

CONTENT

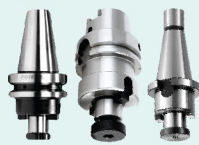
03 TOOL HOLDER

ER-COLLET CHUCKS



PG 92-99

FACEMILL HOLDERS



PG 100-105

ENDMILL / SIDELOCK HOLDERS



PG 106-112

POWER MILLING CHUCKS



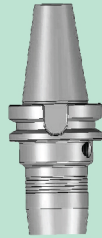
PG 113-115

MORSE TAPER HOLDER



PG 116-119

HYDRAULIC CHUCKS



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SK (SUPER) COLLET CHUCKS



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SHRINK FIT HOLDERS



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PG 139-140

TAPPING HOLDERS / ATTACHMENTS - QUICK CHANGE



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ER STRAIGHT SHANK HOLDERS



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ER DOUBLE ENDED STRAIGHT SHANKS



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TOOL HOLDER BLANKS / BORING BAR BLANKS



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04 OTHER MACHINE TOOL ACCESSORIES

**PULL STUDS /
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**TOOL LOCKING
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03 CONTENTS

- BT, SK, CAT, HSK, ISO TAPERS & STRAIGHT SHANK
- ER COLLET CHUCKS
- FACEMILL HOLDERS
- ENDMILL / SIDELOCK HOLDERS
- POWER MILLING CHUCKS
- HYDRAULIC CHUCKS
- SK (SUPER) COLLET CHUCKS
- OZ/EOC COLLET CHUCKS
- MT HOLDERS
- SHRINK FIT HOLDERS
- APUDRILL CHUCKS /
INTEGRAL SHANK
- TAPPING HOLDERS /
ATTACHMENTS – QUICK CHANGE
- ER STRAIGHT SHANK HOLDERS
- ER DOUBLE ENDED STRAIGHT
SHANKS
- TOOL HOLDER BLANKS /
BORING BAR BLANKS





TOOL HOLDERS

-INNOVATION

-SOLUTIONS

-ASPIRATION

ER-COLLET CHUCK



FEATURES:

01

Accuracy: 5 Micron or 0.0002" TIR or better

07

Hardness: HRC 56-58

02

AT3 Class Taper Accuracy

08

Carbon depth: 0.8mm \pm 0.2mm

03

Through-tool coolant feature is standard

09

Surface Roughness: Ra<0.005mm

04

H5 bore tolerance for optimum surface contact with cutting tool

10

Crafted from case hardened alloy steel

05

ER Collet Nuts are Power Coated for increased clamping force due to reduced friction

11

Balanced G6.3 @15000RPM

06

High precision pilot holes

12

Balanced G2.5 @25000 RPM

BT MAS 403

ER COLLET CHUCK

BT TAPER - MAS-403

PART NUMBER	TAPER	NUT DIA D	GAGE DIA L	COLLET TYPE	COLLET CLAMPING RANGE	D1
BT30-ER16-70	BT-30	28	70	ER16	0.5 - 10	M12
BT30-ER20-70	BT-30	35	70	ER20	1.0 - 12	M12
BT30-ER25-70	BT-30	42	70	ER25	1.0 - 16	M12
BT30-ER32-70	BT-30	50	70	ER32	2.0 - 20	M12
BT30-ER32-100	BT-30	50	100	ER32	2.0 - 20	M12
BT30-ER40-80	BT-30	63	80	ER40	2.0 - 26	M12
BT40-ER16-70	BT-40	32	70	ER16	0.5 - 10	M16
BT40-ER16-100	BT-40	32	100	ER16	0.5 - 10	M16
BT40-ER20-70	BT-40	35	70	ER20	1.0 - 12	M16
BT40-ER20-100	BT-40	35	100	ER20	1.0 - 12	M16
BT40-ER20-150	BT-40	35	150	ER20	1.0 - 12	M16
BT40-ER25-70	BT-40	42	70	ER25	1.0 - 16	M16
BT40-ER25-100	BT-40	42	100	ER25	1.0 - 16	M16
BT40-ER25-150	BT-40	42	150	ER25	1.0 - 16	M16
BT40-ER32-70	BT-40	50	70	ER32	2.0 - 20	M16
BT40-ER32-100	BT-40	50	100	ER32	2.0 - 20	M16
BT40-ER32-150	BT-40	50	150	ER32	2.0 - 20	M16
BT40-ER32-200	BT-40	50	200	ER32	2.0 - 20	M16
BT40-ER40-80	BT-40	63	80	ER40	2.0 - 26	M16
BT40-ER40-100	BT-40	63	100	ER40	2.0 - 26	M16
BT40-ER40-150	BT-40	63	150	ER40	2.0 - 26	M16
BT50-ER16-70	BT-50	28	70	ER16	0.5 - 10	M24
BT50-ER20-70	BT-50	35	70	ER20	1.0 - 12	M24
BT50-ER20-100	BT-50	35	100	ER20	1.0 - 12	M24
BT50-ER25-70	BT-50	42	70	ER25	1.0 - 16	M24
BT50-ER25-100	BT-50	42	100	ER25	1.0 - 16	M24
BT50-ER32-70	BT-50	50	70	ER32	2.0 - 20	M24
BT50-ER32-100	BT-50	50	100	ER32	2.0 - 20	M24
BT50-ER32-150	BT-50	50	150	ER32	2.0 - 20	M24
BT50-ER32-200	BT-50	50	200	ER32	2.0 - 20	M24
BT50-ER40-80	BT-50	63	80	ER40	2.0 - 26	M24
BT50-ER40-100	BT-50	63	100	ER40	2.0 - 26	M24
BT50-ER40-150	BT-50	63	150	ER40	2.0 - 26	M24
BT50-ER40-200	BT-50	63	200	ER40	2.0 - 26	M24



SK DIN 69871 TAPER ER COLLET CHUCK

SK DIN 69871 TAPER

PART NUMBER	TAPER	NUT DIA D	GAGE DIA L	COLLET TYPE	COLLET CLAMPING RANGE	D1
SK40-ER16-70	SK-40	32	70	ER16	0.5 - 10	M16
SK40-ER16-100	SK-40	32	100	ER16	0.5 - 10	M16
SK40-ER20-70	SK-40	35	70	ER20	1.0 - 12	M16
SK40-ER20-100	SK-40	35	100	ER20	1.0 - 12	M16
SK40-ER20-150	SK-40	35	150	ER20	1.0 - 12	M16
SK40-ER25-70	SK-40	42	70	ER25	1.0 - 16	M16
SK40-ER25-100	SK-40	42	100	ER25	1.0 - 16	M16
SK40-ER25-150	SK-40	42	150	ER25	1.0 - 16	M16
SK40-ER32-70	SK-40	50	70	ER32	2.0 - 20	M16
SK40-ER32-100	SK-40	50	100	ER32	2.0 - 20	M16
SK40-ER32-150	SK-40	50	150	ER32	2.0 - 20	M16
SK40-ER32-200	SK-40	50	200	ER32	2.0 - 20	M16
SK40-ER40-80	SK-40	63	80	ER40	2.0 - 26	M16
SK40-ER40-100	SK-40	63	100	ER40	2.0 - 26	M16
SK40-ER40-150	SK-40	63	150	ER40	2.0 - 26	M16
SK50-ER16-70	SK-50	28	70	ER16	0.5 - 10	M24
SK50-ER20-70	SK-50	35	70	ER20	1.0 - 12	M24
SK50-ER20-100	SK-50	35	100	ER20	1.0 - 12	M24
SK50-ER25-70	SK-50	42	70	ER25	1.0 - 16	M24
SK50-ER25-100	SK-50	42	100	ER25	1.0 - 16	M24
SK50-ER32-70	SK-50	50	70	ER32	2.0 - 20	M24
SK50-ER32-100	SK-50	50	100	ER32	2.0 - 20	M24
SK50-ER32-150	SK-50	50	150	ER32	2.0 - 20	M24
SK50-ER32-200	SK-50	50	200	ER32	2.0 - 20	M24
SK50-ER40-80	SK-50	63	80	ER40	2.0 - 26	M24
SK50-ER40-100	SK-50	63	100	ER40	2.0 - 26	M24
SK50-ER40-150	SK-50	63	150	ER40	2.0 - 26	M24
SK50-ER40-200	SK-50	63	200	ER40	2.0 - 26	M24



CAT (ANSI B 5.50) TAPER ER COLLET CHUCK

CAT (ANSI B 5.50) TAPER

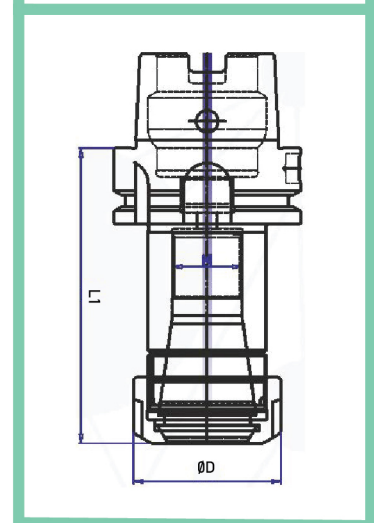
ITEM NUMBER	SUITABLE FOR COLLET	COLLET CLAMPING CAPACITY	L	D ₁	NUT DIA
CAT40 ER16-2.76"	ER16	0.0156"-0.375"	2.76"	5/8"-11	32
CAT40 ER16-4"	ER16	0.0156"-0.375"	4"	5/8"-11	32
CAT40 ER16-6"	ER16	0.0156"-0.375"	6"	5/8"-11	32
CAT40 ER20-2.76"	ER20	0.0625"-0.5"	2.76"	5/8"-11	34
CAT40 ER20-4"	ER20	0.0625"-0.5"	4"	5/8"-11	34
CAT40 ER20-6"	ER20	0.0625"-0.5"	6"	5/8"-11	34
CAT40 ER25-2.76"	ER25	0.0625"-0.625"	2.76"	5/8"-11	42
CAT40 ER25-4"	ER25	0.0625"-0.625"	4"	5/8"-11	42
CAT40 ER25-6"	ER25	0.0625"-0.625"	6"	5/8"-11	42
CAT40ER32-2.76"	ER32	0.125"-0.75"	2.76"	5/8"-11	50
CAT40 ER32-4"	ER32	0.125"-0.75"	4"	5/8"-11	50
CAT40 ER32-6"	ER32	0.125"-0.75"	6"	5/8"-11	50
CAT40 ER32-8"	ER32	0.125"-0.75"	8"	5/8"-11	50
CAT40 ER40-2.76"	ER40	0.125"-1.00"	2.76"	5/8"-11	63
CAT40 ER40-4"	ER40	0.125"-1.00"	4"	5/8"-11	63
CAT40ER40-6"	ER40	0.125"-1.00"	6"	5/8"-11	63
CAT50 ER16-2.76"	ER16	0.0156"-0.375"	2.76"	1"-8	32
CAT50 ER16-4"	ER16	0.0156"-0.375"	4"	1"-8	32
CAT50 ER16-6"	ER16	0.0156"-0.375"	6"	1"-8	32
CAT50 ER20-2.76"	ER20	0.0625"-0.5"	2.76"	1"-8	34
CAT50 ER20-4"	ER20	0.0625"-0.5"	4"	1"-8	34
CA550 ER20-6"	ER20	0.0625"-0.5"	6"	1"-8	34
CAT50 ER25-2.76"	ER25	0.0625"-0.625"	2.76"	1"-8	42
CAT50 ER25-4"	ER25	0.0625"-0.625"	4"	1"-8	42
CAT50 ER25-6"	ER25	0.0625"-0.625"	6"	1"-8	42
CAT50 ER32-2.76"	ER32	0.125"-0.75"	2.76"	1"-8	50
CAT50 ER32-4"	ER32	0.125"-0.75"	4"	1"-8	50
CAT50ER32-6"	ER32	0.125"-0.75"	6"	1"-8	50
CAT50 ER32-8"	ER32	0.125"-0.75"	8"	1"-8	50
CAT50 ER40-2.76"	ER40	0.125"-1.00"	2.76"	1"-8	63
CAT50 ER40-4"	ER40	0.125"-1.00"	4"	1"-8	63
CAT50ER40-6"	ER40	0.125"-1.00"	6"	1"-8	63
CAT50 ER50 100	ER50	0.25"-1.25"	100	1"-8	78
CAT50 ER50 160	ERSO	0.25"-1.25"	160	1"-8	78



HSK-A DIN69893-1 ER COLLET CHUCK

HSK-A DIN69893-1

ITEM NUMBER	SUITABLE FOR COLLET	CLAMPING CAPACITY	L1	M	NUT DIA. D	NUT TYPE
HSK-A50 ER16 060	ER16	0.5 -10	60	M10x1P	28	UM/ER16
HSK-A50 ER16 100	ER16	0.5 -10	100	M10x1P	34	UM/ER16
HSK-A50 ER20 100	ER20	1.0 -13	100	M10x1P	34	UM/ER20
HSK-A50 ER25 080	ER25	1.0 -16	80	M18x1P	42	UM/ER25
HSK-A50 ER25 100	ER25	1.0 -16	100	M18x1P	42	UM/ER25
HSK-A50 ER32 080	ER32	2.0-20	80	M22x1.5P	50	UM/ER32
HSK-A50 ER32 100	ER32	2.0-20	100	M22x1.5P	50	UM/ER32
HSK-A50 ER40 080	ER40	3.0-26	80	M30X1.5P	63	UM/ER40
HSK-A63ER16 100	ER16	0.5-10	100	M10x1P	28	UM/ER16
HSK-A63 ER16 160	ER16	0.5 -10	160	M10x1P	28	UM/ER16
HSK-A63 ER20 100	ER20	1.0 -13	100	M10x1P	34	UM/ER20
HSK-A63 ER20 160	ER20	1.0 -13	160	M10x1P	34	UM/ER20
HSK-A63 ER25 100	ER25	1.0 -16	100	M18x1P	42	UM/ER25
HSK-A63 ER25 160	ER25	1.0 -16	160	M18x1P	42	UM/ER25
HSK-A63 ER32 100	ER32	2.0 -20	100	M22x1.5P	50	UM/ER32
HSK-A63 ER32 160	ER32	2.0 • 20	160	M22x1.5P	50	UM/ER32
HSK-A63 ER40 120	ER40	3.0 -26	120	M30X1.5P	63	UM/ER40
HSK-A63 ER40 160	ER40	3.0-26	160	M30X1.5P	63	UM/ER40
HSK-A100 ER25 100	ER25	1.0 -16	100	M18x1P	42	UM/ER25
HSK-A100 ER25 160	ER25	1.0 -16	160	M18x1P	42	UM/ER25
HSK-A100 ER32 100	ER32	20-20	100	M22x1.5P	50	UM/ER32
HSK-A100 ER32 160	ER32	20-20	160	M22x1.5P	50	UM/ER32
HSK-A100 ER40 120	ER40	3.0 -26	120	M30X1.5P	63	UM/ER40
HSK-A100 ER40 160	ER40	3.0 -26	160	M30X1.5P	63	UM/ER40



ISO DIN 2080 TAPER

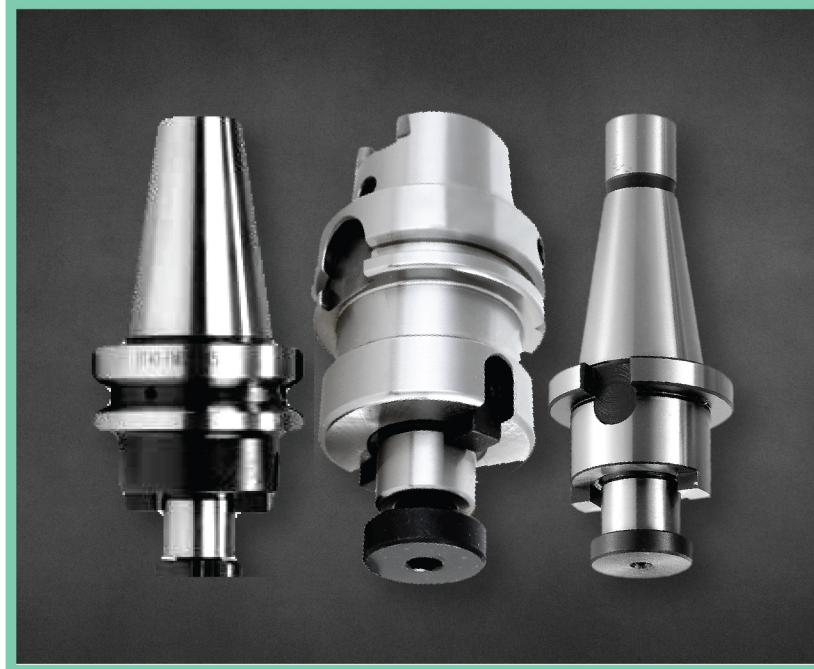
ER COLLET CHUCK

ISO DIN 2080 TAPER

ITEM NUMBER	SUITABLE FOR COLLET	COLLET CLAMPING CAPACITY	L	D1	D2	D
ISO 30 ER 16 050	ER16	0.5-10	50	M 12	M10 X 1P	28
ISO 30 ER 20 050	ER20	1.0-13	50	M 12	M10X 1P	34
ISO 30 ER 25 050	ER25	1.0-16	50	M 12	M18X 1P	42
ISO 30 ER 32 050	ER32	2.0-16	50	M 12	M22 X 1.5P	50
ISO 40 ER 16 060	ER 16	0.5-10	60	M 16	M10X 1P	28
ISO 40 ER 20 060	ER20	1.0-13	60	M 16	M10X 1P	34
ISO 40 ER 25 060	ER25	1.0-16	60	M 16	M18X 1P	42
ISO 40 ER 32 070	ER32	2.0-16	70	M 16	M22X 1.5P	50
ISO 40 ER 40 080	ER40	3.0-26	80	M 16	M30 X 1.5P	63
ISO 50 ER 25 065	ER25	1.0-16	65	M24	M18 X 1P	42
ISO 50 ER 32 070	ER32	2.0-16	70	M24	M22X 1.SP	50
ISO 50 ER 40 080	ER40	3.0-26	80	M24	M30 X 1.5P	63
ISO 50 ER 50 100	ER50	10.0-34	100	M24	M30X 1.5P	78



FACE-MILL HOLDERS / SHELL-MILL HOLDERS



FEATURES:

