3/4"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A240A16102	IR20-SF5/8"-4"-3°	IR20	SF5/8"	4.00"	
T12ER20A240A19051	IR20-SF3/4"-2"-3°	IR20	SF3/4"	2.00"	
T12ER20A240A19102	IR20-SF3/4"-4"-3°	IR20	SF3/4"	4.00"	

INDEX - IR25 EXTENSION
BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100	
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100	
T00BT50926-25110A	BT50 IR25-110-EX	IR25	110	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100	
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100	
T00BT50928-25110A	PBBT50 IR25-110-EX	IR25	110	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100	
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100	
T00BT50929-25110A	PBT50 IR25-110-EX	IR25	110	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-25102A	CAT40 IR25-4"-EX	IR25	4.00"	
T00CA50926-25102A	CAT50 IR25-4"-EX	IR25	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-25102A	PBCAT40 IR25-4"-EX	IR25	4.00"	
T00CA50928-25102A	PBCAT50 IR25-4"-EX	IR25	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-25102A	PCAT40 IR25-4"-EX	IR25	4.00"	
T00CA50929-25102A	PCAT50 IR25-4"-EX	IR25	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	80	
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100	
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100	
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100	
T00HA12926-25100	HSK A125 IR25-100-EX	IR25	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE50926-25100	HSK E50 IR25-100-EX	IR25	100	
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF50926-25100	HSK F50 IR25-100-EX	IR25	100	
T00HF63926-25100	HSK F63 IR25-100-EX	IR25	100	
T00HF80926-25100	HSK F80 IR25-100-EX	IR25	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100	
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100	
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100	
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A926-16050	IR25-IR16-050-EX	IR25	IR16	50	
T12ER25A926-16100	IR25-IR16-100-EX	IR25	IR16	100	
T12ER25A926-16112	IR25-IR16-112-EX	IR25	IR16	112	
T12ER25A926-20050	IR25-IR20-050-EX	IR25	IR20	50	
T12ER25A926-20100	IR25-IR20-100-EX	IR25	IR20	100	
T12ER25A926-20112	IR25-IR20-112-EX	IR25	IR20	112	
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	
T12ER25A926-25112	IR25-IR25-112-EX	IR25	IR25	112	
T12ER25A926-25200	IR25-IR25-200-EX	IR25	IR25	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	
T12ER25A020-16112	IR25-ER16-112	IR25	ER16	112	
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A030-12060	IR25-EM12-060J	IR25	EM12	60	
T12ER25A030-12100	IR25-EM12-100J	IR25	EM12	100	
T12ER25A030-16060	IR25-EM16-060J	IR25	EM16	60	
T12ER25A030-16100	IR25-EM16-100J	IR25	EM16	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	
T12ER25A926A25127	IR25-IR25-5"-EX	IR25	IR25	5.00"	
T12ER25A926A25203	IR25-IR25-8"-EX	IR25	IR25	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.00"	
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A030A16051	IR25-EM5/8"-2.0"J	IR25	EM5/8"	2.00"	
T12ER25A030A16102	IR25-EM5/8"-4.0"J	IR25	EM5/8"	4.00"	
T12ER25A030A19051	IR25-EM3/4"-2.0"J	IR25	EM3/4"	2.00"	
T12ER25A030A19102	IR25-EM3/4"-4.0"J	IR25	EM3/4"	4.00"	

INDEX - IR25 EXTENSION
END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A040-12060	IR25-EM12-060	IR25	EM12	60	
T12ER25A040-12100	IR25-EM12-100	IR25	EM12	100	
T12ER25A040-14060	IR25-EM14-060	IR25	EM14	60	
T12ER25A040-14100	IR25-EM14-100	IR25	EM14	100	
T12ER25A040-16060	IR25-EM16-060	IR25	EM16	60	
T12ER25A040-16100	IR25-EM16-100	IR25	EM16	100	

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A050-12060	IR25-EM12-060W	IR25	EM12	60	
T12ER25A050-12100	IR25-EM12-100W	IR25	EM12	100	
T12ER25A050-14060	IR25-EM14-060W	IR25	EM14	60	
T12ER25A050-14100	IR25-EM14-100W	IR25	EM14	100	
T12ER25A050-16060	IR25-EM16-060W	IR25	EM16	60	
T12ER25A050-16100	IR25-EM16-100W	IR25	EM16	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A120-16060	IR25-SM16-060	IR25	SM16	60	
T12ER25A120-16100	IR25-SM16-100	IR25	SM16	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A130-16060	IR25-SM16-060J	IR25	SM16	60	
T12ER25A130-16100	IR25-SM16-100J	IR25	SM16	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A200-12112	IR25-M12-112	IR25	M12	112	
T12ER25A200-16112	IR25-M16-112	IR25	M16	112	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A220-18060	IR25-SF18-060-4.5°	IR25	SF18	60	
T12ER25A220-18100	IR25-SF18-100-4.5°	IR25	SF18	100	
T12ER25A220-20060	IR25-SF20-060-4.5°	IR25	SF20	60	
T12ER25A220-20100	IR25-SF20-100-4.5°	IR25	SF20	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A240-25060	IR25-SF25-060-3°	IR25	SF25	60	
T12ER25A240-25100	IR25-SF25-100-3°	IR25	SF25	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A040A16051	IR25-EM5/8"-2.0"	IR25	EM5/8"	2.00"	
T12ER25A040A16102	IR25-EM5/8"-4.0"	IR25	EM5/8"	4.00"	
T12ER25A040A19051	IR25-EM3/4"-2.0"	IR25	EM3/4"	2.00"	
T12ER25A040A19102	IR25-EM3/4"-4.0"	IR25	EM3/4"	4.00"	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A120A19063	IR25-SM3/4"-2.5"	IR25	SM 3/4"	2.50"	
T12ER25A120A19102	IR25-SM3/4"-4"	IR25	SM 3/4"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A130A19063	IR25-SM3/4"-2.5"J	IR25	SM 3/4"	2.50"	
T12ER25A130A19102	IR25-SM3/4"-4"J	IR25	SM 3/4"	4.00"	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A200A12112	IR25-M12-4.41"	IR25	M12	4.41"	
T12ER25A200A16112	IR25-M16-4.41"	IR25	M16	4.41"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A220A19051	IR25-SF3/4"-2"-4.5°	IR25	SF3/4"	2.00"	
T12ER25A220A19102	IR25-SF3/4"-4"-4.5°	IR25	SF3/4"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A240A25051	IR25-SF1"-2"-3°	IR25	SF1"	2.00"	
T12ER25A240A25102	IR25-SF1"-4"-3°	IR25	SF1"	4.00"	

INDEX - IR32 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100	
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100	
T00BT50926-32110A	BT50 IR32-110-EX	IR32	110	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100	
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100	
T00BT50928-32110A	PBBT50 IR32-110-EX	IR32	110	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100	
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100	
T00BT50929-32110A	PBT50 IR32-110-EX	IR32	110	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-32102A	CAT40 IR32-4"-EX	IR32	4.00"	
T00CA50926-32102A	CAT50 IR32-4"-EX	IR32	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-32102A	PBCAT40 IR32-4"-EX	IR32	4.00"	
T00CA50928-32102A	PBCAT50 IR32-4"-EX	IR32	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-32102A	PCAT40 IR32-4"-EX	IR32	4.00"	
T00CA50929-32102A	PCAT50 IR32-4"-EX	IR32	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA50926-32110	HSK A50 IR32-110-EX	IR32	110	
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110	
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110	
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110	
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120	
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF50926-32110	HSK F50 IR32-110-EX	IR32	110	
T00HF63926-32100	HSK F63 IR32-100-EX	IR32	100	
T00HF80926-32100	HSK F80 IR32-100-EX	IR32	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100	
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A926-16050	IR32-IR16-050-EX	IR32	IR16	50	
T12ER32A926-16100	IR32-IR16-100-EX	IR32	IR16	100	
T12ER32A926-20050	IR32-IR20-050-EX	IR32	IR20	50	
T12ER32A926-20100	IR32-IR20-100-EX	IR32	IR20	100	
T12ER32A926-25050	IR32-IR25-050-EX	IR32	IR25	50	
T12ER32A926-25100	IR32-IR25-100-EX	IR32	IR25	100	
T12ER32A926-25112	IR32-IR25-112-EX	IR32	IR25	112	
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	
T12ER32A926-32200	IR32-IR32-200-EX	IR32	IR32	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	
T12ER32A020-16112	IR32-ER16-112	IR32	ER16	112	
T12ER32A020-20100	IR32-ER20-100	IR32	ER20	100	
T12ER32A020-20112	IR32-ER20-112	IR32	ER20	112	
T12ER32A020-25100	IR32-ER25-100	IR32	ER25	100	
T12ER32A020-25112	IR32-ER25-112	IR32	ER25	112	
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	
T12ER32A020-32112	IR32-ER32-112	IR32	ER32	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A030-16060	IR32-EM16-060J	IR32	EM16	60	
T12ER32A030-16100	IR32-EM16-100J	IR32	EM16	100	
T12ER32A030-20060	IR32-EM20-060J	IR32	EM20	60	
T12ER32A030-20100	IR32-EM20-100J	IR32	EM20	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	
T12ER32A926A32127	IR32-IR32-5"-EX	IR32	IR32	5.00"	
T12ER32A926A32203	IR32-IR32-8"-EX	IR32	IR32	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.00"	
T12ER32A020A32102	IR32-ER32-4.0"	IR32	ER32	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A030A22051	IR32-EM7/8"-2.0"J	IR32	EM7/8"	2.00"	
T12ER32A030A22102	IR32-EM7/8"-4.0"J	IR32	EM7/8"	4.00"	

INDEX - IR32 EXTENSION

END MILL HOLDER **METRIC - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A040-16060	IR32-EM16-060	IR32	EM16	60	
T12ER32A040-16100	IR32-EM16-100	IR32	EM16	100	
T12ER32A040-18060	IR32-EM18-060	IR32	EM18	60	
T12ER32A040-18100	IR32-EM18-100	IR32	EM18	100	
T12ER32A040-20060	IR32-EM20-060	IR32	EM20	60	
T12ER32A040-20100	IR32-EM20-100	IR32	EM20	100	

END MILL HOLDER **WHISTLE METRIC - 050**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A050-16060	IR32-EM16-060W	IR32	EM16	60	
T12ER32A050-16100	IR32-EM16-100W	IR32	EM16	100	
T12ER32A050-18060	IR32-EM18-060W	IR32	EM18	60	
T12ER32A050-18100	IR32-EM18-100W	IR32	EM18	100	
T12ER32A050-20060	IR32-EM20-060W	IR32	EM20	60	
T12ER32A050-20100	IR32-EM20-100W	IR32	EM20	100	

SHELL MILLING HOLDER **METRIC - 120**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A120-22060	IR32-SM22-060	IR32	SM22	60	
T12ER32A120-22096	IR32-SM22-096	IR32	SM22	96	
T12ER32A120-22100	IR32-SM22-100	IR32	SM22	100	
T12ER32A120-27060	IR32-SM27-060	IR32	SM27	60	
T12ER32A120-27100	IR32-SM27-100	IR32	SM27	100	

SHELL MILLING HOLDER **COOLANT SLOT METRIC - 130**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A130-22060	IR32-SM22-060J	IR32	SM22	60	
T12ER32A130-22100	IR32-SM22-100J	IR32	SM22	100	
T12ER32A130-27060	IR32-SM27-060J	IR32	SM27	60	
T12ER32A130-27100	IR32-SM27-100J	IR32	SM27	100	

SHRINK - FIT HOLODER **4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A220-25060	IR32-SF25-060-4.5°	IR32	SF25	60	
T12ER32A220-25100	IR32-SF25-100-4.5°	IR32	SF25	100	
T12ER32A220-32060	IR32-SF32-060-4.5°	IR32	SF32	60	
T12ER32A220-32100	IR32-SF32-100-4.5°	IR32	SF32	100	

END MILL HOLDER **INCH - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A040A22051	IR32-EM7/8"-2.0"	IR32	EM7/8"	2.00"	
T12ER32A040A22102	IR32-EM7/8"-4.0"	IR32	EM7/8"	4.00"	

SHELL MILLING HOLDER **INCH - 120**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A120A25063	IR32-SM1"-2.5"	IR32	SM1"	2.50"	
T12ER32A120A25102	IR32-SM1"-4"	IR32	SM1"	4.00"	

SHELL MILLING HOLDER **COOLANT SLOT INCH - 130**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A130A25063	IR32-SM1"-2.5"J	IR32	SM1"	2.50"	
T12ER32A130A25102	IR32-SM1"-4"J	IR32	SM1"	4.00"	

SHRINK - FIT HOLODER **4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A220A25051	IR32-SF1"-2"-4.5°	IR32	SF1"	2.00"	
T12ER32A220A25102	IR32-SF1"-4"-4.5°	IR32	SF1"	4.00"	
T12ER32A220A32051	IR32-SF1 1/4"-2"-4.5°	IR32	SF1 1/4"	2.00"	
T12ER32A220A32102	IR32-SF1 1/4"-4"-4.5°	IR32	SF1 1/4"	4.00"	

INDEX - IR40 EXTENSION

BT SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100	
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-40100A	PBBT30 IR40-100-EX	IR40	100	
T00BT40928-32120A	PBBT40 IR40-120-EX	IR40	120	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-40100A	PBT30 IR40-100-EX	IR40	100	
T00BT40929-40120A	PBT40 IR40-120-EX	IR40	120	

HSK A SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120	
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120	
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120	
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120	
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120	
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120	

HSK F SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF63926-40120	HSK F63 IR40-120-EX	IR40	120	
T00HF80926-40100	HSK F80 IR40-100-EX	IR40	100	

CAT SHANK I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"	

SK SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120	
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120	
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120	
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A926-25100	IR40-IR25-100-EX	IR40	IR25	100	
T12ER40A926-25112	IR40-IR25-112-EX	IR40	IR25	112	
T12ER40A926-32100	IR40-IR32-100-EX	IR40	IR32	100	
T12ER40A926-32112	IR40-IR32-112-EX	IR40	IR32	112	
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	
T12ER40A926-40112	IR40-IR40-112-EX	IR40	IR40	112	
T12ER40A926-41100	IR40-IR41-100-EX	IR40	IR41	100	
T12ER40A926-42100	IR40-IR42-100-EX	IR40	IR42	100	
T12ER41A926-41100	IR41-IR41-100-EX	IR41	IR41	100	
T12ER41A926-42100	IR41-IR42-100-EX	IR41	IR42	100	
T12ER42A926-42100	IR42-IR42-100-EX	IR42	IR42	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	
T12ER40A020-25112	IR40-ER25-112	IR40	ER25	112	
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	
T12ER40A020-32112	IR40-ER32-112	IR40	ER32	112	
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	
T12ER40A020-40100	IR40-ER40-100	IR40	ER40	100	
T12ER40A020-40112	IR40-ER40-112	IR40	ER40	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A030-20100	IR40-EM20-100J	IR40	EM20	100	
T12ER40A030-25060	IR40-EM25-060J	IR40	EM25	60	
T12ER40A030-25100	IR40-EM25-100J	IR40	EM25	100	
T12ER41A030-32060	IR41-EM32-060J	IR41	EM32	60	
T12ER41A030-32100	IR41-EM32-100J	IR41	EM32	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	
T12ER40A926A40127	IR40-IR40-5"-EX	IR40	IR40	5.00"	
T12ER41A926A41102	IR41-IR41-4"-EX	IR41	IR41	4.00"	
T12ER41A926A42102	IR41-IR42-4"-EX	IR41	IR42	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.00"	
T12ER40A020A40102	IR40-ER40-4.0"	IR40	ER40	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A030A25051	IR40-EM1"-2.0"J	IR40	EM1"	2.00"	
T12ER40A030A25102	IR40-EM1"-4.0"J	IR40	EM1"	4.00"	
T12ER40A030A32051	IR40-EM1 1/4"-2.0"J	IR40	EM1 1/4"	2.00"	
T12ER40A030A32102	IR40-EM1 1/4"-4.0"J	IR40	EM1 1/4"	4.00"	

