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THE EXPERT OF DIFFICULT MACHINING



CUTTING TOOL CATALOGUE

Chuck

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Tooling System Denomination System

HSK-A63	-	FM	-	A	-	22	-	60	-	C
1		2		3		4		5		6

1-Spindle
HSK-A63 HSK-A100 BT40 BT50

2-Type of Chuck	
Code	Description
HC	Hydraulic Chuck
SF	Shrink Fit Chuck
ER	ER Collet Chuck
SL	Side Lock Chuck
PC	Power Milling Chuck
FM	Face Milling Arbor

3-Distinguishing Code	
Shrink Fit Chuck/ Hydraulic Chuck/Power Chuck	A----- Standard S----- Mini P----- Power X----- Adjustable
Side Lock Chuck	B----- Side lock E----- 2° angled side lock
Face Milling Arbor	A----- Common clamping screw B----- Clamping with shim screw C----- Periphery clamping screw D----- Anti-vibration type
ER Collet Chuck	None----- Standard V----- For Tapping G----- High speed type

4- Clamping Diameter
DCONWS=22mm

5-Length (LF)
LF=60mm

6- Other Information	
C	Coolant through end face

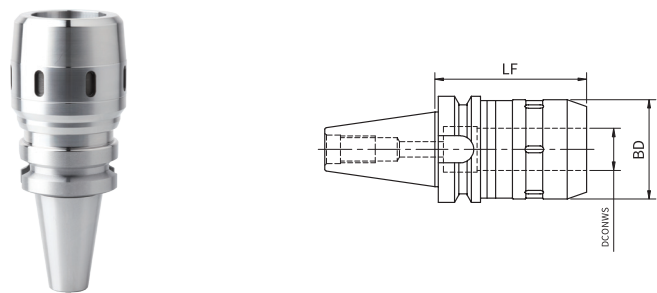
Product Overview

	Power chuck	Collet chuck holder	Face milling cutter arbor	Side lock chuck	Hydraulic chuck	Shrink Fit Chuck
Series						
Enforce standards	JIS B6339	JIS B6339	JIS B6339	JIS B6339	JIS B6339	JIS B6339
Finishing	●	●	●		●	●
High-speed cutting		●			●	●
Roughing	●	●	●	●		
Holding range	6-32	4-25	22-60	20-40	6-32	3-32
Attention	Collet chuck check/cleaning	Collet chuck check/cleaning	Screw tightened	Screw tightened	Clamping end cavity check/cleaning	Clamping end cavity check/cleaning
Spindle	BT40、BT50	BT40、BT50	BT40、BT50	BT40、BT50	BT40、BT50	BT40、BT50
Tool clamping	PC 20/25/32	ER 16/20/25/32/40	FM_ 22/27/32/40/60	SLB 20/25/32/40	HCA 6/8/10/12/14/ 16/20/25/32	SF 3/4/5/6/8/10/12/ 14/16/18/20/25/32

	Power chuck	Collet chuck holder	Face milling cutter arbor	Side lock chuck	Hydraulic chuck	Shrink Fit Chuck
Series						
Enforce standards	DIN69893	DIN69893	DIN69893	DIN69893	DIN69893	DIN69893
Finishing	●	●		●	●	●
High-speed cutting		●			●	●
Roughing	●	●	●	●		
Holding range	6-42	4-25	22-60	16-40	6-32	3-32
Attention	Collet chuck check/cleaning	Collet chuck check/cleaning	Screw tightened	Screw tightened	Clamping end cavity check/cleaning	Clamping end cavity check/cleaning
Spindle	HSK-A63 HSK-A100	HSK-A63 HSK-A100	HSK-A63 HSK-A100	HSK-A63 HSK-A100	HSK-A63 HSK-A100	HSK-A63 HSK-A100
Tool clamping	PC 20/25/32/42	ER 16/20/25/32/40	FM_ 22/27/32/40/60	SLB 16/20/25/32/40	HCA 6/8/10/12/14/ 16/20/25/32	SF 3/4/5/6/8/10/12/ 14/16/18/20/25/32

Power Chuck

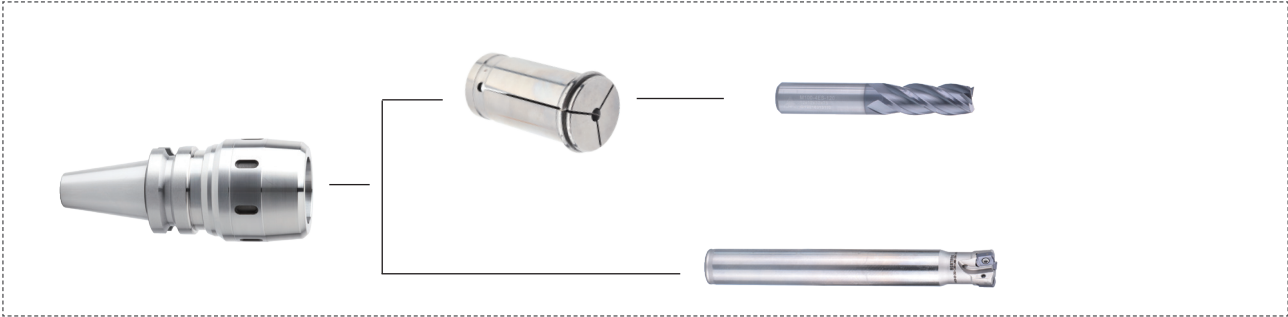
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Product Code	Spindle	Dimensions (mm)			Wrench (optional)
		DCONWS	BD	LF	
BT40-PC20-80	BT40	20	53	80	W-C20
BT40-PC25-90	BT40	25	58	90	W-C25
BT40-PC32-105	BT40	32	68	105	W-C32
BT50-PC25-90	BT50	25	58	90	W-C25
BT50-PC32-105	BT50	32	68	105	W-C32

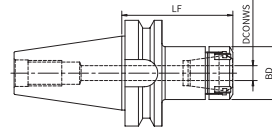
Note: Wrench and the power collet needs to be ordered separately.

Tooling assembly



ER Collet Chuck

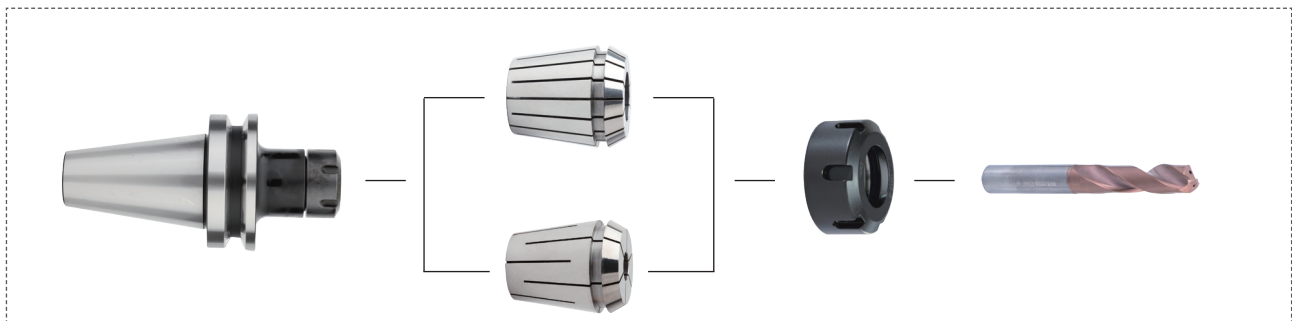
JIS B6339



Product Code	Spindle	Dimensions (mm)			Nut	Collet (optional)
		DCONWS	BD	LF		
BT40-ER16-70	BT40	4-10	28	70	ER16-A	ER16
BT40-ER16-100	BT40	4-10	28	100	ER16-A	ER16
BT40-ER16-150	BT40	4-10	28	150	ER16-A	ER16
BT40-ER20-70	BT40	4-12	34	70	ER20-A	ER20
BT40-ER20-100	BT40	4-12	34	100	ER20-A	ER20
BT40-ER20-150	BT40	4-12	34	150	ER20-A	ER20
BT40-ER25-70	BT40	4-16	42	70	ER25-UM	ER25
BT40-ER25-100	BT40	4-16	42	100	ER25-UM	ER25
BT40-ER25-150	BT40	4-16	42	150	ER25-UM	ER25
BT40-ER32-70	BT40	4-20	50	70	ER32-UM	ER32
BT40-ER32-100	BT40	4-20	50	100	ER32-UM	ER32
BT40-ER32-150	BT40	4-20	50	150	ER32-UM	ER32

