2026
TOOLING SYSTEM



GESAC

GESAC Profile

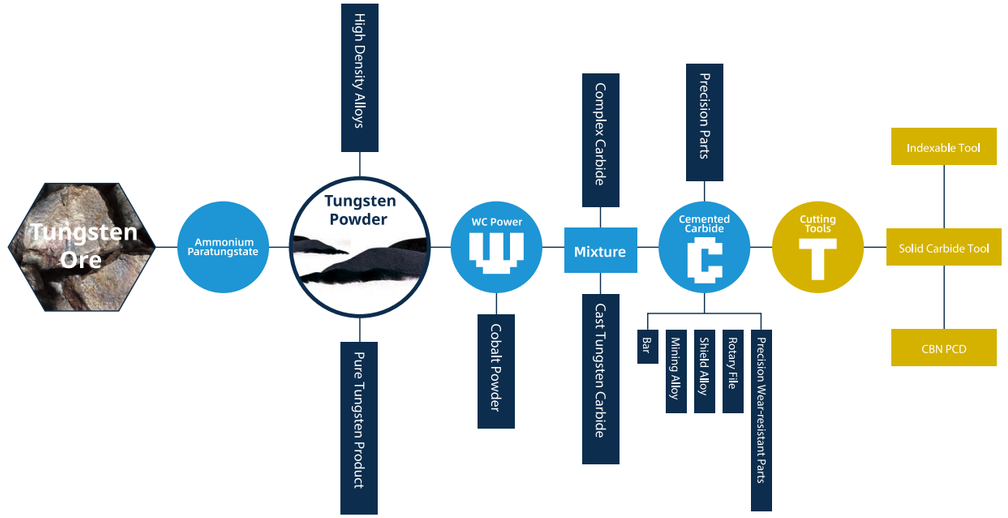
Xiamen Golden Egret Special Alloy Co., Ltd. (GESAC), founded in 1989, is a national high-tech enterprise with Chinese-foreign joint investment. It is also a key member of Xiamen Tungsten Co., Ltd., a state-owned listed company. GESAC is committed to the research, development and production of tungsten series products such as high-quality tungsten powder materials, cemented carbide and precision cutting tools, as well as the provision of professional solutions for the industry. It is a renowned supplier of tungsten powder, cemented carbide and cutting tools.

Relying on the product integration technology research and development of the complete tungsten industry chain and the practical and innovative management concepts, GESAC has always maintained a strong momentum of development. It provides global users with tungsten powder products and services with the highest cost performance, and offers excellent products and comprehensive solutions for solving the problems of high hardness, high temperature resistance and wear resistance in the modern industrial field. Its customers are distributed around the world, enjoying a high reputation both at home and abroad.

GESAC currently has more than 3,000 employees, five production bases, four overseas sales companies and one enterprise technology center. It has independently undertaken and completed a number of projects such as the “National Science and Technology Support Program Projects”, the “National Science and Technology Major Projects”, the “National Torch Program Projects”, the “National Key New Product” development projects and key research topics at the provincial and municipal levels. It has been rated as a “Backbone Enterprise in Strategic Emerging Industries”, an “Innovative Enterprise” and an “Advanced Technology Enterprise”. It has won many patents and awards, including the second prize of the National Science and Technology Progress Award. Its cutting tools have obtained more than 400 patents, including invention patents, utility model patents and design patents.

Product Chain

GESAC has a complete tungsten product chain ranging from ore mining to tungsten powder, cemented carbide products and precision cutting tools.



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Ordering Code Rule

BT30 – SF 06 – 200 L – S

① ② ③ ④ ⑤ ⑥

①Taper Style
BT30
BT40
BT50
HSK40A/E
HSK50A
HSK63A
HSK100A

②Product Model	
GHP	Hydraulic Chuck
SF	Shrink Fit Holder
ER	ER Spring Collet Chuck
GLC	Power Milling Chuck For Heavy Duty
FMB	Face Mill Holder
V	Tapping Chuck
SC	Soltting Cutter Holders
SLN	Side-lock Holder
SLNB	Side-lock Holder （2°）
MTY	Morse Taper Holders with Tang
MTW	Morse Taper Holders without Tang

③Clamping Diameter

④Effective Length

⑤Extended Code	
Standard Specification	None
Extended Type	L

⑥Performance Upgrade Code	
Common Type	None
Upgrade Type	S

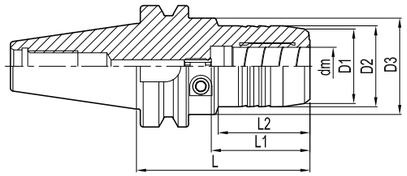
A

BT Tooling System



Hydraulic Chuck

GHP





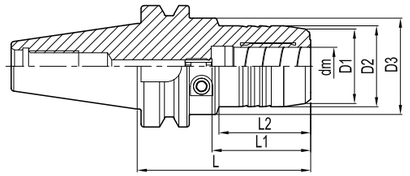


Ordering Code		Dimension (mm)							Collets	Weight(kg)	Stock
		dm	D1	D2	D3	L	L1	L2			
BT30-	GHP06-50.8-S	6	23	26	46	50.8	37	15.6	-	0.6	○
	GHP06-80-S	6	22	26	50	80	37	33	-	0.8	○
	GHP08-50.8-S	8	25	28	46	50.8	37	15.6	-	0.6	○
	GHP08-80-S	8	24	28	50	80	37	33	-	0.8	○
	GHP10-50.8-S	10	27	30	46	50.8	41	15.6	-	0.6	●
	GHP10-80-S	10	26	30	50	80	41	34	-	0.8	○
	GHP12-50.8-S	12	29	32	46	50.8	46	15.6	OD12	0.6	●
	GHP12-90-S	12	28	32	50	90	46	44.5	OD12	0.9	○
	GHP14-90-S	14	30	34	50	90	46	44.5	-	0.9	○
	GHP16-90-S	16	34	38	50	90	49	47	-	1	●
	GHP18-90-S	18	36	40	50	90	49	47	-	1	○
	GHP20-90-S	20	38	42	50	90	51	50	OD20	1	●
BT40-	GHP06-65-S	6	22	26	50	65	37	18	-	1.2	●
	GHP06-90-S	6	22	26	50	90	37	43	-	1.4	●
	GHP06-120-S	6	22	26	50	120	37	73	-	1.5	○
	GHP06-140-S	6	22	26	50	140	37	93	-	1.6	●
	GHP06-150-S	6	22	26	50	150	37	103	-	1.7	○
	GHP06-200-S	6	22	26	50	200	37	153	-	2	○
	GHP08-65-S	8	24	28	50	65	37	20	-	1.3	●
	GHP08-90-S	8	24	28	50	90	37	44.5	-	1.4	●
	GHP08-120-S	8	24	28	50	120	37	74.5		1.5	○
	GHP08-140-S	8	24	28	50	140	37	94	-	1.6	●
	GHP08-150-S	8	24	28	50	150	37	104.5		1.7	○
	GHP08-200-S	8	24	28	50	200	37	154.5		2.1	○
	GHP10-65-S	10	26	30	50	65	41	21	-	1.3	●
	GHP10-90-S	10	26	30	50	90	41	44.5	-	1.4	●
	GHP10-120-S	10	26	30	50	120	41	74.5	-	1.6	○
	GHP10-140-S	10	26	30	50	140	41	94	-	1.7	●
	GHP10-150-S	10	26	30	50	150	41	104.5	-	1.8	○
	GHP10-200-S	10	26	30	50	200	41	154.5	-	2.2	○

● Stock ○ Available Upon Order

Hydraulic Chuck

GHP





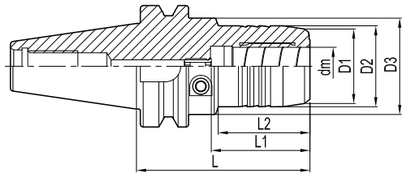


Ordering Code		Dimension (mm)							Collets	Weight(kg)	Stock
		dm	D1	D2	D3	L	L1	L2			
BT40-	GHP12-65-S	12	28	32	53	65	46	22	OD12	1.3	●
	GHP12-90-S	12	28	32	50	90	46	44.5	OD12	1.4	●
	GHP12-120-S	12	28	32	50	120	46	74.5	OD12	1.4	○
	GHP12-140-S	12	28	32	50	140	46	95	OD12	1.8	●
	GHP12-150-S	12	28	32	50	150	46	104.5	OD12	2	○
	GHP12-200-S	12	28	32	50	200	46	154.5	OD12	2.4	○
	GHP14-65-S	14	30	34	56	65	46	22	-	1.3	●
	GHP14-90-S	14	30	34	50	90	46	44.5	-	1.5	●
	GHP14-140-S	14	30	34	50	140	46	95	-	1.8	●
	GHP14-150-S	14	30	34	50	150	46	104.5	-	1.9	○
	GHP16-65-S	16	34	38	56	65	49	20	-	1.4	●
	GHP16-90-S	16	34	38	50	90	49	47.5	-	1.5	●
	GHP16-120-S	16	34	38	50	120	49	77.5	-	1.7	○
	GHP16-140-S	16	34	38	50	140	49	96	-	1.9	●
	GHP16-150-S	16	34	38	50	150	49	107.5	-	2.1	○
	GHP16-200-S	16	34	38	50	200	49	157.5	-	2.5	○
	GHP18-75-S	18	36	40	60	75	49	30	-	1.4	●
	GHP18-90-S	18	36	40	50	90	49	47.5	-	1.5	●
	GHP18-140-S	18	36	40	50	140	49	97	-	1.9	●
	GHP18-150-S	18	36	40	50	150	49	107.5	-	2.1	○
	GHP20-75-S	20	38	50		75	51	48	OD20	1.5	●
	GHP20-90-S	20	38	42	50	90	51	47.5	OD20	1.6	●
	GHP20-120-S	20	38	42	50	90	51	47.5	OD20	1.8	○
	GHP20-140-S	20	38	42	50	140	51	97	OD20	2.1	●
	GHP20-150-S	20	38	42	50	150	51	107.5	OD20	2.1	○
	GHP20-200-S	20	38	42	50	200	51	157.5	OD20	2.5	○
	GHP25-83-S	25	53	57	72	83	57	24.9		1.6	○
	GHP25-100-S	25	53	57	63	100	57	57	-	2.2	●
	GHP25-135-S	25	53	57	63	135	57	92	-	2.9	●
	GHP32-83-S	32	60	64	80	83	61	24.9	OD32	2	●
	GHP32-105-S	32	60	64		105	61		OD32	2.5	○
	GHP32-135-S	32	60	64	75	135	61	85	OD32	3.2	●

● Stock ○ Available Upon Order

Hydraulic Chuck

GHP





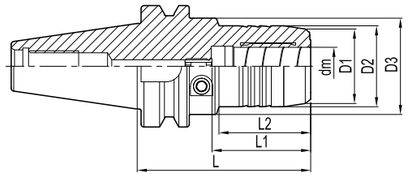


Ordering Code		Dimension (mm)							Collets	Weight(kg)	Stock
		dm	D1	D2	D3	L	L1	L2			
BT50-	GHP06-90-S	6	22	26	50	90	37	29.5	-	4	●
	GHP06-120-S	6	22	26	50	120	37	34	-	4.1	○
	GHP06-140-S	6	22	26	50	140	37	34	-	4.3	○
	GHP06-150-S	6	22	26	50	150	37	89.5	-	4.5	○
	GHP08-90-S	8	24	28	50	90	37	30	-	3.9	●
	GHP08-120-S	8	24	28	50	120	37	34	-	4.1	○
	GHP08-140-S	8	24	28	50	140	37	34	-	4.2	○
	GHP08-150-S	8	24	28	50	150	37	80	-	4.5	○
	GHP10-90-S	10	26	30	50	90	41	31	-	4	○
	GHP10-120-S	10	26	30	50	120	41	34	-	4.2	○
	GHP10-140-S	10	26	30	50	140	41	34	-	4.3	○
	GHP10-150-S	10	26	30	50	150	41	93	-	4.5	○
	GHP12-90-S	12	28	32	44.5	90	46	34	OD12	4	●
	GHP12-120-S	12	28	32	44.5	120	46	64	OD12	4.2	○
	GHP12-140-S	12	28	32	50	140	46	95	OD12	4.3	○
	GHP12-150-S	12	28	32	50	150	46	94	OD12	4.5	○
	GHP12-200-S	12	28	32	50	200	46	145	OD12	5.2	○
	GHP14-90-S	14	30	34	44.5	90	46	34	-	4	●
	GHP14-100-S	14	30	34	50	100	46	44	-	4	○
	GHP14-120-S	14	30	34	50	120	46	64	-	4.1	○
	GHP14-140-S	14	30	34	50	140	46	84	-	4.3	○
	GHP16-90-S	16	34	38	44.5	90	49	34	-	4	●
	GHP16-100-S	16	34	38	50	100	49	44	-	4.1	○
	GHP16-120-S	16	34	38	50	120	49	65	-	4.3	○
	GHP16-140-S	16	34	38	50	140	49	85	-	4.4	●
	GHP18-90-S	18	36	40	44.5	90	49	34	-	4.1	●
	GHP18-100-S	18	36	40	50	100	49	44	-	4.2	○
	GHP18-120-S	18	36	40	50	120	49	62	-	4.3	○
	GHP18-140-S	18	36	40	50	140	49	82	-	4.5	○
	GHP20-90-S	20	38	42	44.5	90	51	34	OD20	4	●
	GHP20-105-S	20	38	42	50	105	51	47.5	OD20	4.2	○
	GHP20-120-S	20	38	42	50	120	51	65	OD20	4.3	●

● Stock ○ Available Upon Order

Hydraulic Chuck

GHP







Ordering Code		Dimension (mm)							Collets	Weight(kg)	Stock
		dm	D1	D2	D3	L	L1	L2			
BT50-	GHP20-140-S	20	38	42	50	140	51	85	OD20	4.6	●
	GHP20-150-S	20	38	42	50	150	51	92.5	OD20	4.7	○
	GHP20-200-S	20	38	42	50	200	51	142.5	OD20	5.5	○
	GHP25-90-S	25	53	57	66	90	57	34	-	4.8	○
	GHP25-110-S	25	53	57	63	110	57	54	-	5	○
	GHP32-90-S	32	60	64	72	90	61	34	OD32	4.6	●
	GHP32-115-S	32	60	64	75	115	61	58	OD32	5.1	○
	GHP32-150-S	32	60	64	75	150	61	92	OD32	6	●
	GHP32-200-S	32	60	64	75	200	61	141	OD32	7.5	○

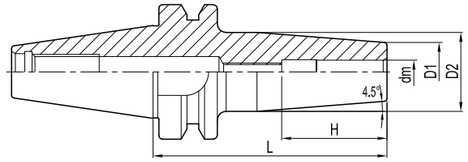
Notice: Wrench and collet shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32
Hex Wrench	TH05T-L-S						TH06T-L-S	

Shrink Fit Holder

SF





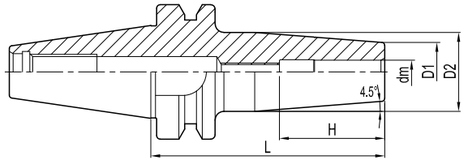
Tolerance class of shank h6

Ordering Code		Dimension (mm)					Weight(kg)	Stock
		dm	D1	D2	L	H		
BT30-	SF03-60-S	3	10	-	60	-	0.4	○
	SF04-60-S	4	10	-	60	-	0.4	○
	SF05-60-S	5	10	-	60	-	0.4	○
	SF06-80-S	6	21	27	80	36	0.6	●
	SF06-105-S	6	21	27	105	36	0.7	○
	SF06-120-S	6	21	27	120	36	0.7	○
	SF08-80-S	8	21	27	80	36	0.6	○
	SF08-105-S	8	21	27	105	36	0.8	●
	SF08-120-S	8	21	27	120	36	0.9	○
	SF10-80-S	10	24	32	80	42	0.6	○
	SF10-105-S	10	24	32	105	42	0.8	○
	SF10-120-S	10	24	32	120	42	0.9	○
	SF12-80-S	12	24	32	80	47	0.6	○
	SF12-105-S	12	24	32	105	47	0.8	○
	SF12-120-S	12	24	32	120	47	0.9	○
	SF14-80-S	14	27	34	80	47	0.7	○
	SF14-105-S	14	27	34	105	47	0.8	○
	SF14-120-S	14	27	34	120	47	0.9	○
	SF16-80-S	16	27	34	80	50	0.7	○
	SF16-105-S	16	27	34	105	50	0.8	○
	SF16-120-S	16	27	34	120	50	0.9	○
	SF18-80-S	18	33	42	80	50	0.8	○
	SF20-90-S	20	33	42	90	52	0.9	○
BT40-	SF03-80-S	3	10	-	80	-	1.0	○
	SF03-120-S	3	10	-	120		1.3	○
	SF03-160-S	3	10		160		1.5	○
	SF04-80-S	4	10	-	80	-	1.0	○
	SF04-120-S	4	10		120		1.3	○
	SF04-160-S	4	10		160		1.5	○
	SF05-80-S	5	10	-	80	-	1.0	○
	SF05-120-S	5	10		120		1.6	○
	SF05-160-S	5	10		160		1.5	○

● Stock ○ Available Upon Order

Shrink Fit Holder

SF





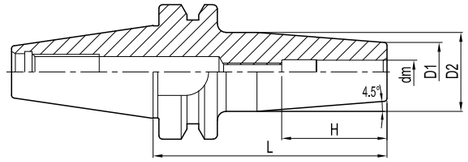
Tolerance class of shank h6

Ordering Code		Dimension (mm)					Weight(kg)	Stock
		dm	D1	D2	L	H		
BT40-	SF06-90-S	6	21	27	90	36	1.2	●
	SF06-120-S	6	21	27	120	36	1.3	●
	SF06-160-S	6	21	32	160	36	1.6	●
	SF06-200-S	6	21	32	200	36	1.9	●
	SF08-90-S	8	21	27	90	36	1.2	●
	SF08-120-S	8	21	27	120	36	1.3	●
	SF08-160-S	8	21	32	160	36	1.6	●
	SF08-200-S	8	21	32	200	36	1.9	●
	SF10-90-S	10	24	32	90	42	1.2	●
	SF10-120-S	10	24	32	120	42	1.3	●
	SF10-160-S	10	24	34	160	42	1.6	●
	SF10-200-S	10	24	34	200	42	1.9	●
	SF12-90-S	12	24	32	90	47	1.2	●
	SF12-120-S	12	24	32	120	47	1.3	●
	SF12-160-S	12	24	34	160	47	1.6	○
	SF12-200-S	12	24	34	200	47	1.9	○
	SF14-90-S	14	27	34	90	47	1.3	●
	SF14-120-S	14	27	34	120	47	1.4	○
	SF14-160-S	14	27	42	160	47	1.8	●
	SF14-200-S	14	27	42	200	47	2.3	○
	SF16-90-S	16	27	34	90	50	1.2	●
	SF16-120-S	16	27	34	120	50	1.3	○
	SF16-160-S	16	27	42	160	50	1.8	○
	SF16-200-S	16	27	42	200	50	2.2	○
	SF18-90-S	18	33	42	90	50	1.5	●
	SF18-120-S	18	33	42	120	50	1.6	○
	SF18-160-S	18	33	42	160	50	2.2	○
	SF18-200-S	18	33	42	200	50	2.8	○
	SF20-90-S	20	33	42	90	52	1.3	●
	SF20-120-S	20	33	42	120	52	1.6	○
	SF20-160-S	20	33	42	160	52	2.1	○
	SF20-200-S	20	33	42	200	52	2.7	○