INDEX - IR40 EXTENSION

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A040-20112	IR40-EM20-112	IR40	EM20	112	
T12ER40A040-25060	IR40-EM25-060	IR40	EM25	60	
T12ER40A040-25100	IR40-EM25-100	IR40	EM25	100	
T12ER40A040-25112	IR40-EM25-112	IR40	EM25	112	
T12ER41A040-32060	IR41-EM32-060	IR41	EM32	60	
T12ER41A040-32100	IR41-EM32-100	IR41	EM32	100	
T12ER41A040-40100	IR41-EM40-100	IR41	EM40	100	
T12ER42A040-50100	IR42-EM50-100	IR42	EM50	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A040A25051	IR40-EM1"-2.0"	IR40	EM1"	2.00"	
T12ER40A040A25102	IR40-EM1"-4.0"	IR40	EM1"	4.00"	
T12ER40A040A32051	IR40-EM1 1/4"-2.0"	IR40	EM1 1/4"	2.00"	
T12ER40A040A32102	IR40-EM1 1/4"-4.0"	IR40	EM1 1/4"	4.00"	
T12ER41A040A38102	IR41-EM1 1/2"-4.0"	IR41	EM1 1/2"	4.00"	
T12ER41A040A50102	IR41-EM2"-4.0"	IR41	EM2"	4.00"	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A120-27060	IR40-SM27-060	IR40	SM27	60	
T12ER40A120-27100	IR40-SM27-100	IR40	SM27	100	
T12ER41A120-32060	IR41-SM32-060	IR41	SM32	60	
T12ER41A120-32100	IR41-SM32-100	IR41	SM32	100	
T12ER42A120-40060	IR42-SM40-060	IR42	SM40	60	
T12ER42A120-40100	IR42-SM40-100	IR42	SM40	100	
T12ER42A120-60060	IR42-SM60-060	IR42	SM60	60	
T12ER42A120-60100	IR42-SM60-100	IR42	SM60	100	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER41A120A32063	IR41-SM1 1/4"-2.5"	IR41	SM1 1/4"	2.50"	
T12ER41A120A32102	IR41-SM1 1/4"-4"	IR41	SM1 1/4"	4.00"	
T12ER42A120A38063	IR42-SM1 1/2"-2.5"	IR42	SM1 1/2"	2.50"	
T12ER42A120A38102	IR42-SM1 1/2"-4"	IR42	SM1 1/2"	4.00"	
T12ER42A120A50063	IR42-SM2"-2.5"	IR42	SM2"	2.50"	
T12ER42A120A50102	IR42-SM2"-4"	IR42	SM2"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A130-27060	IR40-SM27-060J	IR40	SM27	60	
T12ER40A130-27100	IR40-SM27-100J	IR40	SM27	100	
T12ER41A130-32060	IR41-SM32-060J	IR41	SM32	60	
T12ER41A130-32100	IR41-SM32-100J	IR41	SM32	100	
T12ER42A130-40060	IR42-SM40-060J	IR42	SM40	60	
T12ER42A130-40100	IR42-SM40-100J	IR42	SM40	100	
T12ER42A130-60060	IR42-SM60-060J	IR42	SM60	60	
T12ER42A130-60100	IR42-SM60-100J	IR42	SM60	100	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER41A130A32063	IR41-SM1 1/4"-2.5"J	IR41	SM1 1/4"	2.50"	
T12ER41A130A32102	IR41-SM1 1/4"-4"J	IR41	SM1 1/4"	4.00"	
T12ER42A130A38063	IR42-SM1 1/2"-2.5"J	IR42	SM1 1/2"	2.50"	
T12ER42A130A38102	IR42-SM1 1/2"-4"J	IR42	SM1 1/2"	4.00"	
T12ER42A130A50063	IR42-SM2"-2.5"J	IR42	SM2"	2.50"	
T12ER42A130A50102	IR42-SM2"-4"J	IR42	SM2"	4.00"	

TOOLING KIT - T90

8 pcs TOOLING KIT

5× ER COLLET CHUCKS

2× END MILL HOLDERS

1× SHELL MILL HOLDERS

8× RETENSION KNOBS or COOLANT TUBE (HSK)

1× ER16 WRENCH

1× ER32 WRENCH



BT40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT40-S01	BT40 8pcs			8
T00BT40020-16070A	BT40 ER16-070	ER16	70	2
T00BT40020-32070A	BT40 ER32-070	ER32	70	1
T00BT40020-32100A	BT40 ER32-100	ER32	100	2
T00BT40040-12063A	BT40 EM12-063	EM12	63	1
T00BT40040-20063A	BT40 EM20-063	EM20	63	1
T00BT40130-22040A	BT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT40B45-G	BT40-45°-W-G			8
T05BT40B60-G	BT40-60°-W-G			8
T05BT40B90-G	BT40-90°-W-G			8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG			8

BT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-BT40-AS01	BT40 8pcs			8
T00BT40020A16070A	BT40 ER16-2.76"	ER16	2.76"	2
T00BT40020A32070A	BT40 ER32-2.76"	ER32	2.76"	1
T00BT40020A32102A	BT40 ER32-4"	ER32	4.00"	2
T00BT40040A12065A	BT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00BT40040A19065A	BT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00BT40130A25051A	BT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT40B45-G	BT40-45°-W-G			8
T05BT40B60-G	BT40-60°-W-G			8
T05BT40B90-G	BT40-90°-W-G			8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG			8

SK40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-SK40-S01	SK40 8pcs			8
T00SK40020-16070A	SK40 ER16-070	ER16	70	2
T00SK40020-32070A	SK40 ER32-070	ER32	70	1
T00SK40020-32100A	SK40 ER32-100	ER32	100	2
T00SK40040-12063A	SK40 EM12-063	EM12	63	1
T00SK40040-20063A	SK40 EM20-063	EM20	63	1
T00SK40130-22035A	SK40 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK40B45-G	SK40-45°-W-G,			8

CAT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-CA40-S01	CA40 8pcs			8
T00CA40020-16063A	CAT40 ER16-2.5"	ER16	2.50"	2
T00CA40020-32070A	CAT40 ER32-2.76"	ER32	2.76"	1
T00CA40020-32102A	CAT40 ER32-4"	ER32	4.00"	2
T00CA40040-12065A	CAT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00CA40040-19065A	CAT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00CA40130-25051A	CAT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA40B45-G	CAT40-45°-W-G			8
T05CA40B45-HA-G	CAT40-45°-W-G,Haas			8
T05CA40B45-MA-G	CAT40-45°-W-G,Mazak			8
T05CA40B75-MO-G	CAT40-75°-W-G,DMG-MORI			8
T05CA40B75-MI-G	CAT40-75°-W-G,Makino			8

HSK A63 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-HA63-S01	HSK A63 8pcs			8
T00HA63020-16100A	HSK A63 ER16-100	ER16	100	2
T00HA63020-32080A	HSK A63 ER32-080	ER32	80	1
T00HA63020-32100A	HSK A63 ER32-100	ER32	100	2
T00HA63040-12080A	HSK A63 EM12-080	EM12	80	1
T00HA63040-20080A	HSK A63 EM20-080	EM20	80	1
T00HA63130-22050A	HSK A63 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
COOLANT TUBE				8
T17HSKA63-01	HSK A63 coolant tube			8

HSK A100 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L inch	Qty
T90-HA10-S01	HSK A100 8pcs			8
T00HA10020-16100A	HSK A100 ER16-100	ER16	100	2
T00HA10020-32100A	HSK A100 ER32-100	ER32	100	2
T00HA10040-12090A	HSK A100 EM12-090	EM12	90	2
T00HA10040-20100A	HSK A100 EM20-100	EM20	100	1
T00HA10130-22050A	HSK A100 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
COOLANT TUBE				8
T17HSA100-01	HSK A100 coolant tube			8

TOOLING KIT - T90

8 pcs TOOLING KIT

- 5× ER COLLET CHUCKS
- 2× END MILL HOLDERS
- 1× SHELL MILL HOLDERS
- 8× RETENSION KNOBS
- 1× ER16 WRENCH
- 1× ER32 WRENCH



BT50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT50-S01	BT50 8pcs			8
T00BT50020-16100A	BT50 ER16-100	ER16	100	2
T00BT50020-32070A	BT50 ER32-070	ER32	70	1
T00BT50020-32100A	BT50 ER32-100	ER32	100	2
T00BT50040-12080A	BT50 EM12-080	EM12	80	1
T00BT50040-20080A	BT50 EM20-080	EM20	80	1
T00BT50130-22050A	BT50 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT50B45-G	BT50-45°-W-G			8
T05BT50B60-G	BT50-60°-W-G			8
T05BT50B90-G	BT50-90°-W-G			8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG			8

BT50 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-BT50-AS01	BT50 8pcs			8
T00BT50020A16070A	BT50 ER16-2.76"	ER16	2.76"	2
T00BT50020A32070A	BT50 ER32-2.76"	ER32	2.76"	1
T00BT50020A32102A	BT50 ER32-4"	ER32	4.00"	2
T00BT50040A12080A	BT50 EM1/2"-3.15"	EM1/2"	3.15"	1
T00BT50040A19080A	BT50 EM3/4"-3.15"	EM3/4"	3.15"	1
T00BT50130A25051A	BT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT50B45-G	BT50-45°-W-G			8
T05BT50B60-G	BT50-60°-W-G			8
T05BT50B90-G	BT50-90°-W-G			8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG			8

SK50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-SK50-S01	SK50 8pcs			8
T00SK50020-16100A	SK50 ER16-100	ER16	100	2
T00SK50020-32070A	SK50 ER32-070	ER32	70	1
T00SK50020-32100A	SK50 ER32-100	ER32	100	2
T00SK50040-12063A	SK50 EM12-063	EM12	63	1
T00SK50040-20063A	SK50 EM20-063	EM20	63	1
T00SK50130-22035A	SK50 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK50B45-G	SK50-45°-W-G			8

CAT50 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-CA50-S01	CA50 8pcs			8
T00CA50020-16100A	CAT50 ER16-4"	ER16	4.00"	2
T00CA50020-32070A	CAT50 ER32-2.76"	ER32	2.76"	1
T00CA50020-32102A	CAT50 ER32-4"	ER32	4.00"	2
T00CA50040-12075A	CAT50 EM1/2"-2.95"	EM1/2"	2.95"	1
T00CA50040-19076A	CAT50 EM3/4"-3"	EM3/4"	3.00"	1
T00CA50130-25051A	CAT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA50B45-G	CAT50-45°-W-G			8
T05CA50B45-HA-G	CAT50-45°-W-G,Haas			8
T05CA50B45-MA-G	CAT50-45°-W-G,Mazak			8
T05CA50B75-MO-G	CAT50-75°-W-G,DMG-MORI			8
T05CA50B75-MI-G	CAT50-75°-W-G,Makino			8

8 pcs TOOLING KIT

5× ER COLLET CHUCKS

2× END MILL HOLDERS

1× SHELL MILL HOLDERS

8× RETENSION KNOBS or COOLANT TUBE

1× ER16 WRENCH

1× ER32 WRENCH



PBBT40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-BT40-E01	PBBT40 8pcs			8
T00BT40022-16070A	PBBT40 ER16-070	ER16	70	2
T00BT40022-32070A	PBBT40 ER32-070	ER32	70	1
T00BT40022-32100A	PBBT40 ER32-100	ER32	100	2
T00BT40042-12063A	PBBT40 EM12-063	EM12	63	1
T00BT40042-20063A	PBBT40 EM20-063	EM20	63	1
T00BT40132-22040A	PBBT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG			8

PBBT50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L inch	Qty
T90-BT40-E01	PBBT50 8pcs			8
T00BT50022A16100A	PBBT50 ER16-100	ER16	100	2
T00BT50022A32070A	PBBT50 ER32-070	ER32	70	1
T00BT50022A32100A	PBBT50 ER32-100	ER32	100	2
T00BT50042A12080A	PBBT50 EM12-080	EM12	80	1
T00BT50042A20080A	PBBT50 EM20-080	EM20	80	1
T00BT50132A22050A	PBBT50 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG			8

PBCAT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L mm	Qty
T90-CA40-E01	PBCAT40 8pcs			8
T00CA40022-16063A	PBCAT40 ER16-2.5"	ER16	2.50"	2
T00CA40022-32070A	PBCAT40 ER32-2.76"	ER32	2.76"	1
T00CA40022-32102A	PBCAT40 ER32-4"	ER32	4.00"	2
T00CA40042-12065A	PBCAT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00CA40042-19065A	PBCAT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00CA40132-25051A	PBCAT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA40B45-G	CAT40-45°-W-G			8
T05CA40B45-HA-G	CAT40-45°-W-G,Haas			8
T05CA40B45-MA-G	CAT40-45°-W-G,Mazak			8
T05CA40B75-MO-G	CAT40-75°-W-G,DMG-MORI			8
T05CA40B75-MI-G	CAT40-75°-W-G,Makino			8

PBCAT50 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
T90-CA50-E01	PBCAT50 8pcs			8
T00CA50022-16100A	PBCAT50 ER16-4"	ER16	4.00"	2
T00CA50022-32070A	PBCAT50 ER32-2.76"	ER32	2.76"	1
T00CA50022-32102A	PBCAT50 ER32-4"	ER32	4.00"	2
T00CA50042-12075A	PBCAT50 EM1/2"-2.95"	EM1/2"	2.95"	1
T00CA50042-19076A	PBCAT50 EM3/4"-3"	EM3/4"	3.00"	1
T00CA50132-25051A	PBCAT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05CA50B45-G	CAT50-45°-W-G			8
T05CA50B45-HA-G	CAT50-45°-W-G,Haas			8
T05CA50B45-MA-G	CAT50-45°-W-G,Mazak			8
T05CA50B75-MO-G	CAT50-75°-W-G,DMG-MORI			8
T05CA50B75-MI-G	CAT50-75°-W-G,Makino			8