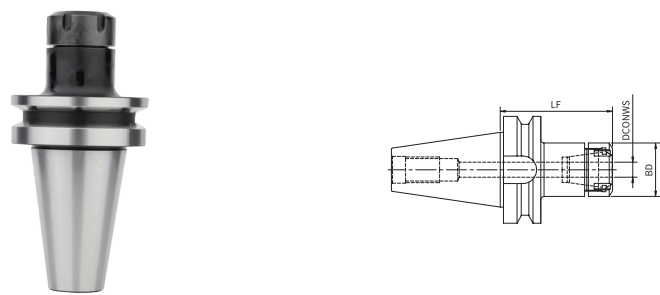
Note: Wrench, axial limit screw and collet needs to be ordered separately.

Tooling assembly



ER Collet Chuck

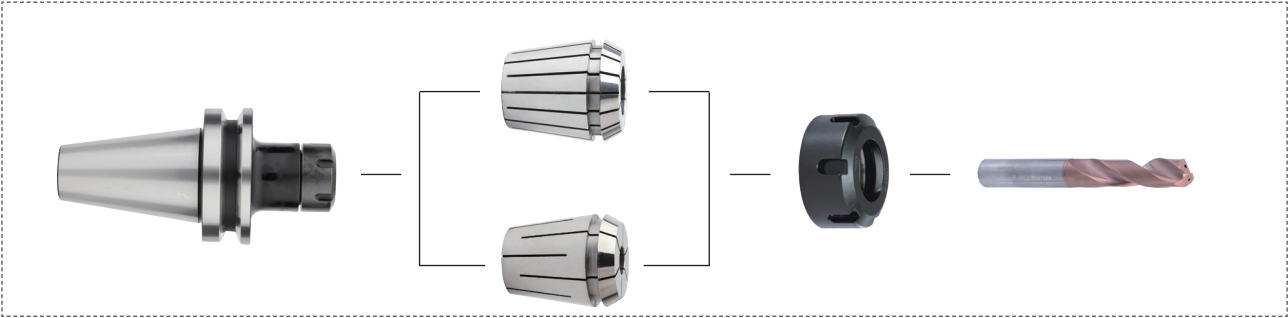
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Product Code	Spindle	Dimensions (mm)			Nut	Collet (optional)
		DCONWS	BD	LF		
BT50-ER16-70	BT50	4-10	28	70	ER16-A	ER16
BT50-ER16-100	BT50	4-10	28	100	ER16-A	ER16
BT50-ER16-150	BT50	4-10	28	150	ER16-A	ER16
BT50-ER20-70	BT50	4-12	34	70	ER20-A	ER20
BT50-ER20-100	BT50	4-12	34	100	ER20-A	ER20
BT50-ER20-150	BT50	4-12	34	150	ER20-A	ER20
BT50-ER25-100	BT50	4-16	42	100	ER25-UM	ER25
BT50-ER25-150	BT50	4-16	42	150	ER25-UM	ER25
BT50-ER32-100	BT50	4-20	50	100	ER32-UM	ER32
BT50-ER32-150	BT50	4-20	50	150	ER32-UM	ER32
BT50-ER40-100	BT50	4-26	63	100	ER40-UM	ER40
BT50-ER40-150	BT50	4-26	63	150	ER40-UM	ER40
BT50-ER40-200	BT50	4-26	63	200	ER40-UM	ER40

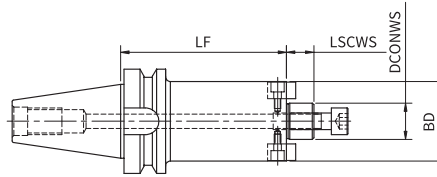
Note: Wrench, axial limit screw and collet needs to be ordered separately.

Tooling assembly



Face Milling Arbor

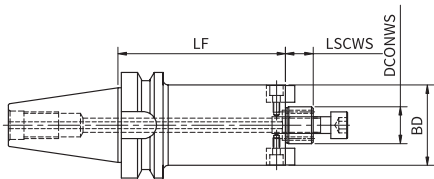
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Product Code	Spindle	Dimensions (mm)				Clamping screw
		DCONWS	BD	LF	LSCWS	
BT40-FMA22-45	BT40	22	48	45	16.5	M10*30
BT40-FMA22-60	BT40	22	48	60	16.5	
BT40-FMA22-100	BT40	22	48	100	16.5	
BT40-FMA22-150	BT40	22	48	150	16.5	
BT40-FMA27-45	BT40	27	60	45	18.5	M12*30
BT40-FMA27-60	BT40	27	60	60	18.5	
BT40-FMA27-100	BT40	27	60	100	18.5	
BT40-FMA27-150	BT40	27	60	150	18.5	
BT40-FMA27-200	BT40	27	60	200	18.5	
BT40-FMB32-60	BT40	32	62	60	22	M16*35
BT40-FMB32-100	BT40	32	62	100	22	
BT40-FMB32-150	BT40	32	62	150	22	
BT40-FMB32-200	BT40	32	62	200	22	
BT40-FMB40-60	BT40	40	80	60	23	M20*35
BT40-FMB40-100	BT40	40	80	100	23	
BT40-FMB40-150	BT40	40	80	150	23	
BT40-FMB40-200	BT40	40	80	200	23	

Face Milling Arbor With Internal Coolant

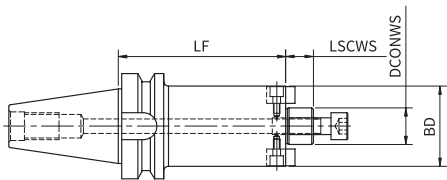
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Product Code	Spindle	Dimensions (mm)				Internal coolant	Clamping screw
		DCONWS	BD	LF	LSCWS		
BT40-FMA22-60-C	BT40	22	48	60	16.5		M10*30
BT40-FMA22-100-C	BT40	22	48	100	16.5		
BT40-FMA27-60-C	BT40	27	60	60	18.5		M12*30
BT40-FMA27-100-C	BT40	27	60	100	18.5		
BT40-FMB32-60-C	BT40	32	62	60	22		M16*35
BT40-FMB32-100-C	BT40	32	62	100	22		
BT40-FMB40-60-C	BT40	40	80	60	23		M20*35

Face Milling Arbor

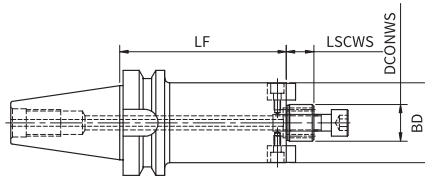
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Product Code	Spindle	Dimensions (mm)				Clamping screw
		DCONWS	BD	LF	LSCWS	
BT50-FMA22-60	BT50	22	48	60	16.5	M10*30
BT50-FMA22-100	BT50	22	48	100	16.5	
BT50-FMA22-150	BT50	22	48	150	16.5	
BT50-FMA22-200	BT50	22	48	200	16.5	
BT50-FMA27-60	BT50	27	60	60	18.5	M12*30
BT50-FMA27-100	BT50	27	60	100	18.5	
BT50-FMA27-150	BT50	27	60	150	18.5	
BT50-FMA27-200	BT50	27	60	200	18.5	
BT50-FMB32-60	BT50	32	73	60	22	M16*35
BT50-FMB32-100	BT50	32	73	100	22	
BT50-FMB32-150	BT50	32	73	150	22	
BT50-FMB32-200	BT50	32	73	200	22	
BT50-FMB40-60	BT50	40	80	60	23	M20*35
BT50-FMB40-100	BT50	40	80	100	23	
BT50-FMB40-150	BT50	40	80	150	23	
BT50-FMB40-200	BT50	40	80	200	23	