● Stock ○ Available Upon Order

Shrink Fit Holder

SF





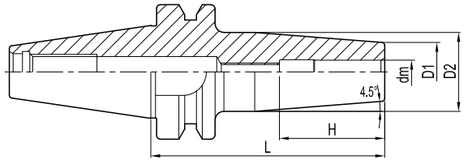
Tolerance class of shank h6

Ordering Code		Dimension (mm)					Weight(kg)	Stock
		dm	D1	D2	L	H		
BT40-	SF25-90-S	25	44	53	90	58	1.5	○
	SF25-100-S	25	44	53	100	58	1.8	○
	SF25-120-S	25	44	53	120	58	1.7	○
	SF25-160-S	25	44	53	160	58	2.2	●
	SF25-200-S	25	44	53	200	58	3.1	○
	SF32-100-S	32	44	53	100	58	1.6	●
	SF32-130-S	32	44	53	130	58	2.1	○
	SF32-160-S	32	44	53	160	58	2.6	○
	SF32-200-S	32	44	53	200	58	3.5	○
BT50-	SF06-100-S	6	21	27	100	36	3.7	●
	SF06-120-S	6	21	27	120	36	3.8	●
	SF06-160-S	6	21	32	160	36	4.1	●
	SF06-200-S	6	21	32	200	36	4.4	●
	SF08-100-S	8	21	27	100	36	3.7	●
	SF08-120-S	8	21	27	120	36	3.8	●
	SF08-160-S	8	21	32	160	36	4.1	●
	SF08-200-S	8	21	32	200	36	4.4	●
	SF10-100-S	10	24	32	90	42	3.8	●
	SF10-120-S	10	24	32	120	42	3.9	●
	SF10-160-S	10	24	34	160	42	4.2	●
	SF10-200-S	10	24	34	200	42	4.5	●
	SF12-100-S	12	24	32	90	47	3.8	●
	SF12-120-S	12	24	32	120	47	3.9	○
	SF12-160-S	12	24	34	160	47	4.2	●
	SF12-200-S	12	24	34	200	47	4.5	●
	SF14-100-S	14	27	34	100	47	3.9	●
	SF14-120-S	14	27	34	120	47	4	○
	SF14-160-S	14	27	42	160	47	4.4	○
	SF14-200-S	14	27	42	200	47	4.9	○

● Stock ○ Available Upon Order

Shrink Fit Holder

SF





Tolerance class of shank h6

Ordering Code	Dimension (mm)					Weight(kg)	Stock
	dm	D1	D2	L	H		
SF16-100-S	16	27	34	100	50	3.8	○
SF16-120-S	16	27	34	120	50	3.9	○
SF16-160-S	16	27	42	160	50	4.4	●
SF16-200-S	16	27	42	200	50	4.8	●
SF18-100-S	18	33	42	100	50	4.1	●
SF18-120-S	18	33	42	120	50	4.2	○
SF18-160-S	18	33	51	160	50	4.8	●
SF18-200-S	18	33	51	200	50	5.4	○
SF20-100-S	20	33	42	100	52	3.9	●
SF20-120-S	20	33	42	120	52	4.2	○
SF20-160-S	20	33	51	160	52	4.7	○
SF20-200-S	20	33	51	200	52	5.3	○
SF25-100-S	25	44	53	100	58	4.1	○
SF25-110-S	25	44	53	110	58	4.4	○
SF25-135-S	25	44	53	135	58	4.3	○
SF25-160-S	25	44	60	160	58	4.8	○
SF25-200-S	25	44	60	200	58	5.7	○
SF32-100-S	32	44	53	100	58	4.1	○
SF32-110-S	32	44	53	110	58	4.2	●
SF32-135-S	32	44	53	135	58	4.7	○
SF32-160-S	32	44	60	160	58	5.2	○
SF32-200-S	32	44	60	200	58	6.1	○

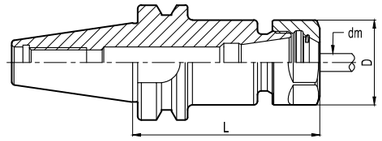
● Stock ○ Available Upon Order

Feature

Balanced	Runout (X3D)
G2.5; 25,000 rpm	＜0.003 mm

ER Spring Collet Chuck

ER





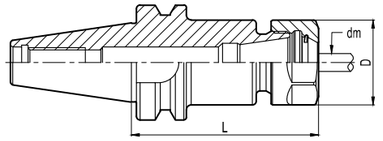


Ordering Code		Dimension (mm)			Weight(kg)	Stock
		dm	D	L		
BT30-	ER11-60-S	1.0~7	19	60	0.4	●
	ER11-90-S	1.0~7	19	90	0.5	○
	ER16-60-S	1.0~10	28	60	0.5	●
	ER16-90-S	1.0~10	28	90	0.6	●
	ER16-120-S	1.0~10	28	120	0.7	○
	ER20-60-S	1.0~13	34	60	0.5	●
	ER20-90-S	1.0~13	34	90	0.7	●
	ER20-120-S	1.0~13	34	120	0.9	○
	ER25-60-S	1.0~16	42	60	0.7	●
	ER25-90-S	1.0~16	42	90	0.9	○
	ER25-120-S	1.0~16	42	120	1.2	○
	ER32-60-S	2.0~20	50	60	0.6	●
	ER32-90-S	2.0~20	50	90	0.9	●
BT40-	ER11-70-S	1.0~7	19	70	1	●
	ER11-90-S	1.0~7	19	90	1	○
	ER11-100-S	1.0~7	19	100	1.1	○
	ER11-120-S	1.0~7	19	120	1.1	●
	ER11-160-S	1.0~7	19	160	1.3	○
	ER16-70-S	1.0~10	28	70	1.1	●
	ER16-90-S	1.0~10	28	90	1.1	○
	ER16-100-S	1.0~10	28	100	1.2	●
	ER16-120-S	1.0~10	28	120	1.3	●
	ER16-150-S	1.0~10	28	150	1.4	●
	ER16-160-S	1.0~10	28	160	1.5	○
	ER16-200-S	1.0~10	28	200	1.6	○
	ER20-70-S	1.0~13	34	70	1.1	○
	ER20-80-S	1.0~13	34	80	1.2	●
	ER20-90-S	1.0~13	34	90	1.2	○
	ER20-100-S	1.0~13	34	100	1.3	●
	ER20-120-S	1.0~13	34	120	1.4	●
	ER20-150-S	1.0~13	34	150	1.7	●

● Stock ○ Available Upon Order

ER Spring Collet Chuck

ER





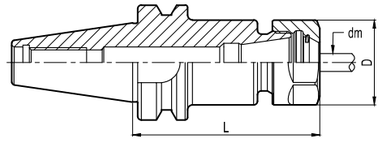


Ordering Code		Dimension (mm)			Weight(kg)	Stock
		dm	D	L		
BT40-	ER20-160-S	1.0~13	34	160	1.8	○
	ER20-200-S	1.0~13	34	200	2	○
	ER25-70-S	1.0~16	42	70	1.2	○
	ER25-80-S	1.0~16	42	80	1.3	●
	ER25-90-S	1.0~16	42	90	1.4	○
	ER25-100-S	1.0~16	42	100	1.5	●
	ER25-120-S	1.0~16	42	120	1.7	●
	ER25-150-S	1.0~16	42	150	2	●
	ER25-160-S	1.0~16	42	160	2.1	○
	ER25-200-S	1.0~16	42	200	2.5	○
	ER32-60-S	2.0~20	50	60	1.1	●
	ER32-70-S	2.0~20	50	70	1.2	○
	ER32-80-S	2.0~20	50	80	1.4	○
	ER32-90-S	2.0~20	50	90	1.5	○
	ER32-100-S	2.0~20	50	100	1.7	●
	ER32-120-S	2.0~20	50	120	2	○
	ER32-150-S	2.0~20	50	150	2.4	●
	ER32-160-S	2.0~20	50	160	2.5	○
	ER32-200-S	2.0~20	50	200	3.1	○
	ER32-250-S	2.0~20	50	250	3.8	○
	ER32-300-S	2.0~20	50	300	4.4	○
	ER32-350-S	2.0~20	50	350	5	○
	ER32-400-S	2.0~20	50	400	5.6	○
	ER40-70-S	3.0~26	63	70	1.3	○
	ER40-80-S	3.0~26	63	80	1.5	●
	ER40-90-S	3.0~26	63	90	1.7	○
	ER40-100-S	3.0~26	63	100	1.9	●
	ER40-120-S	3.0~26	63	120	2.3	●
	ER40-150-S	3.0~26	63	150	2.9	●
	ER40-160-S	3.0~26	63	160	3.1	○
	ER40-200-S	3.0~26	63	200	3.9	○

● Stock ○ Available Upon Order

ER Spring Collet Chuck

ER





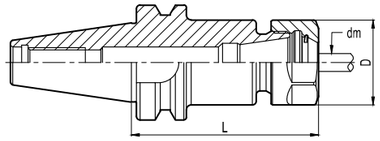


Ordering Code		Dimension (mm)			Weight(kg)	Stock
		dm	D	L		
BT50-	ER11-70-S	1.0~7	19	70	3	○
	ER11-100-S	1.0~7	19	100	3.1	○
	ER16-70-S	1.0~10	28	70	3.6	○
	ER16-80-S	1.0~10	28	80	3.7	●
	ER16-90-S	1.0~10	28	90	3.7	○
	ER16-100-S	1.0~10	28	100	3.8	●
	ER16-120-S	1.0~10	28	120	3.8	●
	ER16-160-S	1.0~10	28	160	4	○
	ER16-165-S	1.0~10	28	165	4	●
	ER16-200-S	1.0~10	28	200	4.2	○
	ER20-70-S	1.0~13	34	70	3.7	○
	ER20-80-S	1.0~13	34	80	3.7	●
	ER20-90-S	1.0~13	34	90	3.8	○
	ER20-100-S	1.0~13	34	100	3.8	●
	ER20-120-S	1.0~13	34	120	3.9	○
	ER20-135-S	1.0~13	34	135	4	●
	ER20-160-S	1.0~13	34	160	4.2	○
	ER20-165-S	1.0~13	34	165	4.2	●
	ER20-200-S	1.0~13	34	200	4.4	●
	ER20-250-S	1.0~13	34	250	4.7	●
	ER25-70-S	1.0~16	42	70	3.8	○
	ER25-80-S	1.0~16	42	80	3.8	●
	ER25-90-S	1.0~16	42	90	3.9	○
	ER25-100-S	1.0~16	42	100	3.9	●
	ER25-120-S	1.0~16	42	120	4.1	●
	ER25-160-S	1.0~16	42	160	4.5	○
	ER25-165-S	1.0~16	42	165	4.5	●
	ER25-200-S	1.0~16	42	200	4.9	●
	ER25-250-S	1.0~16	42	250	5.3	●

● Stock ○ Available Upon Order

ER Spring Collet Chuck

ER







Ordering Code		Dimension (mm)			Weight(kg)	Stock
		dm	D	L		
BT50-	ER32-70-S	2.0~20	50	70	3.7	○
	ER32-90-S	2.0~20	50	90	3.9	●
	ER32-100-S	2.0~20	50	100	4	●
	ER32-120-S	2.0~20	50	120	4.3	●
	ER32-160-S	2.0~20	50	160	4.8	○
	ER32-165-S	2.0~20	50	165	4.9	●
	ER32-200-S	2.0~20	50	200	5.4	●
	ER32-250-S	2.0~20	50	250	6.3	●
	ER32-300-S	2.0~20	50	300	7.1	○
	ER32-350-S	2.0~20	50	350	7.9	○
	ER32-400-S	2.0~20	50	400	8.7	○
	ER40-70-S	3.0~26	63	70	3.6	○
	ER40-90-S	3.0~26	63	90	4.1	○
	ER40-100-S	3.0~26	63	100	4.3	●
	ER40-120-S	3.0~26	63	120	4.8	●
	ER40-165-S	3.0~26	63	165	5.9	●
	ER40-200-S	3.0~26	63	200	6.7	●

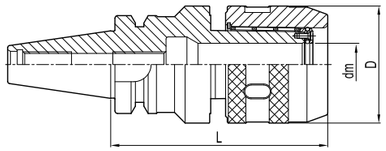
Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	ER11	ER16	ER20	ER25	ER32	ER40
Nut	ER11-A-S	ER16-A-S	ER20-A-S	ER25-UM/RD-S	ER32-UM/RD-S	ER40-UM/RD-S
Wrech	TER11-A-S	TER16-A-S	TER20-A-S	TER25-UMKM/RD-S	TER32-UMKM/RD-S	TER40-UMKM/RD-S

Power Milling Chuck For Heavy Duty

GLC







Ordering Code		Dimension (mm)			Collets	Weight(kg)	Stock
		dm	D	L			
BT30-	GLC20-95-S	20	52	95	GC20	1.4	○
BT40-	GLC20-80-S	20	52	80	GC20	1.9	●
	GLC20-95-S	20	52	95	GC20	1.9	●
	GLC20-120-S	20	52	120	GC20	2.3	●
	GLC32-105-S	32	69	105	GC32	2.6	●
	GLC32-135-S	32	69	135	GC32	3.6	●
BT50-	GLC20-105-S	20	52	105	GC20	4.4	●
	GLC20-135-S	20	52	135	GC20	5	○
	GLC25-110-S	25	60	110	GC25	4.6	●
	GLC25-135-S	25	60	135	GC25	5.3	●
	GLC25-165-S	25	60	165	GC25	6	○
	GLC32-110-S	32	69	110	GC32	5.1	●
	GLC32-135-S	32	69	135	GC32	5.8	●
	GLC32-165-S	32	69	165	GC32	6.7	●
	GLC32-200-S	32	69	200	GC32	7.8	●
	GLC42-110-S	42	86	110	GC42	5.7	●
	GLC42-135-S	42	86	135	GC42	6.9	●
	GLC42-160-S	42	86	160	GC42	8.1	○
	GLC42-165-S	42	86	165	GC42	8.1	●

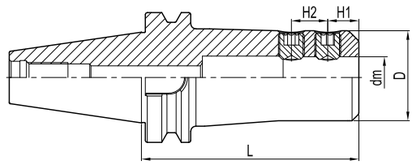
Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	GLC20	GLC25	GLC32	GLC42
Wrench	TGLC20-S	TGLC25-S	TGLC32-S	TGLC42-S

Side-lock Holder

SLN



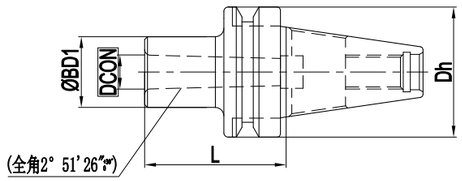


Ordering Code		Dimension (mm)					Screws	Weight(kg)	Stock
		dm	D	L	H1	H2			
BT30-	SLN16-63-S	16	48	63	24	-	SSLN16-S	0.79	○
	SLN20-70-S	20	50	70	25	-	SSLN20-S	1.04	○
BT40-	SLN16-63-S	16	48	63	24	-	SSLN16-S	1.35	○
	SLN16-100-S	16	48	100	24		SSLN16-S	1.7	○
	SLN16-160-S	16	48	160	24		SSLN16-S	2.2	○
	SLN20-63-S	20	52	63	25		SSLN20-S	1.4	○
	SLN20-70-S	20	52	70	25	-	SSLN20-S	1.54	○
	SLN20-100-S	20	52	100	25		SSLN20-S	1.9	○
	SLN20-120-S	20	52	120	25		SSLN20-S	2.2	○
	SLN20-160-S	20	52	160	25		SSLN20-S	2.6	○
	SLN25-90-S	25	65	90	24	25	SSLN25-S	2.5	○
	SLN25-120-S	25	65	120	24	25	SSLN25-S	2.9	○
	SLN25-160-S	25	65	160	24	25	SSLN25-S	3.3	○
	SLN32-100-S	32	72	100	24	28	SSLN32-S	2.84	○
	SLN32-120-S	32	72	120	24	28	SSLN32-S	3.1	○
	SLN32-160-S	32	72	160	24	28	SSLN32-S	3.6	○
BT50-	SLN16-80-S	16	48	80	24	-	SSLN16-S	4.21	○
	SLN16-100-S	16	48	100	24		SSLN16-S	4.6	○
	SLN16-160-S	16	48	160	24		SSLN16-S	5.6	○
	SLN20-80-S	20	50	80	25	-	SSLN20-S	3.95	○
	SLN20-100-S	20	50	100	25		SSLN20-S	4.3	○
	SLN20-120-S	20	50	120	25		SSLN20-S	4.7	○
	SLN20-160-S	20	50	160	25		SSLN20-S	5.5	○
	SLN20-200-S	20	50	200	25		SSLN20-S	6.3	○
	SLN25-100-S	25	65	100	24	25	SSLN25-S	4.28	●
	SLN25-120-S	25	65	120	24	25	SSLN25-S	4.7	○
	SLN25-160-S	25	65	160	24	25	SSLN25-S	5.5	○
	SLN25-200-S	25	65	200	24	25	SSLN25-S	6.3	○
	SLN32-105-S	32	72	105	24	28	SSLN32-S	5.06	●
	SLN32-120-S	32	72	120	24	28	SSLN32-S	5.4	○
	SLN32-160-S	32	72	160	24	28	SSLN32-S	6.2	○
	SLN32-200-S	32	72	200	24	28	SSLN32-S	7	○
	SLN40-120-S	40	80	120	30	32	SSLN40-S	5.89	●
	SLN40-160-S	40	80	160	30	32	SSLN40-S	6.7	○
	SLN40-200-S	40	80	200	30	32	SSLN40-S	7.5	○

● Stock ○ Available Upon Order

Morse Taper Holder with Tang

MTY



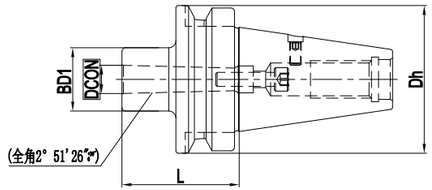


Ordering Code		Dimension (mm)				Weight(kg)	Stock
		Dh	L	BD1	DCON		
BT30-	MTY1-50-S	46	50	25	12.065	0.39	○
	MTY2-60-S	46	60	32	17.780	0.46	○
BT40-	MTY1-45-S	63	45	25	12.065	0.96	○
	MTY1-120-S	63	120	25	12.065	1.27	○
	MTY2-60-S	63	60	32	17.780	0.96	○
	MTY2-120-S	63	120	32	17.780	1.41	○
	MTY3-75-S	63	75	40	23.825	1.15	○
	MTY3-135-S	63	135	40	23.825	1.72	○
	MTY4-95-S	63	95	48	31.267	1.33	○
	MTY4-165-S	63	165	48	31.267	2	○
BT50-	MTY1-45-S	100	45	25	12.065	3.50	○
	MTY1-120-S	100	120	25	12.065	3.86	○
	MTY1-180-S	100	180	25	12.065	4.2	○
	MTY2-45-S	100	45	32	17.780	3.44	○
	MTY2-135-S	100	135	32	17.780	4.06	○
	MTY2-180-S	100	180	32	17.780	4.36	○
	MTY3-75-S	100	75	40	23.825	3.6	○
	MTY3-150-S	100	150	40	23.825	4.39	○
	MTY3-180-S	100	180	40	23.825	4.69	○
	MTY4-75-S	100	75	48	31.267	3.36	○
	MTY4-180-S	100	180	48	31.267	3.66	○
	MTY5-107-S	100	107	63	44.399	4.08	○
	MTY5-210-S	100	210	63	44.399	4.4	○

● Stock ○ Available Upon Order

Morse Taper Holder without Tang

MTW





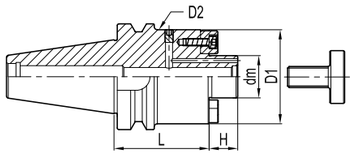
Ordering Code		Dimension (mm)				Weight(kg)	Stock
		Dh	L	BD1	DCON		
BT40-	MTW1-50-S	63	50	25	12.065	1.01	○
	MTW2-64-S	63	64	32	17.780	1.09	○
	MTW3-76-S	63	76	40	23.825	1.22	○
	MTW4-103-S	63	103	50	31.267	1.26	○
BT50-	MTW1-45-S	100	45	25	12.065	3.54	○
	MTW2-60-S	100	60	32	17.780	3.56	○
	MTW3-65-S	100	65	40	23.825	3.61	○
	MTW4-75-S	100	75	50	31.267	3.73	○
	MTW5-105-S	100	105	65	44.399	4.30	○

Notice: Tension screw is not included.