PBSK40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
T90-SK40-E01	PBSK40 8pcs			8
T00SK40022-16070A	PBSK40 ER16-070	ER16	70	2
T00SK40022-32070A	PBSK40 ER32-070	ER32	70	1
T00SK40022-32100A	PBSK40 ER32-100	ER32	100	2
T00SK40042-12063A	PBSK40 EM12-063	EM12	63	1
T00SK40042-20063A	PBSK40 EM20-063	EM20	63	1
T00SK40132-22035A	PBSK40 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK40B45-G	SK40-45°-W-G			8

PBSK50 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L inch	Qty
T90-SK50-E01	PBSK50 8pcs			8
T00SK50022-16100A	PBSK50 ER16-100	ER16	100	2
T00SK50022-32070A	PBSK50 ER32-070	ER32	70	1
T00SK50022-32100A	PBSK50 ER32-100	ER32	100	2
T00SK50042-12063A	PBSK50 EM12-063	EM12	63	1
T00SK50042-20063A	PBSK50 EM20-063	EM20	63	1
T00SK50132-22035A	PBSK50 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
Retention Knobs				8
T05SK50B45-G	SK50-45°-W-G			8



I SYSTEM KIT

TOOLING KIT - T90

ORDER No T90-XXXX-IR08-01

- 1x SHANK IR EXTENSION BASE
- 2x IR EXTENSION BASE
- 2x ER COLLET CHUCK **MINI** EXTENSION
- 6x SHRINK-FIT 3° SLIM HOLDER EXTENSION



I SYSTEM IR08 TOOLING KIT - IR08 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR08-01	BT30	
T90-BT40-IR08-01	BT40	
T90-BT50-IR08-01	BT50	
T90-SK40-IR08-01	SK40	
T90-SK50-IR08-01	SK50	
T90-HA63-IR08-01	HSK A63	
T90-HA10-IR08-01	HSK A100	

I SYSTEM IR08 TOOLING KIT - IR08 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR08A01	BT30	
T90-BT40-IR08A01	BT40	
T90-BT50-IR08A01	BT50	
T90-CA40-IR08-01	CAT40	
T90-CA50-IR08-01	CAT50	
T90-HA63-IR08A01	HSK A63	
T90-HA10-IR08A01	HSK A100	

IPE SYSTEM IR08 TOOLING KIT - IR08 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR08-01	PBBT30	
T90-PBBT40-IR08-01	PBBT40	
T90-PBBT50-IR08-01	PBBT50	
T90-PBSK40-IR08-01	PBSK40	
T90-PBSK50-IR08-01	PBSK50	

IPE SYSTEM IR08 TOOLING KIT - IR08 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR08A01	PBBT30	
T90-PBBT40-IR08A01	PBBT40	
T90-PBBT50-IR08A01	PBBT50	
T90-PBCA40-IR08-01	PBCAT40	
T90-PBCA50-IR08-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	1
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	1
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	1

ER COLLET CHUCK **MINI** NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	1
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	1

ER COLLET CHUCK **MINI** NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	1
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	1

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	1
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	1
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	1
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	1
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	1
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	1

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	1
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	1
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	1
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	1
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	1
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR8S-01

- 1x SHANK IR EXTENSION BASE
- 2x IR EXTENSION BASE
- 4x ER COLLET CHUCK **MINI** EXTENSION
- 1x SHRINK-FIT 4.5° HOLDER EXTENSION
- 4x SHRINK-FIT 3° HOLDER EXTENSION
- 6x SHRINK-FIT 3° **SLIM** HOLDER EXTENSION



I SYSTEM IR8S TOOLING KIT - IR8S BASE **METRIC**

Order Number	SHANK	Qty
T90-BT30-IR8S-01	BT30	
T90-BT40-IR8S-01	BT40	
T90-BT50-IR8S-01	BT50	
T90-SK40-IR8S-01	SK40	
T90-SK50-IR8S-01	SK50	
T90-HA63-IR8S-01	HSK A63	
T90-HA10-IR8S-01	HSK A100	

I SYSTEM IR8S TOOLING KIT - IR8S BASE **INCH**

Order Number	SHANK	Qty
T90-BT30-IR8SA01	BT30	
T90-BT40-IR8SA01	BT40	
T90-BT50-IR8SA01	BT50	
T90-CA40-IR8S-01	CAT40	
T90-CA50-IR8S-01	CAT50	
T90-HA63-IR8SA01	HSK A63	
T90-HA10-IR8SA01	HSK A100	

IPE SYSTEM IR8S TOOLING KIT - IR8S BASE **METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR8S-01	PBBT30	
T90-PBBT40-IR8S-01	PBBT40	
T90-PBBT50-IR8S-01	PBBT50	
T90-PBSK40-IR8S-01	PBSK40	
T90-PBSK50-IR8S-01	PBSK50	

IPE SYSTEM IR8S TOOLING KIT - IR8S BASE **INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR8SA01	PBBT30	
T90-PBBT40-IR8SA01	PBBT40	
T90-PBBT50-IR8SA01	PBBT50	
T90-PBCA40-IR8S-01	PBCAT40	
T90-PBCA50-IR8S-01	PBCAT50	

IR EXTENSION BASE **METRIC** - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	1
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	1

IR EXTENSION BASE **INCH** - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	1.97"	1
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	1

ER COLLET CHUCK **MINI NUT METRIC** - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	1
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	1
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	1
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	1

ER COLLET CHUCK **MINI NUT INCH** - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	1
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	1
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	1
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	1

SHRINK - FIT HOLODER 4.5° **METRIC** - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	1

SHRINK - FIT HOLODER 4.5° **INCH** - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	1

SHRINK - FIT HOLODER 3° **METRIC** - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	1
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	1
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	1
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	1

SHRINK - FIT HOLODER 3° **INCH** - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4.00"	1
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2.00"	1
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4.00"	1
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2.00"	1

SHRINK - FIT HOLODER 3° **SLIM METRIC** - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	1
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	1
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	1
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	1
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	1
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	1

SHRINK - FIT HOLODER 3° **SLIM INCH** - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	1
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	1
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	1
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	1
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	1
T12ER8SA250A09060	IR8S-SF3/8"-2.36"-3° slim	IR8S	SF3/8"	2.36"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR11-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 4x ER COLLET CHUCK MINI EXTENSION
- 2x ER COLLET CHUCK EXTENSION
- 2x SHRINK-FIT 4.5° HOLDER EXTENSION
- 4x SHRINK-FIT 3° HOLDER EXTENSION



I SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR11-01	BT30	
T90-BT40-IR11-01	BT40	
T90-BT50-IR11-01	BT50	
T90-SK40-IR11-01	SK40	
T90-SK50-IR11-01	SK50	
T90-HA63-IR11-01	HSK A63	
T90-HA10-IR11-01	HSK A100	

I SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR11A01	BT30	
T90-BT40-IR11A01	BT40	
T90-BT50-IR11A01	BT50	
T90-CA40-IR11-01	CAT40	
T90-CA50-IR11-01	CAT50	
T90-HA63-IR11A01	HSK A63	
T90-HA10-IR11A01	HSK A100	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR11-01	PBBT30	
T90-PBBT40-IR11-01	PBBT40	
T90-PBBT50-IR11-01	PBBT50	
T90-PBSK40-IR11-01	PBSK40	
T90-PBSK50-IR11-01	PBSK50	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR11A01	PBBT30	
T90-PBBT40-IR11A01	PBBT40	
T90-PBBT50-IR11A01	PBBT50	
T90-PBCA40-IR11-01	PBCAT40	
T90-PBCA50-IR11-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	1

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	1
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	1
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	1
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	1

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11AM20A08051	IR11-ER08-2.0"M	IR11	ER08M	2.00"	1
T12ER11AM20A08102	IR11-ER08-4.0"M	IR11	ER08M	4.00"	1
T12ER11AM20A11051	IR11-ER11-2.0"M	IR11	ER11M	2.00"	1
T12ER11AM20A11102	IR11-ER11-4.0"M	IR11	ER11M	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	1
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	1
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.00"	1

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	1
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	1

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	1
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	1

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	1
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	1
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	1
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	1

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	1
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	1
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	1
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR11-02

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK EXTENSION
- 4x SHRINK-FIT 4.5° HOLDER EXTENSION
- 5x SHRINK-FIT 3° HOLDER EXTENSION
- 2x SHRINK-FIT 3° SLIM HOLDER EXTENSION



I SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR11-02	BT30	
T90-BT40-IR11-02	BT40	
T90-BT50-IR11-02	BT50	
T90-SK40-IR11-02	SK40	
T90-SK50-IR11-02	SK50	
T90-HA63-IR11-02	HSK A63	
T90-HA10-IR11-02	HSK A100	

I SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR11A02	BT30	
T90-BT40-IR11A02	BT40	
T90-BT50-IR11A02	BT50	
T90-CA40-IR11-02	CAT40	
T90-CA50-IR11-02	CAT50	
T90-HA63-IR11A02	HSK A63	
T90-HA10-IR11A02	HSK A100	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR11-02	PBBT30	
T90-PBBT40-IR11-02	PBBT40	
T90-PBBT50-IR11-02	PBBT50	
T90-PBSK40-IR11-02	PBSK40	
T90-PBSK50-IR11-02	PBSK50	

IPE SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR11A02	PBBT30	
T90-PBBT40-IR11A02	PBBT40	
T90-PBBT50-IR11A02	PBBT50	
T90-PBCA40-IR11-02	PBCAT40	
T90-PBCA50-IR11-02	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	1

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	1
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	1
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	1
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	1

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	1
T12ER11A220A03102	IR11-SF1/8"-4"-4.5°	IR11	SF1/8"	4.00"	1
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	1
T12ER11A220A05102	IR11-SF3/16"-4"-4.5°	IR11	SF3/16"	4.00"	1

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	1
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	1
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	1
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	1
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	1

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	1
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	1
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	1
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2.00"	1
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	1

SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	1
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	1

SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	1
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR16-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK **MINI** EXTENSION
- 3x ER COLLET CHUCK EXTENSION
- 1x END MILL HOLDER EXTENSION



I SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR16-01	BT30	
T90-BT40-IR16-01	BT40	
T90-BT50-IR16-01	BT50	
T90-SK40-IR16-01	SK40	
T90-SK50-IR16-01	SK50	
T90-HA63-IR16-01	HSK A63	
T90-HA10-IR16-01	HSK A100	

I SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR16A01	BT30	
T90-BT40-IR16A01	BT40	
T90-BT50-IR16A01	BT50	
T90-CA40-IR16-01	CAT40	
T90-CA50-IR16-01	CAT50	
T90-HA63-IR16A01	HSK A63	
T90-HA10-IR16A01	HSK A100	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR16-01	PBBT30	
T90-PBBT40-IR16-01	PBBT40	
T90-PBBT50-IR16-01	PBBT50	
T90-PBSK40-IR16-01	PBSK40	
T90-PBSK50-IR16-01	PBSK50	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR16A01	PBBT30	
T90-PBBT40-IR16A01	PBBT40	
T90-PBBT50-IR16A01	PBBT50	
T90-PBCA40-IR16-01	PBCAT40	
T90-PBCA50-IR16-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1

ER COLLET CHUCK **MINI** NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	1

ER COLLET CHUCK **MINI** NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	1
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	1
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.00"	1
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.00"	1
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	1

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	1

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR16-2

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK EXTENSION
- 3x SHRINK-FIT 4.5° HOLDER EXTENSION
- 1x SHRINK-FIT 3° HOLDER EXTENSION



I SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR16-02	BT30	
T90-BT40-IR16-02	BT40	
T90-BT50-IR16-02	BT50	
T90-SK40-IR16-02	SK40	
T90-SK50-IR16-02	SK50	
T90-HA63-IR16-02	HSK A63	
T90-HA10-IR16-02	HSK A100	

I SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR16A02	BT30	
T90-BT40-IR16A02	BT40	
T90-BT50-IR16A02	BT50	
T90-CA40-IR16-02	CAT40	
T90-CA50-IR16-02	CAT50	
T90-HA63-IR16A02	HSK A63	
T90-HA10-IR16A02	HSK A100	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR16-02	PBBT30	
T90-PBBT40-IR16-02	PBBT40	
T90-PBBT50-IR16-02	PBBT50	
T90-PBSK40-IR16-02	PBSK40	
T90-PBSK50-IR16-02	PBSK50	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR16A02	PBBT30	
T90-PBBT40-IR16A02	PBBT40	
T90-PBBT50-IR16A02	PBBT50	
T90-PBCA40-IR16-02	PBCAT40	
T90-PBCA50-IR16-02	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	1

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	1
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	1
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	1

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	1
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	1
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	1

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	1

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR20-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION
- 1x END MILL HOLDER EXTENSION
- 1x SCREW-IN HOLDER EXTENSION



I SYSTEM IR20 TOOLING KIT - IR20 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR20-01	BT30	
T90-BT40-IR20-01	BT40	
T90-BT50-IR20-01	BT50	
T90-SK40-IR20-01	SK40	
T90-SK50-IR20-01	SK50	
T90-HA63-IR20-01	HSK A63	
T90-HA10-IR20-01	HSK A100	

I SYSTEM IR20 TOOLING KIT - IR20 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR20A01	BT30	
T90-BT40-IR20A01	BT40	
T90-BT50-IR20A01	BT50	
T90-CA40-IR20-01	CAT40	
T90-CA50-IR20-01	CAT50	
T90-HA63-IR20A01	HSK A63	
T90-HA10-IR20A01	HSK A100	

IPE SYSTEM IR20 TOOLING KIT - IR20 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR20-01	PBBT30	
T90-PBBT40-IR20-01	PBBT40	
T90-PBBT50-IR20-01	PBBT50	
T90-PBSK40-IR20-01	PBSK40	
T90-PBSK50-IR20-01	PBSK50	

IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR20A01	PBBT30	
T90-PBBT40-IR20A01	PBBT40	
T90-PBBT50-IR20A01	PBBT50	
T90-PBCA40-IR20-01	PBCAT40	
T90-PBCA50-IR20-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	1
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	1
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	3.94"	1
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.00"	1
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.00"	1

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	1

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.00"	1

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	1

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR25-01

1x SHANK IR EXTENSION BASE

1x IR EXTENSION BASE

4x ER COLLET CHUCK EXTENSION



I SYSTEM IR25 TOOLING KIT - IR25 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR25-01	BT30	
T90-BT40-IR25-01	BT40	
T90-BT50-IR25-01	BT50	
T90-SK40-IR25-01	SK40	
T90-SK50-IR25-01	SK50	
T90-HA63-IR25-01	HSK A63	
T90-HA10-IR25-01	HSK A100	

I SYSTEM IR25 TOOLING KIT - IR25 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR25A01	BT30	
T90-BT40-IR25A01	BT40	
T90-BT50-IR25A01	BT50	
T90-CA40-IR25-01	CAT40	
T90-CA50-IR25-01	CAT50	
T90-HA63-IR25A01	HSK A63	
T90-HA10-IR25A01	HSK A100	

IPE SYSTEM IR25 TOOLING KIT - IR25 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR25-01	PBBT30	
T90-PBBT40-IR25-01	PBBT40	
T90-PBBT50-IR25-01	PBBT50	
T90-PBSK40-IR25-01	PBSK40	
T90-PBSK50-IR25-01	PBSK50	