Face Milling Arbor With Internal Coolant

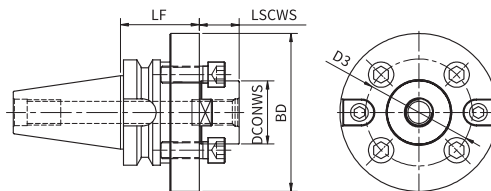
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Product Code	Spindle	Dimensions (mm)				Internal coolant	Clamping screw
		DCONWS	BD	LF	LSCWS		
BT50-FMA22-60-C	BT50	22	48	60	16.5		M10*30
BT50-FMA22-100-C	BT50	22	48	100	16.5		
BT50-FMA27-60-C	BT50	27	60	60	18.5		M12*30
BT50-FMA27-100-C	BT50	27	60	90	18.5		
BT50-FMB32-60-C	BT50	32	73	60	22		M16*35
BT50-FMB32-100-C	BT50	32	73	100	22		
BT50-FMB40-60-C	BT50	40	80	60	23		M20*35
BT50-FMB40-100-C	BT50	40	80	100	23		

Face Milling Arbor for Large Diameter Cutting Tools

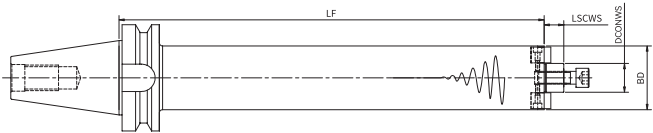
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Product Code	Spindle	Dimensions (mm)					Clamping screw
		DCONWS	BD	D3	LF	LSCWS	
BT50-FMC40-60	BT50	40	98	66.7	60	23	M12*45
BT50-FMC40-100	BT50	40	98	66.7	100	23	
BT50-FMC40-150	BT50	40	98	66.7	150	23	
BT50-FMC60-75	BT50	60	140	101.6	75	25	M16*50

Anti-Vibration Face Milling Arbor

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Product Code	Spindle	Dimensions (mm)				Weight (Kg)
		DCONWS	BD	LF	LSCWS	
BT50-FMD22-300-D48	BT50	22	48	300	18	7.9
BT50-FMD22-400-D48	BT50	22	48	400	18	9.3
BT50-FMD22-400-D58	BT50	22	58	400	18	12.5
BT50-FMD22-500-D58	BT50	22	58	500	18	14.9
BT50-FMD27-400-D58	BT50	27	58	400	20	13.7
BT50-FMD27-500-D58	BT50	27	58	500	20	15.1
BT50-FMD27-500-D74	BT50	27	74	500	20	21.2
BT50-FMD32-500-D74	BT50	32	74	500	21	21.4

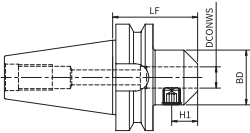
Note: Made-to-order.

Side Lock Chuck

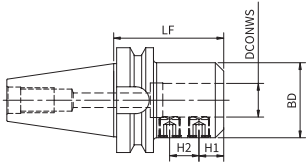
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Style1



Style2



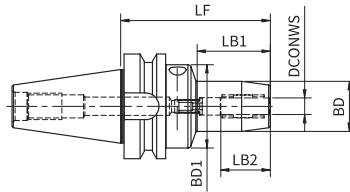
Product Code	Spindle	Dimensions (mm)					Style
		DCONWS	BD	H1	H2	LF	
BT40-SLB20-63	BT40	20	52	25	-	63	1
BT40-SLB25-100	BT40	25	65	24	25	100	2
BT40-SLB32-100	BT40	32	72	24	28	100	2
BT50-SLB20-80	BT50	20	52	25	-	80	1
BT50-SLB25-100	BT50	25	65	24	25	100	2
BT50-SLB32-105	BT50	32	72	24	28	105	2
BT50-SLB40-115	BT50	40	80	30	32	115	2

Hydraulic Chuck

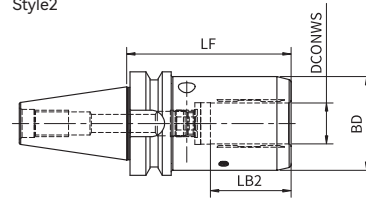
JIS B6339



Style1



Style2



Product Code	Spindle	Dimensions (mm)						HC Collet	Style
		DCONWS	BD	BD1	LF	Step Length LB1	Min. Clamping Depth LB2		
BT40-HCA06-90	BT40	6	28	50	90	44	27.5	-	1
BT40-HCA08-90	BT40	8	30	50	90	39	27.5	-	1
BT40-HCA10-90	BT40	10	32	50	90	44	32.5	-	1
BT40-HCA12-90	BT40	12	34	50	90	44	37.5	HC12-..	1
BT40-HCA14-90	BT40	14	36	50	90	44	37.5	-	1
BT40-HCA16-90	BT40	16	38	50	90	48	42.5	-	1
BT40-HCA18-90	BT40	18	41	50	90	48	42.5	-	1
BT40-HCA20-90	BT40	20	43	50	90	48	42.5	HC20-..	1
BT40-HCA25-100	BT40	25	57	/	100	/	51	-	2
BT40-HCA32-105	BT40	32	63	/	105	/	55	HC32-..	2

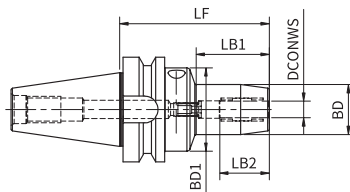
Note: Collet excluded; preset dynamic balance G2.5 20000rpm, runout ≤ 0.003mm at 3xD.

Hydraulic Chuck

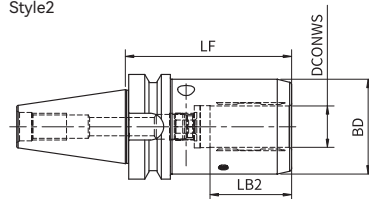
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Style1



Style2

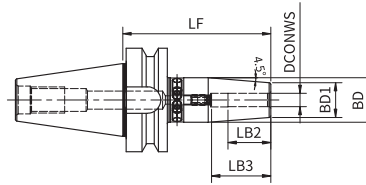


Product Code	Spindle	Dimensions (mm)						HC Collet	Style
		DCONWS	BD	BD1	LF	Step Length LB1	Min. Clamping Depth LB2		
BT50-HCA06-90	BT50	6	28	50	90	32	27.5	-	1
BT50-HCA08-90	BT50	8	30	50	90	32	27.5	-	1
BT50-HCA10-90	BT50	10	32	50	90	32	32.5	-	1
BT50-HCA12-90	BT50	12	34	50	90	32	37.5	HC12-..	1
BT50-HCA14-90	BT50	14	36	50	90	32	37.5	-	1
BT50-HCA16-90	BT50	16	38	50	90	32	42.5	-	1
BT50-HCA18-90	BT50	18	41	50	90	32	42.5	-	1
BT50-HCA20-90	BT50	20	43	50	90	32	42.5	HC20-..	1
BT50-HCA25-105	BT50	25	57	/	105	/	51	-	2
BT50-HCA32-115	BT50	32	63	/	115	/	55	HC32-..	2

Note: Collet excluded; preset dynamic balance G2.5 20000rpm, runout ≤ 0.003mm at 3xD.