01

Balanced to
15000 RPM at G6.3
& 25000 RPM at G2.5

02

AT3 Class Taper
Accuracy

03

High precision
pilot holes

04

Hardness :
HRC 56-58

05

Carbon depth:
0.8mm \pm 0.2mm

06

Surface Roughness:
Ra<0.005mm

07

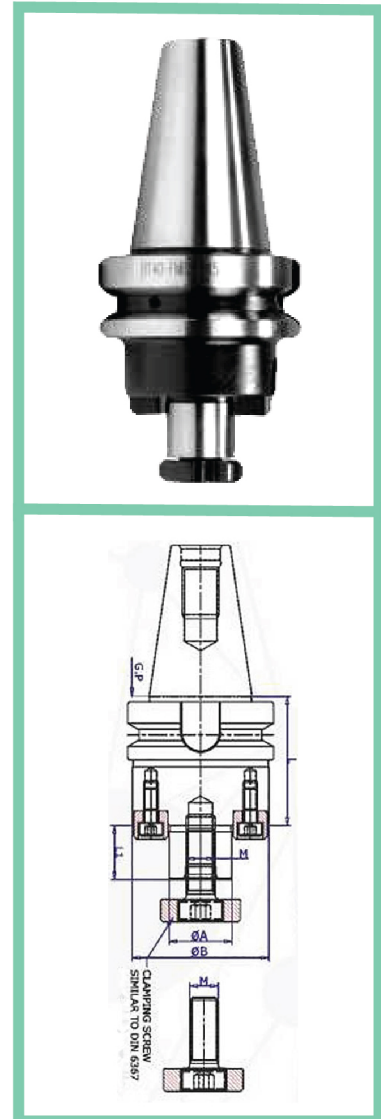
Crafted from case
hardened alloy steel

BT MAS 403

FACE MILL HOLDERS

BT TAPER - MAS-403 DIN6357

ITEM NUMBER	TOOL SHANK	A H6	L	L1	B	M
BT 30 FMH 16 040	BT30	16	40	17	38	M8
BT 30 FMH 22 040	BT30	22	40	19	48	M10
BT 30 FMH 27 040	BT30	27	40	21	58	M12
BT 40 FMH 16 045	BT 40	16	45	17	38	M8
BT 40 FMH 16 100	BT 40	16	100	17	38	M8
BT 40 FMH 16 120	BT 40	16	120	17	38	M8
BT 40 FMH 16 160	BT 40	16	160	17	38	M8
BT 40 FMH 22 045	BT 40	22	45	19	48	M10
BT 40 FMH 22 100	BT 40	22	100	19	48	M10
BT 40 FMH 22 150	BT 40	22	150	19	48	M10
BT 40 FMH 22 200	BT 40	22	200	19	48	M10
BT 40 FMH 22 250	BT 40	22	250	19	48	M10
BT 40 FMH 27 045	BT 40	27	45	21	58	M12
BT 40 FMH 27 100	BT40	27	100	21	58	M12
BT 40 FMH 27 120	BT 40	27	120	21	58	M12
BT 40 FMH 27 160	BT 40	27	160	21	58	M12
BT 40 FMH 32 050	BT 40	32	50	24	78	M16
BT 40 FMH 32 100	BT 40	32	100	24	78	M16
BT 40 FMH 32 120	BT 40	32	120	24	78	M16
BT 40 FMH 32 160	BT40	32	160	24	78	M16
BT 50 FMH 16 055	BT50	16	55	17	38	M8
BT 50 FMH 16 100	BT50	16	100	17	38	M8
BT 50 FMH 16 150	BT50	16	150	17	38	M8
BT 50 FMH 22 055	BT50	22	55	19	48	M10
BT 50 FMH 22 100	BT50	22	100	19	48	M10
BT 50 FMH 22 150	BT50	22	150	19	48	M10
BT 50 FMH 22 200	BT50	22	200	19	48	M10
BT 50 FMH 22 250	BT50	22	250	19	48	M10
BT 50 FMH 22 300	BT50	22	300	19	48	M10
BT 50 FMH 27 055	BT50	27	55	21	58	M12
BT 50 FMH 27 100	BT50	27	100	21	58	M12
BT 50 FMH 27 150	BT50	27	150	21	58	M12
BT 50 FMH 32 060	BT50	32	60	24	78	M16
BT 50 FMH 32 100	BT50	32	100	24	78	M16
BT 50 FMH 32 150	BT50	32	150	24	78	M16



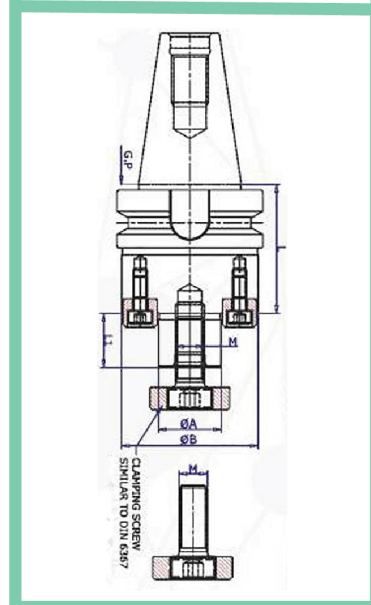
***INCH SIZES AVAILABLE

SK DIN 69871 TAPER

FACE-MILL HOLDERS

SK DIN 69871 TAPER

ITEM NUMBER	TOOL SHANK	A H6	L	L1	B	M
SK 30 FMH 16 040	SK30	16	40	17	38	M8
SK 30 FMH 22 040	SK30	22	40	19	48	M10
SK 30 FMH 27 040	SK30	27	40	21	58	M12
SK 40 FMH 16 045	SK 40	16	45	17	38	M8
SK 40 FMH 16 100	SK 40	16	100	17	38	M8
SK 40 FMH 16 120	SK 40	16	120	17	38	M8
SK 40 FMH 16 160	SK 40	16	160	17	38	M8
SK 40 FMH 22 045	SK 40	22	45	19	48	M10
SK 40 FMH 22 100	SK 40	22	100	19	48	M10
SK 40 FMH 22 150	SK 40	22	150	19	48	M10
SK 40 FMH 22 200	SK 40	22	200	19	48	M10
SK 40 FMH 22 250	SK 40	22	250	19	48	M10
SK 40 FMH 27 045	SK 40	27	45	21	58	M12
SK 40 FMH 27 100	SK40	27	100	21	58	M12
SK 40 FMH 27 120	SK 40	27	120	21	58	M12
SK 40 FMH 27 160	SK 40	27	160	21	58	M12
SK 40 FMH 32 050	SK 40	32	50	24	78	M16
SK 40 FMH 32 100	SK 40	32	100	24	78	M16
SK 40 FMH 32 120	SK 40	32	120	24	78	M16
SK 40 FMH 32 160	SK40	32	160	24	78	M16
SK 50 FMH 16 055	SK50	16	55	17	38	M8
SK 50 FMH 16 100	SK50	16	100	17	38	M8
SK 50 FMH 16 150	SK50	16	150	17	38	M8
SK 50 FMH 22 055	SK50	22	55	19	48	M10
SK 50 FMH 22 100	SK50	22	100	19	48	M10
SK 50 FMH 22 150	SK50	22	150	19	48	M10
SK 50 FMH 22 200	SK50	22	200	19	48	M10
SK 50 FMH 22 250	SK50	22	250	19	48	M10
SK 50 FMH 22 300	SK50	22	300	19	48	M10
SK 50 FMH 27 055	SK50	27	55	21	58	M12
SK 50 FMH 27 100	SK50	27	100	21	58	M12
SK 50 FMH 27 150	SK50	27	150	21	58	M12
SK 50 FMH 32 060	SK50	32	60	24	78	M16
SK 50 FMH 32 100	SK50	32	100	24	78	M16
SK 50 FMH 32 150	SK50	32	150	24	78	M16



CAT (ANSI B 5.50) TAPER FACE-MILL HOLDERS

CAT (ANSI B 5.50) TAPER

ITEM NUMBER	TOOL SHANK	A H6	B	L	L1	D1
CAT40-3/4"-13/4"	CAT40	3/4"	2.0"	1.75"	0.687"	5/8"-11
CAT40-3/4"-4"	CAT40	3/4"	2.0"	4"	0.687"	5/8"-11
CAT40-3/4"-6"	CAT40	3/4"	2.0"	6"	0.687"	5/8"-11
CAT40-1.0"-2"	CAT40	1.0"	2.375"	2"	0.687"	5/8"-11
CAT40-1.0"-4"	CAT40	1.0"	2.375"	4"	0.687"	5/8"-11
CAT40-1.0"-6"	CAT40	1.0"	2.375"	6"	0.687"	5/8"-11
CAT40-11/4"-2"	CAT40	11/4"	2.875"	2"	0.687"	5/8"-11
CAT40-11/4"-4"	CAT40	11/4"	2.875"	4"	0.687"	5/8"-11
CAT40-11/4"-6"	CAT40	11/4"	2.875"	6"	0.687"	5/8"-11
CAT40-11/2"-2"	CAT40	11/2"	3.75"	2"	0.938"	5/8"-11
CAT40-11/2"-4"	CAT40	11/2"	3.75"	4"	0.938"	5/8"-11
CAT40-11/2"-6"	CAT40	11/2"	3.75"	6"	0.938"	5/8"-11
CAT50-3/4"-13/4"	CAT50	3/4"	2.0"	1.75"	0.687"	1"-8
CAT50-3/4"-4"	CAT50	3/4"	2.0"	4"	0.687"	1"-8
CAT50-3/4"-6"	CAT50	3/4"	2.0"	6"	0.687"	1"-8
CAT50-1.0"-2"	CAT50	1.0"	2.375"	2"	0.687"	1"-8
CAT50-1.0"-4"	CAT50	1.0"	2.375"	4"	0.687"	1"-8
CAT50-1.0"-6"	CAT50	1.0"	2.375"	6"	0.687"	1"-8
CAT50-11/4"-2"	CAT50	11/4"	2.875"	2"	0.687"	1"-8
CAT50-11/4"-4"	CAT50	11/4"	2.875"	4"	0.687"	1"-8
CAT50-11/4"-6"	CAT50	11/4"	2.875"	6"	0.687"	1"-8
CAT50-11/2"-2"	CAT50	11/2"	3.75"	2"	0.938"	1"-8
CAT50-11/2"-4"	CAT50	11/2"	3.75"	4"	0.938"	1"-8
CAT50-11/2"-6"	CAT50	11/2"	3.75"	6"	0.938"	1"-8

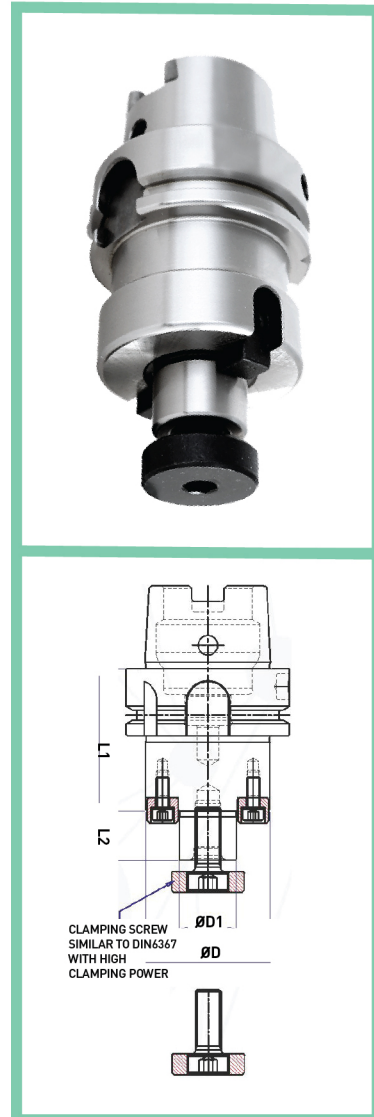


HSK-A DIN69893-1

FACE-MILL HOLDERS

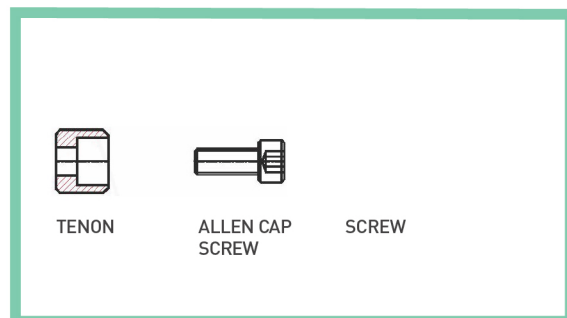
HSK-A DIN69893-1

ITEM NUMBER	D1	L1	D	L2
HSK-A50 FMH16 045	16	45	38	17
HSK-A50 FMH22 055	22	55	48	19
HSK-A50 FMH27 055	27	55	58	21
HSK-A50 FMH32 060	32	60	78	24
HSK-A63 FMH16 045	16	45	38	17
HSK-A63 FMH16 100	16	100	38	17
HSK-A63 FMH16 160	16	160	38	17
HSK-A63 FMH22 050	22	50	48	19
HSK-A63 FMH22 100	22	100	48	19
HSK-A63 FMH22 160	22	160	48	19
HSK-A63 FMH27 055	27	55	58	21
HSK-A63 FMH27 100	27	100	58	21
HSK-A63 FMH27 160	27	160	58	21
HSK-A63 FMH32 060	32	60	78	24
HSK-A63 FMH32 100	32	100	78	24
HSK-A63 FMH32 160	32	160	78	24
HSK-A63 FMH40 065	40	65	88	27
HSK-A63 FMH40 100	40	100	88	27
HSK-A63 FMH40 160	40	160	88	27
HSK-A100 FMH16 055	16	55	38	17
HSK-A100 FMH22 055	22	55	48	19
HSK-A100 FMH27 055	27	55	58	21
HSK-A100 FMH32 060	32	60	78	24
HSK-A100 FMH40 065	40	65	88	27



***INCH SIZES AVAILABLE

D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16XM8	8	M4
22	SCR22X M10	10	M5
27	SCR27 XM12	12	M5
32	SCR32XM16	14	M6
40	SCR40XM20	16	M6

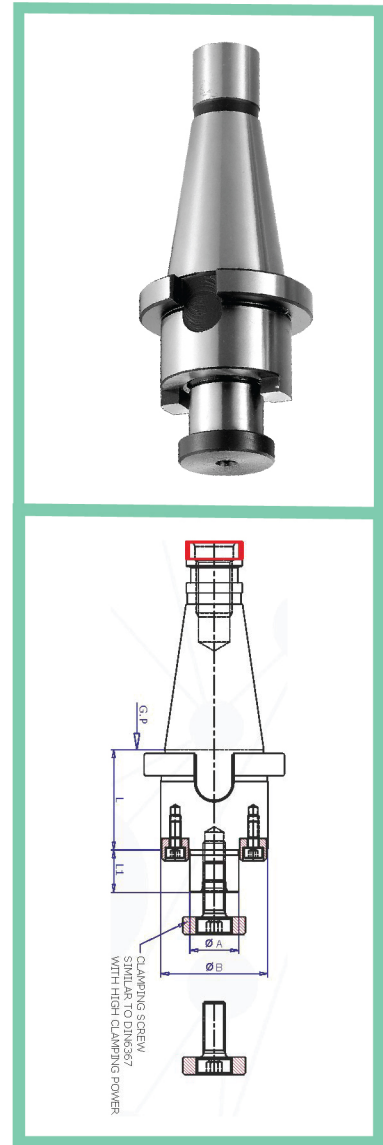


ISO DIN 2080 TAPER

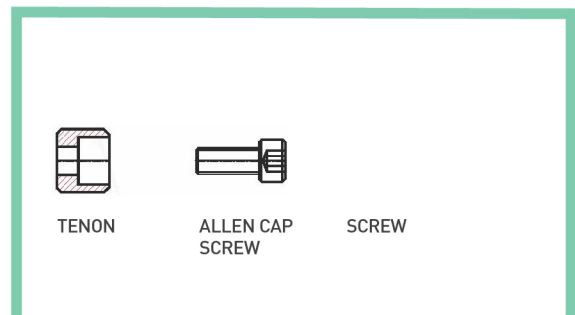
FACE-MILL HOLDERS

ISO DIN 2080 TAPER

ITEM NUMBER	ISO	A H6	L	L1	B
ISO 30 FMH 16 030	30	16	30	17	32
ISO 30 FMH 22 030	30	22	30	19	40
ISO 30 FMH 27 030	30	27	30	21	48
ISO 40 FMH 16 030	40	16	30	17	32
ISO 40 FMH 16 120	40	16	120	17	38
ISO 40 FMH 22 030	40	22	30	19	40
ISO 40 FMH 22 120	40	22	120	19	48
ISO 40 FMH 27 030	40	27	30	21	48
ISO 40 FMH 27 120	40	27	120	21	58
ISO 40 FMH 32 035	40	32	35	24	58
ISO 40 FMH 32120	40	32	120	24	78
ISO 40 FMH 40 035	40	40	35	27	70
ISO 50 FMH 16 040	50	16	40	17	32
ISO 50 FMH 16 150	50	16	150	17	38
ISO 50 FMH 22 040	50	22	40	19	40
ISO 50 FMH 22 150	50	22	150	19	48
ISO 50 FMH 27 040	50	27	40	21	48
ISO 50 FMH 27 150	50	27	150	21	58
ISO 50 FMH 32 045	50	32	45	24	58
ISO 50 FMH 32 150	50	32	150	24	78
ISO 50 FMH 40 045	50	40	45	27	70
ISO 50 FMH 40 150	50	40	150	27	82



D	SCREW	TENON	ALLEN CAP SCREW
16	SCR16XM8	8	M4
22	SCR22X M10	10	MS
27	SCR27 XM12	12	MS
32	SCR32XM16	14	M6
40	SCR40XM20	16	M6



SIDE-LOCK HOLDER / END MILL HOLDERS



FEATURES:

01

Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5

02

AT3 Class Taper Accuracy

03

H5 bore tolerance for optimum contact with cutting tool

04

High precision pilot holes

05

Hardness: HRC 56-58

06

Carbon depth: 0.8mm \pm 0.2mm

07

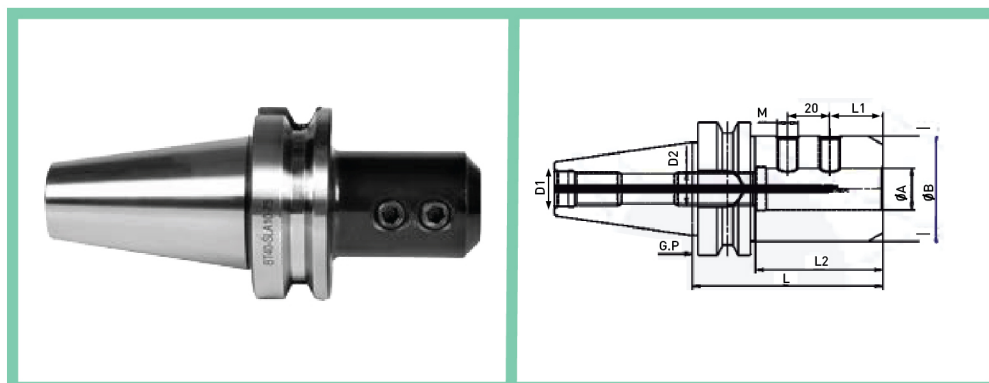
Surface Roughness:
Ra<0.005mm

08

Crafted from case hardened alloy steel

BT TAPER - MAS-403 - DIN6359

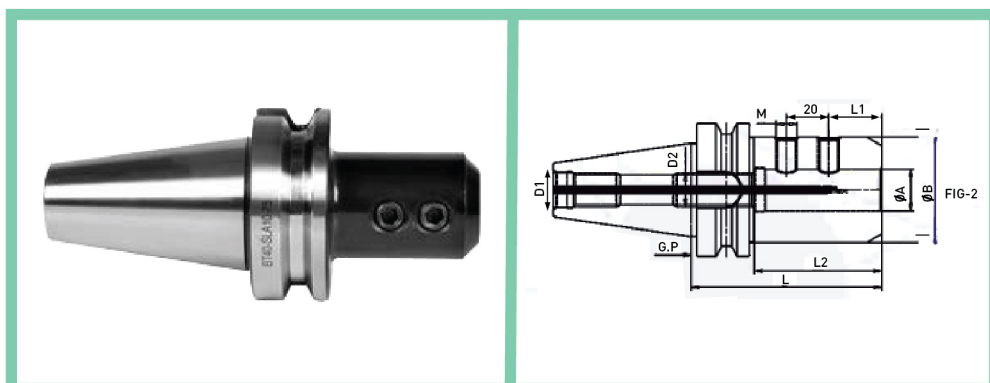
SIDE LOCK HOLDER / ENDMILL HOLDERS



ITEM NUMBER	TOOL SHANK	A H6	L	B	L1	L2	D1	D2	M
BT 30 SLA06 065	BT30	6	65	20	15	35	M 12	M5	M6
BT 30 SLA08 065	BT30	8	65	24	15	40	M 12	M6	M8
BT 30 SLA10 065	BT30	10	65	30	16	44	M 12	M8	M10
BT 30 SLA12 065	BT30	12	65	35	20	44	M 12	M10	M10
BT 30 SLA16 065	BT30	16	65	40	23	52	M 12	M12	M10
BT 30 SLA20 090	BT30	20	90	50	25	70	M 12	M12	M10
BT 30 SLA25 090	BT30	25	90	50	25	70	M 12	M12	M10
BT 40 SLA06 065	BT40	6	65	20	15	35	M 16	M5	M6
BT 40 SLA08 065	BT 40	8	65	24	15	40	M 16	M6	M8
BT 40 SLA10 065	BT 40	10	65	30	16	44	M 16	M8	M10
BT 40 SLA12 065	BT40	12	65	35	20	44	M 16	M10	M10
BT 40 SLA16 065	BT 40	16	65	40	23	52	M 16	M12	M10
BT 40 SLA20 090	BT40	20	90	50	25	70	M 16	M12	M10
BT 40 SLA25 090	BT 40	25	90	50	25	70	M 16	M12	M10
BT 40 SLA32 090	BT40	32	90	60	30	70	M 16	M12	M10
BT 40 SLA40 090	BT40	40	90	60	30	70	M 16	M12	M10
BT 50 SLA06 075	BT50	6	75	20	15	35	M24	M5	M6
BT 50 SLA08 075	BT50	8	75	24	15	40	M24	M6	M8
BT 50 SLA10 075	BT50	10	75	30	16	44	M24	M8	M10
BT 50 SLA12 075	BT50	12	75	35	20	44	M24	M10	M10
BT 50 SLA16 075	BT50	16	75	40	23	52	M24	M12	M10
BT 50 SLA20 105	BT50	20	105	50	25	70	M24	M12	M10
BT 50 SLA25 105	BT50	25	105	50	25	70	M24	M12	M10
BT 50 SLA32 105	BT50	32	105	60	30	70	M24	M12	M10
BT 50 SLA40 105	BT50	40	105	60	30	70	M24	M12	M10
BT 50 SLA40 150	BT50	40	150	60	30	70	M24	M12	M10
BT 50 SLA50 075	BT50	50	75	90	40	70	M24	M12	M12
BT 50 SLA50 105	BT50	50	105	90	40	70	M24	M12	M12
BT 50 SLA50 150	BT50	50	150	90	40	70"	M24	M12	M12

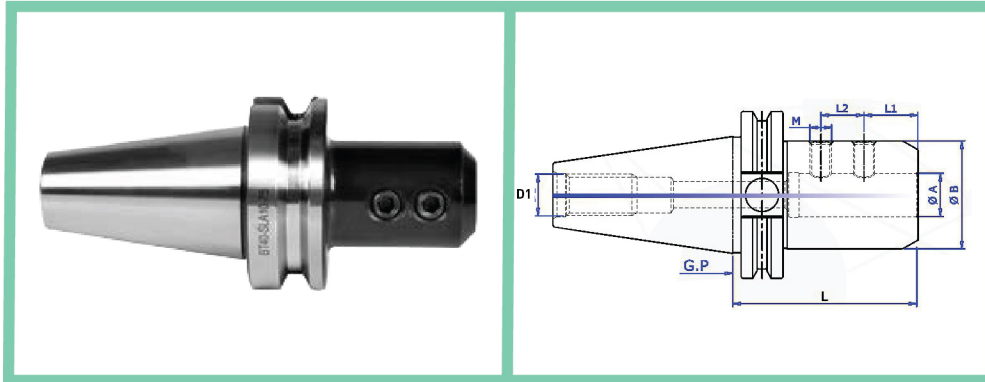
SK DIN 69871 TAPER

SIDE LOCK HOLDER / END MILL HOLDERS



ITEM NUMBER	TOOL SHANK	A H6	L	B	L1	L2	D1	D2	M
SK 30 SLA06 065	SK30	6	65	20	15	35	M 12	M5	M6
SK 30 SLA08 065	SK30	8	65	24	15	40	M 12	M6	M8
SK 30 SLA10 065	SK30	10	65	30	16	44	M 12	M8	M10
SK 30 SLA12 065	SK30	12	65	35	20	44	M 12	M10	M10
SK 30 SLA16 065	SK30	16	65	40	23	52	M 12	M12	M10
SK 30 SLA20 090	SK30	20	90	50	25	70	M 12	M12	M10
SK 30 SLA25 090	SK30	25	90	50	25	70	M 12	M12	M10
SK 40 SLA06 065	SK40	6	65	20	15	35	M 16	M5	M6
SK 40 SLA08 065	SK 40	8	65	24	15	40	M 16	M6	M8
SK 40 SLA10 065	SK 40	10	65	30	16	44	M 16	M8	M10
SK 40 SLA12 065	SK40	12	65	35	20	44	M 16	M10	M10
SK 40 SLA16 065	SK 40	16	65	40	23	52	M 16	M12	M10
SK 40 SLA20 090	SK40	20	90	50	25	70	M 16	M12	M10
SK 40 SLA25 090	SK 40	25	90	50	25	70	M 16	M12	M10
SK 40 SLA32 090	SK40	32	90	60	30	70	M 16	M12	M10
SK 40 SLA40 090	SK40	40	90	60	30	70	M 16	M12	M10
SK 50 SLA06 075	SK50	6	75	20	15	35	M24	M5	M6
SK 50 SLA08 075	SK50	8	75	24	15	40	M24	M6	M8
SK 50 SLA10 075	SK50	10	75	30	16	44	M24	M8	M10
SK 50 SLA12 075	SK50	12	75	35	20	44	M24	M10	M10
SK 50 SLA16 075	SK50	16	75	40	23	52	M24	M12	M10
SK 50 SLA20 105	SK50	20	105	50	25	70	M24	M12	M10
SK 50 SLA25 105	SK50	25	105	50	25	70	M24	M12	M10
SK 50 SLA32 105	SK50	32	105	60	30	70	M24	M12	M10
SK 50 SLA40 105	SK50	40	105	60	30	70	M24	M12	M10
SK 50 SLA40 150	SK50	40	150	60	30	70	M24	M12	M10
SK 50 SLA50 075	SK50	50	75	90	40	70	M24	M12	M12
SK 50 SLA50 105	SK50	50	105	90	40	70	M24	M12	M12
SK 50 SLA50 150	SK50	50	150	90	40	70	M24	M12	M12

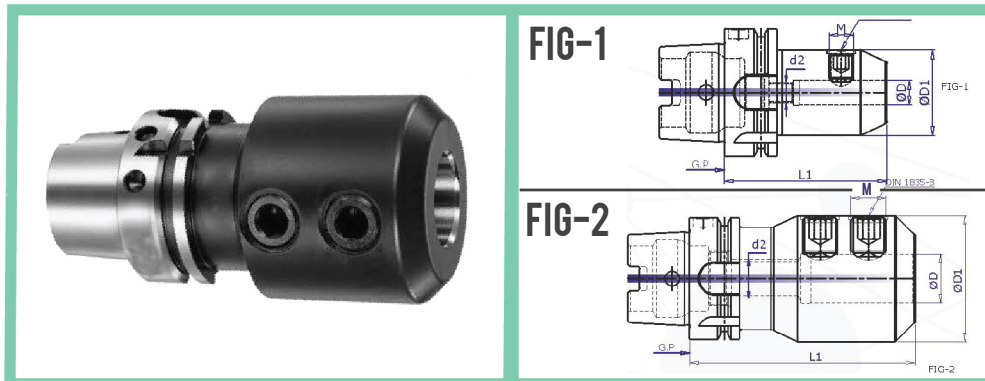
CAT (ANSI B 5.50) TAPER SIDELOCK HOLDER / END MILL HOLDERS



ITEM NUMBER	A H5	L	B	L1	L2	D1	M
CAT40-1/8"-2 3/8"	1/8"	2.375"	0.69"	0.370"	---	5/8"-11	6-32UNCX1/4"
CAT40-3/16"-2 1/2"	3/16"	2.50"	0.69"	0.562"	---	5/8"-11	8-32UNCX1/4"
CAT40-1/4"-2 1/2"	1/4"	2.50"	0.78"	0.630"	---	5/8"-11	1/4"-28UNFX1/4"
CAT40-5/16"-2 1/2"	5/16"	2.50"	0.88"	0.630"	---	5/8"-11	5/16"-24UNFX1/4"
CAT40-3/8"-2 1/2"	3/8"	2.50"	1.0"	0.750"	---	5/8"-11	3/8"-24UNFX5/16"
CAT40-7/16"-3.00"	7/16"	3.0"	1.25"	0.875"	---	5/8"-11	3/8"-24UNFX3/8"
CAT40-1/2"-3.00"	1/2"	3.0"	1.25"	0.875"	---	5/8"-11	7/16"-20UNFX3/8"
CAT40-5/8"-3.00"	5/8"	3.0"	1.50"	0.93711	---	5/8"-11	1/2"-20UNFX7/16"
CAT40-3/4"-3.00"	3/4"	3.0"	1.75"	1.00"	---	5/8"-11	5/8"-18UNFX1/2"
CAT40-7/8"-3 1/2"	7/8"	3.5"	1.88"	1.063"	0.875"	5/8"-11	5/8"-18UNFX1/2"
CAT40-1.0"-4.00"	1.0"	4.0"	2.0"	1.125"	1.00"	5/8"-11	3/4"-16UNFX1/2"
CAT40-1 1/4"-4.00"	1 1/4"	4.0"	2.5"	1.125"	1.00"	5/8"-11	3/4"-16UNFX1/2"
CAT40-1 1/2"-4 1/2"	1 1/2"	4.5"	2.5"	1.125"	1.00"	5/8"-11	3/4"-16UNFX1/2"
CAT50-1/8"-2 3/8"	1/8"	2.375"	0.69"	0.370"	---	1"-8	6-32UNCX1/4"
CAT50-3/16"-2 1/2"	3/16"	2.50"	0.69"	0.562"	---	1"-8	8-32UNCX1/4"
CAT50-1/4"-2 1/2"	1/4"	2.50"	0.78"	0.630"	---	1"-8	1/4"-28UNFX1/4"
CAT50-5/16"-2 1/2"	5/16"	2.50"	0.88"	0.630"	---	1"-8	5/16"-24UNFX1/4"
CAT50-3/8"-2 1/2"	3/8"	2.50"	1.0"	0.750"	---	1"-8	3/8"-24UNFX5/16"
CAT50-7/16"-3.00"	7/16"	3.0"	1.25"	0.875"	---	1"-8	3/8"-24UNFX3/8"
CAT50-1/2"-3.00"	1/2"	3.0"	1.25"	0.875"	---	1"-8	7/16"-20UNFX3/8"
CAT50-5/8"-3.00"	5/8"	3.0"	1.50"	0.937"	---	1"-8	1/2"-20UNFX7/16"
CAT50-3/4"-3.00"	3/4"	3.0"	1.75"	1.00"	---	1"-8	5/8"-18UNFX1/2"
CAT50-7/8"-4.00"	7/8"	4.0"	1.88"	1.063"	0.875"	1"-8	5/8"-18UNFX1/2"
CAT50-1.00"-4.00"	1.0"	4.0"	2.0"	1.125"	1.00"	1"-8	3/4"-16UNFX1/2"
CAT50-1 1/4"-4.00"	1 1/4"	4.0"	2.5"	1.125"	1.00"	1"-8	3/4"-16UNFX1/2"
CAT50-1 1/2"-4 1/2"	1 1/2"	4.5"	2.5"	1.125"	1.00"	1"-8	3/4"-16UNFX1/2"

HSK-A DIN69893-1

SIDE LOCK HOLDER / ENDMILL HOLDERS



ITEM NUMBER	D H5	L1	D1	M	D2	FIG
HSK-A50 WN06 065	6	65	25	M6	MS	1
HSK-A50 WN08 065	8	65	28	M8	M6	1
HSK-A50 WN10 065	10	65	35	M10	MS	1
HSK-A 50 WN12 080	12	80	42	M12	M10	1
HSK-A50 WN14 080	14	80	44	M12	M10	1
HSK-A50 WN16 080	16	80	48	M14	M12	1
HSK-A50 WN18 080	18	80	50	M14	M12	1
HSK-A50 WN20 080	20	80	52	M16	M16	1
HSK-A50 SLA25 100	25	100	50	M10X2P	M12	2
HSK-A63 WN06 065	6	65	25	M6	M5	1
HS K-A63 WN06 100	6	100	25	M6	M5	1
HSK-A63 WN06 160	6	160	25	M6	M5	1
HSK-A63 WN08 065	8	65	28	M8	M6	1
HSK-A63 WN08 100	8	100	28	M8	M6	1
HS K-A63 WN08 160	8	160	28	M8	M6	1
HSK-A63 WN10 065	10	65	35	M10	MS	1
HSK-A63 WN10 100	10	100	35	M10	MS	1
HSK-A63 WN10 160	10	160	35	M10	MS	1
HSK-A63 WN12 080	12	80	42	M12	M10	1
HSK-A63 WN12 100	12	100	42	M12	M10	1
HSK-A63 WN12 160	12	160	42	M12	M10	1
HSK-A63 WN14 080	14	80	44	M12	M10	1
HSK-A63 WN14 100	14	100	44	M12	M10	1
HSK-A63 WN14 160	14	160	44	M12	M10	1
HSK-A63 WN16 080	16	80	48	M14	M12	1
HSK-A63 WN16 100	16	100	48	M14	M12	1
HSK-A63 WN16 160	16	160	48	M14	M12	1
HSK-A63 WN18 080	18	80	50	M14	M12	1
HSK-A63 WN18100	18	100	50	M14	M12	1

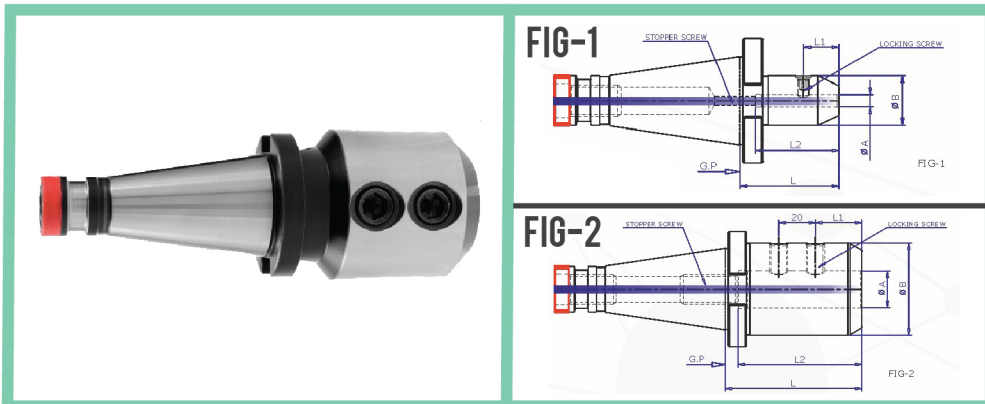
HSK-A DIN69893-1

SIDE LOCK HOLDER / END MILL HOLDERS

ITEM NUMBER	D H5	L1	D1	M	D2	FIG
HSK-A63 WN18 160	18	160	50	M14	M12	1
HSK-A63 WN20 080	20	80	52	M16	M16	1
HS K-A 63 WN20 100	20	100	52	M16	M16	1
HS K-A 63 WN20 160	20	160	52	M16	M16	1
HSK-A63 WN25110	25	110	65	M18X2P	M20	2
HSK-A63WN32110	32	110	72	M18X2P	M20	2
HSK-A63WN40125	40	125	80	M20X2P	M20	2
HSK-A100WN06 080	6	80	25	M6	M5	1
HSK-A100WN06 160	6	160	25	M6	M5	1
HSK-A100WN08 080	8	80	28	M8	M6	1
HSK-A100WN08160	8	160	28	M8	M6	1
HSK-A100WN10 080	10	80	35	M10	M8	1
HSK-A100WN10 160	10	160	35	M10	M8	1
HSK-A100WN12 100	12	100	42	M12	M10	1
HSK-A100WN12 160	12	160	42	M12	M10	1
HSK-A100WN14 100	14	100	44	M12	M10	1
HSK-A100WN14160	14	160	44	M12	M10	1
HSK-A100WN16100	16	100	48	M14	M12	1
HSK-A100WN16 160	16	160	48	M14	M12	1
HSK-A100WN18100	18	100	50	M14	M12	1
HSK-A100WN18160	18	160	50	M14	M12	1
HSK-A100WN20 100	20	100	52	M16	M16	1
HSK-A100WN20 160	20	160	52	M16	M16	1
HSK-A100WN25100	25	100	65	M18X2P	M20	2
HSK-A100WN25160	25	160	65	M18X2P	M20	2
HSK-A100WN32120	32	120	72	M20X2P	M20	2
HSK-A100WN32160	32	160	72	M20X2P	M20	2
HSK-A100WN40120	40	120	80	M20X2P	M20	2
HSK-A100WN50 130	50	130	100	M24X2P	M20	2