IPE SYSTEM IR25 TOOLING KIT - IR25 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR25A01	PBBT30	
T90-PBBT40-IR25A01	PBBT40	
T90-PBBT50-IR25A01	PBBT50	
T90-PBCA40-IR25-01	PBCAT40	
T90-PBCA50-IR25-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	1
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	1
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	1
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	3.94"	1
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	3.94"	1
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.00"	1
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR32-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION



I SYSTEM IR32 TOOLING KIT - IR32 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR32-01	BT30	
T90-BT40-IR32-01	BT40	
T90-BT50-IR32-01	BT50	
T90-SK40-IR32-01	SK40	
T90-SK50-IR32-01	SK50	
T90-HA63-IR32-01	HSK A63	
T90-HA10-IR32-01	HSK A100	

I SYSTEM IR32 TOOLING KIT - IR32 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR32A01	BT30	
T90-BT40-IR32A01	BT40	
T90-BT50-IR32A01	BT50	
T90-CA40-IR32-01	CAT40	
T90-CA50-IR32-01	CAT50	
T90-HA63-IR32A01	HSK A63	
T90-HA10-IR32A01	HSK A100	

IPE SYSTEM IR32 TOOLING KIT - IR32 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR32-01	PBBT30	
T90-PBBT40-IR32-01	PBBT40	
T90-PBBT50-IR32-01	PBBT50	
T90-PBSK40-IR32-01	PBSK40	
T90-PBSK50-IR32-01	PBSK50	

IPE SYSTEM IR32 TOOLING KIT - IR32 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR32A01	PBBT30	
T90-PBBT40-IR32A01	PBBT40	
T90-PBBT50-IR32A01	PBBT50	
T90-PBCA40-IR32-01	PBCAT40	
T90-PBCA50-IR32-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	1
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	1
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	1

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	3.94"	1
T12ER32A020-32102	IR32-ER32-4"	IR32	ER32	4.00"	1
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.00"	1

TOOLING KIT - T90

ORDER No T90-XXXX-IR40-01

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION



I SYSTEM IR40 TOOLING KIT - IR40 BASE METRIC

Order Number	SHANK	Qty
T90-BT40-IR40-01	BT40	
T90-BT50-IR40-01	BT50	
T90-SK40-IR40-01	SK40	
T90-SK50-IR40-01	SK50	
T90-HA63-IR40-01	HSK A63	
T90-HA10-IR40-01	HSK A100	

I SYSTEM IR40 TOOLING KIT - IR40 BASE INCH

Order Number	SHANK	Qty
T90-BT40-IR40A01	BT40	
T90-BT50-IR40A01	BT50	
T90-CA40-IR40-01	CAT40	
T90-CA50-IR40-01	CAT50	
T90-HA63-IR40A01	HSK A63	
T90-HA10-IR40A01	HSK A100	

IPE SYSTEM IR40 TOOLING KIT - IR40 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT40-IR40-01	PBBT40	
T90-PBBT50-IR40-01	PBBT50	
T90-PBSK40-IR40-01	PBSK40	
T90-PBSK50-IR40-01	PBSK50	

IPE SYSTEM IR40 TOOLING KIT - IR40 BASE INCH

Order Number	SHANK	Qty
T90-PBBT40-IR40A01	PBBT40	
T90-PBBT50-IR40A01	PBBT50	
T90-PBCA40-IR40-01	PBCAT40	
T90-PBCA50-IR40-01	PBCAT50	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	1

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	1

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension Size	L mm	Qty
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	1
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	1
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	1

ER COLLET CHUCK INCH - 020

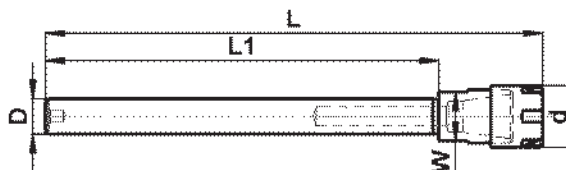
Order Number	Part Name	Base	Extension Size	L inch	Qty
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	3.94"	1
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	3.94"	1
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.00"	1



T14 EXTENSION

Quality

- Cylinderness : 0.005mm (0.0002")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



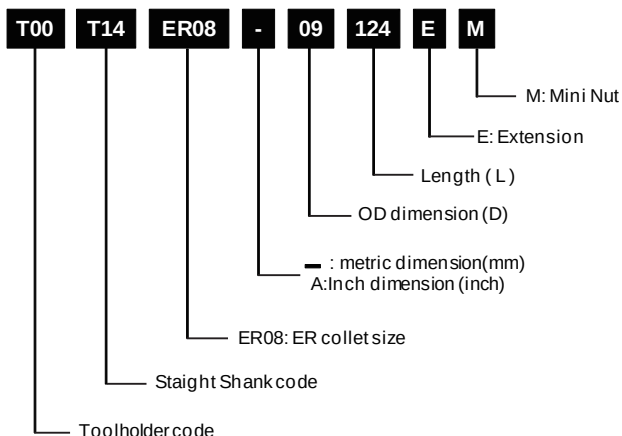
ER COLLET CHUCK *MINI NUT* METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	W	Nut
T00T14ER08-08045EM	ER08M 08x021	ER08	45	8	12	45	21	10	Mini
T00T14ER08-08104EM	ER08M 08x080	ER08	104	8	12	104	80	10	Mini
T00T14ER08-10124EM	ER08M 10x100	ER08	124	10	12	124	100	10	Mini
T00T14ER11-12166EM	ER11M 12x140	ER11	166	12	16	166	140	14	Mini
T00T14ER11-16161EM	ER11M 16x140	ER11	161	16	16	161	140	14	Mini
T00T14ER16-12118EM	ER16M 12x080	ER16	118	12	22	118	80	17	Mini
T00T14ER16-16138EM	ER16M 16x100	ER16	138	16	22	138	100	17	Mini
T00T14ER16-20166EM	ER16M 20x140	ER16	166	20	22	166	140	19	Mini
T00T14ER20-16142EM	ER20M 16x100	ER20	142	16	28	142	100	22	Mini
T00T14ER20-25165EM	ER20M 25x140	ER20	165	25	28	165	140	22	Mini

ER COLLET CHUCK *MINI NUT* INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	W	Nut
T00T14ER08A09124EM	ER08M 3/8"x3.94"	ER08	4.88"	3/8"	0.473"	4.88"	3.94"	3/8"	Mini
T00T14ER11A12166EM	ER11M 1/2"x5.52"	ER11	6.54"	1/2"	0.63"	6.54"	5.51"	9/16"	Mini
T00T14ER11A16158EM	ER11M 5/8"x5.52"	ER11	6.22"	5/8"	0.63"	6.22"	5.51"	9/16"	Mini
T00T14ER16A12177EM	ER16M 1/2"x5.52"	ER16	6.97"	1/2"	0.87"	6.97"	5.51"	11/16"	Mini
T00T14ER16A19165EM	ER16M 3/4"x5.52"	ER16	6.50"	3/4"	0.87"	6.5"	5.51"	11/16"	Mini
T00T14ER20A25168EM	ER20M 1"x5.52"	ER20	6.61"	1"	1.10"	6.61"	5.51"	7/8"	Mini

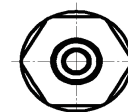
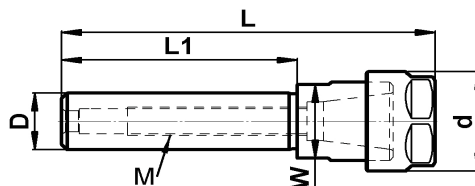
Order Number Instruction



ER COLLET CHUCK - T14

Quality

- Cylinderness : 0.005mm (0.0002")
- Case hardened hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



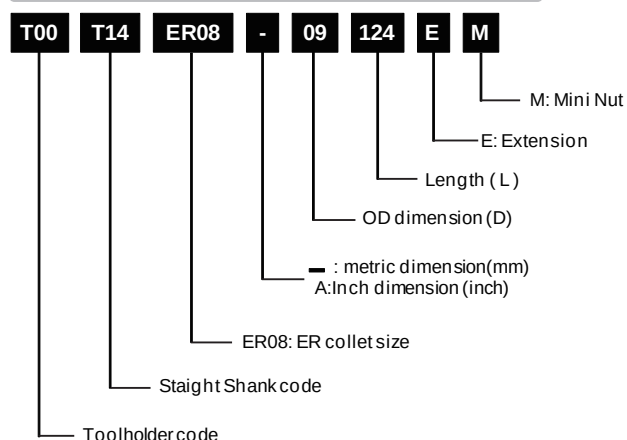
ER COLLET CHUCK **METRIC**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11-12134E	ER11 12x100	ER11	134	12	19	134	100	X	17	Hex
T00T14ER11-16174E	ER11 16x140	ER11	174	16	19	174	140	X	17	Hex
T00T14ER16-16096E	ER16 16x060	ER16	96	16	28	96	60	M8	19	Hex
T00T14ER16-20080E	ER16 20x050	ER16	80	20	28	80	50	M12	19	Hex
T00T14ER16-20130E	ER16 20x100	ER16	130	20	28	130	100	M12	19	Hex
T00T14ER16-20190E	ER16 20x160	ER16	190	20	28	190	160	M12	19	Hex
T00T14ER20-20096E	ER20 20x060	ER20	96	20	34	96	60	M12	22	Hex
T00T14ER20-20136E	ER20 20x100	ER20	136	20	34	136	100	M12	22	Hex
T00T14ER32-20104E	ER32 20x050	ER32	104	20	50	104	50	M12	36	Hex
T00T14ER32-20154E	ER32 20x100	ER32	154	20	50	154	100	M12	36	Hex
T00T14ER32-25154E	ER32 25x100	ER32	154	25	50	154	100	M18	36	Hex
T00T14ER40-25097E	ER40 25x050	ER40	97	25	50	97	50	M18	45	Hex

ER COLLET CHUCK **INCH**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11A12174E	ER11 1/2"x5.52"	ER11	6.85"	1/2"	0.75"	6.85"	5.52"	X	9/16"	Hex
T00T14ER11A16174E	ER11 5/8"x5.52"	ER11	6.85"	5/8"	0.75"	6.85"	5.52"	X	11/16"	Hex
T00T14ER16A16095E	ER16 5/8"x2.36"	ER16	3.74"	5/8"	1.10"	3.74"	2.36"	5/16"-24	13/16"	Hex
T00T14ER16A19085E	ER16 3/4"x1.97"	ER16	3.35"	3/4"	1.10"	3.35"	1.97"	7/16"-20	13/16"	Hex
T00T14ER16A19135E	ER16 3/4"x3.94"	ER16	5.32"	3/4"	1.10"	5.32"	3.94"	7/16"-20	13/16"	Hex
T00T14ER16A19175E	ER16 3/4"x5.52"	ER16	6.89"	3/4"	1.10"	6.89"	5.52"	7/16"-20	13/16"	Hex
T00T14ER20A19100E	ER20 3/4"x2.5"	ER20	3.94"	3/4"	1.34"	3.94"	2.50"	7/16"-20	15/16"	Hex
T00T14ER20A25180E	ER20 1"x5.52"	ER20	7.09"	1"	1.34"	7.09"	5.52"	9/16"-18	15/16"	Hex
T00T14ER25A25101E	ER25 1"x1.97"	ER25	3.98"	1"	1.65"	3.98"	1.97"	11/16"-16	1-1/2"	Spanner
T00T14ER32A25101E	ER32 1"x1.97"	ER32	3.98"	1"	1.97"	3.98"	1.97"	11/16"-16	1-1/2"	Spanner
T00T14ER32A32111E	ER32 1-1/4"x2.36"	ER32	4.37"	1-1/4"	1.97"	4.37"	2.36"	15/16"-16	1-1/2"	Spanner
T00T14ER40A25125E	ER40 1"x1.97"	ER40	4.92"	1"	2.48"	4.92"	1.97"	11/16"-16	1-7/8"	Spanner

Order Number Instruction





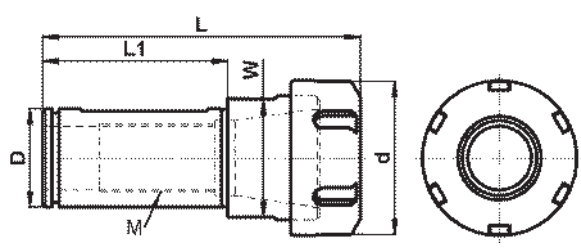
STRAIGHT SHANK EXTENSION

**STRAIGHT SHANK
EXTENSION
ER COLLET CHUCK
T14
CNC LATHE**

ER COLLET CHUCK CNC LATHE - T14

Quality

- Cylinderness : 0.005mm (0.0002")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



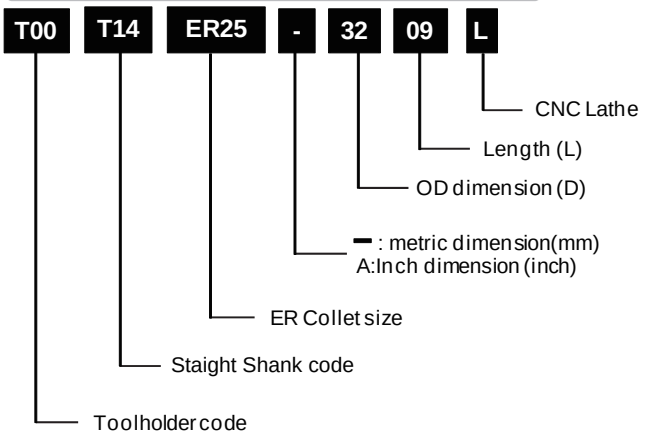
ER COLLET CHUCK MINI NUT METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER25-32092L	ER25 32x60	ER25	92	32	42	92	60	M18	27	Spanner
T00T14ER32-32098L	ER32 32x60	ER32	98	32	50	98	60	M24	36	Spanner
T00T14ER32-40113L	ER32 40x80	ER32	113	40	50	113	80	M24	36	Spanner
T00T14ER40-40130L	ER40 40x75	ER40	130	40	63	130	75	M28	36	Spanner

ER COLLET CHUCK MINI NUT INCH

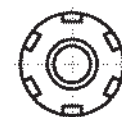
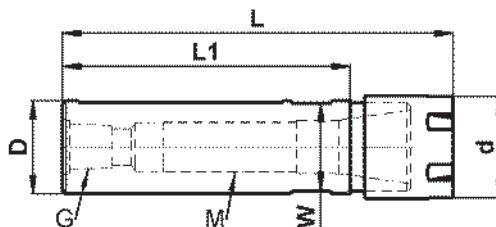
Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER25A32097L	ER25 1-1/4"x2.36"	ER25	3.82"	1-1/4"	1.65"	3.82"	2.36"	11/16"-16	1-1/8"	Spanner
T00T14ER32A32103L	ER32 1-1/4"x2.36"	ER32	4.06"	1-1/4"	1.97"	4.06"	2.36"	15/16"-16	1-1/2"	Spanner
T00T14ER32A38118L	ER32 1-1/2"x3.15"	ER32	4.65"	1-1/2"	1.97"	4.65"	3.15"	15/16"-16	1-1/2"	Spanner
T00T14ER40A32120L	ER40 1-1/4"x2.36"	ER40	4.72"	1-1/4"	2.48"	4.72"	2.36"	15/16"-16	1-7/8"	Spanner
T00T14ER40A38135L	ER40 1-1/2"x2.95"	ER40	5.31"	1-1/2"	2.48"	5.31"	2.95"	1-1/8"-16	1-7/8"	Spanner