Shrink Fit Chuck

JIS B6339

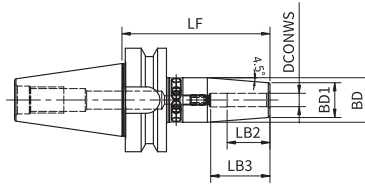


Product Code	Spindle	Dimensions (mm)					
		DCONWS	BD1	BD	LF	Max. Clamping Depth LB3	Min. Clamping Depth LB2
BT40-SF03-90	BT40	3	10	16	90	-	9
BT40-SF04-90	BT40	4	10	16	90	-	12
BT40-SF05-90	BT40	5	10	16	90	-	15
BT40-SF06-90	BT40	6	21	27	90	36	26
BT40-SF06-130	BT40	6	21	27	130	36	26
BT40-SF06-160	BT40	6	21	27	160	36	26
BT40-SF08-90	BT40	8	21	27	90	36	26
BT40-SF08-130	BT40	8	21	27	130	36	26
BT40-SF08-160	BT40	8	21	27	160	36	26
BT40-SF10-90	BT40	10	24	32	90	42	32
BT40-SF10-130	BT40	10	24	32	130	42	32
BT40-SF10-160	BT40	10	24	32	160	42	32
BT40-SF12-90	BT40	12	80	32	90	47	37
BT40-SF12-130	BT40	12	80	32	130	47	37
BT40-SF12-160	BT40	12	80	32	160	47	37
BT40-SF14-90	BT40	14	80	34	90	47	37
BT40-SF14-130	BT40	14	27	34	130	47	37
BT40-SF14-160	BT40	14	27	34	160	47	37
BT40-SF16-90	BT40	16	27	34	90	50	40
BT40-SF16-130	BT40	16	27	34	130	50	40
BT40-SF16-160	BT40	16	27	34	160	50	40
BT40-SF18-90	BT40	18	33	42	90	50	40
BT40-SF18-130	BT40	18	33	42	130	50	40
BT40-SF18-160	BT40	18	33	42	160	50	40
BT40-SF20-90	BT40	20	33	42	90	52	42
BT40-SF20-130	BT40	20	33	42	130	52	42
BT40-SF20-160	BT40	20	33	42	160	52	42
BT40-SF25-100	BT40	25	44	53	100	58	48
BT40-SF25-130	BT40	25	44	53	130	58	48
BT40-SF25-160	BT40	25	44	53	160	58	48
BT40-SF32-100	BT40	32	44	53	100	58	48
BT40-SF32-130	BT40	32	44	53	130	58	48
BT40-SF32-160	BT40	32	44	53	160	58	48

Note: Chuck comes standard with an axial adjusting screw, including a hole for a balancing screw, preset dynamic balance G2.5 20000rpm, and runout ≤ 0.003mm at 3xD.

Shrink Fit Chuck

JIS B6339

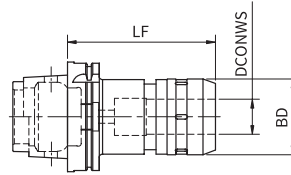


Product Code	Spindle	Dimensions (mm)					
		DCONWS	BD1	BD	LF	Max. Clamping Depth LB3	Min. Clamping Depth LB2
BT50-SF06-100	BT50	6	21	27	100	36	26
BT50-SF06-130	BT50	6	21	27	130	36	26
BT50-SF06-160	BT50	6	21	27	160	36	26
BT50-SF08-100	BT50	8	21	27	100	36	26
BT50-SF08-130	BT50	8	21	27	130	36	26
BT50-SF08-160	BT50	8	21	32	160	36	26
BT50-SF10-100	BT50	10	24	32	100	42	32
BT50-SF10-130	BT50	10	24	32	130	42	32
BT50-SF10-160	BT50	10	24	32	160	42	32
BT50-SF12-100	BT50	12	24	32	100	47	37
BT50-SF12-130	BT50	12	24	32	130	47	37
BT50-SF12-160	BT50	12	24	32	160	47	37
BT50-SF14-100	BT50	14	80	34	100	47	37
BT50-SF14-130	BT50	14	80	34	130	47	37
BT50-SF14-160	BT50	14	80	34	160	47	37
BT50-SF16-100	BT50	16	80	34	100	50	40
BT50-SF16-130	BT50	16	27	34	130	50	40
BT50-SF16-160	BT50	16	27	34	160	50	40
BT50-SF18-100	BT50	18	33	42	100	50	40
BT50-SF18-130	BT50	18	33	42	130	50	40
BT50-SF18-160	BT50	18	33	42	160	50	40
BT50-SF20-100	BT50	20	33	42	100	52	42
BT50-SF20-130	BT50	20	33	42	130	52	42
BT50-SF20-160	BT50	20	33	42	160	52	42
BT50-SF25-100	BT50	25	44	53	100	58	48
BT50-SF25-130	BT50	25	44	53	130	58	48
BT50-SF25-160	BT50	25	44	53	160	58	48
BT50-SF32-100	BT50	32	44	53	100	58	48
BT50-SF32-130	BT50	32	44	53	130	58	48
BT50-SF32-160	BT50	32	44	53	160	58	48

Note: Chuck comes standard with an axial adjusting screw, including a hole for a balancing screw, preset dynamic balance G2.5 20000rpm, and runout ≤ 0.003mm at 3xD.

High-Speed Power Chuck

DIN 69893

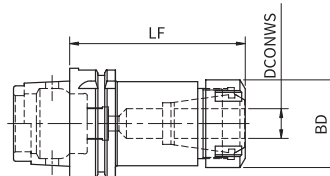


Product Code	Spindle	Dimensions (mm)			Wrench
		DCONWS	BD	LF	
HSK-A63-PC20-110	HSK-A63	20	52	110	W-C20
HSK-A63-PC25-110	HSK-A63	25	61	110	W-C25
HSK-A63-PC32-110	HSK-A63	32	71	110	W-C32
HSK-A100-PC20-105	HSK-A100	20	52	105	W-C20
HSK-A100-PC25-115	HSK-A100	25	61	115	W-C25
HSK-A100-PC32-135	HSK-A100	32	71	135	W-C32
HSK-A100-PC42-115	HSK-A100	42	86	115	W-C42

Note: Provided with wrench as standard; excluding collet and internal coolant tube, Preset to dynamic balance G6.3 15000rpm. runout ≤ 0.003mm at 3xD.

ER Collet Chuck

DIN 69893

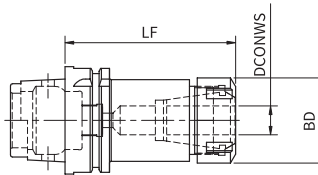


Product Code	Spindle	Dimensions (mm)			Nut	Collet (optional)
		DCONWS	BD	LF		
HSK-A63-ER16-75	HSK-A63	4-10	28	75	ER16-A	ER16
HSK-A63-ER16-100	HSK-A63	4-10	28	100	ER16-A	ER16
HSK-A63-ER16-160	HSK-A63	4-10	28	160	ER16-A	ER16
HSK-A63-ER20-80	HSK-A63	4-12	34	80	ER20-A	ER20
HSK-A63-ER20-100	HSK-A63	4-12	34	100	ER20-A	ER20
HSK-A63-ER20-160	HSK-A63	4-12	34	160	ER20-A	ER20
HSK-A63-ER25-80	HSK-A63	4-16	42	80	ER25-UM	ER25
HSK-A63-ER25-100	HSK-A63	4-16	42	100	ER25-UM	ER25
HSK-A63-ER25-150	HSK-A63	4-16	42	150	ER25-UM	ER25
HSK-A63-ER32-100	HSK-A63	4-20	50	100	ER32-UM	ER32
HSK-A63-ER32-160	HSK-A63	4-20	50	160	ER32-UM	ER32

Note: Wrench, axis limit screw, and collet needs to be ordered separately. Preset to dynamic balance G6.3 15000rpm.