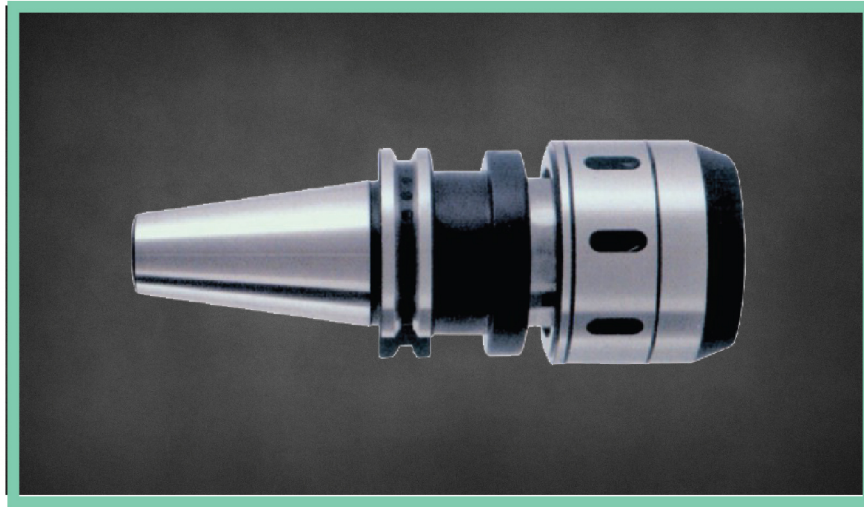
ISO DIN 2080 TAPER

SIDE LOCK HOLDER / END MILL HOLDERS



ITEM NUMBER	ISO	A H5	L	B	L1	L2	STOPPER SCREW	LOCKING SCREW SIZE	FIG
ISO 30 SLA06 065	30	6	65	20	15	40	MS	M6	1
ISO 30 SLA08 065	30	8	65	24	15	40	M6	MS	1
ISO 30 SLA10 065	30	10	65	30	16	44	MS	M 10	1
ISO 30 SLA12 065	30	12	65	35	20	44	M 10	M 10	1
ISO 30 SLA16 065	30	16	65	40	23	52	M 12	M 10	1
ISO 30 SLA20 090	30	20	90	50	25	70	M 16	M 10	2
ISO 30 SLA25 090	30	25	90	50	25	70	M20	M 10	2
ISO 40 SLA06 065	40	6	65	20	15	40	MS	M6	1
ISO 40 SLA08 065	40	8	65	24	15	40	M6	MS	1
ISO 40 SLA10 065	40	10	65	30	16	44	MS	M 10	1
ISO 40 SLA12 065	40	12	65	35	20	44	M 10	M 10	1
ISO 40 SLA16 065	40	16	65	40	23	52	M 12	M 10	1
ISO 40 SLA20 090	40	20	90	50	25	70	M 16	M 10	2
ISO 40 SLA25 090	40	25	90	50	25	70	M20	M 10	2
ISO 40 SLA32 090	40	32	90	60	30	70	M20	M 10	2
ISO 40 SLA40 090	40	40	90	60	30	70	M20	M 10	2
ISO 50 SLA06 075	50	6	75	20	15	40	MS	M6	1
ISO 50 SLA08 075	50	8	75	24	15	40	M6	MS	1
ISO 50 SLA10 075	50	10	75	30	16	44	MS	M 10	1
ISO 50 SLA12 075	50	12	75	35	20	44	M 10	M 10	1
ISO 50 SLA16 075	50	16	75	40	23	52	M 12	M 10	1
ISO 50 SLA20 105	50	20	105	50	25	70	M 16	M 10	2
ISO 50 SLA25 105	50	25	105	50	25	70	M20	M 10	2
ISO 50 SLA32 105	50	32	105	60	30	70	M20	M 10	2
ISO 50 SLA40 105	50	40	105	60	30	70	M20	M 10	2

POWER MILLING CHUCKS



FEATURES:

01

Balanced to 15000 RPM

06

Carbon depth: 0.8mm \pm 0.2mm

02

AT3 Class Taper Accuracy

07

Surface Roughness:
Ra<0.005mm

03

High precision pilot holes

08

Crafted from case hardened
alloy steel

04

Hardness: HRC 56-58

09

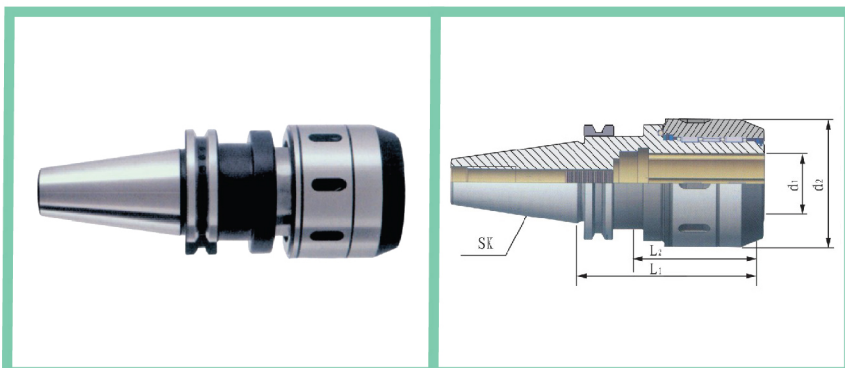
Enough thickness of clamp-
ing part prevents chattering
and ensures durability

05

H5 bore tolerance for
optimum contact with
cutting tool

BT TAPER – MAS-403

POWER MILLING CHUCK

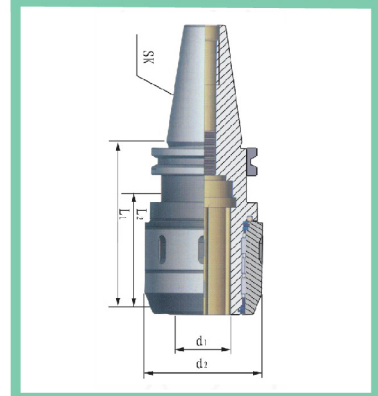


ITEM NUMBER	TAPER	d_1	L_1
BT30-MC20-75	BT30	20	75
BT30-MC20-90	BT30	20	90
BT40-MC20-80	BT40	20	80
BT40-MC20-100	BT40	20	100
BT40-MC20-135	BT40	20	135
BT40-MC32-90	BT40	32	90
BT40-MC32-105	BT40	32	105
BT40-MC32-135	BT40	32	135
BT50-MC20-105	BT50	20	105
BT50-MC20-150	BT50	20	150
BT50-MC32-110	BT50	32	110
BT50-MC32-135	BT50	32	135
BT50-MC32-165	BT50	32	165
BT50-MC32-200	BT50	32	200
BT50-MC42-110	BT50	42	110
BT50-MC42-130	BT50	42	130
BT50-MC42-165	BT50	42	165

SK DIN 69871 TAPER / POWER MILLING CHUCK

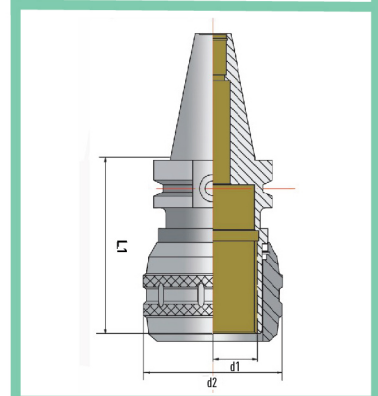
SK DIN 69871 TAPER

ITEM NUMBER	TAPER	d ₁	L ₁
SK30-MC20-75	SK30	20	75
SK30-MC20-90	SK30	20	90
SK40-MC20-80	SK40	20	80
SK40-MC20-100	SK40	20	100
SK40-MC20-135	SK40	20	135
SK40-MC32-90	SK40	32	90
SK40-MC32-105	SK40	32	105
SK40-MC32-135	SK40	32	135
SK50-MC20-105	SK50	20	105
SK50-MC20-150	SK50	20	150
SK50-MC32-110	SK50	32	110
SK50-MC32-135	SK50	32	135
SK50-MC32-165	SK50	32	165
SK50-MC32-200	SK50	32	200
SK50-MC42-110	SK50	42	110
SK50-MC42-130	SK50	42	130
SK50-MC42-165	SK50	42	165



CAT (ANSI B 5.50) TAPER

ITEM NUMBER	TAPER	d ₁	L ₁	L ₂
CAT40 MC 3/4"-3.385"	CAT40	3/4"	2.17	3.39"
CAT40 MC 3/4"-4.13"	CAT40	3/4"	2.17	4.13"
CAT40-MC 1-1/4"-4.53"	CAT40	1.25"	2.87	4.53"
CAT50-MC 3/4"-4.13"	CAT50	3/4"	2.17	4.13"
CAT50 MC 1-1/4"-4.13"	CAT50	1.25"	2.87	4.13"



MORSE-TAPER HOLDER

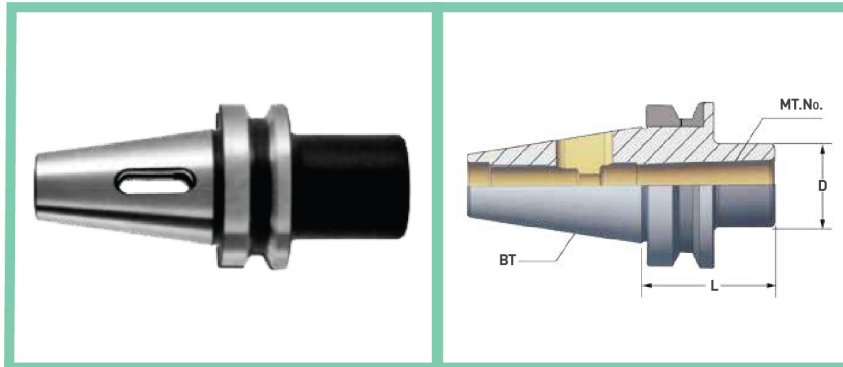


FEATURES:

- 01** Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5
- 02** AT3 Class Taper Accuracy
- 03** High precision pilot holes
- 04** H5 bore tolerance for optimum contact with cutting tool
- 05** Hardness : HRC 56-58
- 06** Carbon depth: 0.8mm +-0.2mm
- 07** Surface Roughness: Ra<0.005mm
- 08** Crafted from case hardened alloy steel

BT TAPER – MAS-403 – DIN228

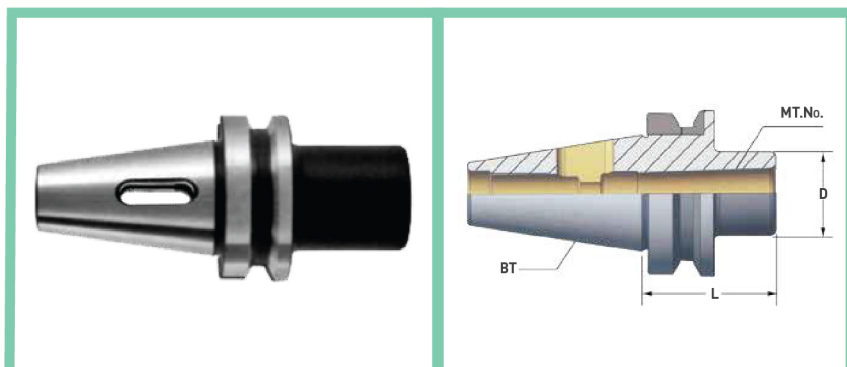
MORSE TAPER HOLDER



ITEM NUMBER	TOOL SHANK	MT.NO.	L	D
BT 30 MTA01 050	BT30	MT-1	50	25
BT30MTA01110	BT30	MT-1	110	25
BT 30 MTA02 060	BT30	MT-2	60	32
BT 30 MTA02 120	BT30	MT-2	120	32
BT 30 MTA03 075	BT30	MT-3	75	40
BT 30 MTA03 140	BT30	MT-3	140	40
BT 40 MTA01 050	BT40	MT-1	50	25
BT 40 MTA01 115	BT40	MT-1	115	25
BT 40 MTA02 050	BT40	MT-2	50	32
BT 40 MTA02 125	BT40	MT-2	125	32
BT 40 MTA03 070	BT40	MT-3	70	40
BT 40 MTA03140	BT40	MT-3	140	40
BT 40 MTA 04195	BT40	MT-4	195	48
BT 50 MTA01 050	BT50	MT-1	50	25
BT 50 MTA01 120	BT50	MT-1	120	25
BT 50 MTA02 060	BT50	MT-2	60	32
BT 50 MTA02 140	BT50	MT-2	140	32
BT 50 MTA03 065	BT50	MT-3	65	40
BT 50 MTA03 150	BT50	MT-3	150	40
BT 50 MTA04 095	BT50	MT-4	95	48
BT 50 MTA04180	BT50	MT-4	180	48
BT 50 MTA05 120	BT50	MT-5	120	63
BT 50 MTA05 220	BT50	MT-5	220	163

SK DIN 69871 TAPER

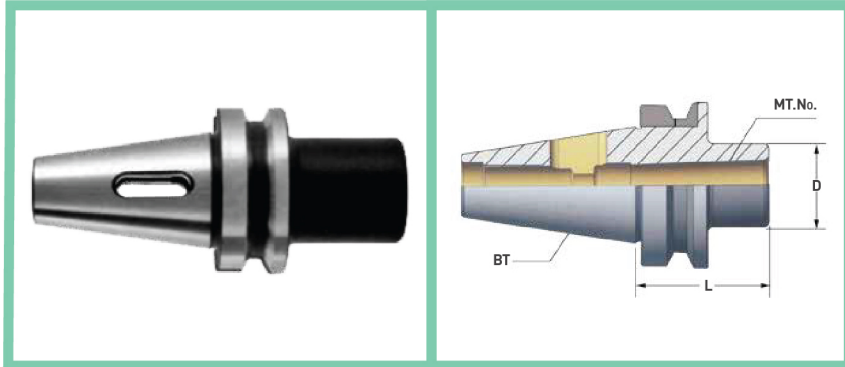
MORSE TAPER HOLDER



ITEM NUMBER	TOOL SHANK	MT.NO.	L	D
SK 30 MTA01 050	SK30	MT-1	50	25
SK30MTA01110	SK30	MT-1	110	25
SK 30 MTA02 060	SK30	MT-2	60	32
SK 30 MTA02 120	SK30	MT-2	120	32
SK 30 MTA03 075	SK30	MT-3	75	40
SK 30 MTA03 140	SK30	MT-3	140	40
SK 40 MTA01 050	SK40	MT-1	50	25
SK 40 MTA01 115	SK40	MT-1	115	25
SK 40 MTA02 050	SK40	MT-2	50	32
SK 40 MTA02 125	SK40	MT-2	125	32
SK 40 MTA03 070	SK40	MT-3	70	40
SK 40 MTA03140	SK40	MT-3	140	40
SK 40 MTA 04195	SK40	MT-4	195	48
SK 50 MTA01 050	SK50	MT-1	50	25
SK 50 MTA01 120	SK50	MT-1	120	25
SK 50 MTA02 060	SK50	MT-2	60	32
SK 50 MTA02 140	SK50	MT-2	140	32
SK 50 MTA03 065	SK50	MT-3	65	40
SK 50 MTA03 150	SK50	MT-3	150	40
SK 50 MTA04 095	SK50	MT-4	95	48
SK 50 MTA04180	SK50	MT-4	180	48
SK 50 MTA05 120	SK50	MT-5	120	63
SK 50 MTA05 220	SK50	MT-5	220	163

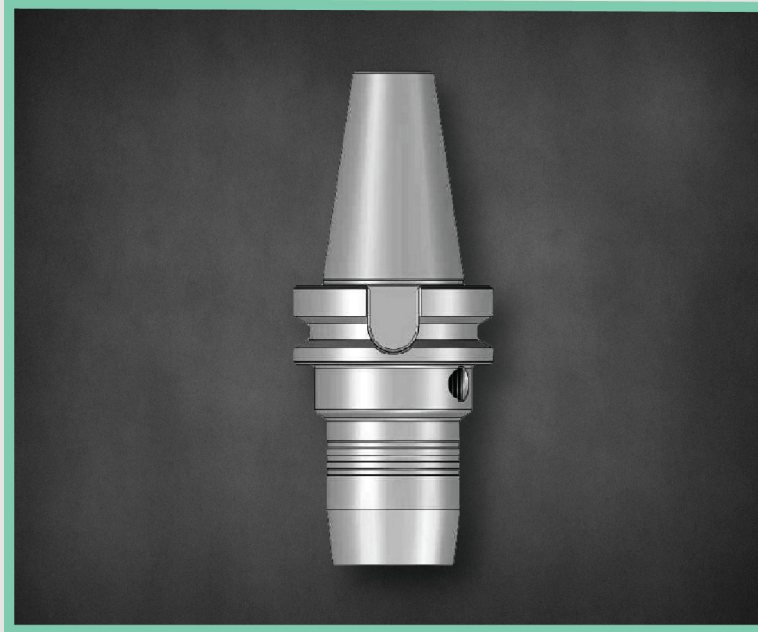
CAT (ANSI B5.50) TAPER

MORSE TAPER HOLDER



ITEM NUMBER	TOOL SHANK	MT.NO.	L	D	THREADS
CAT40MT01-2.00"	CAT40	MT-1	2.0"	1.0"	5/8"-11
CAT40MT02-2.00"	CAT40	MT-2	2.0"	1.25"	5/8"-11
CAT40MT03-2 3/4"	CAT40	MT-3	2.75"	1.574"	5/8"-11
CAT40MT04-3 3/4"	CAT40	MT-4	3.75"	1.889"	5/8"-11
CAT50 MT01-2.00"	CAT-50	MT-1	2.0"	1.0"	1"-8
CAT50MT02-2 3/8"	CAT-50	MT-2	2.375"	1.25"	1"-8
CAT50 MT03-2 1/2"	CAT-50	MT-3	2.5"	1.574"	1"-8
CAT50 MT04-3 3/4"	CAT-50	MT-4	3.75"	1.889"	1"-8
CAT50 MT05-4 3/4"	CAT-50	MT-5	4.75"	2.48"	1"-8

HYDRAULIC-CHUCK/HOLDERS



FEATURES:

01

Balanced 25000 RPM
at G2.5

02

Accuracy: 3 Micron or
0.0001" TIR or better

03

AT3 Class Taper
Accuracy

04

Through-tool coolant
feature is standard

05

High precision pilot
holes

06

Hardness :
HRC 56-58

07

Carbon depth:
0.8mm +/-0.2mm

08

Surface Roughness:
Ra<0.005mm

09

Crafted from case
hardened alloy steel

10

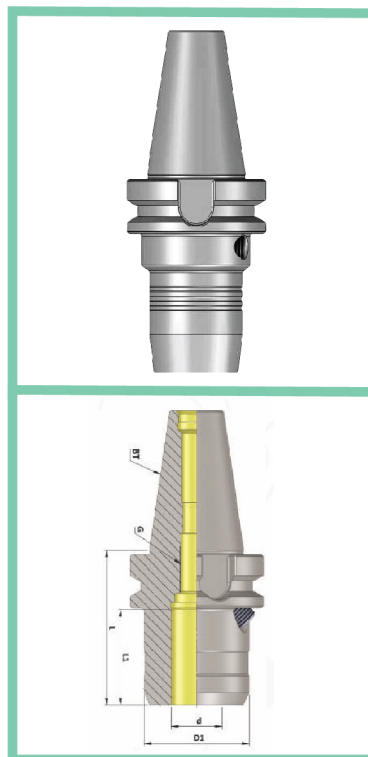
Best suitable for Drilling,
Reaming & Milling
operations

ISO-DIN 2080 TAPER

HYDRAULIC CHUCK / HOLDERS

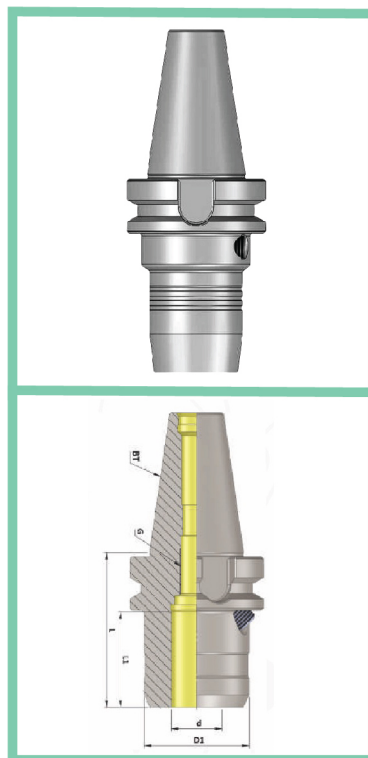
BT TAPER - MAS-403 - DIN ISO 7388-2

ITEM NUMBER	d	D1	G	L	L1
BT30 HYD12 069	12	42	M10	69	40
BT30 HYD20 090	20	so	M16	90	42
BT40 HYD12 058	12	42	M10	58	40
BT40 HYD20 72.5	20	50	M16	72.5	42
BT40 HYD32 90	32	72	M16	90	55
BT50 HYD12 069	12	42	M10	69	40
BT50 HYD20 083	20	50	M16	83	42
BT50 HYD32 090	32	72	M16	90	55
BT40 HYD6 090	6	42	M16	90	55
BT40 HYD8 090	8	42	M16	90	55
BT40 HYD10 090	10	42	M16	90	55
BT40 HYD14 090	14	42	M16	90	55
BT40 HYD16 090	16	42	M16	90	55
BT40 HYD18 090	18	50	M16	90	55
BT40 HYD25 090	25	65	M16	90	55