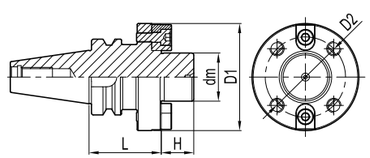
● Stock ○ Available Upon Order

Face Mill Holder

FMB



A



B

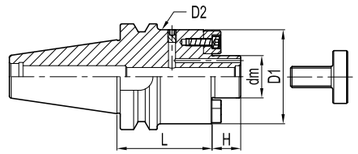


Ordering Code		Figure	Dimension (mm)					Screw	Weight(kg)	Stock
			dm	D1	D2	L	H			
BT30-	FMB16C-60-S	A	16	38	-	60	17	SCAM080300-S	0.7	●
	FMB22C-45-S	A	22	48	-	45	19	SCAM100300-S	0.7	●
	FMB22C-60-S	A	22	48		60	19	SCAM100300-S	0.8	○
	FMB22C-100-S	A	22	48		100	19	SCAM100300-S	1.1	○
	FMB27C-45-S	A	27	60	-	45	21	SXM27-S	1	●
	FMB32C-50-S	A	32	78	-	50	24	SXM32-S	1.5	○
BT40-	FMB16C-55-S	A	16	38		55	17	SCAM080300-S	1.2	○
	FMB16C-60-S	A	16	38	-	60	17	SCAM080300-S	1.3	●
	FMB16C-90-S	A	16	38	-	90	17	SCAM080300-S	1.5	●
	FMB16C-100-S	A	16	38		100	17	SCAM080300-S	1.6	○
	FMB16C-120-S	A	16	38	-	120	17	SCAM080300-S	1.7	●
	FMB22C-45-S	A	22	48		45	19	SCAM100300-S	1.3	○
	FMB22C-55-S	A	22	48		55	19	SCAM100300-S	1.4	○
	FMB22C-60-S	A	22	48	-	60	19	SCAM100300-S	1.4	●
	FMB22C-90-S	A	22	48	-	90	19	SCAM100300-S	1.7	●
	FMB22C-100-S	A	22	48		100	19	SCAM100300-S	1.8	○
	FMB22C-105-S	A	22	48		105	19	SCAM100300-S	1.9	○
	FMB22C-120-S	A	22	48	-	120	19	SCAM100300-S	2.1	●
	FMB22C-150L-S	A	22	42	60	150	19	SCAM100300-S	3	●
	FMB22C-200L-S	A	22	42	60	200	19	SCAM100300-S	3.8	●
	FMB22C-250L-S	A	22	42	60	250	19	SCAM100300-S	4.6	●
	FMB22C-300L-S	A	22	42	60	300	19	SCAM100300-S	5.5	●
	FMB27C-60-S	A	27	60	-	60	21	SXM27-S	1.9	●
	FMB27C-90-S	A	27	60	-	90	21	SXM27-S	2.5	●
	FMB27C-120-S	A	27	60	-	120	21	SXM27-S	3.2	●
	FMB32C-60-S	A	32	78	-	60	24	SXM32-S	2.3	●
	FMB32C-100-S	A	32	78	-	100	24	SXM32-S	2.8	●
	FMB40C-60-S	A	40	89	-	60	27	SXM40-S	2.7	●
	FMC40C-60-S	B	40	89	66.7	60	27	SCAM120450-S(4)	5.0	○
BT50-	FMB16C-55-S	A	16	38		55	17	SCAM080300-S	3.7	○
	FMB16C-60-S	A	16	38	-	60	17	SCAM080300-S	3.7	●
	FMB16C-90-S	A	16	38	-	90	17	SCAM080300-S	3.9	●

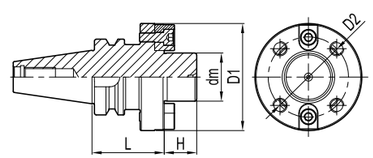
● Stock ○ Available Upon Order

Face Mill Holder

FMB



A



B

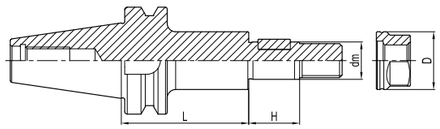


Ordering Code		Figure	Dimension (mm)					Screw	Weight(kg)	Stock
			dm	D1	D2	L	H			
BT50-	FMB16C-100-S	A	16	38		100	17	SCAM080300-S	4	○
	FMB16C-120-S	A	16	38	-	120	17	SCAM080300-S	4.1	●
	FMB22C-55-S	A	22	48		55	19	SCAM100300-S	4	○
	FMB22C-60-S	A	22	48	-	60	19	SCAM100300-S	4	●
	FMB22C-90-S	A	22	48	-	90	19	SCAM100300-S	4.2	●
	FMB22C-100-S	A	22	48		100	19	SCAM100300-S	4.2	○
	FMB22C-105-S	A	22	48		105	19	SCAM100300-S	4.3	○
	FMB22C-120-S	A	22	48		120	19	SCAM100300-S	4.4	○
	FMB22C-150L-S	A	22	42	60	150	19	SCAM100300-S	5.5	●
	FMB22C-200L-S	A	22	42	60	200	19	SCAM100300-S	6.2	●
	FMB22C-250L-S	A	22	42	60	250	19	SCAM100300-S	7	●
	FMB22C-300L-S	A	22	42	60	300	19	SCAM100300-S	7.8	●
	FMB27C-60-S	A	27	60	-	60	21	SXM27-S	4.3	●
	FMB27C-90-S	A	27	60	-	90	21	SXM27-S	4.8	●
	FMB27C-120-S	A	27	60	-	120	21	SXM27-S	5.6	●
	FMB27C-150L-S	A	27	60	75	150	21	SXM27-S	6.8	●
	FMB27C-200L-S	A	27	60	75	200	21	SXM27-S	8.2	●
	FMB27C-250L-S	A	27	60	75	250	21	SXM27-S	9.8	●
	FMB27C-300L-S	A	27	60	75	300	21	SXM27-S	11	●
	FMB32C-60-S	A	32	78	-	60	24	SXM32-S	4.7	●
	FMB32C-90-S	A	32	78	-	90	24	SXM32-S	5.8	●
	FMB32C-150-S	A	32	78	-	150	24	SXM32-S	8	●
	FMB32C-200-S	A	32	78	-	200	24	SXM32-S	9.8	●
	FMB40C-60-S	A	40	89	-	60	27	SXM40-S	5.2	●
	FMB40C-75-S	A	40	89	-	75	27	SXM40-S	5.8	●
	FMB40C-90-S	A	40	89	-	90	27	SXM40-S	6.5	●
	FMB40C-120-S	A	40	89	-	120	27	SXM40-S	7.4	●
	FMB40C-150-S	A	40	89	-	150	27	SXM40-S	8.6	●
	FMB40C-200-S	A	40	89	-	200	27	SXM40-S	11.8	●
	FMC40C-75-S	B	40	89	66.7	75	27	SCAM120450-S(4)	6.0	●
	FMC60C-75-S	B	60	129	101.6	75	38	SCAM160450-S(4)	8	●

● Stock ○ Available Upon Order

Soltting Cutter Holders

SC



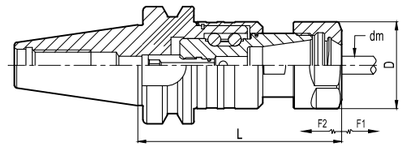


Ordering Code		Dimension (mm)				Washer	Weight(kg)	Stock
		dm	D	L	H			
BT40-	SC22-75-S	22	34	75	30	SD22-S	1.7	○
	SC22-120-S	22	34	120	30	SD22-S	2.1	○
	SC27-75-S	27	40	75	30	SD27-S	2	○
	SC27-120-S	27	40	120	30	SD27-S	2.5	○
	SC32-90-S	32	46	90	30	SD32-S	2.6	○
BT50-	SC22-90-S	22	34	90	30	SD22-S	4.4	●
	SC22-135-S	22	34	135	30	SD22-S	4.6	●
	SC27-90-S	27	40	90	30	SD27-S	4.7	●
	SC27-135-S	27	40	135	30	SD27-S	5.2	○
	SC32-90-S	32	46	90	30	SD32-S	5	●
	SC32-135-S	32	46	135	30	SD32-S	5.7	●
	SC40-90-S	40	55	90	30	SD40-S	6	●
	SC40-135-S	40	55	135	30	SD40-S	6.6	●
	SC50-90-S	50	69	90	30	SD50-S	7.2	○
	SC50-135-S	50	69	135	30	SD50-S	8.6	○

● Stock ○ Available Upon Order

Tapping Chuck

V







Ordering Code	Apply Taps	Dimension (mm)					Collets	Stock
		dm	D	L	F1	F2		
BT30-V20-80-S	M4 ～ M12 (No.8 ～ 7/16)	3 ～ 10	34	80	0.5	0.5	ER20	○
BT40-V20-85-S		3 ～ 10	34	85	0.5	0.5	ER20	○
BT50-V20-100-S		3 ～ 10	34	100	0.5	0.5	ER20	●
BT40-V32-100-S	M4 ～ M20 (No.8 ～ 3/4)	3 ～ 16	50	100	0.5	0.5	ER32	○
BT50-V32-115-S		3 ～ 16	50	115	0.5	0.5	ER32	●

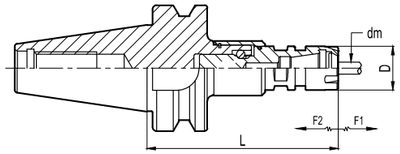
Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	ER20	ER32
Nut	ER20-A-S	ER32-UM/RD-S
Wrech	TER20-A-S	TER32-UMKM/RD-S

Tapping Chuck

V







Ordering Code	Apply Taps	Dimension (mm)					Collets	Stock
		dm	D	L	F1	F2		
BT30-V11-70-S	M1-M7	2.5-7	16	70	0.2	0.2	ER11	○

Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	ER11
Nut	ER11-M-S
Wrech	TER11-M-S

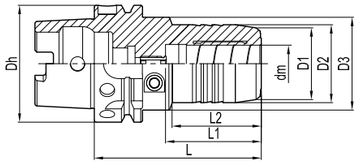
B

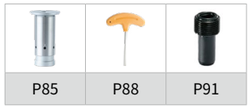
HSK Tooling System



Hydraulic Chuck

GHP





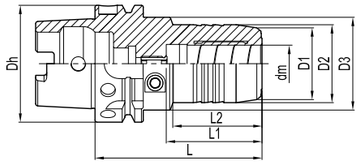


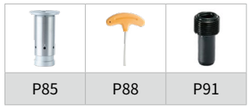
Ordering Code		Dimension (mm)								Collets	Weight(kg)	Stock
		Dh	dm	D1	D2	D3	L	L1	L2			
HSK40A-	GHP06-70-S	40	6	22	26	45	70	37	16	-	0.4	○
	GHP08-70-S	40	8	24	28	48	70	37	16	-	0.4	○
	GHP10-75-S	40	10	26	30	48	75	41	20	-	0.5	○
	GHP12-80-S	40	12	28	32	48	80	46	25	OD12	0.6	○
	GHP12-85-S	40	12	28	32	50	85	46	30	OD12	0.6	○
HSK50A-	GHP06-75-S	50	6	22	26	42	75	37	28	-	0.7	●
	GHP08-75-S	50	8	24	28	42	75	37	28	-	0.7	○
	GHP10-80-S	50	10	26	30	42	80	41	38	-	0.8	○
	GHP10-85-S	50	10	26	30	42	85	41	43	-	0.8	○
	GHP12-85-S	50	12	28	32	42	85	46	44	OD12	0.8	○
	GHP14-85-S	50	14	30	34	56	85	46	28.5	-	0.9	○
	GHP16-90-S	50	16	34	38	53	90	49	25	-	1	○
	GHP18-90-S	50	18	36	40	53	90	51	30	-	1.1	○
	GHP20-90-S	50	20	38	42	59.5	90	51	29	OD20	1.1	○
	GHP25-90-S	50	25	53	57	72	90	57	25		1.1	○
HSK63A-	GHP06-70-S	63	6	22	26	50	70	37	24	-	1	●
	GHP06-90-S	63	6	22	26	50	90	37	44		1.4	○
	GHP06-120-S	63	6	22	26	50	120	37	74		2	○
	GHP06-150-S	63	6	22	26	50	150	37	104		2.5	○
	GHP06-200-S	63	6	22	26	50	200	37	154		3	○
	GHP08-70-S	63	8	24	28	50	70	37	25	-	1	○
	GHP08-90-S	63	8	24	28	50	90	37	45		1.4	○
	GHP08-120-S	63	8	24	28	50	120	37	75		2	○
	GHP08-150-S	63	8	24	28	50	150	37	105		2.5	○
	GHP08-200-S	63	8	24	28	50	200	37	155		3	○
	GHP10-80-S	63	10	26	30	50	80	41	35	-	1.1	●
	GHP10-120-S	63	10	26	30	50	120	41	75	-	1.6	○
	GHP10-150-S	63	10	26	30	50	150	41	105	-	2.2	○
	GHP10-200-S	63	10	26	30	50	200	41	155	-	3	○
	GHP12-85-S	63	12	28	32	50	85	46	40	OD12	1.1	●
	GHP12-120-S	63	12	28	32	50	120	46	75	OD12	1.6	○
	GHP12-150-S	63	12	28	32	50	150	46	105	OD12	2.4	○
	GHP12-200-S	63	12	28	32	50	200	46	155	OD12	3.2	○

● Stock ○ Available Upon Order

Hydraulic Chuck

GHP





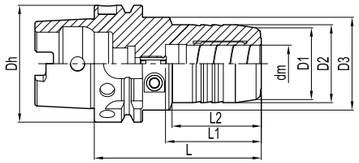


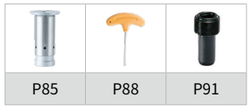
Ordering Code		Dimension (mm)								Collets	Weight(kg)	Stock
		Dh	dm	D1	D2	D3	L	L1	L2			
HSK63A-	GHP14-85-S	63	14	30	34	50	85	46	40	-	1.1	○
	GHP14-150-S	63	14	30	34	50	150	46	105	-	2.5	○
	GHP16-90-S	63	16	34	38	50	90	49	46	-	1.2	○
	GHP16-120-S	63	16	34	38	50	120	49	76	-	1.8	○
	GHP16-150-S	63	16	34	38	50	150	49	106	-	2.5	○
	GHP16-200-S	63	16	34	38	50	200	49	156	-	3.2	○
	GHP18-90-S	63	18	36	40	50	90	49	47	-	1.2	○
	GHP18-150-S	63	18	36	40	50	150	49	107	-	2.5	○
	GHP20-90-S	63	20	38	42	50	90	51	48	OD20	1.2	●
	GHP20-120-S	63	20	38	42	50	120	51	78	OD20	1.2	○
	GHP20-150-S	63	20	38	42	50	150	51	108	OD20	1.2	○
	GHP20-200-S	63	20	38	42	50	200	51	158	OD20	1.2	○
	GHP25-120-S	63	25	53	57	63	120	57	59	-	2.2	●
	GHP32-125-S	63	32	60	64	75	125	61	63	OD32	2.6	○
HSK100A-	GHP06-75-S	100	6	22	26	50	75	37	26	-	2.3	○
	GHP06-90-S	100	6	22	26	50	90	37	41	-	2.5	○
	GHP06-120-S	100	6	22	26	50	120	37	71	-	3	○
	GHP06-150-S	100	6	22	26	50	150	37	101	-	3.5	○
	GHP08-75-S	100	8	24	28	50	75	37	26	-	2.4	○
	GHP08-90-S	100	8	24	28	50	90	37	41	-	2.6	○
	GHP08-120-S	100	8	24	28	50	120	37	71	-	3.1	○
	GHP08-150-S	100	8	24	28	50	150	37	101	-	3.6	○
	GHP10-90-S	100	10	26	30	50	90	41	42	-	2.4	○
	GHP10-120-S	100	10	26	30	50	120	41	72	-	2.7	○
	GHP10-150-S	100	10	26	30	50	150	41	102	-	3.2	○
	GHP10-200-S	100	10	26	30	50	200	41	152	-	3.6	○
	GHP12-95-S	100	12	28	32	50	95	46	47	OD12	2.5	○
	GHP12-120-S	100	12	28	32	50	120	46	72	OD12	2.8	○
	GHP12-150-S	100	12	28	32	50	150	46	102	OD12	3.3	○
	GHP12-200-S	100	12	28	32	50	200	46	152	OD12	3.7	○
	GHP14-95-S	100	14	30	34	50	95	46	53	-	2.5	○
	GHP14-150-S	100	14	30	34	50	150	46	103	-	3.4	○