ER Collet Chuck

DIN 69893

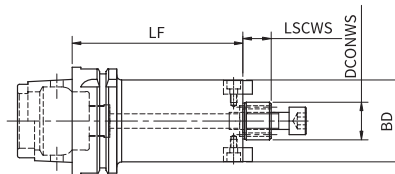


Product Code	Spindle	Dimensions (mm)			Nut	Collet (optional)
		DCONWS	BD	LF		
HSK-A100-ER16-100	HSK-A100	4-10	28	100	ER16-A	ER16
HSK-A100-ER16-160	HSK-A100	4-10	28	160	ER16-A	ER16
HSK-A100-ER20-100	HSK-A100	4-12	34	100	ER20-A	ER20
HSK-A100-ER20-160	HSK-A100	4-12	34	160	ER20-A	ER20
HSK-A100-ER25-100	HSK-A100	4-16	42	100	ER25-UM	ER25
HSK-A100-ER25-160	HSK-A100	4-16	42	160	ER25-UM	ER25
HSK-A100-ER32-100	HSK-A100	4-20	50	100	ER32-UM	ER32
HSK-A100-ER32-160	HSK-A100	4-20	50	160	ER32-UM	ER32
HSK-A100-ER40-100	HSK-A100	4-25	63	100	ER40-UM	ER40
HSK-A100-ER40-160	HSK-A100	4-25	63	160	ER40-UM	ER40

Note: Wrench, axis limit screw, and collet needs to be ordered separately. Preset to dynamic balance G6.3 15000rpm.

Face Milling Arbor

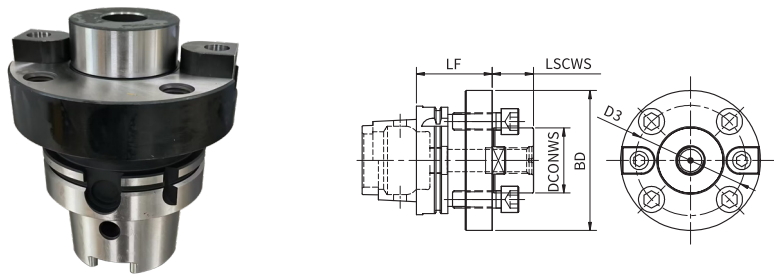
DIN 69893



Product Code	Spindle	Dimensions (mm)				Internal coolant	Clamping screw
		DCONWS	BD	LF	LSCWS		
HSK-A63-FMA16-100-C	HSK-A63	16	38	100	16		M8*30
HSK-A63-FMA22-50-C	HSK-A63	22	48	50	18		M10*30
HSK-A63-FMA22-100-C	HSK-A63	22	48	100	18		M12*30
HSK-A63-FMA27-60-C	HSK-A63	27	60	60	20		M12*30
HSK-A63-FMA27-100-C	HSK-A63	27	60	100	20		M16*35
HSK-A63-FMB32-60-C	HSK-A63	32	78	60	22		M16*35
HSK-A100-FMA22-50-C	HSK-A100	22	48	50	18		M10*30
HSK-A100-FMA22-100-C	HSK-A100	22	48	100	18		M12*30
HSK-A100-FMA27-50-C	HSK-A100	27	60	50	20		M12*30
HSK-A100-FMA27-100-C	HSK-A100	27	60	100	20		M16*35
HSK-A100-FMB32-50-C	HSK-A100	32	78	50	22		M16*35
HSK-A100-FMB32-100-C	HSK-A100	32	78	100	22		M20*35
HSK-A100-FMB40-60-C	HSK-A100	40	85	60	25		M20*35

Face Milling Arbor

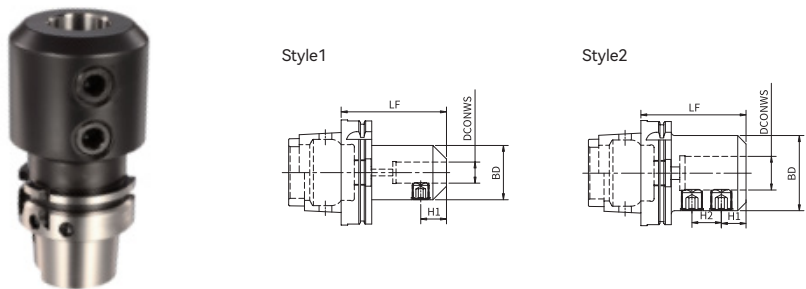
DIN 69893



Product Code	Spindle	Dimensions (mm)					Clamping screw
		DCONWS	BD	LSCWS	LF	D3	
HSK-A100-FMC40-75	HSK-A100	40	89	25	75	66.7	M12*45
HSK-A100-FMC60-70	HSK-A100	60	129	32	70	101.6	M16*50

Side Lock Chuck

DIN 69893



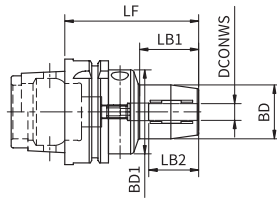
Product Code	Spindle	Dimensions (mm)					Style
		DCONWS	BD	H1	H2	LF	
HSK-A63-SLB16-80	HSK-A63	16	48	24	-	80	1
HSK-A63-SLB20-80	HSK-A63	20	52	25	-	80	1
HSK-A63-SLB25-110	HSK-A63	25	65	24	25	110	2
HSK-A63-SLB32-110	HSK-A63	32	72	24	28	110	2
HSK-A100-SLB16-100	HSK-A100	16	48	24	-	100	1
HSK-A100-SLB20-100	HSK-A100	20	52	25	-	100	1
HSK-A100-SLB25-100	HSK-A100	25	65	24	25	100	2
HSK-A100-SLB32-100	HSK-A100	32	72	24	28	100	2
HSK-A100-SLB40-120	HSK-A100	40	80	30	32	120	2

Hydraulic Chuck

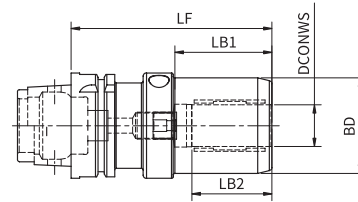
DIN 69893



Style1



Style2



Product Code	Spindle	Dimensions (mm)						HC Collet	Style
		DCONWS	BD	BD1	LF	Step Length LB1	Min. Clamping Depth LB2		
HSK-A63-HCA06-70	HSK-A63	6	28	50	70	24	27.5	-	1
HSK-A63-HCA08-70	HSK-A63	8	30	50	70	24	27.5	-	1
HSK-A63-HCA10-80	HSK-A63	10	32	50	80	35	32.5	-	1
HSK-A63-HCA12-85	HSK-A63	12	34	50	85	40	37.5	HC12-..	1
HSK-A63-HCA14-85	HSK-A63	14	36	50	85	40	37.5	-	1
HSK-A63-HCA16-90	HSK-A63	16	38	50	90	46	42.5	-	1
HSK-A63-HCA18-90	HSK-A63	18	41	50	90	47	42.5	-	1
HSK-A63-HCA20-90	HSK-A63	20	43	50	90	48	42.5	HC20-..	1
HSK-A63-HCA25-120	HSK-A63	25	57	63	120	59	51	-	2
HSK-A63-HCA32-125	HSK-A63	32	63	75	125	/	55	HC32-..	2

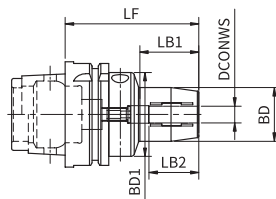
Note: Collet need to be ordered separately, pre-set to dynamic balance G2.5 20000rpm, runout ≤ 0.003mm at 3xD.