SK DIN 69871 TAPER DIN ISO 7388-1

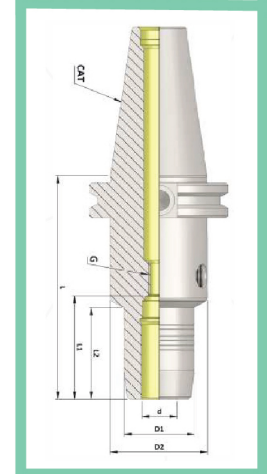
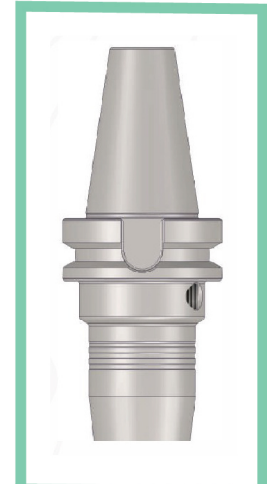
ITEM NUMBER	d	D1	G	L	L1
SK30 HYD12 069	12	42	M10	69	40
SK30 HYD20 090	20	so	M16	90	42
SK40 HYD12 058	12	42	M10	58	40
SK40 HYD20 72.5	20	50	M16	72.5	42
SK40 HYD32 90	32	72	M16	90	55
SK50 HYD12 069	12	42	M10	69	40
SK50 HYD20 083	20	50	M16	83	42
SK50 HYD32 090	32	72	M16	90	55
SK40 HYD6 090	6	42	M16	90	55
SK40 HYD8 090	8	42	M16	90	55
SK40 HYD10 090	10	42	M16	90	55
SK40 HYD14 090	14	42	M16	90	55
SK40 HYD16 090	16	42	M16	90	55
SK40 HYD18 090	18	50	M16	90	55
SK40 HYD25 090	25	65	M16	90	55



CAT (ANSI B5.50) TAPER

HYDRAULIC CHUCK / HOLDERS

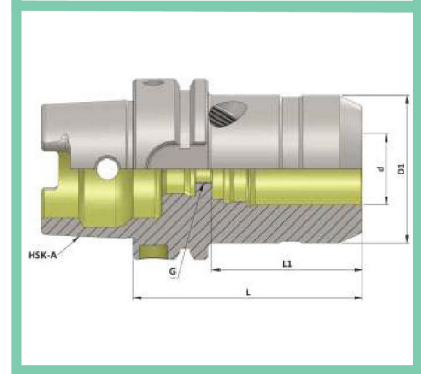
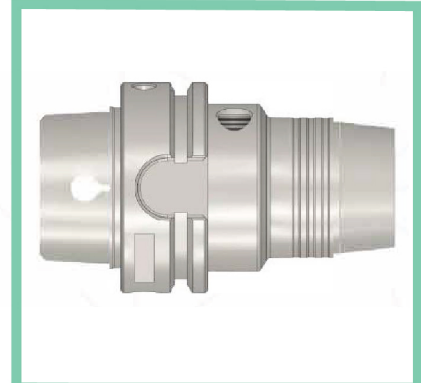
ITEM NUMBER	d	D1	D2	G	L	L1	L2
CAT40 HYD06 -101.60	6	26	44.5	M5	101.6	37	32.5
CAT40 HYD08 -101.60	8	28	44.5	M6	101.6	37	35.5
CAT40 HYD10 -101.60	10	30	44.5	M8	101.6	41	41.5
CAT40 HYD12-101.60	12	32	44.5	M10	101.6	46	41.5
CAT40 HYD14 -101.60	14	34	44.5	M10	101.6	46	49.5
CAT40 HYD16 -101.60	16	38	44.5	M12	101.6	49	49.5
CAT40 HYD18 -101.60	18	40	44.5	M12	101.6	49	49.5
CAT40 HYD20 -101.60	20	42	44.5	M16	101.6	51	49.5
CAT40 HYD25 -101.60	25	55	65	M16	101.6	57	66
CAT40 HYD32 -101.60	32	63	80	M16	101.6	61	56
CAT40 HYD1/4" -101.60	1/4"	26	44.5	M5	101.6	37	32.5
CAT40 HYD3/8" -101.60	3/8"	30	44.5	M8	101.6	41	41.5
CAT40 HYD1/2" -101.60	1/2"	32	44.5	M10	101.6	46	41.5
CAT40 HYD5/8" -101.60	5/8"	38	44.5	M12	101.6	49	49.5
CAT40 HYD3/4" -101.60	3/4"	42	44.5	M16	101.6	51	49.5
CAT40 HYD1.0" -101.60	1"	55	61	M16	101.6	57	66.5
CAT40 HYD1-1/4" -101.64	1-1/4"	61	61	M16	101.6	61	-
CAT50 HYD06 - 101.60	6	26	69.85	M5	101.6	37	32.5
CAT50 HYD08- 101.60	8	28	69.85	M6	101.6	37	36
CAT50 HYD1 0 - 101.60	10	30	69.85	M8	101.6	41	36
CAT50 HYD12 - 101.60	12	32	69.85	M10	101.6	46	41.5
CAT50 HYD14 - 101.60	14	34	69.85	M10	101.6	46	41.5
CAT50 HYD16 - 101.60	16	38	69.85	M12	101.6	49	47.5
CAT50 HYD18 - 101.60	18	40	69.85	M12	101.6	49	47.5
CAT50 HYD20 - 101.60	20	42	69.85	M16	101.6	51	49.5
CAT50 HYD25 - 101.60	25	57	69.85	M16	101.6	57	49.5
CAT50 HYD32 - 101.60	32	64	69.85	M16	101.6	61	65
CAT50 HYD1/4"- 101.60	1/4"	26	69.85	M5	101.6	37	32.5
CAT50 HYD3/8" - 101.60	3/8"	30	69.85	M8	101.6	41	36
CAT50 HYD1/2" - 101.60	1/2"	32	69.85	M10	101.6	46	41.5
CAT50 HYD5/8" - 101.60	5/8"	38	69.85	M12	101.6	49	47.5
CAT50 HYD3/5" - 101.60	3/5"	42	69.85	M16	101.6	51	49.5
CAT50 HYD1.0" - 101.60	1"	57	69.85	M16	101.6	57	49.5
CAT50 HYD1-1/4" - 101.60	1-1/4"	64	69.85	M16	101.6	61	65



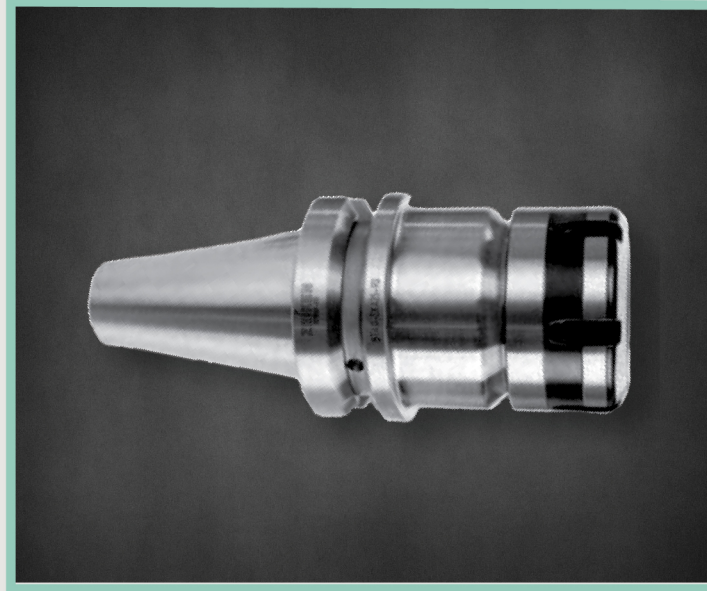
HSK-A DIN69893-1

HYDRAULIC CHUCK / HOLDERS

ITEM NUMBER	d	D1	G	L	L1
HSK-A 50 HYD12 085	12	42	M10	85	40
HSK-A 50 HYD20 090	20	50	M16	90	42
HSK-A 63 HYD12 080	12	42	M10	80	40
HSK-A 63 HYD20 080	20	50	M16	80	42
HSK-A 63 HYD32 110	32	72	M16	110	55
HSK-A 100 HYD12 095	12	42	M10	95	40
HSK-A 100 HYD20 090	20	50	M16	90	42
HSK-A 100 HYD32 110	32	72	M16	110	55
HSK-A 63 HYD6 090	6	42	M16	90	55
HSK-A 63 HYD8 090	8	42	M16	90	55
HSK-A 63 HYD10 090	10	42	M16	90	55
HSK-A 63 HYD14 090	14	42	M16	90	55
HSK-A 63 HYD16 090	16	42	M16	90	55
HSK-A 63 HYD18 090	18	50	M16	90	55
HSK-A 63 HYD25 090	25	65	M16	90	55



SK(SUPER) COLLET HOLDERS

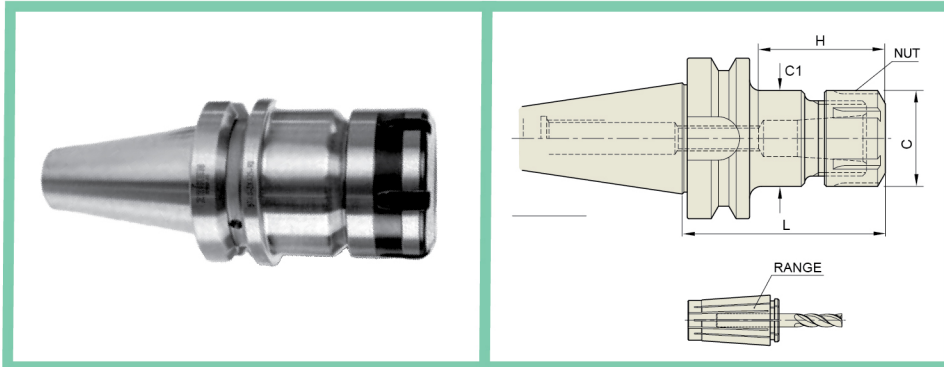


FEATURES:

- 01** Balanced to 25000 RPM at G2.5
- 02** Accuracy: 3 Micron or 0.0001" TIR or better
- 03** AT3 Class Taper Accuracy
- 04** H5 bore tolerance for optimum contact with cutting tool
- 05** Narrow body design accesses tight spots
- 06** High precision pilot holes
- 07** Hardness: HRC 56-58
- 08** Carbon depth: 0.8mm +/-0.2mm
- 09** Surface Roughness: Ra<0.005mm
- 10** Crafted from case hardened alloy steel

BT TAPER - MAS-403 - DIN228

SK (SUPER) COLLET HOLDERS



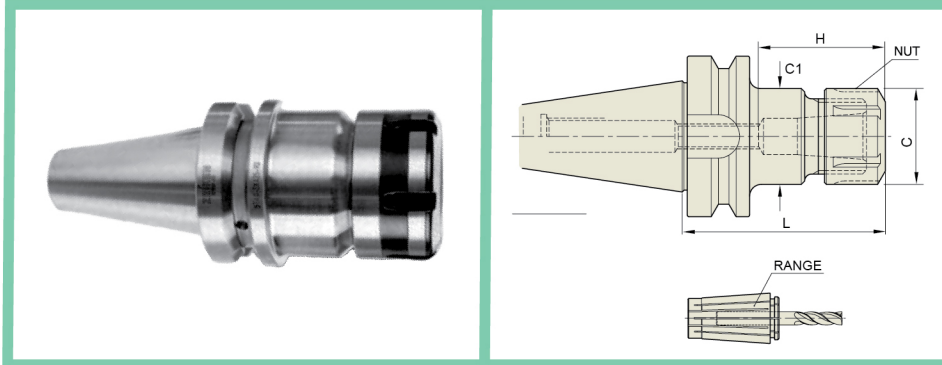
ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
BT30-SK06-60	0.9-6.0	60	20	19.5	21	35	SK6
BT30-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
BT30-SK10-60	1.75-10.0	60	28	27.5	30	50	SK10
BT30-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
BT30-SK13-60	2.75-13.0	60	33	33	31	65	SK13
BT30-SK13-90	2.75-13.0	90	33	33	31	65	SK13
BT30-SK16-60	2.75-16.0	60	40	40	45	60	SK16
BT30-SK16-90	2.75-16.0	90	40	40	45	60	SK16
BT30-SK20-60	4.0-20.0	60	48.5	48.5	65	75	SK20
BT30-SK20-90	4.0-20.0	90	48.5	48.5	65	75	SK20
BT30-SK25-90	16.0-25.4	90	55	55	55	75	SK25
BT40-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
BT40-SK06-120	0.9-6.0	120	20	19.5	21	35	SK6
BT40-SK06-150	0.9-6.0	150	20	19.5	21	35	SK6
BT40-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
BT40-SK10-120	1.75-10.0	120	28	27.5	30	50	SK10
BT40-SK10-150	1.75-10.0	150	28	27.5	30	50	SK10
BT40-SK13-90	2.75-13.0	90	33	33	31	65	SK13
BT40-SK13-120	2.75-13.0	120	33	33	31	65	SK13
BT40-SK13-150	2.75-13.0	150	33	40	31	65	SK13
BT40-SK16-90	2.75-16.0	90	40	40	45	70	SK16
BT40-SK16-120	2.75-16.0	120	40	40	45	70	SK16
BT40-SK16-150	2.75-16.0	150	40	40	45	70	SK16
BT40-SK20-90	4.0-20.0	90	48.5	48.5	47	80	SK20
BT40-SK20-120	4.0-20.0	120	48.5	48.5	47	80	SK20
BT40-SK20-150	4.0-20.0	150	48.5	48.5	47	80	SK20
BT40-SK25-90	16.0-25.4	90	55	55	55	85	SK25
BT40-SK25-120	16.0-25.4	120	55	55	55	85	SK25
BT40-SK25-150	16.0-25.4	150	55	55	55	85	SK25

BT TAPER - MAS-403 - DIN228

SK (SUPER) COLLET HOLDERS

ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
BT50-SK06-105	0.9-6.0	105	20	19.5	21	35	SK6
BT50-SK06-135	0.9-6.0	135	20	19.5	21	35	SK6
BT50-SK06-165	0.9-6.0	165	20	32.5	21	35	SK6
BT50-SK06-195	0.9-6.0	195	20	32.5	21	35	SK6
BT50-SK10-105	1.75-10.0	105	28	27.5	30	50	SK10
BT50-SK10-135	1.75-10.0	135	28	27.5	30	50	SK10
BT50-SK10-165	1.75-10.0	165	28	37.4	30	50	SK10
BT50-SK10-195	1.75-10.0	195	28	37.4	30	50	SK10
BT50-SK13-105	2.75-13.0	105	33	33	31	65	SK13
BT50-SK13-135	2.75-13.0	135	33	33	31	65	SK13
BT50-SK13-165	2.75-13.0	165	33	45	31	65	SK13
BT50-SK13-195	2.75-13.0	195	33	45	31	65	SK13
BT50-SK16-105	2.75-16.0	105	40	40	45	70	SK16
BT50-SK16-135	2.75-16.0	135	40	40	45	70	SK16
BT50-SK16-165	2.75-16.0	165	40	40	45	70	SK16
BT50-SK16-195	2.75-16.0	195	40	40	45	70	SK16
BT50-SK20-105	4.0-20.0	105	48.5	48.5	47	80	SK20
BT50-SK20-135	4.0-20.0	135	48.5	48.5	47	80	SK20
BT50-SK20-165	4.0-20.0	165	48.5	48.5	47	80	SK20
BT50-SK20-195	4.0-20.0	195	48.5	48.5	47	80	SK20
BT50-SK25-105	16.0-25.4	105	55	55	55	85	SK25
BT50-SK25-135	16.0-25.4	135	55	55	55	85	SK25
BT50-SK25-165	16.0-25.4	165	55	55	55	85	SK25
BT50-SK25-195	16.0-25.4	195	55	55	55	85	SK25

SK DIN 69871 TAPER SK (SUPER) COLLET HOLDERS



ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
SK30-SK06-60	0.9-6.0	60	20	19.5	21	35	SK6
SK30-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
SK30-SK10-60	1.75-10.0	60	28	27.5	30	50	SK10
SK30-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
SK30-SK13-60	2.75-13.0	60	33	33	31	65	SK13
SK30-SK13-90	2.75-13.0	90	33	33	31	65	SK13
SK30-SK16-60	2.75-16.0	60	40	40	45	60	SK16
SK30-SK16-90	2.75-16.0	90	40	40	45	60	SK16
SK30-SK20-60	4.0-20.0	60	48.5	48.5	65	75	SK20
SK30-SK20-90	4.0-20.0	90	48.5	48.5	65	75	SK20
SK30-SK25-90	16.0-25.4	90	55	55	55	75	SK25
SK40-SK06-90	0.9-6.0	90	20	19.5	21	35	SK6
SK40-SK06-120	0.9-6.0	120	20	19.5	21	35	SK6
SK40-SK06-150	0.9-6.0	150	20	19.5	21	35	SK6
SK40-SK10-90	1.75-10.0	90	28	27.5	30	50	SK10
SK40-SK10-120	1.75-10.0	120	28	27.5	30	50	SK10
SK40-SK10-150	1.75-10.0	150	28	27.5	30	50	SK10
SK40-SK13-90	2.75-13.0	90	33	33	31	65	SK13
SK40-SK13-120	2.75-13.0	120	33	33	31	65	SK13
SK40-SK13-150	2.75-13.0	150	33	40	31	65	SK13
SK40-SK16-90	2.75-16.0	90	40	40	45	70	SK16
SK40-SK16-120	2.75-16.0	120	40	40	45	70	SK16
SK40-SK16-150	2.75-16.0	150	40	40	45	70	SK16
SK40-SK20-90	4.0-20.0	90	48.5	48.5	47	80	SK20
SK40-SK20-120	4.0-20.0	120	48.5	48.5	47	80	SK20
SK40-SK20-150	4.0-20.0	150	48.5	48.5	47	80	SK20
SK40-SK25-90	16.0-25.4	90	55	55	55	85	SK25
SK40-SK25-120	16.0-25.4	120	55	55	55	85	SK25
SK40-SK25-150v	16.0-25.4	150	55	55	55	85	SK25