● Stock ○ Available Upon Order

Hydraulic Chuck

GHP







Ordering Code		Dimension (mm)								Collets	Weight(kg)	Stock
		Dh	dm	D1	D2	D3	L	L1	L2			
HSK100A-	GHP16-100-S	100	16	34	38	50	100	49	53	-	2.6	○
	GHP16-120-S	100	16	34	38	50	120	49	53	-	2.9	○
	GHP16-150-S	100	16	34	38	50	150	49	102	-	3.4	○
	GHP16-200-S	100	16	34	38	50	200	49	152	-	3.8	○
	GHP18-100-S	100	18	36	40	50	100	49	53	-	2.6	○
	GHP18-150-S	100	18	36	40	50	150	49	104	-	3.5	○
	GHP18-200-S	100	18	36	40	50	200	49	154	-	4	○
	GHP20-105-S	100	20	38	42	50	105	51	59	OD20	2.7	●
	GHP20-120-S	100	20	38	42	50	120	51	74	OD20	3.1	○
	GHP20-150-S	100	20	38	42	50	150	51	104	OD20	3.6	○
	GHP20-200-S	100	20	38	42	50	200	51	154	OD20	4.1	○
	GHP25-110-S	100	25	53	57	63	110	57	62	-	3.4	○
	GHP25-150-S	100	25	53	57	63	150	57	102	-	3.7	○
	GHP32-110-S	100	32	60	64	75	110	61	62	OD32	3.7	○
	GHP32-150-S	100	32	60	64	75	150	61	102	OD32	4	○

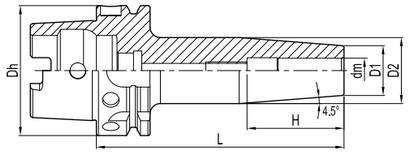
Notice: Wrenches, collets and collant tubes shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	dm=6	dm=8	dm=10	dm=12	dm=16	dm=20	dm=25	dm=32
Wrech	TH05T-L-S						TH06T-L-S	
Accessories	HSK40		HSK50		HSK63		HSK100	
Collant Tube	HSK40-CPA-S		HSK50-CPA-S		HSK63-CPA-S		HSK100-CPA-S	

Shrink Fit Holder

SF



Tolerance class of shank h6

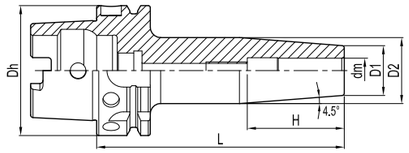


Ordering Code		Dimension (mm)						Weight(kg)	Stock
		Dh	dm	D1	D2	L	H		
HSK50A-	SF03-60-S	50	3	10	-	60	-	0.5	○
	SF04-60-S	50	4	10	-	60	-	0.5	○
	SF05-60-S	50	5	10	-	60	-	0.5	○
	SF06-80-S	50	6	21	27	80	36	0.6	○
	SF08-80-S	50	8	21	27	80	36	0.6	○
	SF10-85-S	50	10	24	32	85	42	0.7	○
	SF12-90-S	50	12	24	32	90	47	0.7	○
	SF16-95-S	50	16	27	34	95	47	0.7	○
HSK63A-	SF03-80-S	63	3	10	-	80	-	0.7	●
	SF04-80-S	63	4	10	-	80	-	0.7	●
	SF05-80-S	63	5	10	-	80	-	0.7	○
	SF06-80-S	63	6	21	27	80	36	0.8	●
	SF06-120-S	63	6	21	27	120	36	0.9	●
	SF06-160-S	63	6	21	32	160	36	1.2	●
	SF08-80-S	63	8	21	27	80	36	0.6	●
	SF08-120-S	63	8	21	27	120	36	0.9	●
	SF08-160-S	63	8	21	32	160	36	1.2	●
	SF10-85-S	63	10	24	32	85	42	0.9	●
	SF10-120-S	63	10	24	32	120	42	0.8	●
	SF10-160-S	63	10	24	34	160	42	1.1	●
	SF12-90-S	63	12	24	32	90	47	0.9	●
	SF12-120-S	63	12	24	32	120	47	1	●
	SF12-160-S	63	12	24	34	160	47	1.3	●
	SF14-90-S	63	14	27	34	90	47	1	○
	SF14-120-S	63	14	27	34	120	47	1.1	○
	SF14-160-S	63	14	27	42	160	47	1.5	●
	SF16-95-S	63	16	27	34	95	50	0.9	●
	SF16-120-S	63	16	27	34	120	50	1	○
	SF16-160-S	63	16	27	42	160	50	1.5	○

● Stock ○ Available Upon Order

Shrink Fit Holder

SF





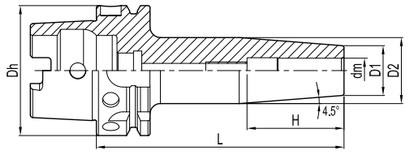
Tolerance class of shank h6

Ordering Code		Dimension (mm)						Weight(kg)	Stock
		Dh	dm	D1	D2	L	H		
HSK63A-	SF18-95-S	63	18	33	42	95	50	1.2	●
	SF18-120-S	63	18	33	42	120	50	1.3	○
	SF18-160-S	63	18	33	51	160	50	1.9	○
	SF20-100-S	63	20	33	42	100	52	0.9	●
	SF20-120-S	63	20	33	42	120	52	1.2	○
	SF20-160-S	63	20	33	51	160	52	1.7	●
	SF25-115-S	63	25	44	53	115	58	1.5	○
	SF25-130-S	63	25	44	53	130	58	1.4	○
	SF25-160-S	63	25	44	53	160	58	1.9	○
	SF32-120-S	63	32	44	53	120	58	1.3	○
	SF32-160-S	63	32	44	53	160	58	2.3	○
HSK100A-	SF06-85-S	100	6	21	27	85	36	2.2	○
	SF06-120-S	100	6	21	27	120	36	2.3	○
	SF06-160-S	100	6	21	32	160	36	2.6	○
	SF08-85-S	100	8	21	27	85	36	2	○
	SF08-120-S	100	8	21	27	120	36	2.3	○
	SF08-160-S	100	8	21	32	160	36	2.6	○
	SF10-90-S	100	10	24	32	90	42	2.3	○
	SF10-120-S	100	10	24	32	120	42	2.2	●
	SF10-160-S	100	10	24	34	160	42	2.5	○
	SF12-95-S	100	12	24	32	95	47	2.3	○
	SF12-120-S	100	12	24	32	120	47	2.4	○
	SF12-160-S	100	12	24	34	160	47	2.7	○
	SF14-95-S	100	14	27	34	95	47	2.4	○
	SF14-120-S	100	14	27	34	120	47	2.5	○
	SF14-160-S	100	14	27	42	160	47	2.9	○
	SF16-100-S	100	16	27	34	100	50	2.3	○
	SF16-120-S	100	16	27	34	120	50	2.4	●
	SF16-160-S	100	16	27	42	160	50	2.9	○

● Stock ○ Available Upon Order

Shrink Fit Holder

SF





Tolerance class of shank h6

Ordering Code		Dimension (mm)						Weight(kg)	Stock
		Dh	dm	D1	D2	L	H		
HSK100A-	SF18-100-S	100	18	33	42	100	50	2.6	○
	SF18-120-S	100	18	33	42	120	50	2.7	○
	SF18-160-S	100	18	33	51	160	50	3.3	○
	SF20-105-S	100	20	33	42	105	52	2.4	○
	SF20-120-S	100	20	33	42	120	52	2.7	●
	SF20-160-S	100	20	33	51	160	52	3.2	●
	SF25-115-S	100	25	44	53	115	58	2.9	●
	SF25-130-S	100	25	44	53	130	58	2.8	○
	SF25-160-S	100	25	44	60	160	58	3.3	○
	SF32-120-S	100	32	44	53	120	58	2.7	●
	SF32-160-S	100	32	44	60	160	58	3.7	○

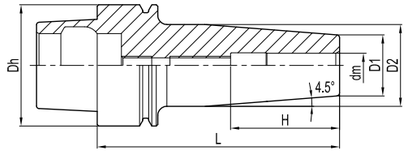
● Stock ○ Available Upon Order

Feature

Balanced	Runout (X3D)
G2.5；25,000 rpm	< 0.003 mm

Shrink Fit Holder

SF





P91

Tolerance class of shank h6



Ordering Code		Dimension (mm)						Weight(kg)	Stock
		Dh	dm	D1	D2	L	H		
HSK40E-	SF03-60-S	40	3	10	-	60	-	0.4	○
	SF04-60-S	40	4	10	-	60	-	0.4	○
	SF05-60-S	40	5	10	-	60	-	0.4	○
	SF06-60-S	40	6	21	27	60	36	0.4	○
	SF06-80-S	40	6	21	27	80	36	0.4	○
	SF08-80-S	40	8	21	27	80	36	0.4	○
	SF10-80-S	40	10	24	32	80	42	0.5	○
	SF12-90-S	40	12	24	32	90	47	0.5	○
	SF14-90-S	40	14	27	34	90	47	0.6	○
	SF16-90-S	40	16	27	34	90	50	0.5	○

Notice: Collant tubes shall be ordered separately.

● Stock ○ Available Upon Order

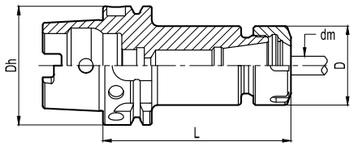
Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Feature

Balanced	Runout (X3D)
G2.5；25,000 rpm	< 0.003 mm

ER Spring Collet Chuck

ER





P86 P79 P87 P91

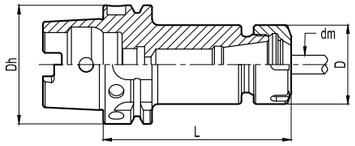


Ordering Code		Dimension (mm)				Weight(kg)	Stock
		Dh	dm	D	L		
HSK40A-	ER20-80-S	40	1.0~13	34	80	0.5	○
	ER25-80-S	40	1.0~16	42	80	0.6	○
	ER32-100-S	40	2.0~20	50	100	1	○
HSK50A-	ER16-75-S	50	0.5~10	28	75	0.6	○
	ER16-100-S	50	0.5~10	28	100	0.7	○
	ER20-75-S	50	1.0~13	34	75	0.7	○
	ER20-100-S	50	1.0~13	34	100	0.8	○
	ER25-80-S	50	1.0~16	42	80	0.8	○
	ER25-100-S	50	1.0~16	42	100	1	○
	ER25-135-S	50	1.0~16	42	135	1.1	○
	ER32-100-S	50	2.0~20	50	100	1.2	○
	ER32-135-S	50	2.0~20	50	135	1.5	○
	ER32-160-S	50	2.0~20	50	160	2.1	○
HSK63A-	ER11-75-S	63	1.0~7	19	75	0.7	○
	ER11-90-S	63	1.0~7	19	90	0.8	○
	ER11-120-S	63	1.0~7	19	120	1	○
	ER11-160-S	63	1.0~7	19	160	1.2	○
	ER16-80-S	63	1.0~10	28	80	0.8	●
	ER16-90-S	63	1.0~10	28	90	0.8	○
	ER16-100-S	63	1.0~10	28	100	0.9	●
	ER16-120-S	63	1.0~10	28	120	1	●
	ER16-160-S	63	1.0~10	28	160	1.2	●
	ER16-200-S	63	1.0~10	28	200	1.4	○
	ER20-80-S	63	1.0~13	34	80	0.9	○
	ER20-90-S	63	1.0~13	34	90	0.9	○
	ER20-100-S	63	1.0~13	34	100	1	●
	ER20-120-S	63	1.0~13	34	120	1.2	●
	ER20-160-S	63	1.0~13	34	160	1.4	●
	ER20-200-S	63	1.0~13	34	200	1.6	○

● Stock ○ Available Upon Order

ER Spring Collet Chuck

ER





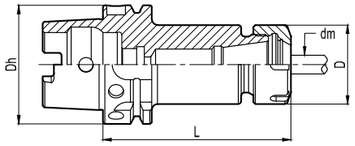


Ordering Code		Dimension (mm)				Weight(kg)	Stock
		Dh	dm	D	L		
HSK63A-	ER25-80-S	63	1.0~16	42	80	1	●
	ER25-90-S	63	1.0~16	42	90	1.1	○
	ER25-100-S	63	1.0~16	42	100	1.2	●
	ER25-120-S	63	1.0~16	42	120	1.4	●
	ER25-150-S	63	1.0~16	42	150	1.7	○
	ER25-160-S	63	1.0~16	42	160	1.8	○
	ER25-200-S	63	1.0~16	42	200	2.2	○
	ER32-80-S	63	2.0~20	50	80	1.2	●
	ER32-90-S	63	2.0~20	50	90	1.3	○
	ER32-100-S	63	2.0~20	50	100	1.4	●
	ER32-120-S	63	2.0~20	50	120	1.7	●
	ER32-160-S	63	2.0~20	50	160	2.3	●
	ER32-200-S	63	2.0~20	50	200	2.9	○
	ER32-250-S	63	2.0~20	50	250	3.5	○
	ER32-300-S	63	2.0~20	50	300	4.1	○
	ER40-80-S	63	3.0~26	63	80	1.2	○
	ER40-90-S	63	3.0~26	63	90	1.3	○
	ER40-100-S	63	3.0~26	63	100	1.5	○
	ER40-120-S	63	3.0~26	63	120	1.7	●
	ER40-160-S	63	3.0~26	63	160	2.3	○
	ER40-200-S	63	3.0~26	63	200	2.9	○
HSK100A-	ER16-90-S	100	1.0~10	28	90	2.2	○
	ER16-100-S	100	1.0~10	28	100	2.3	○
	ER16-120-S	100	1.0~10	28	120	2.4	○
	ER16-160-S	100	1.0~10	28	160	2.5	○
	ER16-200-S	100	1.0~10	28	200	2.6	○
	ER20-90-S	100	1.0~13	34	90	2.3	○
	ER20-100-S	100	1.0~13	34	100	2.4	○
	ER20-120-S	100	1.0~13	34	120	2.5	○
	ER20-160-S	100	1.0~13	34	160	2.7	○
	ER20-200-S	100	1.0~13	34	200	2.9	○

● Stock ○ Available Upon Order

ER Spring Collet Chuck

ER







Ordering Code		Dimension (mm)				Weight(kg)	Stock
		Dh	dm	D	L		
HSK100A-	ER25-90-S	100	1.0~16	42	90	2.4	○
	ER25-100-S	100	1.0~16	42	100	2.5	●
	ER25-120-S	100	1.0~16	42	120	2.7	○
	ER25-160-S	100	1.0~16	42	160	3.1	●
	ER25-200-S	100	1.0~16	42	200	3.5	○
	ER32-100-S	100	2.0~20	50	100	2.7	●
	ER32-120-S	100	2.0~20	50	120	3	○
	ER32-160-S	100	2.0~20	50	160	3.6	●
	ER32-200-S	100	2.0~20	50	200	4.1	○
	ER32-250-S	100	2.0~20	50	250	4.7	○
	ER32-300-S	100	2.0~20	50	300	5.3	○
	ER32-350-S	100	2.0~20	50	350	5.9	○
	ER32-400-S	100	2.0~20	50	400	6.5	○
	ER40-100-S	100	3.0~26	63	100	3.1	○
	ER40-120-S	100	3.0~26	63	120	3.5	○
	ER40-160-S	100	3.0~26	63	160	4.4	○
	ER40-200-S	100	3.0~26	63	200	5.2	○

Notice: Nuts, wrenches, collets and collant tubes shall be ordered separately.

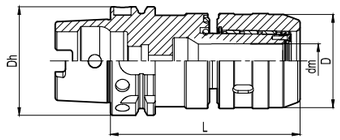
● Stock ○ Available Upon Order

Accessories	ER11	ER16	ER20	ER25	ER32	ER40
Nut	ER11-A-S	ER16-A-S	ER20-A-S	ER25-UM/RD-S	ER32-UM/RD-S	ER40-UM/RD-S
Wrech	TER11-A-S	TER16-A-S	TER20-A-S	TER25-UMKM/RD-S	TER32-UMKM/RD-S	TER40-UMKM/RD-S

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Power Milling Chuck For Heavy Duty

GLC







Ordering Code	Range(mm)	Dimension (mm)				Collets	Weight(kg)	Stock
		Dh	dm	D	L			
HSK63A-GLC20-100-S	6-20	63	20	52	100	GC20	2.3	○
HSK63A-GLC20-105-S	6-20	63	20	52	105	GC20	2.3	●
HSK63A-GLC25-110-S	6-25	63	25	60	110	GC25	2.5	●
HSK63A-GLC32-110-S	6-32	63	32	69	115	GC32	2.7	○
HSK63A-GLC32-115-S	6-32	63	32	69	115	GC32	2.7	●
HSK100A-GLC20-110-S	6-20	100	20	52	110	GC20	2.7	○
HSK100A-GLC25-110-S	6-25	100	25	60	110	GC25	2.8	○
HSK100A-GLC25-115-S	6-25	100	25	60	115	GC25	2.8	○
HSK100A-GLC32-120-S	6-32	100	32	69	120	GC32	2.9	○
HSK100A-GLC32-135-S	6-32	100	32	69	135	GC32	3.1	○
HSK100A-GLC42-120-S	6-42	100	42	86	120	GC42	3.1	○
HSK100A-GLC42-125-S	6-42	100	42	86	125	GC42	3.1	○

Notice: Collant tubes,collets and wrenches shall be ordered separately.