Order Number Instruction



Quality

- Cylinderness : 0.005mm (0.0002")
- Case hardened hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



ER COLLET CHUCK CNC LATHE - PIPE THREAD - COOLANT THRU - METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	G	M	W	Nut
T00T14ER11-16059FM	ER11M 16x38	ER11	59	16	16	59	38	1/4"	M8	14	Mini
T00T14ER11-16161FM	ER11M 16x140	ER11	161	16	16	161	140	1/4"	M8	14	Mini
T00T14ER16-16096FM	ER16M 16x70	ER16	96	16	22	96	70	1/4"	M8	17	Mini
T00T14ER16-20096FM	ER16M 20x70	ER16	96	20	22	96	70	1/4"	M12	17	Mini
T00T14ER16-20126FM	ER16M 20x100	ER16	126	20	22	126	100	1/4"	M12	17	Mini
T00T14ER16-20166FM	ER16M 20x140	ER16	166	20	22	166	140	1/4"	M12	17	Mini
T00T14ER16-22096FM	ER16M 22x70	ER16	96	22	22	96	70	1/4"	M12	19	Mini
T00T14ER20-22108FM	ER20M 22x80	ER20	108	22	28	108	80	1/4"	M12	19	Mini
T00T14ER20-25128FM	ER20M 25x100	ER20	128	25	28	128	100	1/4"	M14	22	Mini
T00T14ER20-25178FM	ER20M 25x150	ER20	178	25	28	178	150	1/4"	M14	22	Mini
T00T14ER32-32115F	ER32 32x60	ER32	115	32	50	115	60	1/4"	M24	38	Spanner

ER COLLET CHUCK CNC LATHE - PIPE THREAD - COOLANT THRU - INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	G	M	W	Nut
T00T14ER16A19110FM	ER16M 3/4"x3.42"	ER16	4.19"	3/4"	0.87"	4.19"	3.42"	1/4"	7/16"-20	11/16"	Mini
T00T14ER20A25111FM	ER20M 1"x3.31"	ER20	4.18"	1"	1.10"	4.18"	3.31"	1/4"	9/16"-18	15/16"	Mini
T00T14ER32A32115F	ER32 1-1/4"x2.36"	ER32	4.33"	1-1/4"	1.97"	4.33"	2.36"	1/4"	15/16"-16	1-1/2"	Spanner

Order Number Instruction

T00	T14	ER11	-	20	060	F	M
Toolholdercode	Straight Shank code	ER11: ER collet size		— : metric dimension(mm) A: Inch dimension (inch)	OD dimension (D)	Length (L)	M: Mini Nut code F: Flat code



STRAIGHT SHANK EXTENSION

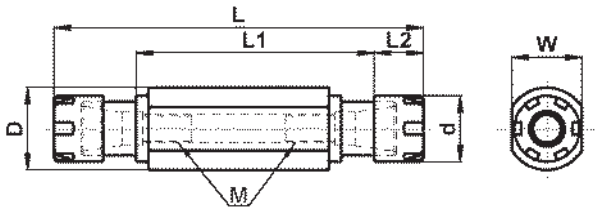
ER COLLET CHUCK DOUBLE END - T14

STRAIGHT SHANK
EXTENSION
ER COLLET CHUCK
T14

CNC LATHE - DOUBLE END

Quality

- Cylinderess : 0.005mm (0.0002")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.0002")
- w/ high-balanced nut



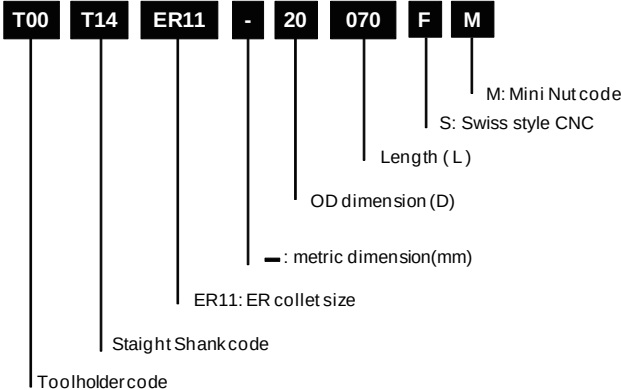
ER COLLET CHUCK DOUBLE END - SWISS CNC MACHINES METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11-20070SM	ER11M 20x30	ER11	70	20	16	70	30	M8	17	Mini
T00T14ER11-20090SM	ER11M 20x50	ER11	90	20	16	90	50	M8	17	Mini
T00T14ER16-20107SM	ER16M 20x55	ER16	107	20	22	107	55	M12	17	Mini
T00T14ER16-22111SM	ER16M 22x55	ER16	111	22	22	111	55	M12	19	Mini
T00T14ER16-22131SM	ER16M 22x75	ER16	131	22	22	131	75	M12	19	Mini

ER COLLET CHUCK DOUBLE END - SWISS CNC MACHINES INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11A19078SM	ER11M 3/4"x1.73"	ER11	3.06"	3/4"	0.63"	3.06"	1.73"	M8	17	Mini
T00T14ER11A19099SM	ER11M 3/4"x2.56"	ER11	3.88"	3/4"	0.63"	3.88"	2.56"	M8	17	Mini
T00T14ER11A19111SM	ER11M 3/4"x3.03"	ER11	4.35"	3/4"	0.63"	4.35"	3.03"	M8	17	Mini
T00T14ER11A19133SM	ER11M 3/4"x3.92"	ER11	5.24"	3/4"	0.63"	5.24"	3.92"	M8	17	Mini

Order Number Instruction



ER COLLET - T03

A CLASS



ER08 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB8-030A	Collet ER8-03	3.0~2.5	0.1181~0.0984"
T03ERB8-035A	Collet ER8-035	3.5~3.0	0.1400~0.1181"
T03ERB8-040A	Collet ER8-04	4.0~3.5	0.1575~0.1400"
T03ERB8-045A	Collet ER8-045	4.5~4.0	0.1800~0.1575"
T03ERB8-050A	Collet ER8-05	5.0~4.5	0.1969~0.1800"

ER11 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB11-030A	Collet ER11-03	3.0~2.0	0.1181~0.0787"
T03ERB11-040A	Collet ER11-04	4.0~3.0	0.1575~0.1181"
T03ERB11-050A	Collet ER11-05	5.0~4.0	0.1969~0.1575"
T03ERB11-060A	Collet ER11-06	6.0~5.0	0.2362~0.1969"
T03ERB11-070A	Collet ER11-07	7.0~6.0	0.2756~0.2362"

ER16 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB16-030A	Collet ER16-03	3.0~2.0	0.1181~0.0787"
T03ERB16-040A	Collet ER16-04	4.0~3.0	0.1575~0.1181"
T03ERB16-050A	Collet ER16-05	5.0~4.0	0.1969~0.1575"
T03ERB16-060A	Collet ER16-06	6.0~5.0	0.2362~0.1969"
T03ERB16-070A	Collet ER16-07	7.0~6.0	0.2756~0.2362"
T03ERB16-080A	Collet ER16-08	8.0~7.0	0.3150~0.2756"
T03ERB16-090A	Collet ER16-09	9.0~8.0	0.3543~0.3150"
T03ERB16-100A	Collet ER16-10	10.0~9.0	0.3937~0.3543"

ER20 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB20-030A	Collet ER20-03	3.0~2.0	0.1181~0.0787"
T03ERB20-040A	Collet ER20-04	4.0~3.0	0.1575~0.1181"
T03ERB20-050A	Collet ER20-05	5.0~4.0	0.1969~0.1575"
T03ERB20-060A	Collet ER20-06	6.0~5.0	0.2362~0.1969"
T03ERB20-070A	Collet ER20-07	7.0~6.0	0.2756~0.2362"
T03ERB20-080A	Collet ER20-08	8.0~7.0	0.3150~0.2756"
T03ERB20-090A	Collet ER20-09	9.0~8.0	0.3543~0.3150"
T03ERB20-100A	Collet ER20-10	10.0~9.0	0.3937~0.3543"
T03ERB20-110A	Collet ER20-11	11.0~10.0	0.4330~0.3937"
T03ERB20-120A	Collet ER20-12	12.0~11.0	0.4724~0.4330"
T03ERB20-130A	Collet ER20-13	13.0~12.0	0.5118~0.4724"

ER25 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
T03ERB25-030A	Collet ER25-03	3.0~2.0	0.1181~0.0787"
T03ERB25-040A	Collet ER25-04	4.0~3.0	0.1575~0.1181"
T03ERB25-050A	Collet ER25-05	5.0~4.0	0.1969~0.1575"
T03ERB25-060A	Collet ER25-06	6.0~5.0	0.2362~0.1969"
T03ERB25-070A	Collet ER25-07	7.0~6.0	0.2756~0.2362"
T03ERB25-080A	Collet ER25-08	8.0~7.0	0.3150~0.2756"
T03ERB25-090A	Collet ER25-09	9.0~8.0	0.3543~0.3150"
T03ERB25-100A	Collet ER25-10	10.0~9.0	0.3937~0.3543"
T03ERB25-110A	Collet ER25-11	11.0~10.0	0.4330~0.3937"
T03ERB25-120A	Collet ER25-12	12.0~11.0	0.4724~0.4330"
T03ERB25-130A	Collet ER25-13	13.0~12.0	0.5118~0.4724"
T03ERB25-140A	Collet ER25-14	14.0~13.0	0.5512~0.5118"
T03ERB25-150A	Collet ER25-15	15.0~14.0	0.5905~0.5512"
T03ERB25-160A	Collet ER25-16	16.0~15.0	0.6300~0.5905"

ER8 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB8A031A	Collet ER8-1/8"	7/64~1/8"
T03ERB8A040A	Collet ER8-5/32"	9/64~5/32"
T03ERB8A047A	Collet ER8-3/16"	5/32~3/16"

ER11 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB11A031A	Collet ER11-1/8"	5/64~1/8"
T03ERB11A040A	Collet ER11-5/32"	1/8~5/32"
T03ERB11A047A	Collet ER11-3/16"	5/32~3/16"
T03ERB11A055A	Collet ER11-7/32"	3/16~7/32"
T03ERB11A063A	Collet ER11-1/4"	7/32~1/4"

ER16 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB16A031A	Collet ER16-1/8"	5/64~1/8"
T03ERB16A040A	Collet ER16-5/32"	1/8~5/32"
T03ERB16A047A	Collet ER16-3/16"	5/32~3/16"
T03ERB16A055A	Collet ER16-7/32"	3/16~7/32"
T03ERB16A063A	Collet ER16-1/4"	7/32~1/4"
T03ERB16A071A	Collet ER16-9/32"	1/4~9/32"
T03ERB16A079A	Collet ER16-5/16"	9/32~5/16"
T03ERB16A087A	Collet ER16-11/32"	5/16~11/32"
T03ERB16A095A	Collet ER16-3/8"	11/32~3/8"
T03ERB16A103A	Collet ER16-13/32"	3/8~13/32"

ER20 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB20A031A	Collet ER20-1/8"	5/64~1/8"
T03ERB20A040A	Collet ER20-5/32"	1/8~5/32"
T03ERB20A047A	Collet ER20-3/16"	5/32~3/16"
T03ERB20A055A	Collet ER20-7/32"	3/16~7/32"
T03ERB20A063A	Collet ER20-1/4"	3/16~1/4"
T03ERB20A071A	Collet ER20-9/32"	1/4~9/32"
T03ERB20A079A	Collet ER20-5/16"	9/32~5/16"
T03ERB20A087A	Collet ER20-11/32"	5/16~11/32"
T03ERB20A095A	Collet ER20-3/8"	11/32~3/8"
T03ERB20A103A	Collet ER20-13/32"	11/32~13/32"
T03ERB20A111A	Collet ER20-7/16"	13/32~7/16"
T03ERB20A119A	Collet ER20-15/32"	7/16~15/32"
T03ERB20A127A	Collet ER20-1/2"	15/32~1/2"

ER25 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB25A031A	Collet ER25-1/8"	5/64~1/8"
T03ERB25A040A	Collet ER25-5/32"	1/8~5/32"
T03ERB25A047A	Collet ER25-3/16"	5/32~3/16"
T03ERB25A055A	Collet ER25-7/32"	3/16~7/32"
T03ERB25A063A	Collet ER25-1/4"	3/16~1/4"
T03ERB25A071A	Collet ER25-9/32"	1/4~9/32"
T03ERB25A079A	Collet ER25-5/16"	9/32~5/16"
T03ERB25A087A	Collet ER25-11/32"	5/16~11/32"
T03ERB25A095A	Collet ER25-3/8"	11/32~3/8"
T03ERB25A103A	Collet ER25-13/32"	11/32~13/32"
T03ERB25A111A	Collet ER25-7/16"	13/32~7/16"
T03ERB25A119A	Collet ER25-15/32"	7/16~15/32"
T03ERB25A127A	Collet ER25-1/2"	15/32~1/2"
T03ERB25A135A	Collet ER25-17/32"	1/2~17/32"

ER COLLET - T03



ER08 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB8-030AA	Collet ER8-03AA	3.0~2.5	0.1181~0.0984"
T03ERB8-035AA	Collet ER8-035AA	3.5~3.0	0.1400~0.1181"
T03ERB8-040AA	Collet ER8-04AA	4.0~3.5	0.1575~0.1400"
T03ERB8-045AA	Collet ER8-045AA	4.5~4.0	0.1800~0.1575"
T03ERB8-050AA	Collet ER8-05AA	5.0~4.5	0.1969~0.1800"

ER11 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB11-030AA	Collet ER11-03AA	3.0~2.0	0.1181~0.0787"
T03ERB11-040AA	Collet ER11-04AA	4.0~3.0	0.1575~0.1181"
T03ERB11-050AA	Collet ER11-05AA	5.0~4.0	0.1969~0.1575"
T03ERB11-060AA	Collet ER11-06AA	6.0~5.0	0.2362~0.1969"
T03ERB11-070AA	Collet ER11-07AA	7.0~6.0	0.2756~0.2362"

ER16 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB16-030AA	Collet ER16-03AA	3.0~2.0	0.1181~0.0787"
T03ERB16-040AA	Collet ER16-04AA	4.0~3.0	0.1575~0.1181"
T03ERB16-050AA	Collet ER16-05AA	5.0~4.0	0.1969~0.1575"
T03ERB16-060AA	Collet ER16-06AA	6.0~5.0	0.2362~0.1969"
T03ERB16-070AA	Collet ER16-07AA	7.0~6.0	0.2756~0.2362"
T03ERB16-080AA	Collet ER16-08AA	8.0~7.0	0.3150~0.2756"
T03ERB16-090AA	Collet ER16-09AA	9.0~8.0	0.3543~0.3150"
T03ERB16-100AA	Collet ER16-10AA	10.0~9.0	0.3937~0.3543"