SK DIN 69871 TAPER

SK (SUPER) COLLET HOLDERS

ITEM NUMBER	RANGE	L	C	C1	H		COLLET
					MIN.	MAX.	
SK50-SK06-105	0.9-6.0	105	20	19.5	21	35	SK6
SK50-SK06-135	0.9-6.0	135	20	19.5	21	35	SK6
SK50-SK06-165	0.9-6.0	165	20	32.5	21	35	SK6
SK50-SK06-195	0.9-6.0	195	20	32.5	21	35	SK6
SK50-SK10-105	1.75-10.0	105	28	27.5	30	50	SK10
SK50-SK10-135	1.75-10.0	135	28	27.5	30	50	SK10
SK50-SK10-165	1.75-10.0	165	28	37.4	30	50	SK10
SK50-SK10-195	1.75-10.0	195	28	37.4	30	50	SK10
SK50-SK13-105	2.75-13.0	105	33	33	31	65	SK13
SK50-SK13-135	2.75-13.0	135	33	33	31	65	SK13
SK50-SK13-165	2.75-13.0	165	33	45	31	65	SK13
SK50-SK13-195	2.75-13.0	195	33	45	31	65	SK13
SK50-SK16-105	2.75-16.0	105	40	40	45	70	SK16
SK50-SK16-135	2.75-16.0	135	40	40	45	70	SK16
SK50-SK16-165	2.75-16.0	165	40	40	45	70	SK16
SK50-SK16-195	2.75-16.0	195	40	40	45	70	SK16
SK50-SK20-105	4.0-20.0	105	48.5	48.5	47	80	SK20
SK50-SK20-135	4.0-20.0	135	48.5	48.5	47	80	SK20
SK50-SK20-165	4.0-20.0	165	48.5	48.5	47	80	SK20
SK50-SK20-195	4.0-20.0	195	48.5	48.5	47	80	SK20
SK50-SK25-105	16.0-25.4	105	55	55	55	85	SK25
SK50-SK25-135	16.0-25.4	135	55	55	55	85	SK25
SK50-SK25-165	16.0-25.4	165	55	55	55	85	SK25
SK50-SK25-195	16.0-25.4	195	55	55	55	85	SK25

OZ-HOLDERS

- DIN 6388



FEATURES:

01

Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5

02

Accuracy: 5 Micron or 0.0002" TIR or better

03

AT3 Class Taper Accuracy

04

Carbon depth: 0.8mm
+-0.2mm

05

Crafted from case hardened alloy steel

06

H5 bore tolerance for optimum surface contact with cutting tool

07

Hardness:
HRC 56-58

08

High precision pilot holes

09

Surface Roughness:
Ra<0.005mm

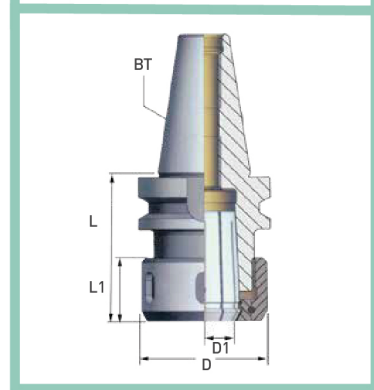
10

Through-tool coolant feature is standard

BT TAPER - MAS-403/ OZ-HOLDERS

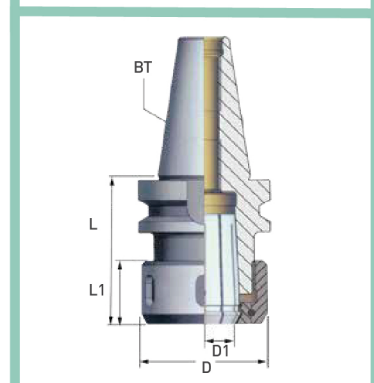
BT TAPER - MAS-403

ITEM NUMBER	D2	L	D	L1	COLLETS
BT40-OZ25-80	3-25	80	60	30	OZ25
BT40-OZ25-120	3-25	120	60	30	OZ25
BT40-OZ32-80	6-32	80	72	33	OZ32
BT40-OZ32-150	6-32	150	72	33	OZ32
BT50-OZ25-90	3-25	90	60	30	OZ25
BT50-OZ25-130	3-25	130	60	30	OZ25
BT50-OZ32-105	6-32	105	72	33	OZ32
BT50-OZ32-150	6-32	150	72	33	OZ32



SK- DIN 69871 -TAPER

ITEM NUMBER	D2	L	D	L1	COLLETS
SK40-OZ25-80	3-25	80	60	30	OZ25
SK40-OZ25-120	3-25	120	60	30	OZ25
SK40-OZ32-80	6-32	80	72	33	OZ32
SK40-OZ32-150	6-32	150	72	33	OZ32
SK50-OZ25-90	3-25	90	60	30	OZ25
SK50-OZ25-130	3-25	130	60	30	OZ25
SK50-OZ32-105	6-32	105	72	33	OZ32
SK50-OZ32-150	6-32	150	72	33	OZ32



SHRINK-FIT HOLDERS



FEATURES:

01

Balanced 25000 RPM
at G2.5

02

Accuracy: 3 Micron or
0.0001" TIR or better

03

AT3 Class Taper Accuracy

04

High precision pilot holes

05

Surface Roughness:
Ra<0.005mm

06

Crafted from case
hardened alloy steel

07

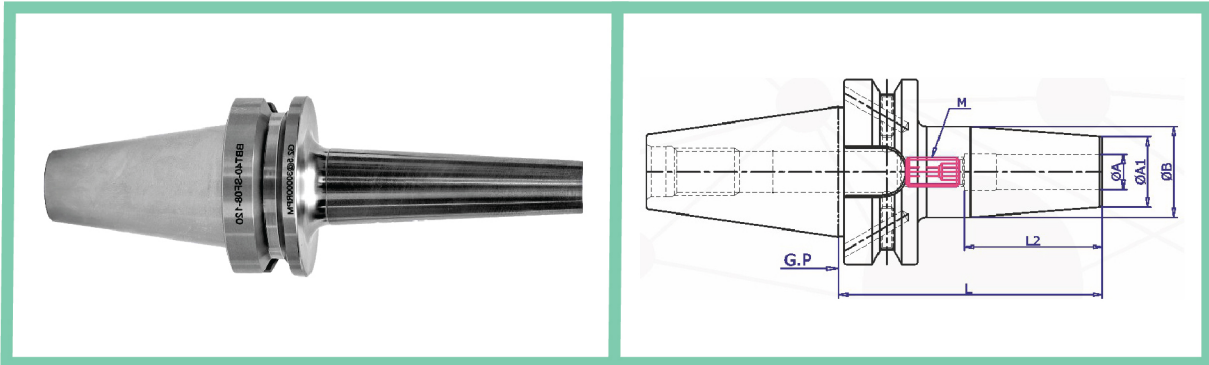
Best suitable for Drilling,
Reaming & Milling operations

08

Coolant through capable

BT TAPER - MAS-403

SHRINK FIT HOLDERS



ITEM NUMBER	TAPER	A	A1	B	L	L2	M
BT40 SFA06 090 AD+B	BT 40	6	21	27	90	36	MS
BT40 SFA06 120 AD+B	BT40	6	21	27	120	36	MS
BT40 SFA06 160 AD+B	BT 40	6	21	27	160	36	MS
BT40 SFA08 090 AD+B	BT40	8	21	27	90	36	M6
BT40 SFA08 120 AD+B	BT 40	8	21	27	120	36	M6
BT40 SFA08 160 AD+B	BT 40	8	21	27	160	36	M6
BT40 SFA10 090AD+B	BT 40	10	24	32	90	42	M8
BT40 SFA10 120 AD+B	BT 40	10	24	32	120	42	M8
BT40 SFA10 160AD+B	BT 40	10	24	32	160	42	M8
BT40 SFA12 090 AD+B	BT 40	12	24	32	90	47	M10
BT40 SFA12 120AD+B	BT 40	12	24	32	120	47	M10
BT40 SFA12 160 AD+B	BT40	12	24	32	160	47	M10
BT40 SFA14 090AD+B	BT 40	14	27	34	90	47	M10
BT40 SFA14 120 AD+B	BT 40	14	27	34	120	47	M10
BT40 SFA14 160 AD+B	BT40	14	27	34	160	47	M10
BT40 SFA16 090AD+B	BT 40	16	27	34	90	50	M12
BT40 SFA16 120 AD+B	BT40	16	27	34	120	50	M12
BT40 SFA16 160 AD+B	BT 40	16	27	34	160	50	M12
BT40 SFA18 090AD+B	BT 40	18	33	42	90	50	M12
BT40 SFA18 120AD+B	BT 40	18	33	42	120	50	M12
BT40 SFA18160AD+B	BT40	18	33	42	160	50	M12
BT40 SFA20 090 AD+B	BT 40	20	33	42	90	52	M16
BT40 SFA20 120 AD+B	BT40	20	33	42	120	52	M16
BT40 SFA20 160 AD+B	BT 40	20	33	42	160	52	M16
BT40 SFA25 100 AD+B	BT 40	25	44	53	100	58	M16
BT40 SFA25 120 AD+B	BT40	25	44	53	120	58	M16
BT40 SFA25 160 AD+B	BT40	25	44	53	160	58	M16
BT40 SFA32 100 AD+B	BT40	32	44	53	100	58	M16
BT40 SFA32 120 AD+B	BT 40	32	44	53	120	58	M16
BT40 SFA32 160 AD+B	BT40	32	44	53	160	58	M16

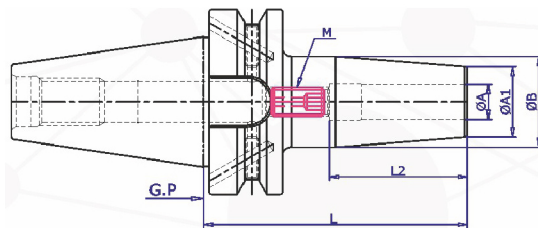
BT TAPER – MAS-403

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
BT50 SFA06 100 AD+B	BT50	6	21	27	100	36	M5
BT50 SFA06 120 AD+B	BT50	6	21	27	120	36	M5
BT50 SFA06 160 AD+B	BT50	6	21	27	160	36	M5
BT50 SFA08 100 AD+B	BT50	8	21	27	100	36	M6
BT50 SFA08 120 AD+B	BT50	8	21	27	120	36	M6
BT50 SFA08 160 AD+B	BT50	8	21	27	160	36	M6
BT50SFA10100AD+B	BT50	10	24	32	100	42	M8
BT50 SFA10 120 AD+B	BT50	10	24	32	120	42	M8
BT50SFA10160AD+B	BT50	10	24	32	160	42	M8
BT50 SFA12100AD+B	BT50	12	24	32	100	47	M10
BT50 SFA12120 AD+B	BT50	12	24	32	120	47	M10
BT50 SFA12160AD+B	BT50	12	24	32	160	47	M10
BT50 SFA14100AD+B	BT50	14	27	34	100	47	M10
BT50 SFA14120AD+B	BT50	14	27	34	120	47	M10
BT50 SFA14160AD+B	BT50	14	27	34	160	47	M10
BT50 SFA16100AD+B	BT50	16	27	34	100	50	M12
BT50 SFA16120AD+B	BT50	16	27	34	120	50	M12
BT50 SFA16160AD+B	BT50	16	27	34	160	50	M12
BT50 SFA18100AD+B	BT50	18	33	42	100	50	M12
BT50 SFA18 120 AD+B	BT50	18	33	42	120	50	M12
BT50 SFA18160AD+B	BT50	18	33	42	160	50	M12
BT50 SFA20 100 AD+B	BT50	20	33	42	100	52	M16
BT50 SFA20 120 AD+B	BT50	20	33	42	120	52	M16
BT50 SFA20 160 AD+B	BT50	20	33	42	160	52	M16
BT50 SFA25 110 AD+B	BT50	25	44	53	110	58	M16
BT50 SFA25 120 AD+B	BT50	25	44	53	120	58	M16
BT50 SFA25 160 AD+B	BT50	25	44	53	160	58	M16
BT50 SFA32 110 AD+B	BT50	32	44	53	110	58	M16
BT50 SFA32 120 AD+B	BT50	32	44	53	120	58	M16
BT50 SFA32 160 AD+B	BT50	32	44	53	160	58	M16

SK DIN 69871 TAPER

SHRINK FIT HOLDERS



ITEM NUMBER	TAPER	A	A1	B	L	L2	M
SK40 SFA06 090 AD+B	SK 40	6	21	27	90	36	MS
SK40 SFA06 120 AD+B	SK40	6	21	27	120	36	MS
SK40 SFA06 160 AD+B	SK 40	6	21	27	160	36	MS
SK40 SFA08 090 AD+B	SK40	8	21	27	90	36	M6
SK40 SFA08 120 AD+B	SK 40	8	21	27	120	36	M6
SK40 SFA08 160 AD+B	SK 40	8	21	27	160	36	M6
SK40 SFA10 090AD+B	SK 40	10	24	32	90	42	M8
SK40 SFA10 120 AD+B	SK 40	10	24	32	120	42	M8
SK40 SFA10 160AD+B	SK 40	10	24	32	160	42	M8
SK40 SFA12 090 AD+B	SK 40	12	24	32	90	47	M10
SK40 SFA12 120AD+B	SK 40	12	24	32	120	47	M10
SK40 SFA12 160 AD+B	SK40	12	24	32	160	47	M10
SK40 SFA14 090AD+B	SK 40	14	27	34	90	47	M10
SK40 SFA14 120 AD+B	SK 40	14	27	34	120	47	M10
SK40 SFA14 160 AD+B	SK40	14	27	34	160	47	M10
SK40 SFA16 090AD+B	SK 40	16	27	34	90	50	M12
SK40 SFA16 120 AD+B	SK40	16	27	34	120	50	M12
SK40 SFA16 160 AD+B	SK 40	16	27	34	160	50	M12
SK40 SFA18 090AD+B	SK 40	18	33	42	90	50	M12
SK40 SFA18 120AD+B	SK 40	18	33	42	120	50	M12
SK40 SFA18160AD+B	SK40	18	33	42	160	50	M12
SK40 SFA20 090 AD+B	SK 40	20	33	42	90	52	M16
SK40 SFA20 120 AD+B	SK40	20	33	42	120	52	M16
SK40 SFA20 160 AD+B	SK 40	20	33	42	160	52	M16
SK40 SFA25 100 AD+B	SK 40	25	44	53	100	58	M16
SK40 SFA25 120 AD+B	SK40	25	44	53	120	58	M16
SK40 SFA25 160 AD+B	SK40	25	44	53	160	58	M16
SK40 SFA32 100 AD+B	SK40	32	44	53	100	58	M16
SK40 SFA32 120 AD+B	SK 40	32	44	53	120	58	M16
SK40 SFA32 160 AD+B	SK40	32	44	53	160	58	M16

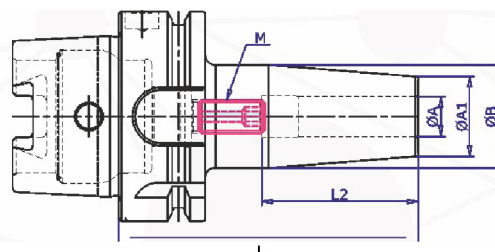
SK DIN 69871 TAPER

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
SK50 SFA06 100 AD+B	SK50	6	21	27	100	36	M5
SK50 SFA06 120 AD+B	SK50	6	21	27	120	36	M5
SK50 SFA06 160 AD+B	SK50	6	21	27	160	36	M5
SK50 SFA08 100 AD+B	SK50	8	21	27	100	36	M6
SK50 SFA08 120 AD+B	SK50	8	21	27	120	36	M6
SK50 SFA08 160 AD+B	SK50	8	21	27	160	36	M6
SK50SFA10100AD+B	SK50	10	24	32	100	42	M8
SK50 SFA10 120 AD+B	SK50	10	24	32	120	42	M8
SK50SFA10160AD+B	SK50	10	24	32	160	42	M8
SK50 SFA12100AD+B	SK50	12	24	32	100	47	M10
SK50 SFA12120 AD+B	SK50	12	24	32	120	47	M10
SK50 SFA12160AD+B	SK50	12	24	32	160	47	M10
SK50 SFA14100AD+B	SK50	14	27	34	100	47	M10
SK50 SFA14120AD+B	SK50	14	27	34	120	47	M10
SK50 SFA14160AD+B	SK50	14	27	34	160	47	M10
SK50 SFA16100AD+B	SK50	16	27	34	100	50	M12
SK50 SFA16120AD+B	SK50	16	27	34	120	50	M12
SK50 SFA16160AD+B	SK50	16	27	34	160	50	M12
SK50 SFA18100AD+B	SK50	18	33	42	100	50	M12
SK50 SFA18 120 AD+B	SK50	18	33	42	120	50	M12
SK50 SFA18160AD+B	SK50	18	33	42	160	50	M12
SK50 SFA20 100 AD+B	SK50	20	33	42	100	52	M16
SK50 SFA20 120 AD+B	SK50	20	33	42	120	52	M16
SK50 SFA20 160 AD+B	SK50	20	33	42	160	52	M16
SK50 SFA25 110 AD+B	SK50	25	44	53	110	58	M16
SK50 SFA25 120 AD+B	SK50	25	44	53	120	58	M16
SK50 SFA25 160 AD+B	SK50	25	44	53	160	58	M16
SK50 SFA32 110 AD+B	SK50	32	44	53	110	58	M16
SK50 SFA32 120 AD+B	SK50	32	44	53	120	58	M16
SK50 SFA32 160 AD+B	SK50	32	44	53	160	58	M16

HSK-A DIN69893-1

SHRINK FIT HOLDERS



ITEM NUMBER	TAPER	A	A1	B	L	L2	M
HSK-A50 SFA06 080	HSK-A50	6	21	27	80	36	M5
HSK-A50 SFA06 120	HSK-A50	6	21	27	120	36	M5
HSK-A50 SFA06 160	HSK-A50	6	21	27	160	36	M5
HSK-A50 SFA08 080	HSK-A50	8	21	27	80	36	M6
HSK-A50 SFA08 120	HSK-A50	8	21	27	120	36	M6
HSK-A50 SFA08 160	HSK-A50	8	21	27	160	36	M6
HSK-A50 SFA10 085	HSK-A50	10	24	32	85	42	M8
HSK-A50 SFA10 120	HSK-A50	10	24	32	120	42	M8
HSK-A50 SFA10 160	HSK-A50	10	24	32	160	42	M8
HSK-A50 SFA12 090	HSK-A50	12	24	32	90	47	M10
HSK-A50 SFA12 120	HSK-A50	12	24	32	120	47	M10
HSK-A50 SFA12 160	HSK-A50	12	24	32	160	47	M10
HSK-A50 SFA14 090	HSK-A50	14	27	34	90	47	M10
HSK-A50 SFA14 120	HSK-A50	14	27	34	120	47	M10
HSK-A50 SFA14 160	HSK-A50	14	27	34	160	47	M10
HSK-A50 SFA16 095	HSK-A50	16	27	34	95	50	M12
HSK-A50 SFA16 120	HSK-A50	16	27	34	120	50	M12
HSK-A50 SFA16 160	HSK-A50	16	27	34	160	50	M12
HSK-A50 SFA18 095	HSK-A50	18	33	42	95	50	M12
HSK-A50 SFA18 120	HSK-A50	18	33	42	120	50	M12
HSK-A50 SFA18 160	HSK-A50	18	33	42	160	50	M12
HSK-A50 SFA20 100	HSK-A50	20	33	42	100	52	M16
HSK-A50 SFA20 120	HSK-A50	20	33	42	120	52	M16
HSK-A50 SFA20 160	HSK-A50	20	33	42	160	52	M16
HSK-A63 SFA06 080	HSK-A63	6	21	27	80	36	M5
HSK-A63 SFA06 120	HSK-A63	6	21	27	120	36	M5
HSK-A63 SFA06 160	HSK-A63	6	21	27	160	36	M5
HSK-A63 SFA08 080	HSK-A63	8	21	27	80	36	M6
HSK-A63 SFA08 120	HSK-A63	8	21	27	120	36	M6