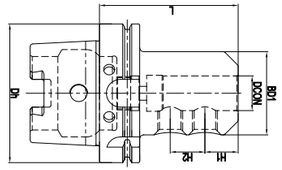
● Stock ○ Available Upon Order

Accessories	GLC20	GLC25	GLC32	GLC42
Wrech	TGLC20-S	TGLC25-S	TGLC32-S	TGLC42-S

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Side-lock Holder

SLN





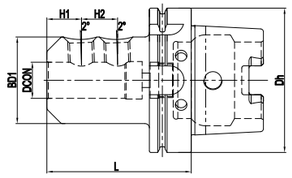
Ordering Code		Dimension (mm)						Screws	Weight(kg)	Stock
		Dh	DCON	BD1	L	H1	H2			
HSK63A-	SLN16-80-S	63	16	48	80	24	-	SSLN16-S	1.2	○
	SLN16-120-S	63	16	48	120	24		SSLN16-S	2	○
	SLN16-160-S	63	16	48	160	24		SSLN16-S	2.8	○
	SLN16-200-S	63	16	48	200	24		SSLN16-S	3.6	○
	SLN20-80-S	63	20	52	80	25	-	SSLN20-S	1.3	○
	SLN20-120-S	63	20	52	120	25		SSLN20-S	2.1	○
	SLN20-160-S	63	20	52	160	25		SSLN20-S	2.9	○
	SLN20-200-S	63	20	52	200	25		SSLN20-S	3.7	○
	SLN25-110-S	63	25	65	110	24	25	SSLN25-S	2.24	○
	SLN25-160-S	63	25	65	160	24	25	SSLN25-S	3.1	○
	SLN25-200-S	63	25	65	200	24	25	SSLN25-S	4	○
	SLN32-110-S	63	32	72	110	24	28	SSLN32-S	2.24	○
	SLN32-160-S	63	32	72	160	24	28	SSLN32-S	3.1	○
	SLN32-200-S	63	32	72	200	24	28	SSLN32-S	4	○
HSK100A-	SLN16-100-S	100	16	48	100	24	-	SSLN16-S	2.82	○
	SLN16-120-S	100	16	48	120	24		SSLN16-S	3.6	○
	SLN16-160-S	100	16	48	160	24		SSLN16-S	4.4	○
	SLN16-200-S	100	16	48	200	24		SSLN16-S	5.2	○
	SLN20-100-S	100	20	52	100	25	-	SSLN20-S	2.93	○
	SLN20-120-S	100	20	52	120	25		SSLN20-S	3.7	○
	SLN20-160-S	100	20	52	160	25		SSLN20-S	4.5	○
	SLN20-200-S	100	20	52	200	25		SSLN20-S	5.3	○
	SLN25-100-S	100	25	65	100	24	25	SSLN25-S	3.5	○
	SLN25-120-S	100	25	65	120	24	25	SSLN25-S	4.3	○
	SLN25-160-S	100	25	65	160	24	25	SSLN25-S	5.1	○
	SLN25-200-S	100	25	65	200	24	25	SSLN25-S	5.9	○
	SLN32-100-S	100	32	72	100	24	28	SSLN32-S	3.7	○
	SLN32-120-S	100	32	72	120	24	28	SSLN32-S	4.5	○
	SLN32-160-S	100	32	72	160	24	28	SSLN32-S	5.3	○
	SLN32-200-S	100	32	72	200	24	28	SSLN32-S	6.1	○

● Stock ○ Available Upon Order

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Side-lock Holder（2°）

SLNB





P91



Ordering Code		Dimension (mm)						Screws	Weight(kg)	Stock
		Dh	DCON	BD1	L	H1	H2			
HSK63A-	SLNB16-100-S	63	16	48	100	24	-	SSLN16-S	1.51	○
	SLNB20-100-S	63	20	52	100	25	-	SSLN20-S	1.65	○
	SLNB25-110-S	63	25	65	110	24	22	SSLN25-S	2.23	○
	SLNB32-110-S	63	32	72	110	24	24	SSLN32-S	2.43	○
HSK100A-	SLNB16-100-S	100	16	48	100	24	-	SSLN16-S	2.88	○
	SLNB20-110-S	100	20	52	110	25	-	SSLN20-S	3.1	○
	SLNB25-120-S	100	25	65	120	24	22	SSLN25-S	3.91	○
	SLNB32-120-S	100	32	72	120	24	24	SSLN32-S	4.32	○

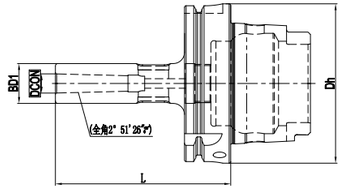
Notice: Collant tubes and wrenches shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Morse Taper Holder with Tang

MTY





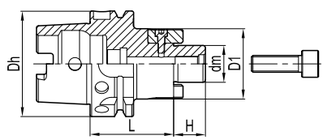
Ordering Code		DCON	Dimension (mm)			Weight(kg)	Stock
			Dh	BD1	L		
HSK63A-	MTY1-100-S	12.065	63	25	100	0.88	○
	MTY2-120-S	17.780	63	32	120	1.09	○
	MTY3-140-S	23.825	63	40	140	1.45	○
	MTY4-160-S	31.267	63	48	160	1.89	○
HSK100A-	MTY1-110-S	12.065	100	25	110	2.23	○
	MTY2-120-S	17.780	100	32	120	2.39	○
	MTY3-150-S	23.825	100	40	150	2.83	○
	MTY4-170-S	31.267	100	48	170	3.31	○
	MTY5-200-S	44.399	100	63	200	4.6	○

● Stock ○ Available Upon Order

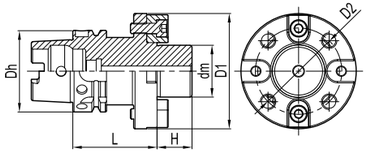
Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Face Mill Holder

FMB



A



B



P91



Ordering Code		Figure	Dimension (mm)						Screw	Weight (kg)	Stock
			Dh	dm	D1	D2	L	H			
HSK63A-	FMB16C-50-S	A	63	16	38	-	50	17	SCAM080300-S	0.8	●
	FMB16C-100-S	A	63	16	38	-	100	17	SCAM080300-S	1.2	●
	FMB22C-50-S	A	63	22	48	-	50	19	SCAM100300-S	1	○
	FMB22C-100-S	A	63	22	48	-	100	19	SCAM100300-S	1.5	○
	FMB22C-120-S	A	63	22	48		120	19	SCAM100300-S	1.7	○
	FMB22C-150-S	A	63	22	48		150	19	SCAM100300-S	2	○
	FMB22C-200-S	A	63	22	48		200	19	SCAM100300-S	2.5	○
	FMB27C-60-S	A	63	27	60	-	60	21	SXM27-S	1.4	●
	FMB27C-100-S	A	63	27	60	-	100	21	SXM27-S	2.1	●
	FMB32C-60-S	A	63	32	78	-	60	24	SXM32-S	1.8	●
	FMB32C-100-S	A	63	32	78	-	100	24	SXM32-S	2.4	●
	FMB40C-60-S	A	63	40	89	-	60	27	SXM40-S	2.3	●
HSK100A-	FMB22C-50-S	A	100	22	48	-	50	19	SCAM100300-S	2.3	●
	FMB22C-100-S	A	100	22	48	-	100	19	SCAM100300-S	2.8	●
	FMB22C-120-S	A	100	22	48	-	120	19	SCAM100300-S	3	○
	FMB22C-160-S	A	100	22	48	-	160	19	SCAM100300-S	3.4	○
	FMB22C-200-S	A	100	22	48	-	200	19	SCAM100300-S	3.8	○
	FMB27C-50-S	A	100	27	60	-	50	21	SXM27-S	2.6	●
	FMB27C-100-S	A	100	27	60	-	100	21	SXM27-S	3.7	○
	FMB32C-50-S	A	100	32	78	-	50	24	SXM32-S	3	○
	FMB32C-100-S	A	100	32	78	-	100	24	SXM32-S	4.9	●
	FMB40C-60-S	A	100	40	89	-	60	27	SXM40-S	3.9	●
	FMB40C-75-S	A	100	40	89	-	75	27	SXM40-S	4.5	○
	FMB40C-100-S	A	100	40	89	-	100	27	SXM40-S	5.4	○
	FMC40C-75-S	B	100	40	89	66.7	75	27	SCAM120450-S(4)	5.0	○
	FMC60C-75-S	B	100	60	129	101.6	75	38	SCAM160450-S(4)	6.6	○

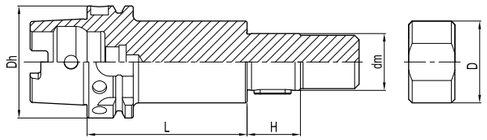
Notice: Collant tubes shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Soltting Cutter Holders

SC





P91



Ordering Code		Dimension (mm)					Washer	Weight(kg)	Stock
		Dh	dm	D	L	H			
HSK63A-	SC13-75-S	63	13	20	75	30	SD13-S	0.9	○
	SC16-90-S	63	16	26	90	30	SD16-S	1.1	○
	SC16-120-S	63	16	26	120	30	SD16-S	1.1	○
	SC22-90-S	63	22	34	90	30	SD22-S	1.5	○
	SC22-135-S	63	22	34	135	30	SD22-S	1.8	○
	SC27-90-S	63	27	40	90	30	SD27-S	1.8	○
	SC27-135-S	63	27	40	135	30	SD27-S	2.3	○
	SC32-90-S	63	32	46	90	30	SD32-S	2.3	○
	SC32-135-S	63	32	46	135	30	SD32-S	2.9	○
HSK100A-	SC13-75-S	100	13	20	75	30	SD13-S	2.2	○
	SC16-90-S	100	16	26	90	30	SD16-S	2.3	○
	SC16-120-S	100	16	26	120	30	SD16-S	2.6	○
	SC22-90-S	100	22	34	90	30	SD22-S	2.9	○
	SC22-135-S	100	22	34	135	30	SD22-S	3.2	○
	SC27-90-S	100	27	40	90	30	SD27-S	3.1	○
	SC27-135-S	100	27	40	135	30	SD27-S	3.6	○
	SC32-90-S	100	32	46	90	30	SD32-S	3.6	○
	SC32-135-S	100	32	46	135	30	SD32-S	4.2	○
	SC40-90-S	100	40	55	90	30	SD40-S	4.4	○
	SC40-135-S	100	40	55	135	30	SD40-S	5.2	○

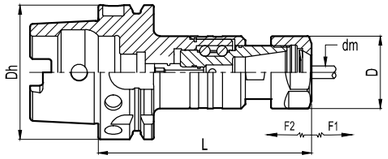
Notice: .Collant tubes and wrenches shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

Tapping Chuck

V







Ordering Code	Apply Taps	Dimension (mm)						Nut	Collets	Stock
		Dh	dm	D	L	F1	F2			
HSK63A-V20-100-S	M4 ~ M12 (No.8 ~ 7/16)	63	3 ~ 10	34	100	0.5	0.5	ER20-A-S	ER20	●
HSK100A-V20-110-S		100	3 ~ 10	34	110	0.5	0.5	ER20-A-S	ER20	○
HSK63A-V32-120-S	M4 ~ M20 (No.8 ~ 3/4)	63	3 ~ 16	50	120	0.5	0.5	ER32-UM/RD-S	ER32	○
HSK100A-V32-130-S		100	3 ~ 16	50	130	0.5	0.5	ER32-UM/RD-S	ER32	○

Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	ER20	ER32
Nut	ER20-A-S	ER32-UM/RD-S
Wrech	TER20-A-S	TER32-UMKM/RD-S

Accessories	HSK40	HSK50	HSK63	HSK100
Collant Tube	HSK40-CPA-S	HSK50-CPA-S	HSK63-CPA-S	HSK100-CPA-S

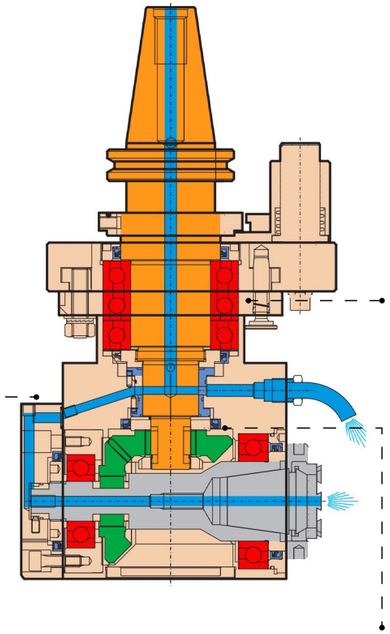
C

Angle Head



Product Advantages

Use of friction-optimized seals with PTFE sealing lips, for higher speeds, high temperature resistance



High-precision spindle bearing，suitable for high speeds (up to 15,000 rpm)

Permanent lubrication of the gear with heavy-duty lubricant (low-maintenance)

Angle Head Naming and Coding Rules

BT40 – SW – ER16 – 187 – S – NC

① ② ③ ④ ⑤ ⑥

①Connection Type

②Production Style	
SW	Angle Head 90°
DW	Double Angle Head 90°
ZW	Angle Head 90°, Offset Type
ZWS	Angle Head 90°, Offset Slim Type
WS	Angle Head, Adjustable 0-98°
FW+Angle	Fixed Angle Non-standard Angle Head

③Clamping Size

④Effective Length

⑤Output Shaft Number	
S	Single
D	Double
T	Triple
Q	Quadruple
M	Multiple

⑥Type of Cooling	
NC	Non-Cooling
EC	External
IC	Internal

C Angle Head

Nut Wrench Naming and Coding Rules

TER16 – N – MC

① ② ③

①Size	②Nut Wrench	③Performance Upgrade Code	
		Normal type	Omit
		Upgraded type	MC

Clamping Nuts Naming and Coding Rules

ER16 – N – IC – MC

① ② ③ ④

①Size	②Clamping Nuts	③Type of Cooling	
		Internal	IC
		Others	Omit

④Performance Upgrade Code	
Normal type	Omit
Upgraded type	MC

C Angle Head

Hook Wrench Naming and Coding Rules

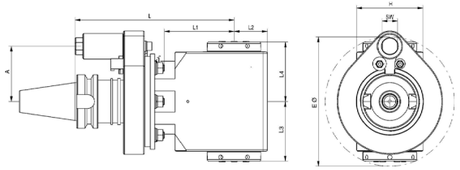
TER16 – H – MC

① ②

①Size	②Hook Wrench	③Performance Upgrade Code	
		Normal type	Omit
		Upgraded type	MC

Double Angle Head 90°

BT40– Collet ER25、ER32





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT40-DW-ER25-187-D-NC	2 xER 25	30	8000	1:1	without	7.5
BT40-DW-ER25-187-D-EC	2 x ER 25	30	8000	1:1	external	7.5
BT40-DW-ER32-187-D-NC	2 x ER 32	70	6500	1:1	without	8.5
BT40-DW-ER32-187-D-EC	2 x ER 32	70	6500	1:1	external	8.5

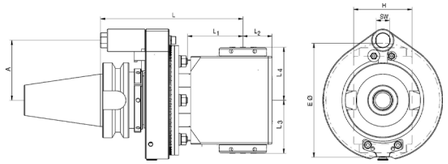
Dimensional parameters

Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT40-DW-ER25-187-D-NC	125	62	62	187	80	39	78	65	18	○
BT40-DW-ER25-187-D-EC	125	62	62	187	80	39	78	65	18	○
BT40-DW-ER32-187-D-NC	152	71.2	71.2	187	80	39	78	65	18	○
BT40-DW-ER32-187-D-EC	152	71.2	71.2	187	80	39	78	65	18	○

● Stock ○ Available Upon Order

Double Angle Head 90°

BT50– Collet ER25、ER32、ER40





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT50-DW-ER25-190-D-NC	2 xER 25	30	8000	1:1	without	11.5
BT50-DW-ER25-190-D-EC	2 x ER 25	30	8000	1:1	external	11.5
BT50-DW-ER32-190-D-NC	2 x ER 32	70	6500	1:1	without	13.5
BT50-DW-ER32-190-D-EC	2 x ER 32	70	6500	1:1	external	13.5
BT50-DW-ER40-225-D-NC	2 x ER 40	150	4000	1:1	without	20.0
BT50-DW-ER40-225-D-EC	2 x ER 40	150	4000	1:1	external	20.0

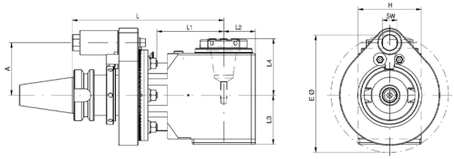
Dimensional parameters

Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT50-DW-ER25-190-D-NC	125	62	62	190	70	34	68	80	18	○
BT50-DW-ER25-190-D-EC	125	62	62	190	70	34	68	80	18	○
BT50-DW-ER32-190-D-NC	152	71.2	71.2	190	70	39	78	80	18	○
BT50-DW-ER32-190-D-EC	152	71.2	71.2	190	70	39	78	80	18	○
BT50-DW-ER40-225-D-NC	210	103	103	225	109	58	108	80	18	○
BT50-DW-ER40-225-D-EC	210	103	103	225	109	58	108	80	18	○

● Stock ○ Available Upon Order

Angle Head 90°

BT40– Collet ER16、ER25、ER32





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT40-SW-ER16-187-S-NC	ER 16	12	10000	1:1	without	6.0
BT40-SW-ER16-187-S-EC	ER 16	12	10000	1:1	external	6.0
BT40-SW-ER16-187-S-IC	ER 16	12	10000	1:1	internal	6.0
BT40-SW-ER25-187-S-NC	ER 25	30	8000	1:1	without	6.5
BT40-SW-ER25-187-S-EC	ER 25	30	8000	1:1	external	6.5
BT40-SW-ER25-187-S-IC	ER 25	30	8000	1:1	internal	6.5
BT40-SW-ER32-187-S-NC	ER 32	70	6500	1:1	without	8.0
BT40-SW-ER32-187-S-EC	ER 32	70	6500	1:1	external	8.0
BT40-SW-ER32-187-S-IC	ER 32	70	6500	1:1	internal	8.0

Dimensional parameters

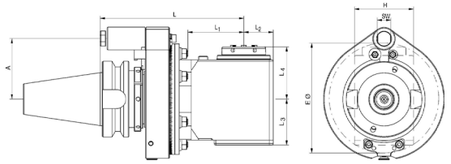
Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT40-SW-ER16-187-S-NC	91	29	45	187	80	22	44	65	18	○
BT40-SW-ER16-187-S-EC	96	44	50	187	80	22	44	65	18	○
BT40-SW-ER16-187-S-IC	96	44	50	187	80	22	44	65	18	○
BT40-SW-ER25-187-S-NC	110	41.5	57.5	187	80	34	68	65	18	○
BT40-SW-ER25-187-S-EC	120	52	63	187	80	34	68	65	18	○
BT40-SW-ER25-187-S-IC	120	52	63	187	80	34	68	65	18	○
BT40-SW-ER32-187-S-NC	145	61	70	187	80	39	78	65	18	○
BT40-SW-ER32-187-S-EC	155	75	75	187	80	39	78	65	18	○
BT40-SW-ER32-187-S-IC	155	75	75	187	80	39	78	65	18	○

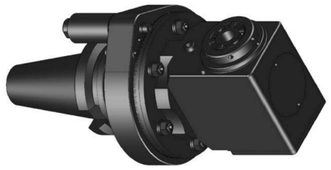
● Stock ○ Available Upon Order

C Angle Head

Angle Head 90°

BT50– Collet ER25、ER32、ER40





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT50-SW-ER25-190-S-NC	ER 25	30	8000	1:1	without	10.5
BT50-SW-ER25-190-S-EC	ER 25	30	8000	1:1	external	10.5
BT50-SW-ER25-190-S-IC	ER 25	30	8000	1:1	internal	10.5
BT50-SW-ER32-190-S-NC	ER 32	70	6500	1:1	without	12.0
BT50-SW-ER32-190-S-EC	ER 32	70	6500	1:1	external	12.0
BT50-SW-ER32-190-S-IC	ER 32	70	6500	1:1	internal	12.0
BT50-SW-ER40-225-S-NC	ER 40	150	5000	1:1	without	18.0
BT50-SW-ER40-225-S-EC	ER 40	150	5000	1:1	external	18.0
BT50-SW-ER40-225-S-IC	ER 40	150	5000	1:1	internal	18.0