Hydraulic Chuck

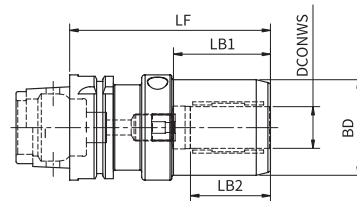
DIN 69893



Style1



Style2

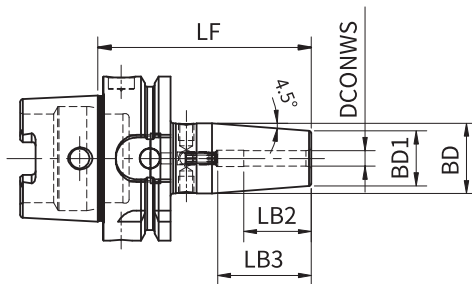


Product Code	Spindle	Dimensions (mm)						HC Collet	Style
		DCONWS	BD	BD1	LF	Step Length LB1	Min. Clamping Depth LB2		
HSK-A100-HCA06-75	HSK-A100	6	28	50	75	26	27.5	-	1
HSK-A100-HCA08-75	HSK-A100	8	30	50	75	26	27.5	-	1
HSK-A100-HCA10-90	HSK-A100	10	32	50	90	42	32.5	-	1
HSK-A100-HCA12-95	HSK-A100	12	34	50	95	47	37.5	HC12-..	1
HSK-A100-HCA14-95	HSK-A100	14	36	50	95	47	37.5	-	1
HSK-A100-HCA16-100	HSK-A100	16	38	50	100	53	42.5	-	1
HSK-A100-HCA18-100	HSK-A100	18	41	50	100	53	42.5	-	1
HSK-A100-HCA20-105	HSK-A100	20	43	50	105	59	42.5	HC20-..	1
HSK-A100-HCA25-110	HSK-A100	25	57	63	110	62	51	-	1
HSK-A100-HCA32-110	HSK-A100	32	63	75	110	62	55	HC32-..	1

Note: Collet need to be ordered separately, pre-set to dynamic balance G2.5 20000rpm, runout ≤ 0.003mm at 3xD.

Shrink Fit Chuck

DIN 69893

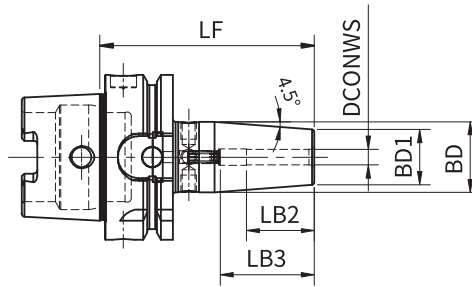


Product Code	Spindle	Dimensions (mm)					
		DCONWS	BD1	BD	LF	Max. Clamping Depth LB3	Min. Clamping Depth LB2
HSK-A63-SF03-80	HSK-A63	3	10	16	80	-	9
HSK-A63-SF04-80	HSK-A63	4	10	16	80	-	12
HSK-A63-SF05-80	HSK-A63	5	10	16	80	-	15
HSK-A63-SF06-80	HSK-A63	6	21	27	80	36	26
HSK-A63-SF06-130	HSK-A63	6	21	27	130	36	26
HSK-A63-SF06-160	HSK-A63	6	21	27	160	36	26
HSK-A63-SF08-80	HSK-A63	8	21	27	80	36	26
HSK-A63-SF08-130	HSK-A63	8	21	27	130	36	26
HSK-A63-SF08-160	HSK-A63	8	21	27	160	36	26
HSK-A63-SF10-85	HSK-A63	10	24	32	85	42	32
HSK-A63-SF10-130	HSK-A63	10	24	32	130	42	32
HSK-A63-SF10-160	HSK-A63	10	24	32	160	42	32
HSK-A63-SF12-90	HSK-A63	12	80	32	90	47	37
HSK-A63-SF12-130	HSK-A63	12	80	32	130	47	37
HSK-A63-SF12-160	HSK-A63	12	80	32	160	47	37
HSK-A63-SF14-90	HSK-A63	14	80	34	90	47	37
HSK-A63-SF14-130	HSK-A63	14	27	34	130	47	37
HSK-A63-SF14-160	HSK-A63	14	27	34	160	47	37
HSK-A63-SF16-95	HSK-A63	16	27	34	95	50	40
HSK-A63-SF16-130	HSK-A63	16	27	34	130	50	40
HSK-A63-SF16-160	HSK-A63	16	27	34	160	50	40
HSK-A63-SF18-95	HSK-A63	18	33	42	95	50	40
HSK-A63-SF18-130	HSK-A63	18	33	42	130	50	40
HSK-A63-SF18-160	HSK-A63	18	33	42	160	50	40
HSK-A63-SF20-100	HSK-A63	20	33	42	100	52	42
HSK-A63-SF20-130	HSK-A63	20	33	42	130	52	42
HSK-A63-SF20-160	HSK-A63	20	33	42	160	52	42
HSK-A63-SF25-115	HSK-A63	25	44	53	115	58	48
HSK-A63-SF25-130	HSK-A63	25	44	53	130	58	48
HSK-A63-SF25-160	HSK-A63	25	44	53	160	58	48
HSK-A63-SF32-120	HSK-A63	32	44	53	120	58	48
HSK-A63-SF32-160	HSK-A63	32	44	53	160	58	48

Note: Chuck comes standard with an axial adjusting screw, including a hole for a balancing screw, preset dynamic balance G2.5 20000rpm, runout ≤ 0.003mm at 3xD.

Shrink Fit Chuck

DIN 69893



Product Code	Spindle	Dimensions (mm)					
		DCONWS	BD1	BD	LF	Max. Clamping Depth LB3	Min. Clamping Depth LB2
HSK-A100-SF06-85	HSK-A100	6	21	27	85	36	26
HSK-A100-SF06-130	HSK-A100	6	21	27	130	36	26
HSK-A100-SF06-160	HSK-A100	6	21	27	160	36	26
HSK-A100-SF08-85	HSK-A100	8	21	27	85	36	26
HSK-A100-SF08-130	HSK-A100	8	21	27	130	36	26
HSK-A100-SF08-160	HSK-A100	8	21	27	160	36	26
HSK-A100-SF10-90	HSK-A100	10	24	32	90	42	32
HSK-A100-SF10-130	HSK-A100	10	24	32	130	42	32
HSK-A100-SF10-160	HSK-A100	10	24	32	160	42	32
HSK-A100-SF12-95	HSK-A100	12	24	32	95	47	37
HSK-A100-SF12-130	HSK-A100	12	24	32	130	47	37
HSK-A100-SF12-160	HSK-A100	12	24	32	160	47	37
HSK-A100-SF14-95	HSK-A100	14	80	34	95	47	37
HSK-A100-SF14-130	HSK-A100	14	80	34	130	47	37
HSK-A100-SF14-160	HSK-A100	14	80	34	160	47	37
HSK-A100-SF16-100	HSK-A100	16	80	34	100	50	40
HSK-A100-SF16-130	HSK-A100	16	27	34	130	50	40
HSK-A100-SF16-160	HSK-A100	16	27	34	160	50	40
HSK-A100-SF18-100	HSK-A100	18	33	42	100	50	40
HSK-A100-SF18-130	HSK-A100	18	33	42	130	50	40
HSK-A100-SF18-160	HSK-A100	18	33	42	160	50	40
HSK-A100-SF20-105	HSK-A100	20	33	42	105	52	42
HSK-A100-SF20-130	HSK-A100	20	33	42	130	52	42
HSK-A100-SF20-160	HSK-A100	20	33	42	160	52	42
HSK-A100-SF25-115	HSK-A100	25	44	53	115	58	48
HSK-A100-SF25-130	HSK-A100	25	44	53	130	58	48
HSK-A100-SF25-160	HSK-A100	25	44	53	160	58	48
HSK-A100-SF32-120	HSK-A100	32	44	53	120	58	48
HSK-A100-SF32-160	HSK-A100	32	44	53	160	58	48

Note: Chuck comes standard with an axial adjusting screw, including a hole for a balancing screw, preset dynamic balance G2.5 20000rpm, runout ≤ 0.003mm at 3xD.