HSK-A DIN69893-1

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
HSK-A63 SFA08 160	HSK-A 63	8	21	27	160	36	M6
HSK-A63 SFA10 085	HSK-A63	10	24	32	85	42	M8
HSK-A63 SFA10 120	HSK-A63	10	24	32	120	42	M8
HSK-A63 SFA10 160	HSK-A63	10	24	32	160	42	M8
HSK-A63 SFA12 090	HSK-A63	12	24	32	90	47	M10
HSK-A63 SFA12 120	HSK-A63	12	24	32	120	47	M10
HSK-A63 SFA12 160	HSK-A63	12	24	32	160	47	M10
HSK-A63 SFA14 090	HSK-A63	14	27	34	90	47	M10
HSK-A63 SFA14 120	HSK-A63	14	27	34	120	47	M10
HSK-A63 SFA14 160	HSK-A63	14	27	34	160	47	M10
HSK-A63 SFA16 095	HSK-A63	16	27	34	95	50	M12
HSK-A63 SFA16 120	HSK-A63	16	27	34	120	50	M12
HSK-A63 SFA16 160	HSK-A63	16	27	34	160	50	M12
HSK-A63 SFA18 095	HSK-A63	18	33	42	95	50	M12
HSK-A63 SFA18 120	HSK-A63	18	33	42	120	50	M12
HSK-A63 SFA18 160	HSK-A63	18	33	42	160	50	M12
HSK-A63 SFA20 100	HSK-A63	20	33	42	100	52	M16
HSK-A63 SFA20 120	HSK-A63	20	33	42	120	52	M16
HSK-A63 SFA20 160	HSK-A63	20	33	42	160	52	M16
HSK-A63 SFA25 115	HSK-A63	25	44	53	115	58	M16
HSK-A63 SFA25 120	HSK-A63	25	44	53	120	58	M16
HSK-A63 SFA25 160	HSK-A63	25	44	53	160	58	M16
HSK-A63 SFA32 120	HSK-A63	32	44	53	120	58	M16
HSK-A63 SFA32 160	HSK-A63	32	44	53	160	58	M16
HSK-A100 SFA06 085	HSK-A 100	6	21	27	85	36	MS
HSK-A100 SFA06 120	HSK-A 100	6	21	27	120	36	MS
HSK-A100 SFA06 160	HSK-A 100	6	21	27	160	36	MS
HSK-A100 SFA08 085	HSK-A 100	8	21	27	85	36	M6
HSK-A100 SFA08 120	HSK-A 100	8	21	27	120	36	M6
HSK-A100 SFA08 160	HSK-A 100	8	21	27	160	36	M6
HSK-A100 SFA10 090	HSK-A 100	10	24	32	90	42	M8
HSK-A100 SFA10 120	HSK-A 100	10	24	32	120	42	M8
HSK-A100 SFA10 160	HSK-A 100	10	24	32	160	42	M8
HSK-A100 SFA12 095	HSK-A 100	12	24	32	95	47	M10
HSK-A100 SFA12 120	HSK-A 100	12	24	32	120	47	M10
HSK-A100 SFA12 160	HSK-A 100	12	24	32	160	47	M10
HSK-A100 SFA14 095	HSK-A 100	14	27	34	95	47	M10
HSK-A100 SFA14 120	HSK-A 100	14	27	34	120	47	M10
HSK-A100 SFA14 160	HSK-A 100	14	27	34	160	47	M10

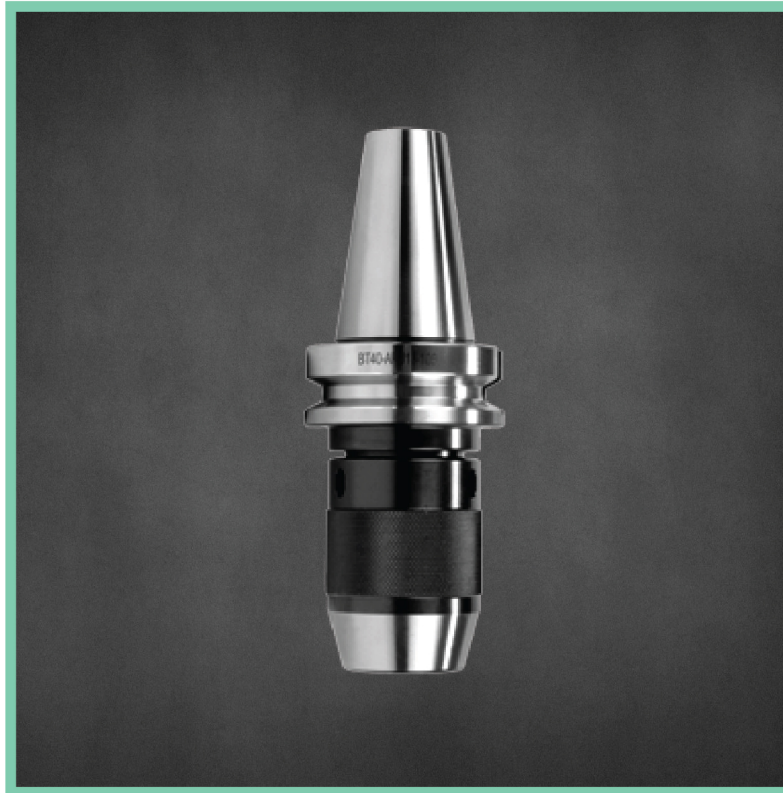
HSK-A DIN69893-1

SHRINK FIT HOLDERS

ITEM NUMBER	TAPER	A	A1	B	L	L2	M
HSK-A100 SFA16 100	HSK-A 100	16	27	34	100	50	M12
HSK-A100 SFA16 120	HSK-A 100	16	27	34	120	50	M12
HSK-A100 SFA16 160	HSK-A 100	16	27	34	160	50	M12
HSK-A100 SFA18 100	HSK-A 100	18	33	42	100	50	M12
HSK-A100 SFA18 120	HSK-A 100	18	33	42	120	50	M12
HSK-A100 SFA18 160	HSK-A 100	18	33	42	160	50	M12
HSK-A100 SFA20 105	HSK-A 100	20	33	42	105	52	M16
HSK-A100 SFA20 120	HSK-A 100	20	33	42	120	52	M16
HSK-A100 SFA20 160	HSK-A 100	20	33	42	160	52	M16
HSK-A100 SFA25 115	HSK-A 100	25	44	53	115	58	M16
HSK-A100 SFA25 120	HSK-A 100	25	44	53	120	58	M16
HSK-A100 SFA25 160	HSK-A 100	25	44	53	160	58	M16
HSK-A100 SFA32 120	HSK-A 100	32	44	53	120	58	M16
HSK-A100 SFA32 160	HSK-A 100	32	44	53	160	58	M16

INTEGRAL SHANK DRILL CHUCK

-APU DRILL CHUCKS



FEATURES:

01

Integral Shank

02

AT3 Class Taper Accuracy

03

High precision pilot holes

05

Surface Roughness:
 $Ra < 0.005\text{mm}$

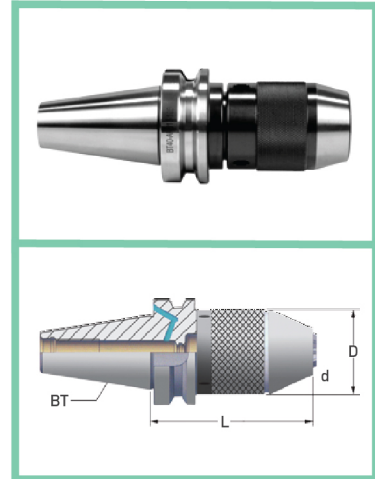
06

Crafted from case hardened alloy steel

INTEGRAL SHANK DRILL CHUCK -APU DRILL CHUCK

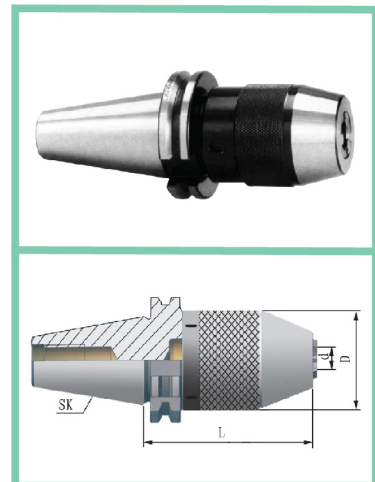
BT TAPER - MAS-403

ITEM NUMBER	d	D	L
BT30-APU08-80	1-8	37	80
BT30-APU13-120	1-13	S0	120
BT30-APU16-120	3-16	57	120
BT40-APU08-75	1-8	37	75
BT40-APU13-100	1-13	S0	100
BT40-APU16-105	3-16	57	105
BT50-APU08-75	1-8	37	75
BT50-APU13-100	1-8	S0	100
BT50-APU16-105	3-16	57	105



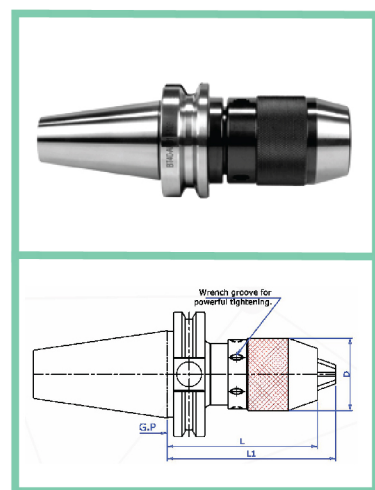
SK DIN 69871 TAPER

ITEM NUMBER	d	D	L
SK30-APU08-80	1-8	37	80
SK30-APU13-120	1-13	S0	120
SK30-APU16-120	3-16	57	120
SK40-APU08-75	1-8	37	75
SK40-APU13-100	1-13	S0	100
SK40-APU16-105	3-16	57	105
SK50-APU08-75	1-8	37	75
SK50-APU13-100	1-8	S0	100
SK50-APU16-105	3-16	57	105



CAT(ANSI B 5.50) TAPER

ITEM NUMBER	TOOL	D	L	L1
CAT40-APU13-4.0"	CAT-40	1.969"	4.0"	4.5"
CAT50-APU13-4.0"	CAT-50	1.969"	4.0"	4.5"



QUICK CHANGE TAPPING HOLDERS



FEATURES:

01

AT3 Class Taper Accuracy

05

High precision pilot holes

02

Quick Change system

06

Hardness: HRC 56-58

03

H5 bore tolerance for optimum contact with cutting tool

07

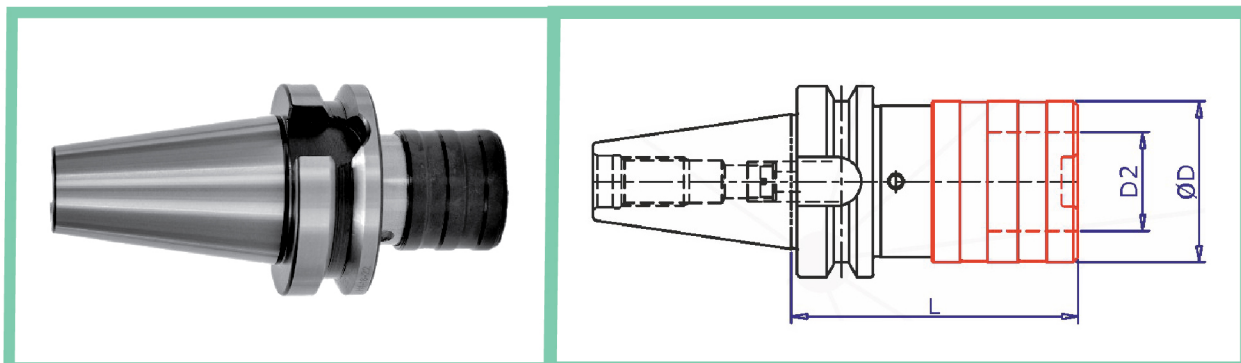
Prevent broken taps

04

Narrow body design accesses tight spots

BT TAPER - MAS-403

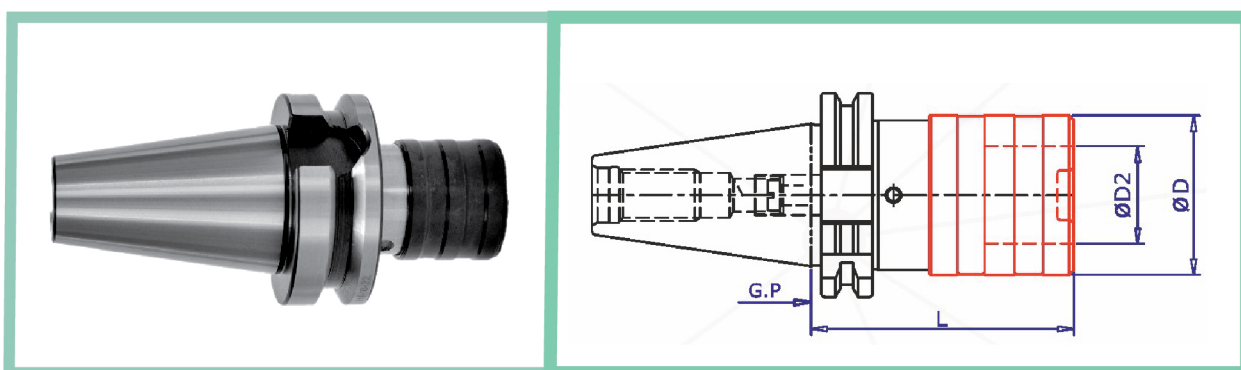
QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	FOR TAP SIZE	SUITABLE ADAPTORS	LENGTH COMPENS		ØD	D2	BT 30 L	BT 40 L	BT 50 L
			COMPRE	EXPAN					
QCFLK1/BT	M3-M12	WE1 /WES1	7.50	7.50	36	19	64.0	19	19
QCFLK2/BT	M8-M20	WE2 /WES2	12.50	12.50	53	31	—	31	31
QCFLK3/BT	M14-M33	WE3 /WES3	20.00	20.00	78	48	—	48	48
QCFLK4/BT	M22-M48	WE4 /WES4	22.50	22.50	96	60	—	60	60

SK DIN 69871 TAPER

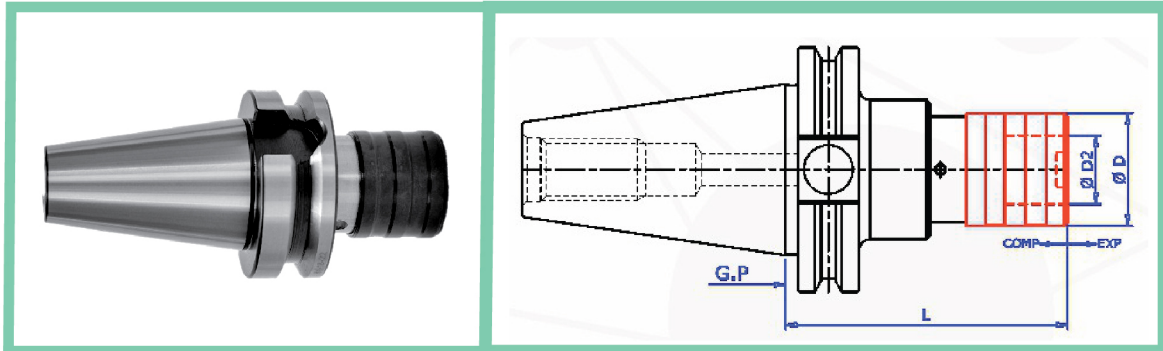
QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	FOR TAP SIZE	SUITABLE ADAPTORS	LENGTH COMPENS		ØD Dia	D2 Dia	SK 30 L	SK 40 L	SK 50 L
			COMPRE	EXPAN					
QCFLK1/SK	M3-M12	WE1 /WES1	7.50	7.50	36	19	64.0	19	19
QCFLK2/SK	M8-M20	WE2 /WES2	12.50	12.50	53	31	—	31	31
QCFLK3/SK	M14-M33	WE3 /WES3	20.00	20.00	78	48	—	48	48
QCFLK4/SK	M22-M48	WE4 /WES4	22.50	22.50	96	60	—	60	60

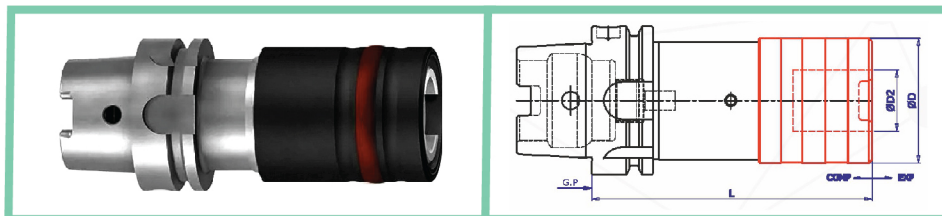
CAT (ANSI B 5.50) TAPER

QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	TOOL SHANK	QUICK CAPACITY	SUITABLE ADAPTORS	LENGTH COMPENS		ØD	ØD2	L
				COMPRE	EXPAN			
CAT40 QCFLK1 076	CAT-40	M3-M12	WE1 /WES1	7.5	7.5	36	19	76
CAT40 QCFLK2 100	CAT-40	M8-M20	WE2 /WES2	12.5	12.5	53	31	100
CAT40 QCFLK3 150	CAT-40	M14-M33	WE3 /WES3	20	20	78	48	150
CAT50 QCFLK1 076	CAT-50	M3-M12	WE1 /WES1	7.5	7.5	36	19	76
CAT50 QCFLK2 100	CAT-50	M8-M20	WE2 /WES2	12.5	12.5	53	31	100
CAT50 QCFLK3 140	CAT-50	M14-M33	WE3 /WES3	20	20	78	48	140
CAT50 QCFLK4 152	CAT-50	M22-M48	WE4 /WES4	22.5	22.5	96	60	152

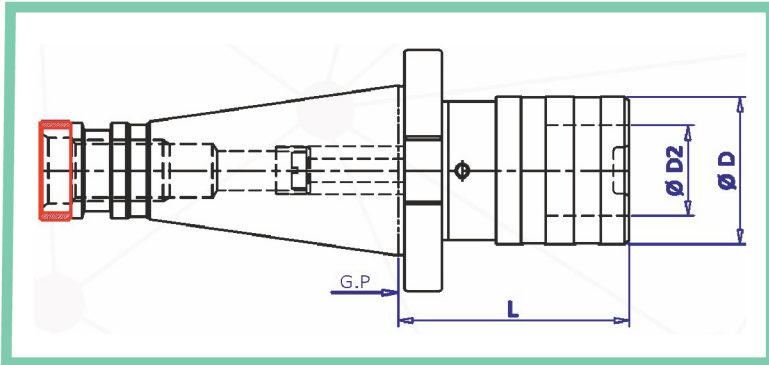
HSK-A DIN69893-1



HSK TYPE	CAPACITY	SUITABLE ADAPTORS	D2	D	L	LENGTH COMPENS (MM)	
						COMPRE	EXPAN
HSK A-50 QCFLK1	M3 TO M12	WE1 /WES1	19	36	76	7.5	7.5
HSK A-50 QCFLK2	M5 TO M20	WE2 /WES2	31	53	123	12.5	12.5
HSK A-63 QCFLK1	M3 TO M12	WE1 /WES1	19	36	81	7.5	7.5
HSK A-63 QCFLK2	M5 TO M20	WE2 /WES2	31	53	119	12.5	12.5
HSK A-63 QCFLK3	M14 TO M33	WE3 /WES3	48	78	176	20.0	20.0
HSK A-100 QCFLK1	M3 TO M12	WE1 /WES1	19	36	90	7.5	7.5
HSK A-100 QCFLK2	M5 TO M20	WE2 /WES2	31	53	138	12.5	12.5
HSK A-100 QCFLK3	M14 TO M33	WE3 /WES3	48	78	190	20.0	20.0
HSK A-100 QCFLK4	M22 TO M48	WE4 /WES4	60	96	225	22.5	22.5