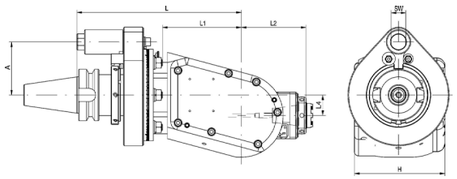
Dimensional parameters

Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT50-SW-ER25-190-S-NC	110	41.5	57.5	190	75	34	68	80	18	○
BT50-SW-ER25-190-S-EC	120	52	63	190	75	34	68	80	18	○
BT50-SW-ER25-190-S-IC	120	52	63	190	75	34	68	80	18	○
BT50-SW-ER32-190-S-NC	145	61	70	190	75	39	78	80	18	○
BT50-SW-ER32-190-S-EC	155	75	75	190	75	39	78	80	18	○
BT50-SW-ER32-190-S-IC	155	75	75	190	75	39	78	80	18	○
BT50-SW-ER40-225-S-NC	195	81	92	225	109	52	104	80	18	○
BT50-SW-ER40-225-S-EC	195	81	96	225	109	52	104	80	18	○
BT50-SW-ER40-225-S-IC	195	81	96	225	109	52	104	80	18	○

● Stock ○ Available Upon Order

Angle Head, Adjustable 0-98°

BT40– Collet ER20、ER25





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT40-WS-ER20-196-S-NC	ER 20	15	8000	1:1	without	8.0
BT40-WS-ER20-196-S-IC	ER 20	15	8000	1:1	internal	8.0
BT40-WS-ER20-196-S-NC-2	ER 20	15	15000	1:2.25	without	8.0
BT40-WS-ER20-196-S-IC-2	ER 20	15	15000	1:2.25	internal	8.0
BT40-WS-ER25-202-S-NC	ER 25	30	7000	1:1	without	9.6
BT40-WS-ER25-202-S-IC	ER 25	30	7000	1:1	internal	9.6
BT40-WS-ER25-202-S-NC-2	ER 25	30	13500	1:2.25	without	9.6
BT40-WS-ER25-202-S-IC-2	ER 25	30	13500	1:2.25	internal	9.6

Dimensional parameters

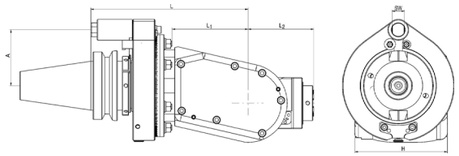
Ordering Code	Dimension(mm)							
	L2	L4	L	L1	H	A	SW	Stock
BT40-WS-ER20-196-S-NC	75	20	196	100	96	65	18	○
BT40-WS-ER20-196-S-IC	75	20	196	100	96	65	18	○
BT40-WS-ER20-196-S-NC-2	75	20	196	100	96	65	18	○
BT40-WS-ER20-196-S-IC-2	75	20	196	100	96	65	18	○
BT40-WS-ER25-202-S-NC	84	25	202	100	111	65	18	○
BT40-WS-ER25-202-S-IC	84	25	202	100	111	65	18	○
BT40-WS-ER25-202-S-NC-2	84	25	202	100	111	65	18	○
BT40-WS-ER25-202-S-IC-2	84	25	202	100	111	65	18	○

● Stock ○ Available Upon Order

C Angle Head

Angle Head, Adjustable 0-98°

BT50– Collet ER25、ER32





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT50-WS-ER25-205-S-NC	ER 25	30	7000	1:1	without	14
BT50-WS-ER25-205-S-IC	ER 25	30	7000	1:1	internal	14
BT50-WS-ER25-205-S-NC-2	ER 25	30	13500	1:2.25	without	14
BT50-WS-ER25-205-S-IC-2	ER 25	30	13500	1:2.25	internal	14
BT50-WS-ER32-225-S-NC	ER 32	70	6000	1:1	without	16
BT50-WS-ER32-225-S-IC	ER 32	70	6000	1:1	internal	16

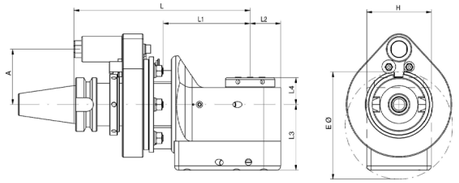
Dimensional parameters

Ordering Code	Dimension(mm)							
	L2	L4	L	L1	H	A	SW	Stock
BT50-WS-ER25-205-S-NC	84	25	205	100	111	80	18	○
BT50-WS-ER25-205-S-IC	84	25	205	100	111	80	18	○
BT50-WS-ER25-205-S-NC-2	84	25	205	100	111	80	18	○
BT50-WS-ER25-205-S-IC-2	84	25	205	100	111	80	18	○
BT50-WS-ER32-225-S-NC	95	25	225	109	132	80	18	○
BT50-WS-ER32-225-S-IC	95	25	225	109	132	80	18	○

● Stock ○ Available Upon Order

Angle Head 90°, Offset Type

BT40– Collet ER25、ER32





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT40-ZW-ER25-187-S-NC	ER 25	30	8000	1:1	without	6.5
BT40-ZW-ER25-187-S-EC	ER 25	30	8000	1:1	external	6.5
BT40-ZW-ER25-187-S-IC	ER 25	30	8000	1:1	internal	6.5
BT40-ZW-ER32-205-S-NC	ER 32	70	6000	1:1	without	8.5
BT40-ZW-ER32-205-S-EC	ER 32	70	6000	1:1	external	8.5
BT40-ZW-ER32-205-S-IC	ER 32	70	6000	1:1	internal	8.5

Dimensional parameters

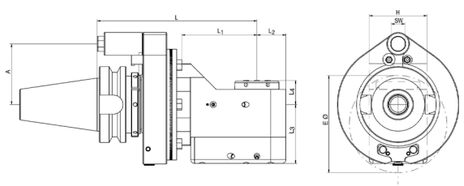
Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT40-ZW-ER25-187-S-NC	103	57	35.8	187	80	28.5	57	65	18	○
BT40-ZW-ER25-187-S-EC	103	57	41.6	187	80	28.5	57	65	18	○
BT40-ZW-ER25-187-S-IC	103	57	41.6	187	80	28.5	57	65	18	○
BT40-ZW-ER32-205-S-NC	128	77.5	32.2	205	100	38,0	76	65	18	○
BT40-ZW-ER32-205-S-EC	128	77.5	38	205	100	38,0	76	65	18	○
BT40-ZW-ER32-205-S-IC	128	77.5	38	205	100	38,0	76	65	18	○

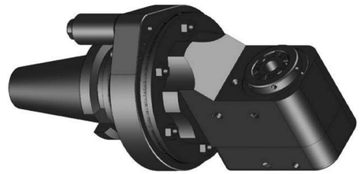
● Stock ○ Available Upon Order

C Angle Head

Angle Head 90°, Offset Type

BT50– Collet ER25、ER32、ER40





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT50-ZW-ER25-195-S-NC	ER 25	30	8000	1:1	without	11.5
BT50-ZW-ER25-195-S-EC	ER 25	30	8000	1:1	external	11.5
BT50-ZW-ER25-195-S-IC	ER 25	30	8000	1:1	internal	11.5
BT50-ZW-ER32-210-S-NC	ER 32	70	6000	1:1	without	14.0
BT50-ZW-ER32-210-S-EC	ER 32	70	6000	1:1	external	14.0
BT50-ZW-ER32-210-S-IC	ER 32	70	6000	1:1	internal	14.0
BT50-ZW-ER40-270-S-NC	ER 40	150	5000	1:1	without	19.0
BT50-ZW-ER40-270-S-EC	ER 40	150	5000	1:1	external	19.0
BT50-ZW-ER40-270-S-IC	ER 40	150	5000	1:1	internal	19..0

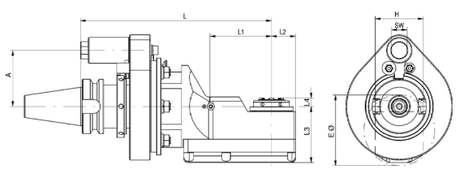
Dimensional parameters

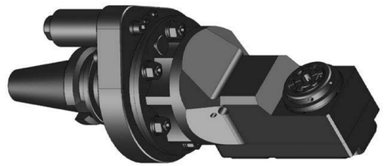
Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT50-ZW-ER25-195-S-NC	103	57	35.8	195	79	28.5	57	80	18	○
BT50-ZW-ER25-195-S-EC	103	57	41.6	195	79	28.5	57	80	18	○
BT50-ZW-ER25-195-S-IC	103	57	41.6	195	79	28.5	57	80	18	○
BT50-ZW-ER32-210-S-NC	128	77.5	32.2	210	94	38	76	80	18	○
BT50-ZW-ER32-210-S-EC	128	77.5	38	210	94	38	76	80	18	○
BT50-ZW-ER32-210-S-IC	128	77.5	38	210	94	38	76	80	18	○
BT50-ZW-ER40-270-S-NC	140	89	31	270	110	52	104	80	18	○
BT50-ZW-ER40-270-S-EC	140	89	34.8	270	110	52	104	80	18	○
BT50-ZW-ER40-270-S-IC	140	89	34.8	270	110	52	104	80	18	○

● Stock ○ Available Upon Order

Angle Head 90°, Offset Slim Type

BT40– Collet ER11、ER20、ER25





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT40-ZWS-ER11-220-S-NC	ER 11	6	12000	1:1.67	without	7.0
BT40-ZWS-ER20-232-S-NC	ER 20	15	10000	1:1	without	6.0
BT40-ZWS-ER25-222-S-NC	ER 25	30	8000	1:1	without	6.5
BT40-ZWS-ER25-222-S-EC	ER 25	30	8000	1:1	external	6.5

Dimensional parameters

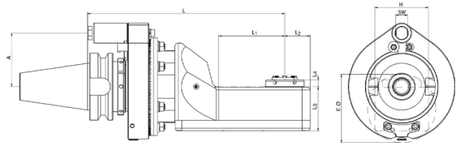
Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT40-ZWS-ER11-220-S-NC	50	49	8	220	38	20	36	65	18	○
BT40-ZWS-ER20-232-S-NC	75	54.5	11.2	232	80	24	48	65	18	○
BT40-ZWS-ER25-222-S-NC	82	65	10	222	76	28	56	65	18	○
BT40-ZWS-ER25-222-S-EC	82	65	10	222	76	28	56	65	18	○

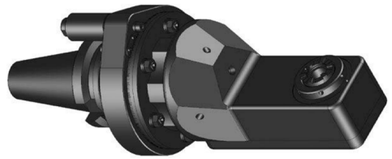
● Stock ○ Available Upon Order

C Angle Head

Angle Head 90°, Offset Slim Type

BT50– Collet ER11、ER25、ER32





Performance parameters

Ordering Code	Toolholder	Torque max. (Nm)	Rev. max. (RPM)	Gear ratio	Coolant	Weight (kg)
BT50-ZWS-ER11-237.5-S-NC	ER11	6	12000	1:1.67	without	11.0
BT50-ZWS-ER25-225-S-NC	ER 25	30	8000	1:1	without	12.5
BT50-ZWS-ER25-225-S-EC	ER 25	30	8000	1:1	external	12.5
BT50-ZWS-ER32-295-S-NC	ER 32	70	6000	1:1	without	13.5
BT50-ZWS-ER32-295-S-EC	ER 32	70	6000	1:1	external	13.5

Dimensional parameters

Ordering Code	Dimension(mm)									
	ØE	L3	L4	L	L1	L2	H	A	SW	Stock
BT50-ZWS-ER11-237.5-S-NC	50	49	8	237.5	38	20	36	80	18	○
BT50-ZWS-ER25-225-S-NC	82	65	10	225	76	28	56	80	18	○
BT50-ZWS-ER25-225-S-EC	82	65	10	225	76	28	56	80	18	○
BT50-ZWS-ER32-295-S-NC	102	66	13	295	100	38	80	80	18	○
BT50-ZWS-ER32-295-S-EC	102	66	13	295	100	38	80	80	18	○

● Stock ○ Available Upon Order

Wrenches and Clamping Nuts

Wrenches for ER Clamping Nuts



Ordering code	Size	Type	In Stock
TER11-N-MC	ER11	inlying	○
TER16-N-MC	ER16	inlying	○
TER20-N-MC	ER20	inlying	○
TER25-N-MC	ER25	inlying	○
TER32-N-MC	ER32	inlying	○
TER40-N-MC	ER40	inlying	○

● Stock ○ Available Upon Order

ER Clamping Nuts



Ordering code	Size	Type	Internal coolant	In Stock
ER11-N-MC	ER11	inlying	-	○
ER16-N-MC	ER16	inlying	-	○
ER20-N-MC	ER20	inlying	-	○
ER25-N-MC	ER25	inlying	-	○
ER32-N-MC	ER32	inlying	-	○
ER40-N-MC	ER40	inlying	-	○
ER16-N-IC-MC	ER16	inlying	√	○
ER20-N-IC-MC	ER20	inlying	√	○
ER25-N-IC-MC	ER25	inlying	√	○
ER32-N-IC-MC	ER32	inlying	√	○
ER40-N-IC-MC	ER40	inlying	√	○

● Stock ○ Available Upon Order

Hook Wrenches to hold against



D1810A



D1810B

Ordering code	Size	Type	DIN	In Stock
TER16-H-MC	ER16	inlying	1810-B	○
TER20-H-MC	ER20	inlying	1810-B	○
TER25-H-MC	ER25	inlying	1810-B	○
TER32-H-MC	ER32	inlying	1810-B	○
TER40-H-MC	ER40	inlying	1810-A	○

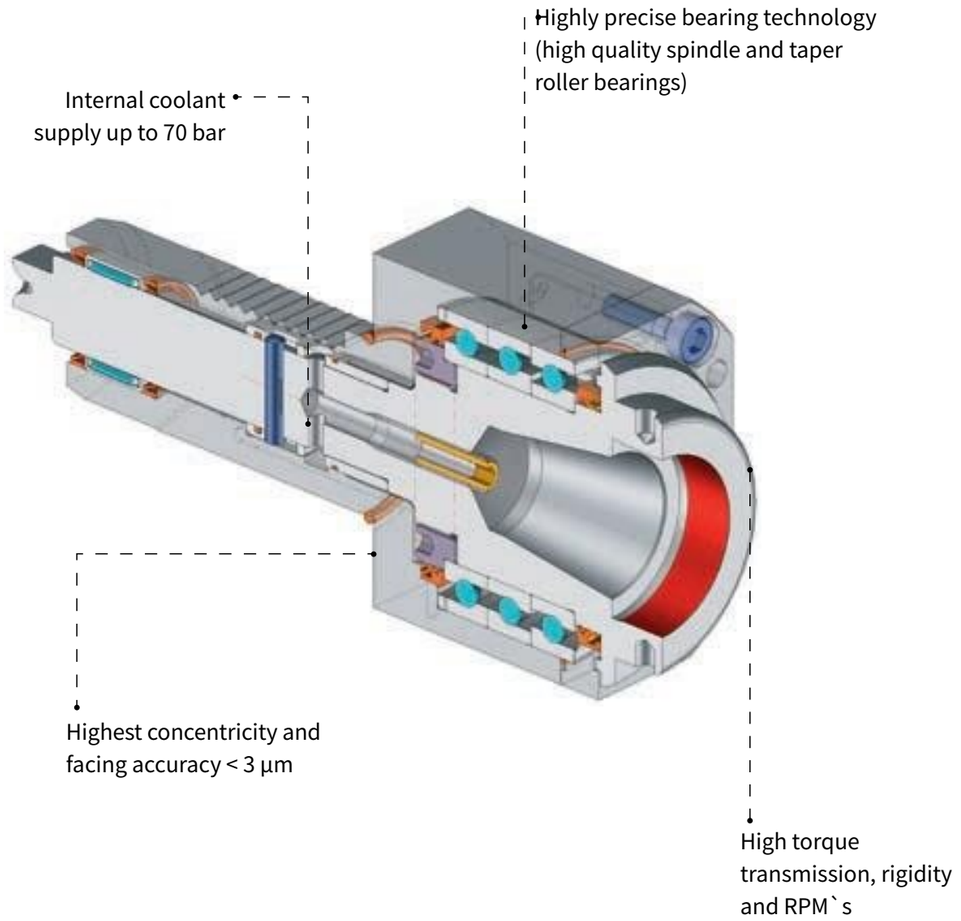
● Stock ○ Available Upon Order

D

Living Tools



Product Advantages



Live Tools Naming and Coding Rules

BMT45 – SU – ER25 – 49.5 – S – EC

① ② ③ ④ ⑤ ⑥

①Connection Type

④Effective Length

⑤Output Shaft Number	
S	Single
D	Double

②Production Style	
SU	0° Live Tools
AU	90° Live Tools
SO	0° Offset Live Tools
AO	90° Retracting Live Tools
AJ	Adjustable Live Tools
SB	Saw Blade Live Tools
CO	Combination Live Tools

③Clamping Size

⑥Type of Cooling	
NC	Non-Cooling
EC	External
IC	Internal

Nut Wrench Naming and Coding Rules

TER16 – N – MC

① ② ③

①Size

②Nut Wrench

③Performance Upgrade Code	
Normal type	Omit
Upgraded type	MC

D Living Tools

Clamping Nuts Naming and Coding Rules

ER16 – N – IC – MC

① ② ③ ④

①Size

②Clamping Nuts

③Type of Cooling	
Internal	IC
Others	Omit

④Performance Upgrade Code	
Normal type	Omit
Upgraded type	MC

Hook Wrench Naming and Coding Rules

TER16 – H – MC

① ② ③

①Size

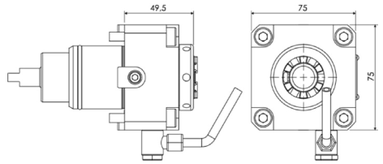
②Hook Wrench

③Performance Upgrade Code	
Normal type	Omit
Upgraded type	MC

D Living Tools

BMT45

Straight Unit – Collet ER25



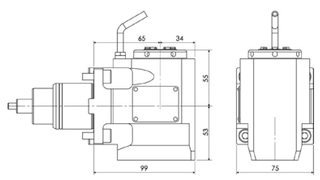
Unit (mm)



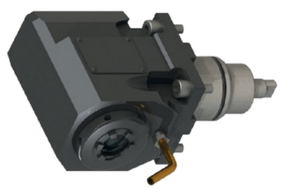
Ordering code	Toolholder	Torque max. (Nm)	n1/n2 (RPM)	Gear ratio	Coolant	Reversion of rotation	Spindle wrench	Nut wrench	Nut	In Stock
BMT45-SU-ER25-49.5-S-EC	ER25	25	6500 / 6500	1:1	EC	—	TER25-H-MC	TER25-N-MC	ER25-N-MC	○
BMT45-SU-ER25-49.5-S-IC	ER25	25	6500 / 6500	1:1	ICE 70bar	—	TER25-H-MC	TER25-N-MC	ER25-N-IC-MC	○

● Stock ○ Available Upon Order

Angle Unit – Collet ER25



Unit (mm)