ER20 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB20-030AA	Collet ER20-03AA	3.0~2.0	0.1181~0.0787"
T03ERB20-040AA	Collet ER20-04AA	4.0~3.0	0.1575~0.1181"
T03ERB20-050AA	Collet ER20-05AA	5.0~4.0	0.1969~0.1575"
T03ERB20-060AA	Collet ER20-06AA	6.0~5.0	0.2362~0.1969"
T03ERB20-070AA	Collet ER20-07AA	7.0~6.0	0.2756~0.2362"
T03ERB20-080AA	Collet ER20-08AA	8.0~7.0	0.3150~0.2756"
T03ERB20-090AA	Collet ER20-09AA	9.0~8.0	0.3543~0.3150"
T03ERB20-100AA	Collet ER20-10AA	10.0~9.0	0.3937~0.3543"
T03ERB20-110AA	Collet ER20-11AA	11.0~10.0	0.4330~0.3937"
T03ERB20-120AA	Collet ER20-12AA	12.0~11.0	0.4724~0.4330"
T03ERB20-130AA	Collet ER20-13AA	13.0~12.0	0.5118~0.4724"

ER25 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB25-030AA	Collet ER25-03AA	3.0~2.0	0.1181~0.0787"
T03ERB25-040AA	Collet ER25-04AA	4.0~3.0	0.1575~0.1181"
T03ERB25-050AA	Collet ER25-05AA	5.0~4.0	0.1969~0.1575"
T03ERB25-060AA	Collet ER25-06AA	6.0~5.0	0.2362~0.1969"
T03ERB25-070AA	Collet ER25-07AA	7.0~6.0	0.2756~0.2362"
T03ERB25-080AA	Collet ER25-08AA	8.0~7.0	0.3150~0.2756"
T03ERB25-090AA	Collet ER25-09AA	9.0~8.0	0.3543~0.3150"
T03ERB25-100AA	Collet ER25-10AA	10.0~9.0	0.3937~0.3543"
T03ERB25-110AA	Collet ER25-11AA	11.0~10.0	0.4330~0.3937"
T03ERB25-120AA	Collet ER25-12AA	12.0~11.0	0.4724~0.4330"
T03ERB25-130AA	Collet ER25-13AA	13.0~12.0	0.5118~0.4724"
T03ERB25-140AA	Collet ER25-14AA	14.0~13.0	0.5512~0.5118"
T03ERB25-150AA	Collet ER25-15AA	15.0~14.0	0.5905~0.5512"
T03ERB25-160AA	Collet ER25-16AA	16.0~15.0	0.6300~0.5905"

ER8 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB8A031AA	Collet ER8-1/8"AA	7/64~1/8"
T03ERB8A040AA	Collet ER8-5/32"AA	9/64~5/32"
T03ERB8A047AA	Collet ER8-3/16"AA	5/32~3/16"

ER11 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB11A031AA	Collet ER11-1/8"AA	5/64~1/8"
T03ERB11A040AA	Collet ER11-5/32"AA	1/8~5/32"
T03ERB11A047AA	Collet ER11-3/16"AA	5/32~3/16"
T03ERB11A055AA	Collet ER11-7/32"AA	3/16~7/32"
T03ERB11A063AA	Collet ER11-1/4"AA	7/32~1/4"

ER16 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB16A031AA	Collet ER16-1/8"AA	5/64~1/8"
T03ERB16A040AA	Collet ER16-5/32"AA	1/8~5/32"
T03ERB16A047AA	Collet ER16-3/16"AA	5/32~3/16"
T03ERB16A055AA	Collet ER16-7/32"AA	3/16~7/32"
T03ERB16A063AA	Collet ER16-1/4"AA	7/32~1/4"
T03ERB16A071AA	Collet ER16-9/32"AA	1/4~9/32"
T03ERB16A079AA	Collet ER16-5/16"AA	9/32~5/16"
T03ERB16A087AA	Collet ER16-11/32"AA	5/16~11/32"
T03ERB16A095AA	Collet ER16-3/8"AA	11/32~3/8"
T03ERB16A103AA	Collet ER16-13/32"AA	3/8~13/32"

ER20 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB20A031AA	Collet ER20-1/8"AA	5/64~1/8"
T03ERB20A040AA	Collet ER20-5/32"AA	1/8~5/32"
T03ERB20A047AA	Collet ER20-3/16"AA	5/32~3/16"
T03ERB20A055AA	Collet ER20-7/32"AA	3/16~7/32"
T03ERB20A063AA	Collet ER20-1/4"AA	3/16~1/4"
T03ERB20A071AA	Collet ER20-9/32"AA	1/4~9/32"
T03ERB20A079AA	Collet ER20-5/16"AA	9/32~5/16"
T03ERB20A087AA	Collet ER20-11/32"AA	5/16~11/32"
T03ERB20A095AA	Collet ER20-3/8"AA	11/32~3/8"
T03ERB20A103AA	Collet ER20-13/32"AA	11/32~13/32"
T03ERB20A111AA	Collet ER20-7/16"AA	13/32~7/16"
T03ERB20A119AA	Collet ER20-15/32"AA	7/16~15/32"
T03ERB20A127AA	Collet ER20-1/2"AA	15/32~1/2"

ER25 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB25A031AA	Collet ER25-1/8"AA	5/64~1/8"
T03ERB25A040AA	Collet ER25-5/32"AA	1/8~5/32"
T03ERB25A047AA	Collet ER25-3/16"AA	5/32~3/16"
T03ERB25A055AA	Collet ER25-7/32"AA	3/16~7/32"
T03ERB25A063AA	Collet ER25-1/4"AA	3/16~1/4"
T03ERB25A071AA	Collet ER25-9/32"AA	1/4~9/32"
T03ERB25A079AA	Collet ER25-5/16"AA	9/32~5/16"
T03ERB25A087AA	Collet ER25-11/32"AA	5/16~11/32"
T03ERB25A095AA	Collet ER25-3/8"AA	11/32~3/8"
T03ERB25A103AA	Collet ER25-13/32"AA	11/32~13/32"
T03ERB25A111AA	Collet ER25-7/16"AA	13/32~7/16"
T03ERB25A119AA	Collet ER25-15/32"AA	7/16~15/32"
T03ERB25A127AA	Collet ER25-1/2"AA	15/32~1/2"
T03ERB25A135AA	Collet ER25-17/32"AA	1/2~17/32"

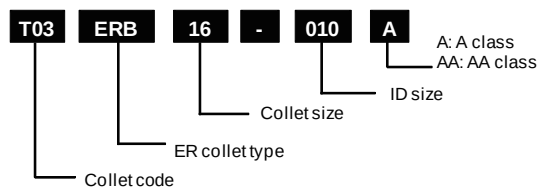
ER32 COLLET		METRIC	
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB32-030AA	Collet ER32-03AA	3.0~2.0	0.1181~0.0787"
T03ERB32-040AA	Collet ER32-04AA	4.0~3.0	0.1575~0.1181"
T03ERB32-050AA	Collet ER32-05AA	5.0~4.0	0.1969~0.1575"
T03ERB32-060AA	Collet ER32-06AA	6.0~5.0	0.2362~0.1969"
T03ERB32-070AA	Collet ER32-07AA	7.0~6.0	0.2756~0.2362"
T03ERB32-080AA	Collet ER32-08AA	8.0~7.0	0.3150~0.2756"
T03ERB32-090AA	Collet ER32-09AA	9.0~8.0	0.3543~0.3150"
T03ERB32-100AA	Collet ER32-10AA	10.0~9.0	0.3937~0.3543"
T03ERB32-110AA	Collet ER32-11AA	11.0~10.0	0.4330~0.3937"
T03ERB32-120AA	Collet ER32-12AA	12.0~11.0	0.4724~0.4330"
T03ERB32-130AA	Collet ER32-13AA	13.0~12.0	0.5118~0.4724"
T03ERB32-140AA	Collet ER32-14AA	14.0~13.0	0.5512~0.5118"
T03ERB32-150AA	Collet ER32-15AA	15.0~14.0	0.5905~0.5512"
T03ERB32-160AA	Collet ER32-16AA	16.0~15.0	0.6300~0.5905"
T03ERB32-170AA	Collet ER32-17AA	17.0~16.0	0.6693~0.6300"
T03ERB32-180AA	Collet ER32-18AA	18.0~17.0	0.7087~0.6693"
T03ERB32-190AA	Collet ER32-19AA	19.0~18.0	0.7480~0.7087"
T03ERB32-200AA	Collet ER32-20AA	20.0~19.0	0.7874~0.7480"

ER25 COLLET		INCH	
Order Number	Part Name	Clamping Range	
T03ERB25A142AA	Collet ER25-9/16"AA	17/32~9/16"	
T03ERB25A150AA	Collet ER25-19/32"AA	9/16~19/32"	
T03ERB25A158AA	Collet ER25-5/8"AA	19/32~5/8"	

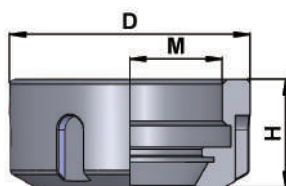
ER32 COLLET		INCH	
Order Number	Part Name	Clamping Range	
T03ERB32A031AA	Collet ER32-1/8"AA	5/64~1/8"	
T03ERB32A040AA	Collet ER32-5/32"AA	1/8~5/32"	
T03ERB32A047AA	Collet ER32-3/16"AA	5/32~3/16"	
T03ERB32A055AA	Collet ER32-7/32"AA	3/16~7/32"	
T03ERB32A063AA	Collet ER32-1/4"AA	3/16~1/4"	
T03ERB32A071AA	Collet ER32-9/32"AA	1/4~9/32"	
T03ERB32A079AA	Collet ER32-5/16"AA	9/32~5/16"	
T03ERB32A087AA	Collet ER32-11/32"AA	5/16~11/32"	
T03ERB32A095AA	Collet ER32-3/8"AA	11/32~3/8"	
T03ERB32A103AA	Collet ER32-13/32"AA	11/32~13/32"	
T03ERB32A111AA	Collet ER32-7/16"AA	13/32~7/16"	
T03ERB32A119AA	Collet ER32-15/32"AA	7/16~15/32"	
T03ERB32A127AA	Collet ER32-1/2"AA	15/32~1/2"	
T03ERB32A135AA	Collet ER32-17/32"AA	1/2~17/32"	
T03ERB32A142AA	Collet ER32-9/16"AA	17/32~9/16"	
T03ERB32A150AA	Collet ER32-19/32"AA	9/16~19/32"	
T03ERB32A158AA	Collet ER32-5/8"AA	19/32~5/8"	
T03ERB32A166AA	Collet ER32-21/32"AA	5/8~21/32"	
T03ERB32A174AA	Collet ER32-11/16"AA	21/32~11/16"	
T03ERB32A182AA	Collet ER32-23/32"AA	11/16~23/32"	
T03ERB32A190AA	Collet ER32-3/4"AA	23/32~3/4"	
T03ERB32A198AA	Collet ER32-25/32"AA	3/4~25/32"	

ER40 COLLET		METRIC	
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB40-030AA	Collet ER40-03AA	3.0~2.0	0.1181~0.0787"
T03ERB40-040AA	Collet ER40-04AA	4.0~3.0	0.1575~0.1181"
T03ERB40-050AA	Collet ER40-05AA	5.0~4.0	0.1969~0.1575"
T03ERB40-060AA	Collet ER40-06AA	6.0~5.0	0.2362~0.1969"
T03ERB40-070AA	Collet ER40-07AA	7.0~6.0	0.2756~0.2362"
T03ERB40-080AA	Collet ER40-08AA	8.0~7.0	0.3150~0.2756"
T03ERB40-090AA	Collet ER40-09AA	9.0~8.0	0.3543~0.3150"
T03ERB40-100AA	Collet ER40-10AA	10.0~9.0	0.3937~0.3543"
T03ERB40-110AA	Collet ER40-11AA	11.0~10.0	0.4330~0.3937"
T03ERB40-120AA	Collet ER40-12AA	12.0~11.0	0.4724~0.4330"
T03ERB40-130AA	Collet ER40-13AA	13.0~12.0	0.5118~0.4724"
T03ERB40-140AA	Collet ER40-14AA	14.0~13.0	0.5512~0.5118"
T03ERB40-150AA	Collet ER40-15AA	15.0~14.0	0.5905~0.5512"
T03ERB40-160AA	Collet ER40-16AA	16.0~15.0	0.6300~0.5905"
T03ERB40-170AA	Collet ER40-17AA	17.0~16.0	0.6693~0.6300"
T03ERB40-180AA	Collet ER40-18AA	18.0~17.0	0.7087~0.6693"
T03ERB40-190AA	Collet ER40-19AA	19.0~18.0	0.7480~0.7087"
T03ERB40-200AA	Collet ER40-20AA	20.0~19.0	0.7874~0.7480"
T03ERB40-210AA	Collet ER40-21AA	21.0~20.0	0.8268~0.7874"
T03ERB40-220AA	Collet ER40-22AA	22.0~21.0	0.8661~0.8268"
T03ERB40-230AA	Collet ER40-23AA	23.0~22.0	0.9055~0.8661"
T03ERB40-240AA	Collet ER40-24AA	24.0~23.0	0.9449~0.9055"
T03ERB40-250AA	Collet ER40-25AA	25.0~24.0	0.9843~0.9449"
T03ERB40-260AA	Collet ER40-26AA	26.0~25.0	1.0236~0.9843"

ER40 COLLET		INCH	
Order Number	Part Name	Clamping Range	
T03ERB40A031AA	Collet ER40-1/8"AA	5/64~1/8"	
T03ERB40A040AA	Collet ER40-5/32"AA	1/8~5/32"	
T03ERB40A047AA	Collet ER40-3/16"AA	5/32~3/16"	
T03ERB40A055AA	Collet ER40-7/32"AA	3/16~7/32"	
T03ERB40A063AA	Collet ER40-1/4"AA	3/16~1/4"	
T03ERB40A071AA	Collet ER40-9/32"AA	1/4~9/32"	
T03ERB40A079AA	Collet ER40-5/16"AA	9/32~5/16"	
T03ERB40A087AA	Collet ER40-11/32"AA	5/16~11/32"	
T03ERB40A095AA	Collet ER40-3/8"AA	11/32~3/8"	
T03ERB40A103AA	Collet ER40-13/32"AA	11/32~13/32"	
T03ERB40A111AA	Collet ER40-7/16"AA	13/32~7/16"	
T03ERB40A119AA	Collet ER40-15/32"AA	7/16~15/32"	
T03ERB40A127AA	Collet ER40-1/2"AA	15/32~1/2"	
T03ERB40A135AA	Collet ER40-17/32"AA	1/2~17/32"	
T03ERB40A142AA	Collet ER40-9/16"AA	17/32~9/16"	
T03ERB40A150AA	Collet ER40-19/32"AA	9/16~19/32"	
T03ERB40A158AA	Collet ER40-5/8"AA	19/32~5/8"	
T03ERB40A166AA	Collet ER40-21/32"AA	5/8~21/32"	
T03ERB40A174AA	Collet ER40-11/16"AA	21/32~11/16"	
T03ERB40A182AA	Collet ER40-23/32"AA	11/16~23/32"	
T03ERB40A190AA	Collet ER40-3/4"AA	23/32~3/4"	
T03ERB40A198AA	Collet ER40-25/32"AA	3/4~25/32"	
T03ERB40A206AA	Collet ER40-13/16"AA	25/32~13/16"	
T03ERB40A214AA	Collet ER40-27/32"AA	13/16~27/32"	
T03ERB40A222AA	Collet ER40-7/8"AA	27/32~7/8"	
T03ERB40A230AA	Collet ER40-29/32"AA	7/8~29/32"	
T03ERB40A238AA	Collet ER40-15/16"AA	29/32~15/16"	
T03ERB40A246AA	Collet ER40-31/32"AA	15/16~31/32"	
T03ERB40A254AA	Collet ER40-1"AA	31/32~1"	