Hydraulic Collet -- Flange Cooling

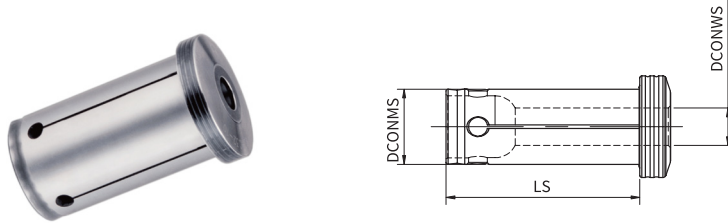
Clamping accuracy within 0.003mm



Product Code	Dimensions (mm)		
	DCONWS	DCONMS	LS
HC12-6A	6	12	45
HC12-8A	8		
HC20-6A	6	20	50.5
HC20-8A	8		
HC20-10A	10		
HC20-12A	12		
HC20-14A	14		
HC20-16A	16		
HC32-6A	6	32	60.5
HC32-8A	8		
HC32-10A	10		
HC32-12A	12		
HC32-14A	14		
HC32-16A	16		
HC32-18A	18		
HC32-20A	20		
HC32-25A	25		

Hydraulic Collet -- Internal Cooling

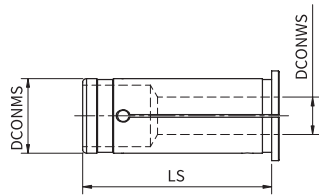
Clamping accuracy within 0.003mm



Product Code	Dimensions (mm)		
	DONWS	DONWS	LS
HC12-6CA	6	12	45
HC12-8CA	8		
HC20-6CA	6	20	51
HC20-8CA	8		
HC20-10CA	10		
HC20-12CA	12		
HC20-14CA	14		
HC20-16CA	16		
HC32-6CA	6	32	54
HC32-8CA	8		
HC32-10CA	10		
HC32-12CA	12		
HC32-14CA	14		
HC32-16CA	16		
HC32-18CA	18		
HC32-20CA	20		
HC32-25CA	25		

Power Collet

Clamping accuracy within 0.01mm

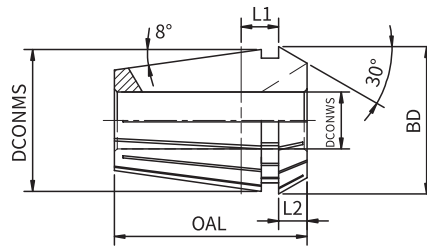


Product Code	Dimensions (mm)		
	DCONWS	DCONMS	LS
C25-6	6	25	63
C25-8	8	25	63
C25-10	10	25	63
C25-12	12	25	63
C25-16	16	25	63
C25-20	20	25	63
C32-6	6	32	70
C32-8	8	32	70
C32-10	10	32	70
C32-12	12	32	70
C32-14	14	32	70
C32-16	16	32	70
C32-18	18	32	70
C32-20	20	32	70
C32-25	25	32	70

ER Collet

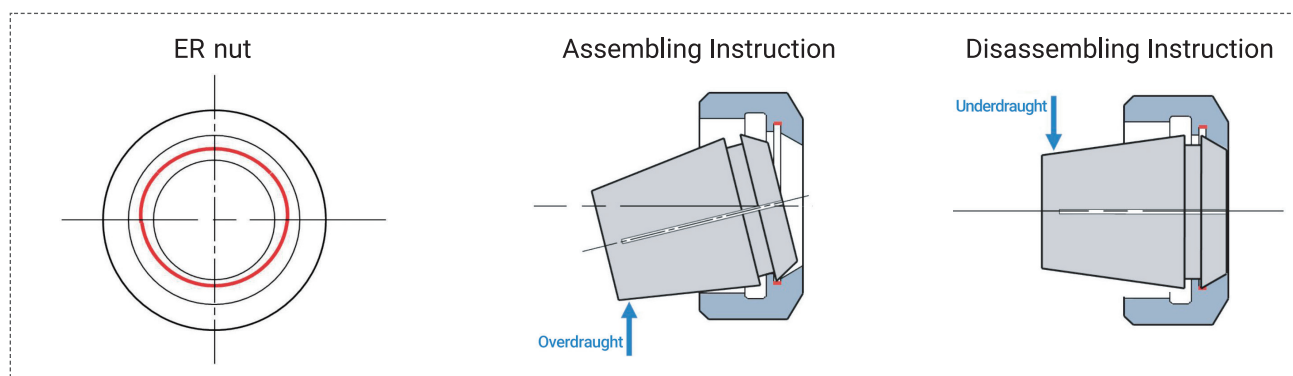
ER collet chuck features: High precision

- Material: JIS-SUJ2
- Hardness: HRC46-50
- The inner hole of the ER collet adopts a fine grinding process to achieve better clamping accuracy
- Ground internal dia., external dia. and end face to achieve high assembly accuracy

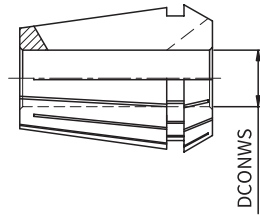


Type	Dimensions (mm)					
	DCONWS	DCONMS	BD	OAL	L1	L2
ER16	4-10	16	17	27.5	6.26	4.0
ER20	4-13	20	21	31.5	6.36	4.8
ER25	4-16	25	26	34.0	6.66	5.0
ER32	4-20	32	33	40.0	7.16	5.5
ER40	4-26	40	41	46.0	7.66	7.0

Assembly of ER collet



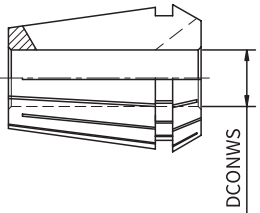
Regular ER Collet
Clamping accuracy within 0.008mm



ER16		ER20		ER25		ER32		ER40	
Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS
ER16-4	4-3	ER20-4	4-3	ER25-4	4-3	ER32-4	4-3	ER40-4	4-3
ER16-6	6-5	ER20-6	6-5	ER25-6	6-5	ER32-6	6-5	ER40-6	6-5
ER16-8	8-7	ER20-8	8-7	ER25-8	8-7	ER32-8	8-7	ER40-8	8-7
ER16-10	10-9	ER20-10	10-9	ER25-10	10-9	ER32-10	10-9	ER40-10	10-9
		ER20-12	12-11	ER25-12	12-11	ER32-12	12-11	ER40-12	12-11
				ER25-14	14-13	ER32-14	14-13	ER40-14	14-13
				ER25-16	16-15	ER32-16	16-15	ER40-16	16-15
						ER32-18	18-17	ER40-18	18-17
						ER32-20	20-19	ER40-20	20-19
								ER40-25	25-24

Note: Used in ER collet chuck.

High Precision ER Collet
Clamping accuracy within 0.005mm

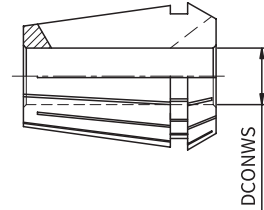


ER16		ER20		ER25		ER32	
Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS
ER16-4A	4-3	ER20-4A	4-3	ER25-4A	4-3	ER32-4A	4-3
ER16-6A	6-5	ER20-6A	6-5	ER25-6A	6-5	ER32-6A	6-5
ER16-8A	8-7	ER20-8A	8-7	ER25-8A	8-7	ER32-8A	8-7
ER16-10A	10-9	ER20-10A	10-9	ER25-10A	10-9	ER32-10A	10-9
		ER20-12A	12-11	ER25-12A	12-11	ER32-12A	12-11
				ER25-14A	14-13	ER32-14A	14-13
				ER25-16A	16-15	ER32-16A	16-15
						ER32-18A	18-17
						ER32-20A	20-19

Note: Used in ER collet chuck.