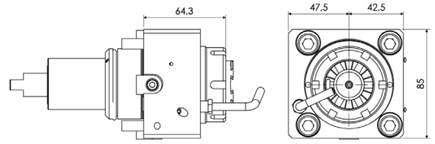


Ordering code	Toolholder	Torque max. (Nm)	n1/n2 (RPM)	Gear ratio	Coolant	Reversion of rotation	Spindle wrench	Nut wrench	Nut	In Stock
BMT45-AU-ER25-65-S-EC	ER25	25	6500 / 6500	1:1	EC	√	TER25-H-MC	TER25-N-MC	ER25-N-MC	○
BMT45-AU-ER25-65-S-IC	ER25	25	6500 / 6500	1:1	ICE 70bar	√	TER25-H-MC	TER25-N-MC	ER25-N-IC-MC	○

● Stock ○ Available Upon Order

BMT55

Straight Unit – Collet ER32



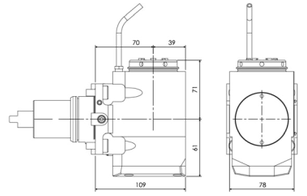
Unit (mm)



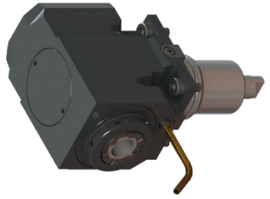
Ordering code	Toolholder	Torque max. (Nm)	n1/n2 (RPM)	Gear ratio	Coolant	Reversion of rotation	Spindle wrench	Nut wrench	Nut	In Stock
BMT55-SU-ER32-64.3-S-EC	ER32	70	6500 / 6500	1:1	EC	—	TER32-H-MC	TER32-N-MC	ER32-N-MC	○
BMT55-SU-ER32-64.3-S-IC	ER32	70	6500 / 6500	1:1	ICE 70bar	—	TER32-H-MC	TER32-N-MC	ER32-N-IC-MC	○

● Stock ○ Available Upon Order

Angle Unit – Collet ER32



Unit (mm)



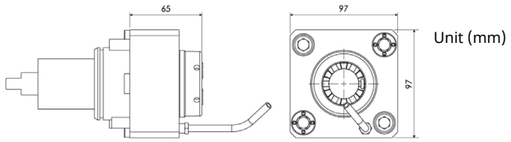
Ordering code	Toolholder	Torque max. (Nm)	n1/n2 (RPM)	Gear ratio	Coolant	Reversion of rotation	Spindle wrench	Nut wrench	Nut	In Stock
BMT55-AU-ER32-70-S-EC	ER32	70	6500 / 6500	1:1	EC	√	TER32-H-MC	TER32-N-MC	ER32-N-MC	○
BMT55-AU-ER32-70-S-IC	ER32	70	6500 / 6500	1:1	ICE 70bar	√	TER32-H-MC	TER32-N-MC	ER32-N-IC-MC	○

● Stock ○ Available Upon Order

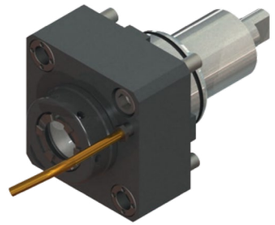
D Living Tools

BMT65

Straight Unit – Collet ER32



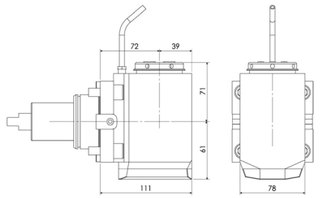
Unit (mm)



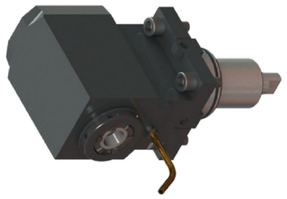
Ordering code	Toolholder	Torque max. (Nm)	n1/n2 (RPM)	Gear ratio	Coolant	Reversion of rotation	Spindle wrench	Nut wrench	Nut	In Stock
BMT65-SU-ER32-65-S-EC	ER32	70	10000/10000	1:1	EC	—	TER32-H-MC	TER32-N-MC	ER32-N-MC	○
BMT65-SU-ER32-65-S-IC	ER32	70	10000 /10000	1:1	ICE 70bar	—	TER32-H-MC	TER32-N-MC	ER32-N-IC-MC	○

● Stock ○ Available Upon Order

Angle Unit – Collet ER32



Unit (mm)



Ordering code	Toolholder	Torque max. (Nm)	n1/n2 (RPM)	Gear ratio	Coolant	Reversion of rotation	Spindle wrench	Nut wrench	Nut	In Stock
BMT65-AU-ER32-72-S-EC	ER32	70	10000/10000	1:1	EC	√	TER32-H-MC	TER32-N-MC	ER32-N-MC	○
BMT65-AU-ER32-72-S-IC	ER32	70	10000 /10000	1:1	ICE 70bar	√	TER32-H-MC	TER32-N-MC	ER32-N-IC-MC	○

● Stock ○ Available Upon Order

Wrenches and Clamping Nuts

Wrenches for ER Clamping Nuts



Ordering code	Size	Type	In Stock
TER25-N-MC	ER25	inlying	○
TER32-N-MC	ER32	inlying	○

● Stock ○ Available Upon Order

ER Clamping Nuts



Ordering code	Size	Type	Internal coolant	In Stock
ER25-N-MC	ER25	inlying	-	○
ER32-N-MC	ER32	inlying	-	○
ER25-N-IC-MC	ER25	inlying	√	○
ER32-N-IC-MC	ER32	inlying	√	○

● Stock ○ Available Upon Order

Hook Wrenches to hold against



D1810A



D1810B

Ordering code	Size	Type	DIN	In Stock
TER25-H-MC	ER25	inlying	1810-B	○
TER32-H-MC	ER32	inlying	1810-B	○

● Stock ○ Available Upon Order

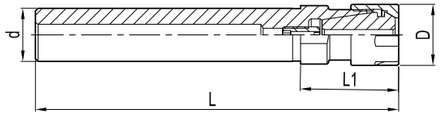
D Living Tools

E

Accessories



ER Collet Chucks Extentions







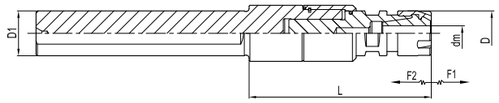
Ordering Code		Dimension (mm)				Nut	Collets	Weight(kg)	Stock
		D	d	L1	L				
C12-	ER11M-100-S	16	12	25	125	ER11-M-S	ER11	0.12	○
	ER11M-150-S	16	12	25	175	ER11-M-S	ER11	0.14	○
C16-	ER11M-100-S	16	16	25	125	ER11-M-S	ER11	0.14	○
	ER11M-150-S	16	16	25	175	ER11-M-S	ER11	0.22	○
	ER16M-100-S	22	16	36	136	ER16-M-S	ER16	0.15	○
	ER16M-150-S	22	16	36	186	ER16-M-S	ER16	0.21	○
C20-	ER16M-100-S	22	20	36	136	ER16-M-S	ER16	0.24	○
	ER16M-150-S	22	20	36	186	ER16-M-S	ER16	0.33	○
	ER20M-100-S	28	20	42	142	ER20-M-S	ER20	0.23	○
	ER20M-150-S	28	20	42	192	ER20-M-S	ER20	0.32	○
	ER20M-200-S	28	20	42	242	ER20-M-S	ER20	0.53	○
	ER25M-100-S	35	20	50	150	ER25-M-S	ER25	0.55	○
C25-	ER20M-150-S	28	25	42	192	ER20-M-S	ER20	0.50	○

Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	ER11	ER16	ER20	ER25	ER32	ER40
Nut	ER11-A-S	ER16-A-S	ER20-A-S	ER25-UM/RD-S	ER32-UM/RD-S	ER40-UM/RD-S
Wrech	TER11-A-S	TER16-A-S	TER20-A-S	TER25-UMKM/RD-S	TER32-UMKM/RD-S	TER40-UMKM/RD-S

Tapping Chuck Extensions



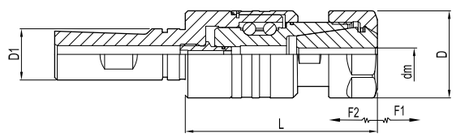




Ordering Code	Apply Taps	Dimension (mm)						Nut	Collets	Weight(kg)	Stock
		D	dm	D1	L	F1	F2				
C16-V11-65-S	M1-M7	16	2.5-7.0	16	65	0.2	0.2	ER11-M-S	ER11	0.22	○

● Stock ○ Available Upon Order

Tapping Chuck Extensions







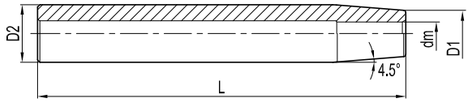
Ordering Code	Apply Taps	Dimension (mm)						Nut	Collets	Weight(kg)	Stock
		D	dm	D1	L	F1	F2				
C20-V20-85-S	M4-M12 (No.8~7/16)	34	3~10	20	85	0.5	0.5	ER20-A-S	ER20	0.35	○
C25-V20-85-S		34	3~10	25	85	0.5	0.5	ER20-A-S	ER20	0.45	○
C25-V32-110-S	M4-M20 (No.8~3/4)	50	3~10	25	110	0.5	0.5	ER32-UM/ RD-S	ER32	0.6	○

Notice: Wrenches and collets shall be ordered separately.

● Stock ○ Available Upon Order

Accessories	ER11	ER16	ER20	ER25	ER32	ER40
Nut	ER11-A-S	ER16-A-S	ER20-A-S	ER25-UM/RD-S	ER32-UM/RD-S	ER40-UM/RD-S
Wrech	TER11-A-S	TER16-A-S	TER20-A-S	TER25-UMKM/RD-S	TER32-UMKM/RD-S	TER40-UMKM/RD-S

Shrink Fit Extensions



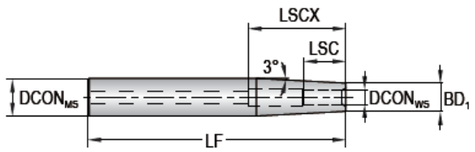


Tolerance class of shank h6

Ordering Code		Dimension (mm)				Weight(kg)	Stock
		D	d	L1	L		
C12-	SF3-160-S	3	8	12	160	0.2	○
	SF4-160-S	4	8	12	160	0.21	○
C16-	SF3-160-S	3	10	16	160	0.22	○
	SF4-160-S	4	10	16	160	0.23	○
	SF5-160-S	5	10	16	160	0.24	○
	SF6-160-S	6	10	16	160	0.25	○
C20-	SF5-160-S	5	14	20	160	0.4	○
	SF6-160-S	6	14	20	160	0.42	○
	SF8-160-S	8	14	20	160	0.44	○
C25-	SF8-160-S	8	20	25	160	0.6	○
	SF10-160-S	10	20	25	160	0.62	○
	SF12-160-S	12	20	25	160	0.65	○
C32-	SF10-160-S	10	27	32	160	0.78	○
	SF12-160-S	12	27	32	160	0.81	○
	SF16-160-S	16	27	32	160	0.83	○
	SF20-160-S	20	27	32	160	0.85	○

● Stock ○ Available Upon Order

Shrink Fit Extensions,3°

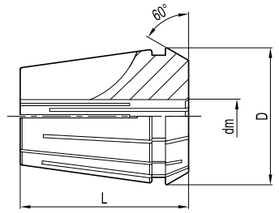




Ordering Code		Dimension (mm)				Stock
		DCON$_{WS}$	DCON$_{MS}$	BD1	LF	
C12-	SFS4-110-S	4	12	10	110	○
C16-	SFS4-110-S	4	16	10	110	○
	SFS4-200-S	4	16	10	200	○
	SFS6-110-S	6	16	12	110	○
	SFS6-160-S	6	16	12	160	○
	SFS6-200-S	6	16	12	200	○
	SFS8-160-S	8	16	14	160	○
	SFS10-160-S	10	16	16	160	○
C20-	SFS4-110-S	4	20	10	110	○
	SFS6-110-S	6	20	12	110	○
	SFS6-160-S	6	20	12	160	○
	SFS6-250-S	6	20	12	250	○
	SFS8-110-S	8	20	14	110	○
	SFS8-160-S	8	20	14	160	○
	SFS8-200-S	8	20	14	200	○
	SFS10-110-S	10	20	16	110	○
	SFS10-160-S	10	20	16	160	○
	SFS10-250-S	10	20	16	250	○
	SFS12-110-S	12	20	18	110	○
C25-	SFS12-250-S	12	25	18	250	○
	SFS16-250-S	16	25	22	250	○

● Stock ○ Available Upon Order

ER Collet





Ordering Code		Dimension (mm)		Weight(kg)
		D	L	
ER	11	11.50	18.5	0.01
	16	17.00	27.5	0.03
	20	21.00	31.5	0.04
	25	26	34	0.06
	32	33	40	0.10
	40	41	46	0.25

Feature

Model	Chucking range
ER11	0.5mm
ER16/20/25/32/40	1mm

Spring Colle Precision

Grade	Range(mm)
A Class	⩽0.01 mm
UP Class	⩽0.005 mm

E Accessories

Naming rule

ER	16	8	A	C	B6.3	S
①	②	③	④	⑤	⑥	⑦

①ER Collet

②Connection Size

③Clamping size

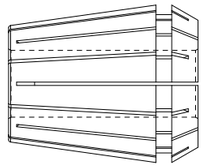
④Precision	
0.01mm	A
0.005mm	UP

⑤Function	
Flange Cooling	None
Internal Cooling	C

⑥The square size

⑦Performance Upgrade Code	
Common Type	None
Upgrade Type	S

ER Collet





Ordering Code		Range(mm)
ER11-	1A-S	1.0-0.5
	1.5A-S	1.5-1.0
	2A-S	2.0-1.5
	2.5A-S	2.5-2.0
	3A-S	3.0-2.5
	3.5A-S	3.5-3.0
	4A-S	4.0-3.5
	4.5A-S	4.5-4.0
	5A-S	5.0-4.5
	5.5A-S	5.5-5.0
	6A-S	6.0-5.5
	6.5A-S	6.5-7.0
	7A-S	7.0-6.5

Ordering Code		Range(mm)
ER16-	1A-S	1.0-0.5
	1.5A-S	1.5-1.0
	2A-S	2.0-1.5
	2.5A-S	2.5-2.0
	3A-S	3.0-2.5
	3.5A-S	3.5-3.0
	4A-S	4.0-3.5
	4.5A-S	4.5-4.0
	5A-S	5.0-4.5
	5.5A-S	5.5-5.0
	6A-S	6.0-5.5
	6.5A-S	6.5-6.0
	7A-S	7.0-6.0
	8A-S	8.0-7.0
	9A-S	9.0-8.0
	10A-S	10-9.0

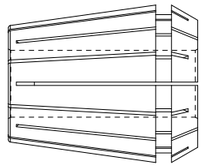
Ordering Code		Range(mm)
ER20-	1A-S	1.0-0.5
	2A-S	2.0-1.0
	3A-S	3.0-2.0
	4A-S	4.0-3.0
	5A-S	5.0-4.0
	6A-S	6.0-5.0
	7A-S	7.0-6.0
	8A-S	8.0-7.0
	9A-S	9.0-8.0
	10A-S	10-9.0
	11A-S	11-10
	12A-S	12-11
	13A-S	13-12

Ordering Code		Range(mm)
ER25-	1A-S	1.0-0.5
	2A-S	2.0-1.0
	3A-S	3.0-2.0
	4A-S	4.0-3.0
	5A-S	5.0-4.0
	6A-S	6.0-5.0
	7A-S	7.0-6.0
	8A-S	8.0-7.0
	9A-S	9.0-8.0
	10A-S	10-9.0
	11A-S	11-10
	12A-S	12-11
	13A-S	13-12
	14A-S	14-13
	15A-S	15-14
	16A-S	16-15

Ordering Code		Range(mm)
ER32-	1A-S	1.0-0.5
	2A-S	2.0-1.0
	3A-S	3.0-2.0
	4A-S	4.0-3.0
	5A-S	5.0-4.0
	6A-S	6.0-5.0
	7A-S	7.0-6.0
	8A-S	8.0-7.0
	9A-S	9.0-8.0
	10A-S	10-9.0
	11A-S	11-10
	12A-S	12-11
	13A-S	13-12
	14A-S	14-13
	15A-S	15-14
	16A-S	16-15
	17A-S	17-16
	18A-S	18-17
	19A-S	19-18
	20A-S	20-19

Ordering Code		Range(mm)
ER40-	4A-S	4.0-3.0
	5A-S	5.0-4.0
	6A-S	6.0-5.0
	7A-S	7.0-6.0
	8A-S	8.0-7.0
	9A-S	9.0-8.0
	10A-S	10-9.0
	11A-S	11-10
	12A-S	12-11
	13A-S	13-12
	14A-S	14-13
	15A-S	15-14
	16A-S	16-15
	17A-S	17-16
	18A-S	18-17
	19A-S	19-18
	20A-S	20-19
	21A-S	21-20
	22A-S	22-21
	23A-S	23-22
	24A-S	24-23
	25A-S	25-24
	26A-S	26-25

ER Precision Collet





Ordering Code		Range(mm)
ER11-	2.5UP-S	2.5-2.0
	3UP-S	3.0-2.5
	3.5UP-S	3.5-3.0
	4UP-S	4.0-3.5
	4.5UP-S	4.5-4.0
	5UP-S	5.0-4.5
	5.5UP-S	5.5-5.0
	6UP-S	6.0-5.5
	6.5UP-S	6.5-7.0
	7UP-S	7.0-6.5

Ordering Code		Range(mm)
ER16-	3UP-S	3.0-2.0
	4UP-S	4.0-3.0
	5UP-S	5.0-4.0
	6UP-S	6.0-5.0
	7UP-S	7.0-6.0
	8UP-S	8.0-7.0
	9UP-S	9.0-8.0
	10UP-S	10-9.0

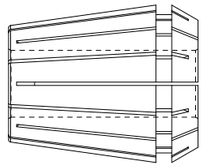
Ordering Code		Range(mm)
ER20-	3UP-S	3.0-2.0
	4UP-S	4.0-3.0
	5UP-S	5.0-4.0
	6UP-S	6.0-5.0
	7UP-S	7.0-6.0
	8UP-S	8.0-7.0
	9UP-S	9.0-8.0
	10UP-S	10-9.0
	11UP-S	11-10
	12UP-S	12-11
	13UP-S	13-12

Ordering Code		Range(mm)
ER25-	3UP-S	3.0-2.0
	4UP-S	4.0-3.0
	5UP-S	5.0-4.0
	6UP-S	6.0-5.0
	7UP-S	7.0-6.0
	8UP-S	8.0-7.0
	9UP-S	9.0-8.0
	10UP-S	10-9.0
	11UP-S	11-10
	12UP-S	12-11
	13UP-S	13-12
	14UP-S	14-13
	15UP-S	15-14
	16UP-S	16-15

Ordering Code		Range(mm)
ER32-	3UP-S	3.0-2.0
	4UP-S	4.0-3.0
	5UP-S	5.0-4.0
	6UP-S	6.0-5.0
	7UP-S	7.0-6.0
	8UP-S	8.0-7.0
	9UP-S	9.0-8.0
	10UP-S	10-9.0
	11UP-S	11-10
	12UP-S	12-11
	13UP-S	13-12
	14UP-S	14-13
	15UP-S	15-14
	16UP-S	16-15
	17UP-S	17-16
	18UP-S	18-17
	19UP-S	19-18
	20UP-S	20-19