ER CLAMPING NUT - T04



Mini



Hex



Spanner



Ball Bearing

ER MINI NUT - w/ PrimeTool unique concentric balanced design - HSM

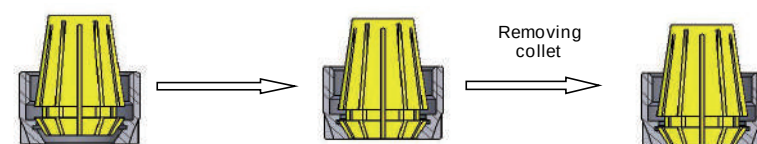
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M1A	ER8 Mini Nut	ER8	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M1A	ER11 Mini Nut	ER11	16	12.0	M13xP0.75	Mini	T07ER1103
T04RR16-M1A	ER16 Mini Nut	ER16	22	18.4	M19xP1.00	Mini	T07ER1603
T04RR20-M1A	ER20 Mini Nut	ER20	28	19.0	M24xP1.00	Mini	T07ER2003

ER MINI BALANCED NUT, BALANCED (<1g-mm) - w/PrimeTool unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M2A	ER8-HB,Mini Nut	ER8	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M2A	ER11-HB,Mini Nut	ER11	16	12.0	M13xP0.75	Mini	T07ER1103
T04RR16-M2A	ER16-HB,Mini Nut	ER16	22	18.4	M19xP1.00	Mini	T07ER1603
T04RR20-M2A	ER20-HB,Mini Nut	ER20	28	19.0	M24xP1.00	Mini	T07ER2003

Assembly with ER collet

1. Push collet into the nut as shown in the Diagram below



Concentric Design

Complete assembly

1. Push collet out from nut in direction of arrow

ER NUT

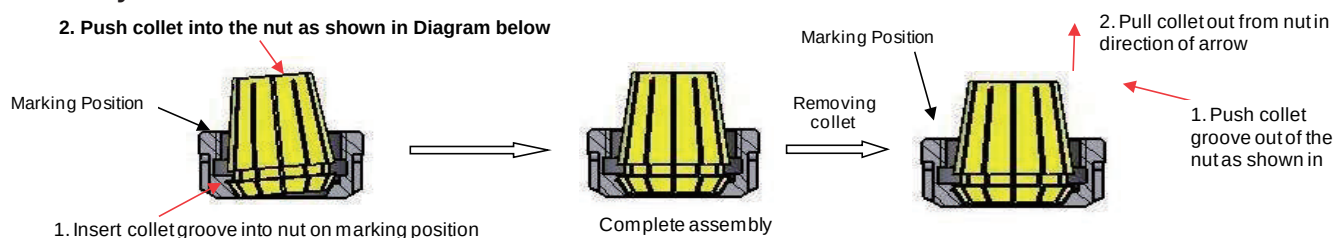
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04ER11-H1A	ER11 Nut,Hex	ER11	19	11.3	M14xP0.75	Hex	T07ER1101
T04ER16-H1A	ER16 Nut, Hex	ER16	28	17.5	M22xP1.50	Hex	T07ER1601
T04ER20-H1A	ER20 Nut,Hex	ER20	34	19.0	M25xP1.50	Hex	T07ER2001
T04ER20-D1A	ER20 Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	T07ER2004
T04ER25-D1A	ER25 Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502
T04ER32-D1A	ER32 Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202
T04ER40-D1A	ER40 Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002

ER BALANCED NUT, BALANCED (<1g-mm)

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04ER11-H2A	ER11-HB Nut	ER11	19	11.3	M14xP0.75	Hex	T07ER1101
T04ER16-H2A	ER16-HB Nut	ER16	28	17.5	M22xP1.50	Hex	T07ER1601
T04ER20-H2A	ER20-HB Nut	ER20	34	19.0	M25xP1.50	Hex	T07ER2001
T04ER20-D2A	ER20-HB Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	T07ER2004
T04ER25-D2A	ER25-HB Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502
T04ER32-D2A	ER32-HB Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202
T04ER40-D2A	ER40-HB Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002

Assembly with ER collet

2. Push collet into the nut as shown in Diagram below



Marking Position

1. Insert collet groove into nut on marking position

Complete assembly

Marking Position

Removing collet

2. Pull collet out from nut in direction of arrow

1. Push collet groove out of the nut as shown in

ER CLAMPING NUT - T04

ER RR Nut - w/PrimeTool Unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR11-H1A	ER11-RR Nut	ER11	19	11.3	M14xP0.75	Hex	T07ER1101	
T04RR16-H1A	ER16-RR Nut	ER16	28	17.5	M22xP1.50	Hex	T07ER1601	
T04RR20-H1A	ER20-RR Nut	ER20	34	19.0	M25xP1.50	Hex	T07ER2001	
T04RR25-D1A	ER25-RR Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502	
T04RR32-D1A	ER32-RR Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202	
T04RR40-D1A	ER40-RR Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002	

ER RR BALANCED NUT - BALANCED (<1g-mm) - w/PrimeTool unique concentric balanced design - HSM

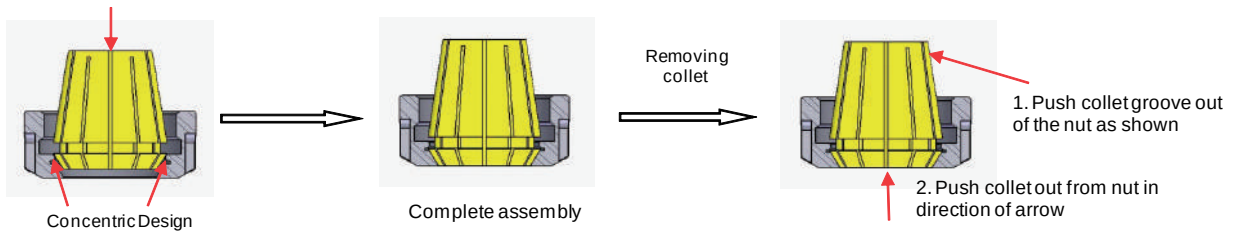
Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR11-H2A	ER11-RR-HB Nut	ER11	19	11.3	M14xP0.75	Hex	T07ER1101	
T04RR16-H2A	ER16-RR-HB Nut	ER16	28	17.5	M22xP1.50	Hex	T07ER1601	
T04RR20-H2A	ER20-RR-HB Nut	ER20	34	19.0	M25xP1.50	Hex	T07ER2001	
T04RR25-D2A	ER25-RR-HB Nut	ER25	42	20.0	M32xP1.50	ER	T07ER2502	
T04RR32-D2A	ER32-RR-HB Nut	ER32	50	22.5	M40xP1.50	ER	T07ER3202	
T04RR40-D2A	ER40-RR-HB Nut	ER40	63	25.5	M50xP1.50	ER	T07ER4002	

PrimeTool unique concentric design:

1. Concentric design eliminates imbalance from standard clamping nut.
2. Easy to assemble ER collet. Push ER collet into ER nut with one step.
3. The collet will not fall out when properly in the nut.
4. Unique design for High Speed Machining

Assembly with ER collet

1. Push collet into the nut as shown in diagram below



ER BALL BEARING NUT - w/ PrimeTool unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR25-D1A-BB	ER25-BB,Ball Bearing Nut	ER25	42	20.0	M32xP1.5	ER	T07ER2502	
T04RR32-D1A-BB	ER32-BB,Ball Bearing Nut	ER32	50	22.5	M40xP1.5	ER	T07ER3202	
T04RR40-D1A-BB	ER40-BB,Ball Bearing Nut	ER40	63	25.5	M50xP1.5	ER	T07ER4002	

Feature:

1. PrimeTool Unique Concentric Design.
2. Precision ball bearing assemble. Smoothly working.



Ball bearing nut



Ball bearing nut

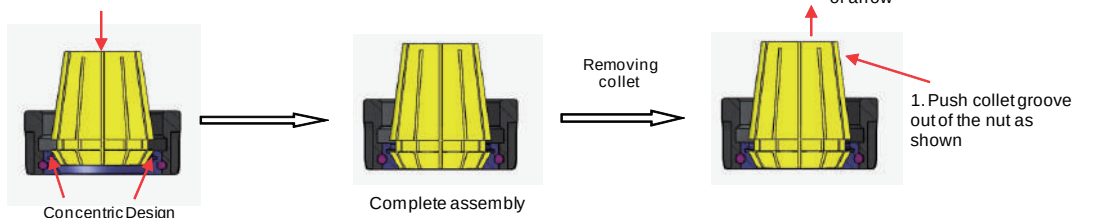
Steel ball



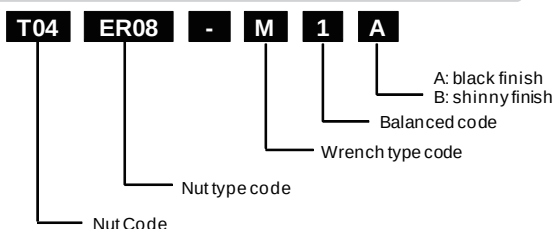
ER Spanner

Assembly with ER collet

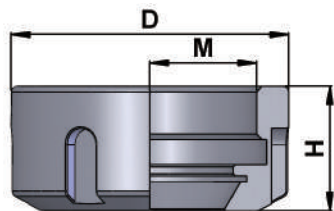
1. Push collet into the nut as shown in Diagram below



Order Number Instruction



ER CLAMPING NUT COOLANT - T04



Mini



Hex



Spanner



Ball Bearing

ER COOLANT MINI NUT w/sealing coolant -w/ PrimeTool unique concentric design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M1AC	ER08C,Coolant Mini Nut	ER08	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M1AC	ER11C,Coolant Mini Nut	ER11	16	12	M13xP0.75	Mini	T07ER1103
T04RR16-M1AC	ER16C,Coolant Mini Nut	ER16	22	18.4	M19xP1.00	Mini	T07ER1603
T04RR20-M1AC	ER20C,Coolant Mini Nut	ER20	28	19	M24xP1.00	Mini	T07ER2003

ER COOLANT MINI NUT HIGH BALANCED - w/sealing coolant w/ Primetool unique concentric Design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M2AC	ER08C-HB, Coolant Mini Nut	ER08	12	10.8	M10xP0.75	Mini	T07ER0803
T04RR11-M2AC	ER11C-HB, Coolant Mini Nut	ER11	16	12	M13xP0.75	Mini	T07ER1103
T04RR16-M2AC	ER16C-HB, Coolant Mini Nut	ER16	22	18.4	M19xP1.0	Mini	T07ER1603
T04RR20-M2AC	ER20C-HB, Coolant Mini Nut	ER20	28	19	M24xP1.0	Mini	T07ER2003

ER RR COOLANT NUT w/sealing coolant - w/ PrimeTool unique concentric design - HSM

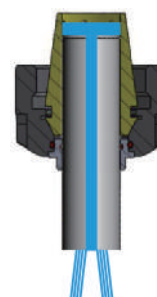
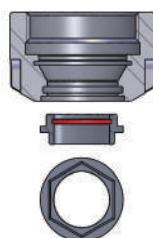
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR11-H1AC	ER11C,Coolant Nut,Hex	ER11	19		M14xP0.75	Hex	T07ER1101
T04RR16-H1AC	ER16C,Coolant Nut,Hex	ER16	28		M22xP1.50	Hex	T07ER1601
T04RR20-H1AC	ER20C,Coolant Nut,Hex	ER20	34		M25xP1.50	Hex	T07ER2001
T04RR25-H1AC	ER25C,Coolant Nut	ER25	42		M32xP1.50	Spanner	T07ER2502
T04RR32-H1AC	ER32C,Coolant Nut	ER32	50		M40xP1.50	Spanner	T07ER3202
T04RR40-H1AC	ER40C,Coolant Nut	ER40	63		M50xP1.50	Spanner	T07ER4002

ER RR COOLANT NUT HIGH-BALANCED (<2g-mm) - w/sealing coolant - w/PrimeTool unique concentric design - HSM

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR11-H2AC	ER11C-HB, Coolant Nut,Hex	ER11	19		M14xP0.75	Hex	T07ER1101
T04RR16-H2AC	ER16C-HB, Coolant Nut,Hex	ER16	28		M22xP1.50	Hex	T07ER1601
T04RR20-H2AC	ER20C-HB,Coolant Nut,Hex	ER20	34		M25xP1.50	Hex	T07ER2001
T04RR25-H2AC	ER25C-HB,Coolant Nut	ER25	42		M32xP1.50	Spanner	T07ER2502
T04RR32-H2AC	ER32C-HB,Coolant Nut	ER32	50		M40xP1.50	Spanner	T07ER3202
T04RR40-H2AC	ER40C-HB,Coolant Nut	ER40	63		M50xP1.50	Spanner	T07ER4002

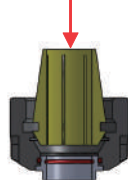
Feature:

1. PrimeTool Unique Concentric Design.
2. Coolant pressure: up to 1500psi (103 bar).

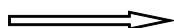


Assembly with ER collet

1. Push collet into the nut as shown in Diagram below

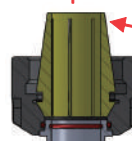


Concentric Design



Complete Assembly

Removing
collet

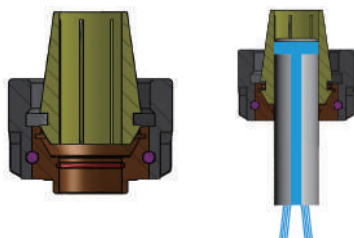


2. Pull collet out from nut in direction of arrow

1. Push collet groove out of the nut as shown

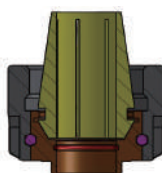
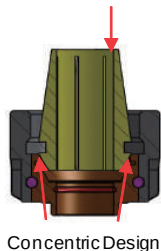
ER BALL BEARING COOLANT NUT BALL BEARING- w/Coolant Sealing

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR25-D1AC-BB	ER25-BB,Ball Bearing Nut	ER25	42	20	M32xP1.5	Spanner	T07ER2502	
T04RR32-D1AC-BB	ER32-BB,Ball Bearing Nut	ER32	50	22.5	M40xP1.5	Spanner	T07ER3202	
T04RR40-D1AC-BB	ER40-BB,Ball Bearing Nut	ER40	63	25.5	M50xP1.5	Spanner	T07ER4002	