ISO DIN 2080 TAPER

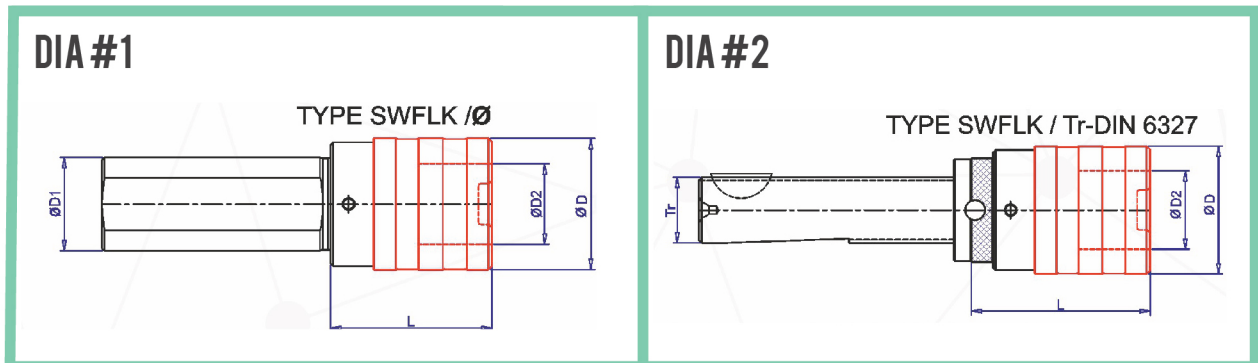
QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	CHUCK CAPACITY	SUITABLE ADAPTORS	LENGTH COMPENS		$\varnothing D$	$\varnothing D2$	ISO 30 L	ISO 40 L	ISO 50 L
			COMPRES	EXPAN					
QCFLK 1/ ISO #	M3-M12	WE1 /WES1	7.5	7.5	36	19	59	50	59
QCFLK 2/ ISO #	M8-M20	WE2 /WES2	12.5	12.5	53	31	97	78	80
QCFLK 3/ ISO #	M14-M33	WE3 /WES3	20.0	20.0	78	48	-	143	130
QCFLK 1/ ISO #	M3-M12	WE1 /WES1	7.5	7.5	36	19	-	150-500	150-500
QCFLK 2/ ISO #	M8-M20	WE2 /WES2	12.5	12.5	53	31	-	150-500	150-500
QCFLK 3/ ISO #	M14-M33	WE3 /WES3	20	20	78	48	-	200-500	200-500

STRAIGHT SHANK & MT SHANK

QUICK CHANGE TAPPING HOLDERS



ITEM NUMBER	CHUCK CAPACITY	SUITABLE ADAPTORS	LENGTH COMPENS		$\varnothing D$	$\varnothing D1$	$\varnothing D2$	L
			COMPRES	EXPAN				
QCFLK1/ DIA #1	M3-M12	WES1 / WE1	7.50	7.50	36	20 / 25 / 32 / 40 / 3/4 " / 1"	19	40
QCFLK2/ DIA #1	M8-M20	WES2 / WE2	12.50	12.50	53	25 / 32 / 40 / 1"	31	63
QCFLK3/ DIA #1	M14-M33	WES3 / WE3	20.00	20.00	78	32 / 40 / 1-1/2"	48	125
QCFLK1/ DIA #2	M3-M12	WE1 / WES1	7.50	7.50	36	20 / 25 / 32	19	40
QCFLK2/ DIA #2	M8-M20	WE2 / WES2	12.50	12.50	53	25 / 32 / 40	31	63
QCFLK3/ DIA #2	M14-M33	WE3 / WES3	20.00	20.00	78	32 / 40	48	125
QCFLK4/ DIA #2	M22-M48	WE4 / WES4	22.50	22.50	96	40 / 50	60	126

ER-STRAIGHT

SHANK
HOLDER/BABY
COLLETCHUCK



FEATURES:

01

Accuracy - 3
micron

03

Available with flat
on shank

02

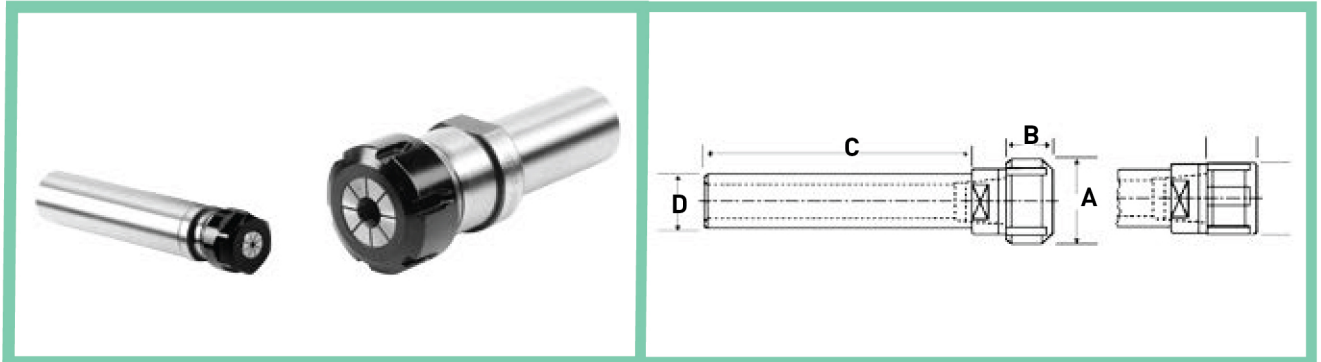
Available in Hex,
Mini & Spanner
type nuts

04

Metric & Inch
sizes available

ER STRAIGHT SHANK – MM SIZES

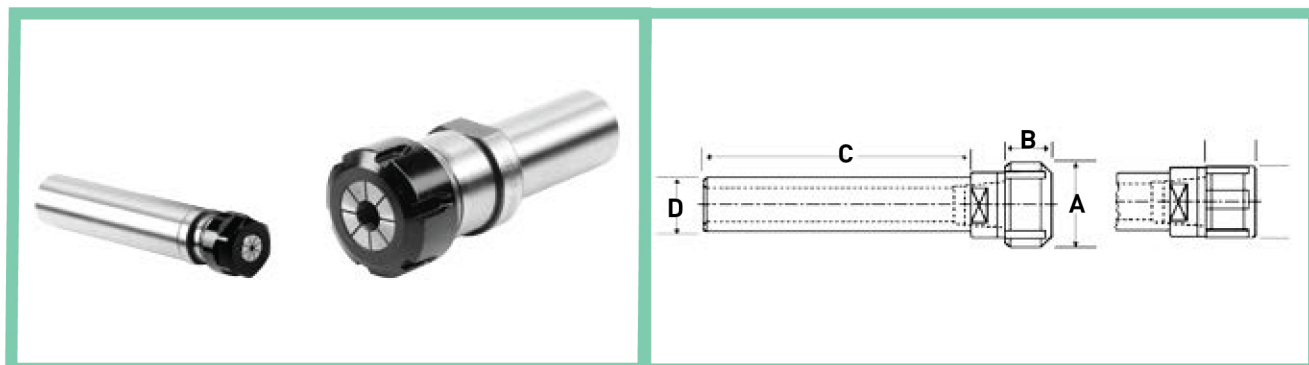
ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS



PART NUMBER	COLLET SERIES	SHANK DIA D	SHANK LENGTH C	NUT DIA A	NUT TYPE
C10-ER8M-100	ER8	10	100	12	MINI
C12-ER11M-100	ER11	12	100	16	MINI
C16-ER11M-100	ER11	16	100	16	MINI
C16-ER11H-50	ER11	16	50	19	HEX
C16-ER11H-100	ER11	16	100	19	HEX
C16-ER16M-100	ER16	16	100	22	MINI
C20-ER16M-100	ER16	20	100	22	MINI
C16-ER16H-100	ER16	16	100	28	HEX
C16-ER16H-150	ER16	16	150	28	HEX
C20-ER16H-50	ER16	20	50	28	HEX
C20-ER16H-100	ER16	20	100	28	HEX
C20-ER16H-150	ER16	20	150	28	HEX
C25-ER16H-100	ER16	25	100	28	HEX
C25-ER16H-150	ER16	25	150	28	HEX
C20-ER20M-100	ER20	20	100	28	MINI
C20-ER20H-50	ER20	20	50	34	HEX
C20-ER20H-100	ER20	20	100	34	HEX
C25-ER20H-100	ER20	25	100	34	HEX
C25-ER20H-150	ER20	25	150	34	HEX
C20-ER25S-50	ER25	20	50	42	SPANNER
C20-ER25S-100	ER25	20	100	42	SPANNER
C25-ER25S-100	ER25	25	100	42	SPANNER
C25-ER25S-150	ER25	25	150	42	SPANNER
C32-ER25S-100	ER25	32	100	42	SPANNER
C25-ER32S-100	ER32	25	100	50	SPANNER
C32-ER32S-100	ER32	32	100	50	SPANNER
C32-ER32S-150	ER32	32	150	50	SPANNER
C40-ER32S-100	ER32	40	100	50	SPANNER
C32-ER40S-100	ER40	32	100	63	SPANNER
C40-ER40S-100	ER40	40	100	63	SPANNER

ER STRAIGHT SHANK-INCH SIZES

ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS



PART NUMBER	COLLET SERIES	SHANK DIA D	SHANK LENGTH C	NUT DIA A	NUT LENGTH B	NUT TYPE	SHANK TYPE
S-E08R05-37N-R	ER08	0.500	3.70	0.48	0.44	Mini	Round
S-E11R05-30N-R	ER11	0.500	3.00	0.63	0.44	Mini	Round
S-E11R05-60N-R	ER11	0.500	6.00	0.63	0.44	Mini	Round
S-E11R05-62H-R	ER11	0.500	6.20	0.75	0.44	Hex	Round
S-E11R06-20N-R	ER11	0.625	2.00	0.63	0.44	Mini	Round
S-E11R06-30N-R	ER11	0.625	3.00	0.63	0.44	Mini	Round
S-E11R06-60N-R	ER11	0.625	6.00	0.63	0.44	Mini	Round
S-E11R06-62H-R	ER11	0.625	6.20	0.75	0.44	Hex	Round
S-E16R05-60N-R	ER16	0.500	6.00	0.87	0.67	Mini	Round
S-E16R06-30N-R	ER16	0.625	3.00	0.87	0.67	Mini	Round
S-E16R06-37H-R	ER16	0.625	3.76	1.10	0.67	Hex	Round
S-E16R06-60N-R	ER16	0.625	6.00	0.87	0.67	Mini	Round
S-E16R07-20H-R	ER16	0.750	2.00	1.10	0.67	Hex	Round
S-E16R07-25H-R	ER16	0.750	2.50	1.10	0.67	Hex	Round
S-E16R07-30N-R	ER16	0.750	3.00	0.87	0.67	Mini	Round
S-E16R07-36H-R	ER16	0.750	3.65	1.10	0.67	Hex	Round
S-E16R07-40H-R	ER16	0.750	4.00	1.10	0.67	Hex	Round
S-E16R07-52N-R	ER16	0.750	5.28	0.87	0.67	Mini	Round
S-E16R07-60H-R	ER16	0.750	6.00	1.10	0.67	Hex	Round
S-E16R07-74N-R	ER16	0.750	7.44	0.87	0.67	Mini	Round
S-E16R10-25H-R	ER16	1.000	2.50	1.10	0.67	Hex	Round
S-E16R10-40H-R	ER16	1.000	4.00	1.10	0.67	Hex	Round
S-E16R10-60H-R	ER16	1.000	6.00	1.10	0.67	Hex	Round
S-E20R07-25H-R	ER20	0.750	2.50	1.34	0.75	Hex	Round
S-E20R07-40N-R	ER20	0.750	4.00	1.10	0.75	Mini	Round
S-E20R07-40H-R	ER20	0.750	4.00	1.34	0.75	Hex	Round
S-E20R07-60H-R	ER20	0.750	6.00	1.34	0.75	Hex	Round
S-E20R10-25H-R	ER20	1.000	2.50	1.34	0.75	Hex	Round
S-E20R10-40H-R	ER20	1.000	4.00	1.34	0.75	Hex	Round
S-E20R10-52N-R	ER20	1.000	5.20	1.10	0.75	Mini	Round
S-E20R10-55N-R	ER20	1.000	5.50	1.10	0.75	Mini	Round

ER-STRAIGHT SHANK-INCH SIZES

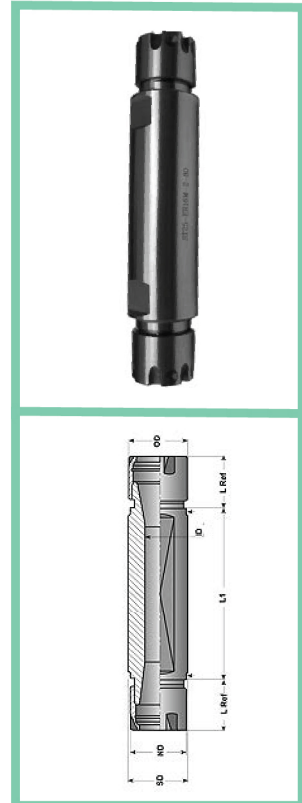
ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS

PART NUMBER	COLLET SERIES	SHANK DIA D	SHANK LENGTH C	NUT DIA A	NUT LENGTH B	NUT TYPE	SHANK TYPE
S-E20R10-60H-R	ER20	1.000	6.00	1.34	0.75	Hex	Round
S-E25R05-40S-R	ER25	0.500	4.00	1.65	0.79	Spanner	Round
S-E25R07-25S-R	ER25	0.750	2.50	1.65	0.79	Spanner	Round
S-E25R07-40S-R	ER25	0.750	4.00	1.65	0.79	Spanner	Round
S-E25R07-60S-R	ER25	0.750	6.00	1.65	0.79	Spanner	Round
S-E25R10-25S-R	ER25	1.000	2.50	1.65	0.79	Spanner	Round
S-E25R10-40N-R	ER25	1.000	4.00	1.38	0.79	Mini	Round
S-E25R10-40S-R	ER25	1.000	4.00	1.65	0.79	Spanner	Round
S-E25R10-60S-R	ER25	1.000	6.00	1.65	0.79	Spanner	Round
S-E32R10-20S-R	ER 32	1.000	2.00	1.97	0.87	Spanner	Round
S-E32R10-25S-R	ER 32	1.000	2.50	1.97	0.87	Spanner	Round
S-E32R10-40S-R	ER 32	1.000	4.00	1.97	0.87	Spanner	Round
S-E32R10-60S-R	ER 32	1.000	6.00	1.97	0.87	Spanner	Round
S-E32R12-20S-R	ER 32	1.250	2.00	1.97	0.87	Spanner	Round
S-E32R12-25S-R	ER 32	1.250	2.50	1.97	0.87	Spanner	Round
S-E32R12-40S-R	ER 32	1.250	4.00	1.97	0.87	Spanner	Round
S-E32R12-60S-R	ER 32	1.250	6.00	1.97	0.87	Spanner	Round
S-E40R10-25S-R	ER 40	1.000	2.50	2.48	0.98	Spanner	Round
S-E40R10-40S-R	ER 40	1.000	4.00	2.48	0.98	Spanner	Round
S-E40R10-60S-R	ER 40	1.000	6.00	2.48	0.98	Spanner	Round
S-E40R12-25S-R	ER 40	1.250	2.50	2.48	0.98	Spanner	Round
S-E40R12-40S-R	ER 40	1.250	4.00	2.48	0.98	Spanner	Round
S-E40R12-60S-R	ER 40	1.250	6.00	2.48	0.98	Spanner	Round

ER-DOUBLE ENDED STRAIGHT SHANKS

ER STRAIGHT SHANK HOLDER / BABY COLLET CHUCKS

PART NUMBER	COLLET SERIES	SHANK DIA.(SD)	SHANK LENGTH (L1)	OAL(mm)	NUT DIA
D-ER08F06-15N	ER08	5/8"	15mm	45	12
D-ER08F06-25N		5/8"	25mm	55	
D-ER11F16M40N	ER11	16mm	40mm	79	16
D-ER11F16M50N		16mm	50mm	90	
D-ER11F07-25N	ER11	3/4"	25mm	65	16
D-ER11F07-40N		3/4"	40mm	80	
D-ER11F07-70N		3/4"	70mm	110	
D-ER11F07-90N		3/4"	90mm	130	
D-ER11F20M30N	ER11	20mm	30mm	70	16
D-ER11F20M50N		20mm	50mm	90	
D-ER11F20M70N		20mm	70mm	109	
D-ER16F07-55N	ER16	3/4"	55mm	107	22
D-ER16F20M30N	ER16	20mm	30mm	85	22
D-ER16F20M55N		20mm	55mm	107	
D-ER16F22M55N	ER16	22mm	55mm	111	22
D-ER16F22M75N		22mm	75mm	131	
D-ER16F25M36N	ER16	25mm	36mm	92	22
D-ER16F25M62N		25mm	62mm	118	
D-ER16F10-30N	ER16	1"	30mm	85	
D-ER16F10-62N		1"	62mm	118	22
D-ER20F25M36N	ER20	25mm	36mm	92	28
D-ER20F25M66N		25mm	66mm	122	
D-ER20F32M55N	ER20	32mm	55mm	111	28
D-ER20F32M75N		32mm	75mm	131	



TOOL HOLDER BLANKS / BORING BAR BLANKS



FEATURES:

- 01** Balanced to 15000 RPM at G6.3 & 25000 RPM at G2.5
- 02** Accuracy: 3 Micron or 0.0002" TIR or better
- 03** AT3 Class Taper Accuracy
- 04** H5 bore tolerance for optimum surface contact with cutting tool
- 05** High precision pilot holes
- 06** Hardness: HRC 56-58
- 07** Carbon depth: 0.8mm +/-0.2mm
- 08** Surface Roughness: Ra<0.005mm
- 09** Crafted from case hardened alloy steel

TOOL HOLDER BLANKS / BORING BAR BLANKS

FULL VARIETY AVAILABLE
BT, SK, CAT & HSK TAPER

ITEM NUMBER	DIAMETER	LENGTH
BT30 Taper		
BT40 Taper		
BT50 Taper		
SK30 Taper		
SK40 Taper	AS PER CUSTOMER REQUIREMENT.	
SK50 Taper		
CAT30 Taper		
CAT40 Taper	FULL RANGE AVAILABLE	
CAT50 Taper		
HSK50A Taper		
HSK63A Taper		
HSK100A Taper		