Ordering Code		Range(mm)
ER40-	4UP-S	4.0-3.0
	5UP-S	5.0-4.0
	6UP-S	6.0-5.0
	7UP-S	7.0-6.0
	8UP-S	8.0-7.0
	9UP-S	9.0-8.0
	10UP-S	10-9.0
	11UP-S	11-10
	12UP-S	12-11
	13UP-S	13-12
	14UP-S	14-13
	15UP-S	15-14
	16UP-S	16-15
	17UP-S	17-16
	18UP-S	18-17
	19UP-S	19-18
	20UP-S	20-19
	21UP-S	21-20
	22UP-S	22-21
	23UP-S	23-22
	24UP-S	24-23
	25UP-S	25-24
	26UP-S	26-25

ER Tapping Collet



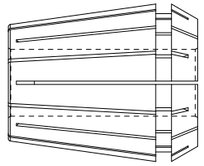


Ordering Code				Taps		
				ISO529/ISO2283	DIN374/DIN376	JISB4430
ER16-4B3.2-S	ER20-4B3.2-S	ER25-4B3.2-S				M3
ER16-5B4-S	ER20-5B4-S	ER25-5B4-S		M5		M4
ER16-5.5B4.5-S	ER20-5.5B4.5-S	ER25-5.5B4.5-S	ER32-5.5B4.5-S			M5
ER16-6B4.5-S	ER20-6B4.5-S	ER25-6B4.5-S	ER32-6B4.5-S			M6
ER16-6B4.9-S	ER20-6B4.9-S	ER25-6B4.9-S	ER32-6B4.9-S		M8	
ER16-6.2B5-S	ER20-6.2B5-S	ER25-6.2B5-S	ER32-6.2B5-S			M8
ER16-6.3B5-S	ER20-6.3B5-S	ER25-6.3B5-S	ER32-6.3B5-S	M6		
ER16-7B5.5-S	ER20-7B5.5-S	ER25-7B5.5-S	ER32-7B5.5-S		M10	M10
ER16-8B6.2-S	ER20-8B6.2-S	ER25-8B6.2-S	ER32-8B6.2-S		M11	
ER16-8B6.3-S	ER20-8B6.3-S	ER25-8B6.3-S	ER32-8B6.3-S	M10		
ER16-8.5B6.5-S	ER20-8.5B6.5-S	ER25-8.5B6.5-S	ER32-8.5B6.5-S			M12
	ER20-9B7.1-S	ER25-9B7.1-S	ER32-9B7.1-S	ER32-9B7.1-S	M12	M12	
	ER20-10B8-S	ER25-10B8-S	ER32-10B8-S	ER32-10B8-S	M10		
	ER20-10.5B8-S	ER25-10.5B8-S	ER32-10.5B8-S	ER32-10.5B8-S			M14
	ER20-11B9-S	ER25-11B9-S	ER32-11B9-S	ER32-11B9-S		M14	
	ER20-12B9-S	ER25-12B9-S	ER32-12B9-S	ER32-12B9-S		M16	M16
		ER25-12.5B10-S	ER32-12.5B10-S	ER32-12.5B10-S	M16		M16
			ER32-14B11-S	ER32-14B11-S	M18		M18
			ER32-14B11.2-S	ER32-14B11.2-S	M18/M20	M18	M18
			ER32-15B12-S	ER32-15B12-S			M20
			ER32-16B12-S	ER32-16B12-S		M20	
				ER40-18B14-S	M24		
				ER40-20B16-S	M27/M30	M27	

Notice:
1. The handle of the tap must be inserted into the square slot.
2. Please confirm the diameter of the taper shank and the size of the square before choosing the type.

E Accessories

ER Coolant Collet





Ordering Code		Range(mm)
ER11-	3C-S	3
	3.5C-S	3.5
	4C-S	4
	4.5C-S	4.5
	5C-S	5
	5.5C-S	5.5
	6C-S	6
	6.5C-S	6.5
	7C-S	7

Ordering Code		Range(mm)
ER16-	3C-S	3
	4C-S	4
	5C-S	5
	6C-S	6
	7C-S	7
	8C-S	8
	9C-S	9
	10C-S	10

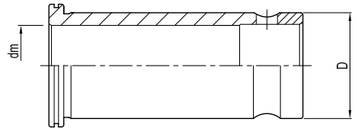
Ordering Code		Range(mm)
ER20-	7C-S	7
	8C-S	8
	9C-S	9
	10C-S	10
	11C-S	11
	12C-S	12
	13C-S	13

Ordering Code		Range(mm)
ER25-	8C-S	8
	9C-S	9
	10C-S	10
	11C-S	11
	12C-S	12
	13C-S	13
	14C-S	14
	15C-S	15
	16C-S	16

Ordering Code		Range(mm)
ER32-	8C-S	8
	9C-S	9
	10C-S	10
	11C-S	11
	12C-S	12
	13C-S	13
	14C-S	14
	15C-S	15
	16C-S	16
	17C-S	17
	18C-S	18
	19C-S	19
	20C-S	20

Ordering Code		Range(mm)
ER40-	10C-S	10
	11C-S	11
	12C-S	12
	13C-S	13
	14C-S	14
	15C-S	15
	16C-S	16
	17C-S	17
	18C-S	18
	19C-S	19
	20C-S	20
	21C-S	21
	22C-S	22
	23C-S	23
	24C-S	24
	25C-S	25
	26C-S	26

GC Straight Collet

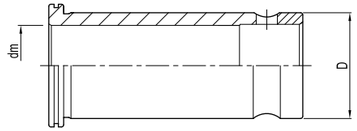




Ordering Code		Dimension (mm)		Stock
		D	dm	
GC20-	3A-S	20	3	○
	4A-S	20	4	○
	5A-S	20	5	○
	6A-S	20	6	○
	8A-S	20	8	○
	10A-S	20	10	○
	12A-S	20	12	○
	14A-S	20	14	○
	16A-S	20	16	○
GC25	4A-S	25	4	○
	5A-S	25	5	○
	6A-S	25	6	○
	8A-S	25	8	○
	10A-S	25	10	○
	12A-S	25	12	○
	14A-S	25	14	○
	16A-S	25	16	○
	18A-S	25	18	○
	20A-S	25	20	○
GC32-	6A-S	32	6	○
	8A-S	32	8	○
	10A-S	32	10	○
	12A-S	32	12	○
	14A-S	32	14	○
	16A-S	32	16	○
	18A-S	32	18	○
	20A-S	32	20	○
	24A-S	32	24	○
	25A-S	32	25	○

E Accessories

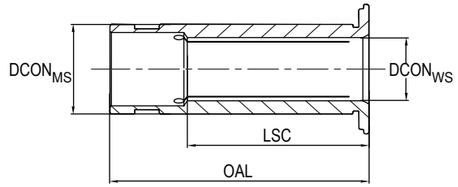
GC Straight Collet





Ordering Code		Dimension (mm)		Stock
		D	dm	
GC42-	6A-S	42	6	○
	8A-S	42	8	○
	10A-S	42	10	○
	12A-S	42	12	○
	14A-S	42	14	○
	16A-S	42	16	○
	18A-S	42	18	○
	20A-S	42	20	○
	24A-S	42	24	○
	25A-S	42	25	○
	32A-S	42	32	○

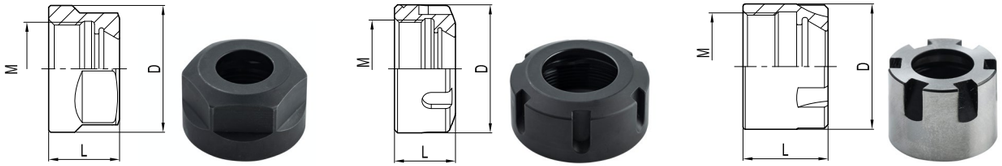
Hydraulic Collet - Internal Cooling





Ordering Code		Dimension (mm)				Stock
		DCON$_{WS}$	DCON$_{MS}$	LSC	OAL	
ODHC12-	3-S	3	12	16.5	47.5	○
	4-S	4	12	16.5	47.5	○
	5-S	5	12	16.5	47.5	○
	6-S	6	12	24	47.5	○
	8-S	8	12	25	47.5	○
ODHC20-	3-S	3	20	17.5	52.5	○
	4-S	4	20	17.5	52.5	○
	5-S	5	20	17.5	52.5	○
	6-S	6	20	25.5	52.5	○
	7-S	7	20	28	52.5	○
	8-S	8	20	28	52.5	○
	9-S	9	20	32.5	52.5	○
	10-S	10	20	32.5	52.5	○
	11-S	11	20	36	52.5	○
	12-S	12	20	36	52.5	○
	13-S	13	20	36.5	52.5	○
	14-S	14	20	37	52.5	○
	15-S	15	20	37	52.5	○
	16-S	16	20	37.5	52.5	○
ODHC32-	6-S	6	32	25.5	63.5	○
	8-S	8	32	27.5	63.5	○
	10-S	10	32	30.5	63.5	○
	12-S	12	32	30.5	63.5	○
	14-S	14	32	32.5	63.5	○
	16-S	16	32	40.5	63.5	○
	18-S	18	32	40.5	63.5	○
	20-S	20	32	40.5	63.5	○
	25-S	25	32	48.5	63.5	○

Clamping Nut For ER Collet Chuck



Ordering Code		Figure	Dimension (mm)		
			D	L	M
ER	11-A-S	A	19	11.3	M 14XP0.75
	16-A-S	A	28	17.5	M 22XP1.5
	20-A-S	A	34	19	M 25XP1.5
	25-UM/RD-S	B	42	20	M 32XP1.5
	32-UM/RD-S	B	50	23	M 40XP1.5
	40-UM/RD-S	B	63	26	M 50XP1.5
	11-M-S	C	16	12	M 13XP0.75
	16-M-S	C	22	18	M 19XP1.0
	20-M-S	C	28	19	M 24XP1.0
	25-M-S	C	35	20	M 30XP1.0

Wrench For ER Tool Holder



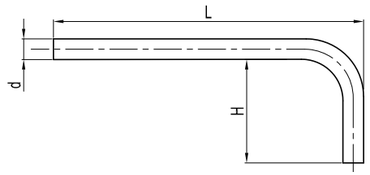
Ordering Code		Figure	Nuts	Weight(kg)
TER	11-A-S	A	ER11-A	0.1
	16-A-S	A	ER16-A	0.1
	20-A-S	A	ER20-A	0.1
	25UMKM/RD-S	B	ER25-UM/RD	0.2
	32UMKM/RD-S	B	ER32-UM/RD	0.2
	40UMKM/RD-S	B	ER40-UM/RD	0.3
	11-M-S	C	ER11-M	0.2
	16-M-S	C	ER16-M	0.2
	20-M-S	C	ER20-M	0.2
	25-M-S	C	ER25-M	0.2

Wrench For Tool Holder GLC



Ordering Code		Tool holder（mm）	Weight(kg)
TGLC	20-S	GLC20	0.1
	32-S	GLC32	0.1
	42-S	GLC42	0.2

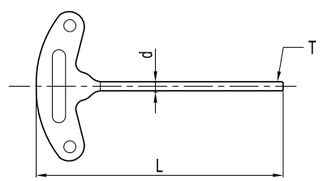
Allen Key





Ordering Code	Dimension (mm)		
	d	L	h
TH03L-S	3	65	20
TH04L-S	4	70	25
TH05L-S	5	78	28
TH06L-S	6	85	32
TH08L-S	8	100	36
TH10L-S	10	105	40
TH12L-S	12	113	44
TH14L-S	14	118	48
TH17L-S	17	125	55

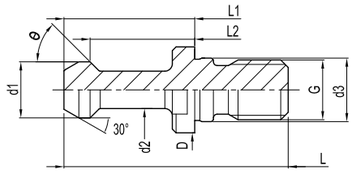
Wrench – T





Ordering Code	Dimension (mm)		
	d	L	h
TH03T-L-S	3	110	3
TH04T-L-S	4	120	4
TH05T-L-S	5	150	5
TH06T-L-S	6	170	6
TH08T-L-S	8	190	8

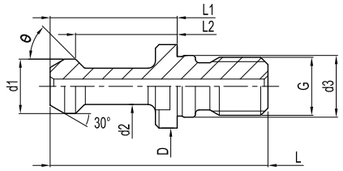
BT Pull Stud Without Hole





Ordering Code		Coolant dia.	Dimension (mm)									Weight(kg)
			D	d1	d2	d3	L1	L2	L	θ	G	
BT40-	45C-S	4	23	15	10	17	35	28	60	45°	M16	0.07
	60C-S	4	23	15	10	17	35	28	60	60°	M16	0.07
	90C-S	4	23	15	10	17	35	28	60	90°	M16	0.07
BT50-	45C-S	6	38	23	17	25	45	35	85	45°	M24	0.25
	60C-S	6	38	23	17	25	45	35	85	60°	M24	0.25
	90C-S	6	38	23	17	25	45	35	85	90°	M24	0.25

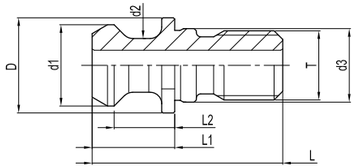
BT Pull Stud With Cooling Hole





Ordering Code		Dimension (mm)									Weight(kg)
		D	d1	d2	d3	L1	L2	L	θ	G	
BT30-	45-S	16.5	11	7	12.5	23	18	43	45°	M12	0.03
	60-S	16.5	11	7	12.5	23	18	43	60°	M12	0.03
BT40-	45-S	23	15	10	17	35	28	60	45°	M16	0.07
	60-S	23	15	10	17	35	28	60	60°	M16	0.07
	90-S	23	15	10	17	35	28	60	90°	M16	0.07
BT50-	45-S	38	23	17	25	45	35	85	45°	M24	0.25
	60-S	38	23	17	25	45	35	85	60°	M24	0.25
	90-S	38	23	17	25	45	35	85	90°	M24	0.25

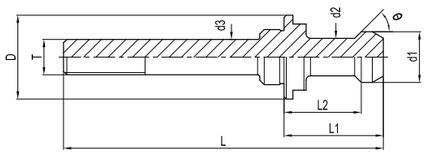
MAZAK Pull Stud





Ordering Code	Dimension (mm)									Weight(kg)
	BD1	BD2	BD3	BD4	OAL	LB1	LB2	LB3	CRKS	
MAZAK40-S	22	18.8	12.45	17	44.1	19.1	14.02	5	M16	0.02
MAZAK50-S	37	28.96	20.83	25	65.2	25.2	17.58	8	M24	0.1

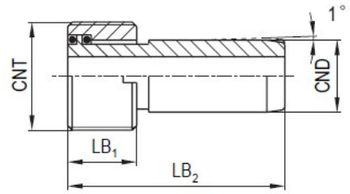
MTB Tension Screw





Ordering Code	Dimension (mm)									Weight(kg)
	D	d1	d2	d3	L1	L2	L	θ	T	
BT40-45-MT4-S	23	15	10	17	35	28	110	45°	M16	0.1
BT50-45-MT5-S	38	23	17	25	45	35	165	45°	M20	0.65

HSK Coolant Tube





Ordering Code	Dimension (mm)			
	CND	CNT	LB2	LB1
HSK40-CPA-S	8	M12X1.0	29.5	7.5
HSK50-CPA-S	10	M16X1.0	33	9.5
HSK63-CPA-S	12	M18X1.0	36.6	11.5
HSK100-CPA-S	16	M24X1.5	44.2	15.5

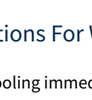
F

Appendix



Announcements

Heating

Heating	Inserting	Cooling	Removing
			
Place tool holder in heating	Insert the cutterto the expanded holder	Cool the holderand hold the cutter	Heat the holderand remove the cutter

Tools

- The holder with thin-walled and hole diameter below 8mm is only suitable for the clamping of cemented carbide tools.walled and hole diameter below 8mm is only suitable for the clamping of cemented carbide toolsl.
- No shrink release is possible for any tool for high speed steel.
- A tools exceeding its tolerance can cause breakage or slippage.

Retention Knob(BT)

- Use a retention knob that has perforations, or remove the retention knob and heat it.
- The typical retention knob has no vent to release air, preventing tools from being insertedr.

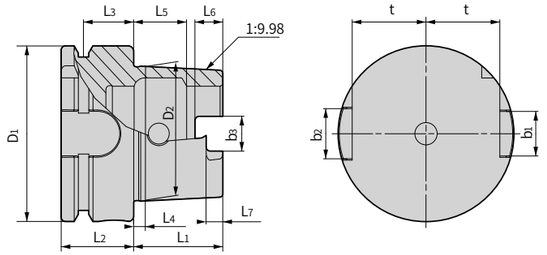
Coolant Duct(HSK)

- Heating the holder with coolant duct attached, the o-ring will be damaged.
- Remove the coolant duct before heating the holder.

Precautions For Water-Cooling

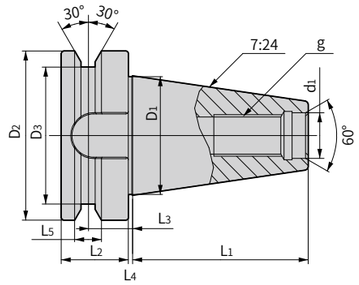
- Water-cooling immediately after shrink fitting may result in burns due to the large quantity of steam generated.
- Be sure to set the shrink-fitting heater setting to cool and cool the holder for at least one minute before water-cooling it.
- Moisture left on the holder may lead to rust formation and damage to the holder, so be sure to completely remove all moisture.

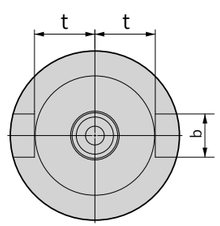
HSK Tool Holder Ordering Code - DIN69893



Ordering Code	Dimension (mm)												
	D1	D2	L1	L2	L3	L4	L5	L6	L7	b1	b2	b3	t
HSK40A	40	30.007	20	20	16	4	11.42	6	3.5	11	9	8.05	17
HSK50A	50	38.009	25	26	18	5	14.13	7.5	4.5	14	12	10.54	21
HSK63A	63	48.01	32	26	18	6.3	18.13	10	6	18	16	12.5	26.5
HSK100A	100	75.013	50	29	20	10	28.56	15	10	22	20	20	44

BT Tool Holder Ordering Code - MAS403BT





Ordering Code	Dimension (mm)											
	D1	d1	L1	D2	D3	L2	L3	L4	L5	b	t	g
BT30	31.75	12.5	48.4	46	38	20	13.6	2	8	16.1	16.3	M12
BT40	44.45	17	65.4	63	53	25	16.6	2	10	16.1	22.6	M16
BT50	69.85	25	101.8	100	85	35	23.2	3	15	25.7	35.4	M24

MEMO

F Appendix

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