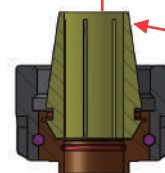


Assembly with ER collet

1. Push collet into the nut as shown in Diagram below



Removing
collet



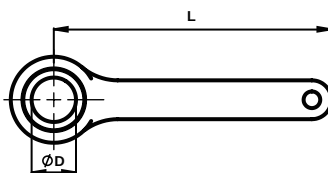
2. Pull collet out from nut in direction of arrow

1. Push collet groove out of the nut as shown

WRENCH - T07

Quality

- Forged-alloy steel
- Case-hardened heat treatment



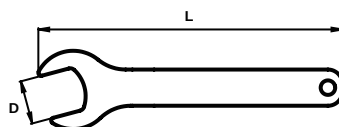
MINI WRENCH

MINI WRENCH BEARING WITH ONE-WAY CLUTCHES

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER0805	ER08 MINI WRENCH	12	100	ER08M	YES	YES	
T07ER1105	ER11 MINI WRENCH	16	100	ER11M	YES	YES	
T07ER1605	ER16 MINI WRENCH	22	120	ER16M	YES	NO	
T07ER2005	ER20 MINI WRENCH	28	120	ER20M	YES	NO	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



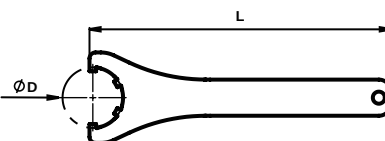
HEX WRENCH

HEX WRENCH

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER0801	IR08 HEX WRENCH	11	165	ER11 HEX	YES	YES	
T07ER8S01	IR8S HEX WRENCH	15	165	ER11 HEX	YES	YES	
T07ER1101	ER11 HEX WRENCH	17	165	ER11 HEX	YES	YES	
T07ER1601	ER16 HEX WRENCH	25	204	ER16 HEX	YES	YES	
T07ER2001	ER20 HEX WRENCH	30	210	ER20 HEX	YES	YES	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



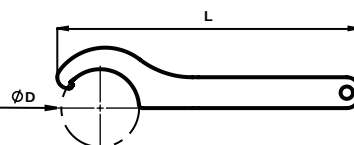
ER WRENCH

ER WRENCH

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER2502	ER25 WRENCH	42	210	ER25	YES	REDUCTION O	
T07ER3202	ER32 WRENCH	50	250	ER32	YES	REDUCTION O	
T07ER4002	ER40 WRENCH	63	290	ER40	YES	REDUCTION O	

Quality

- Forged-alloy steel
- Case-hardened heat treatment

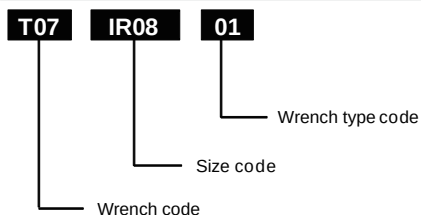


IR WRENCH

IR WRENCH

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER2004	IR20 WRENCH	34	203	ER20	YES	YES	
T07ER2504	IR25 WRENCH	42	205	ER25	YES	YES	
T07ER3204	IR32 WRENCH	50	240	ER32	YES	YES	
T07ER4004	IR40 WRENCH	63	245	ER40	YES	YES	
T07ER4104	IR41 WRENCH	70	250	NO	NO	YES	
T07ER4204	IR42 WRENCH	85	256	NO	NO	YES	

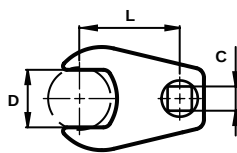
Order Number Instruction



WRENCH DRIVE KEY - T07 TORQUE WRENCH ADAPTOR

Quality

- Forged-alloy steel
- Case-hardened heat treatment



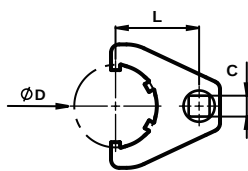
HEX WRENCH ADAPTOR

HEX WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER0801-D09	IR08 HEX WRENCH 3/8" ADAPTOR	11	50.8	2"	3/8"	NO	NO	YES	
T07ER8S01-D09	IR8S HEX WRENCH 3/8" ADAPTOR	14	50.8	2"	3/8"	NO	NO	YES	
T07ER1101-D09	ER11 HEX WRENCH 3/8" ADAPTOR	17	50.8	2"	3/8"	ER11 HEX	YES	YES	
T07ER1601-D12	ER16 HEX WRENCH 1/2" ADAPTOR	25	50.8	2"	1/2"	ER16 HEX	YES	YES	
T07ER2001-D12	ER20 HEX WRENCH 1/2" ADAPTOR	30	50.8	2"	1/2"	ER20 HEX	YES	YES	

Quality

- Forged-alloy steel
- Case-hardened heat treatment



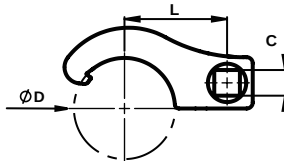
ER WRENCH ADAPTOR

ER WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER2502-D12	ER 25 WRENCH 1/2" ADAPTOR	42	50.8	2"	1/2"	ER25	YES	YES	
T07ER3202-D12	ER 32 WRENCH 1/2" ADAPTOR	50	50.8	2"	1/2"	ER32	YES	YES	
T07ER4002-D12	ER 40 WRENCH 1/2" ADAPTOR	63	50.8	2"	1/2"	ER40	YES	YES	

Quality

- Forged-alloy steel
- Case-hardened heat treatment

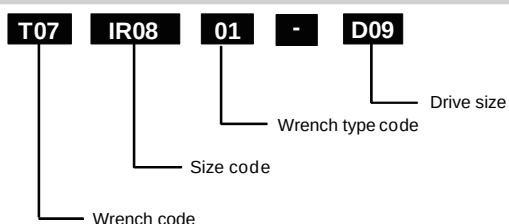


IR WRENCH ADAPTOR

IR WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH

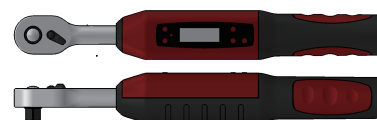
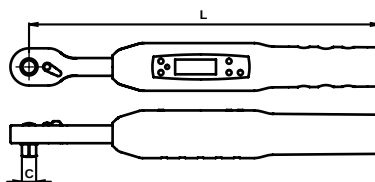
Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER2004-D12	IR20 WRENCH 1/2" ADAPTOR	34	50.8	2"	1/2"	NO	NO	YES	
T07ER2504-D12	IR25 WRENCH 1/2" ADAPTOR	42	50.8	2"	1/2"	ER25	YES	YES	
T07ER3204-D12	IR32 WRENCH 1/2" ADAPTOR	50	50.8	2"	1/2"	ER32	YES	YES	
T07ER4004-D12	IR40 WRENCH 1/2" ADAPTOR	63	50.8	2"	1/2"	ER40	YES	YES	
T07ER4104-D12	IR41 WRENCH 1/2" ADAPTOR	70	76.2	3"	1/2"	NO	NO	YES	
T07ER4204-D12	IR42 WRENCH 1/2" ADAPTOR	83	76.2	3"	1/2"	NO	NO	YES	

Order Number Instruction



Quality

- Unit: N-m, Kg-cm, Kg-m, in-lb, ft-lb
- Peak and Trace mode
- Auto shut off: 80 Seconds
- Alarm: Buzzer and LED
- Preset: 10



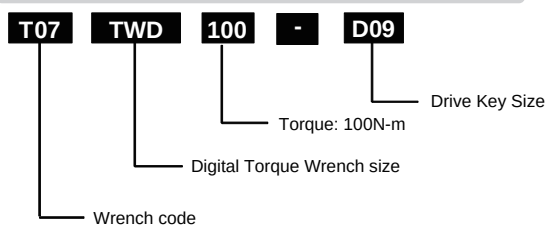
TORQUE WRENCH DRIVE KEY DIGITAL

Order Number	Part Name	C inch	L mm	L inch	N-m	ft-lb	remark
T07TWD100-D09	Digital Torque Wrench 100N-m, 3/8"	3/8"	310	12.205"	10-100	7.4-74	
T07TWD200-D12	Digital Torque Wrench 200N-m, 1/2"	1/2"	480	18.898"	20-200	15-147	
T07TWD310-D12	Digital Torque Wrench 340N-m, 1/2"	1/2"	630	24.803"	68-340	50-250	



Order Number	Part Name	C inch	L mm	L inch	N-m	ft-lb	remark
T07TWD200V-D12	Digital Torque Wrench 200N-m, 1/2",V	1/2"	480	18.898"	20-200	15-147	

Order Number Instruction



UNIVERSAL CNC TIGHTENING SYSTEM - T50

Order Number Instruction

T50

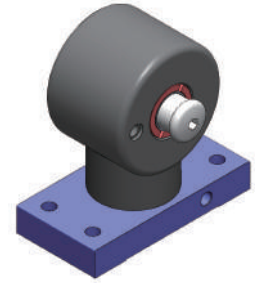
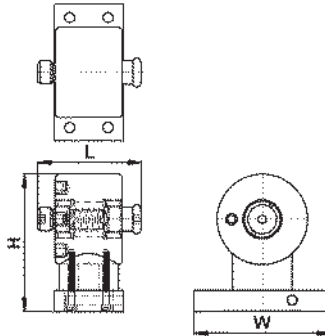
A001

BT30

Taper 30 toolholder

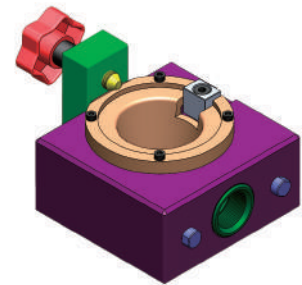
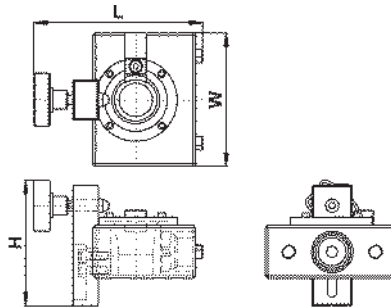
A001: Clamping DeviceBody
B001: Clamping Device

Clamping Device code



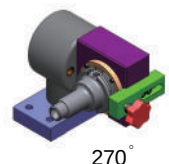
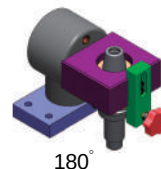
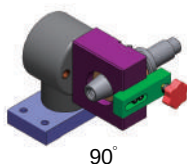
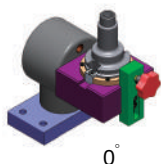
CLAMPING DEVICE BODY

Order Number	Part Name	L	W	H
T50-A001	Clamping device body	108	142	143



CLAMPING DEVICE

Order Number	Part Name	L	W	H	Taper size				
T50-B001-BT30	Taper 30 clamping device	127	100	91	BT30	ISO30			
T50-B001-BT40	Taper 40 clamping device	142	100	91	BT40	CAT40	ISO40		
T50-B001-BT50	Taper 50 clamping device	169	100	91	BT50	CAT50	ISO50		
T50-B001-BT50-R	Taper 50 clamping device-Rotor	169	100	91	BT50	CAT50	ISO50		
T50-B001-HA32	HSK A32 clamping device	132	100	74	A32	C32			
T50-B001-HA40	HSK A40 clamping device	136	100	74	A40	C40			
T50-B001-HA50	HSK A50 clamping device		100		A50	C50			
T50-B001-HA63	HSK A63 clamping device	142	100	91	A63	C63			
T50-B001-HA80	HSK A80 clamping device		100		A80				
T50-B001-HA100	HSK A100 clamping device	179	100	97	A100				
T50-B001-HA100-R	HSK A100 clamping device w/Rotor	179	100	97	A100				
T50-B001-HA125	HSK A125 clamping device				A125				
T50-B001-HA125-R	HSK A125 clamping device w/Rotor				A125				
T50-B001-HA160-R	HSK A160 clamping device w/Rotor				A160				
T50-B001-HE25	HSK E25 clamping device		100		E25				
T50-B001-HE32	HSK E32 clamping device	132	100	74	E32	A32		F32	C32
T50-B001-HE40	HSK E40 clamping device	136	100	74	E40	A40		F40	C40
T50-B001-HE50	HSK E50 clamping device		100		E50	A50	B50	F50	C50
T50-B001-HE63	HSK E63 clamping device	142	100	91	E63	A63	B63	F63	C63
T50-B001-KM32	KM 32 clamping device	132	100	74	KM32	KZ32			
T50-B001-KM40	KM 40 clamping device	136	100	74	KM40	KZ40			
T50-B001-KM50	KM 50 clamping device		100		KM50	KZ50			
T50-B001-KM63	KM 63 clamping device	142	100	91	KM63	KZ63			
T50-B001-PSC32	PSC C32 clamping device	132	100	74	PSC C32				
T50-B001-PSC40	PSC C40 clamping device	136	100	74	PSC C40				
T50-B001-PSC50	PSC C50 clamping device		100		PSC C50				
T50-B001-PSC63	PSC C63 clamping device	142	100	91	PSC C63				
T50-B001-PSC80	PSC C80 clamping device				PSC C80				

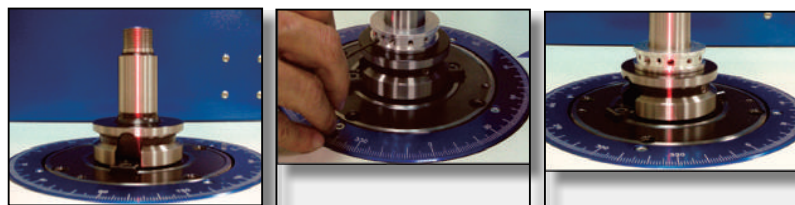




Toolholder balancing ring - Sample Adjusting Precess

				Date	2007/3/1
Toolholder	Dynamic balancing w/o tool	Imbalance (g-mm)	Weight (g)	Weight-removed position (degree)	Drilling depth (3mm drill)
BT40 ER20-060	G2.5, 25000rpm	5.7	0.21	103.2	4.8

Imbalance adjusting process



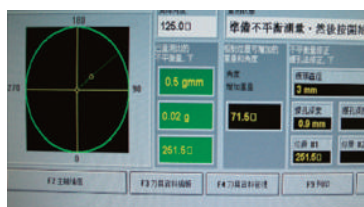
Before adjusting

Attach balancing ring and set screws
Patent pending

After adjusting



Before adjusting



After adjusting

Toolholder Imbalance : 5.7 g-mm

Balancing ring designed at 2.1 g-mm imbalance
Place the ring on the tool at the weight-Removed position

Out of balance(Imbalance) from three M3 set-screw:
1.1 g-mm* 3 pcs = 3.3 g-mm. Add the screws into the ring at the weight-add position

Toolholder imbalance after balancing with the
PrimeTool Balance Ring:
 $5.7-(2.1)-(3.3)=0.3$ g-mm