ER Sealing Collet

Clamping accuracy within 0.008mm

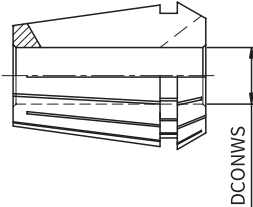


ER16		ER20		ER25		ER32	
Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS
ER16-4C	4-3.9	ER20-4C	4-3.9	ER25-4C	4-3.9	ER32-4C	4-3.9
ER16-6C	6-5.5	ER20-6C	6-5.5	ER25-6C	6-5.5	ER32-6C	6-5.5
ER16-8C	8-7.5	ER20-8C	8-7.5	ER25-8C	8-7.5	ER32-8C	8-7.5
ER16-10C	10-9.5	ER20-10C	10-9.5	ER25-10C	10-9.5	ER32-10C	10-9.5
		ER20-12C	12-11.5	ER25-12C	12-11.5	ER32-12C	12-11.5
				ER25-14C	14-13.5	ER32-14C	14-13.5
				ER25-16C	16-15.5	ER32-16C	16-15.5
						ER32-18C	18-17.5
						ER32-20C	20-19.5

Note: Used in ER collet chuck.

High Precision ER Sealing Collet

Clamping accuracy within 0.005mm



ER16		ER20		ER25		ER32	
Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS	Product Code	DCONWS
ER16-4CA	4-3.9	ER20-4CA	4-3.9	ER25-4CA	4-3.9	ER32-4CA	4-3.9
ER16-6CA	6-5.5	ER20-6CA	6-5.5	ER25-6CA	6-5.5	ER32-6CA	6-5.5
ER16-8CA	8-7.5	ER20-8CA	8-7.5	ER25-8CA	8-7.5	ER32-8CA	8-7.5
ER16-10CA	10-9.5	ER20-10CA	10-9.5	ER25-10CA	10-9.5	ER32-10CA	10-9.5
		ER20-12CA	12-11.5	ER25-12CA	12-11.5	ER32-12CA	12-11.5
				ER25-14CA	14-13.5	ER32-14CA	14-13.5
				ER25-16CA	16-15.5	ER32-16CA	16-15.5
						ER32-18CA	18-17.5
						ER32-20CA	20-19.5

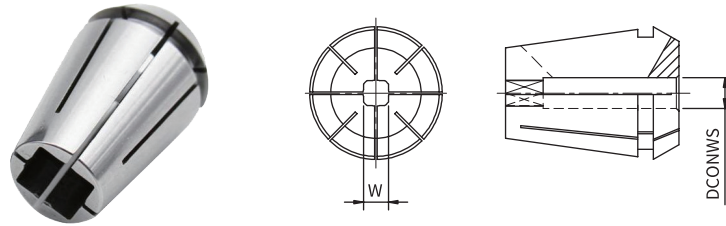
Note: Used in ER collet chuck.

ER Collets Set

Picture	Product code	Collet type	PCS/SET	Collet Accuracy (3D)
Regular collets set 	ER16-8PCS	3,4,5,6,7,8,9,10	8PCS/SET	≤ 0.008mm
	ER20-11PCS	3,4,5,6,7,8,9,10,11,12,13	11PCS/SET	
	ER25-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14PCS/SET	
	ER32-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET	
	ER40-8PCS	4,6,8,10,12,16,20,25	8PCS/SET	
High precision collet set 	ER16A-8PCS	3,4,5,6,7,8,9,10	8PCS/SET	≤ 0.005mm
	ER20A-11PCS	3,4,5,6,7,8,9,10,11,12,13	11PCS/SET	
	ER25A-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14PCS/SET	
	ER32A-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET	
Regular sealing collets set 	ER16C-8PCS	3,4,5,6,7,8,9,10	8PCS/SET	≤ 0.008mm
	ER20C-11PCS	3,4,5,6,7,8,9,10,11,12,13	11PCS/SET	
	ER25C-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14PCS/SET	
	ER32C-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET	
High precision sealing collet set 	ER16CA-8PCS	3,4,5,6,7,8,9,10	8PCS/SET	≤ 0.005mm
	ER20CA-11PCS	3,4,5,6,7,8,9,10,11,12,13	11PCS/SET	
	ER25CA-14PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16	14PCS/SET	
	ER32CA-18PCS	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	18PCS/SET	

Tapping Collet

Eight grooves, clamping precision within 0.02mm



Product Code			DCONWS	W □	Thread specification	Enforce standard
ER20	ER25	ER32				
ER20G-4.5W34	ER25G-4.5W34		4.5	3.4	M4	DIN371
					M6	DIN376
ER20G-6W49	ER25G-6W49	ER32G-6W49	6	4.9	M5/M6	DIN371
					M8	DIN376
ER20G-7W55	ER25G-7W55	ER25G-7W55	7	5.5	M10	DIN376
ER20G-8W62	ER25G-8W62	ER32G-8W62	8	6.2	M8	DIN371
ER20G-9W70	ER25G-9W70	ER32G-9W70	9	7	M12	DIN376
ER20G-10W80	ER25G-10W80	ER32G-10W80	10	8	M10	DIN371
	ER25G-11W90	ER32G-11W90	11	9	M14	DIN376
	ER25G-12W90	ER32G-12W90	12	9	M16	DIN376
		ER32G-14W110	14	11	M18	DIN376
		ER32G-16W120	16	12	M20	DIN376
		ER32G-18W145	18	14.5	M22	DIN376
					M24	DIN376

Note: Used in ER collet chuck.

ER Nut



Product Code	Dimensions (mm)			Style	Compatible Collet	Compatible Wrench	Compatible Chuck
	D1	D2	L				
ER16-A	M22*1.5P	28	18	1	ER16	W-ER16A	ER Collet Chuck
ER20-A	M25*1.5P	34	19	1	ER20	W-ER20A	
ER25-UM	M32*1.5P	42	20	2	ER25	W-ER25UM	
ER32-UM	M40*1.5P	50	23	2	ER32	W-ER32UM	
ER40-UM	M50X1.5P	63	26	2	ER40	W-ER40UM	
ER11-M	M13*0.75P	16	12	3	ER11	W-ER11M	ER Straight Chuck Extension
ER16-M	M19*1.0P	22	18	3	ER16	W-ER16M	
ER20-M	M24*1.0P	28	19	3	ER20	W-ER20M	
ER25-M	M30*1.0P	35	20	3	ER25	W-ER25M	
GSK10	M21.5*1.0P	27	24	4	SK10	W-GSK10	GSK High-Speed Collet Chuck
GSK16	M32*1.5P	40	31	4	SK16	W-GSK16	
GSK20	M40*1.0P	48.5	33	4	SK20	W-GSK20	
GSK25	M45*1.5P	55	37	4	SK25	W-GSK25	

Note: The Nut thread specification varies depending on the nut external dimensions and the adapted collet, and is not interchangeable with the same model.

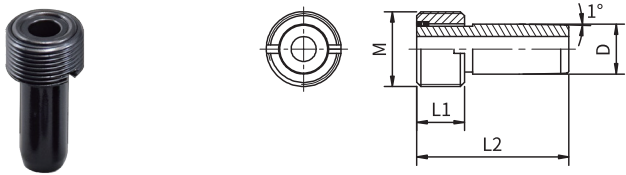
Chuck Wrench



Product Code	Compatible ER Nut	Style	Compatible Chuck & Accessories
W-ER16A	ER16-A	1	ER Collet Chuck
W-ER20A	ER20-A	1	
W-ER25UM	ER25-UM	3	
W-ER32UM	ER32-UM	3	
W-ER40UM	ER40-UM	3	
W-ER11M	ER11-M	2	ER Straight Chuck Extension
W-ER16M	ER16-M	2	
W-ER20M	ER20-M	2	
W-ER25M	ER25-M	2	
W-GSK10	GSK10	4	GSK High-Speed Collet Chuck
W-GSK16	GSK16	4	
W-GSK20	GSK20	4	
W-GSK25	GSK25	4	
W-C20	-	5	Power Chuck
W-C25	-	5	
W-C32	-	5	

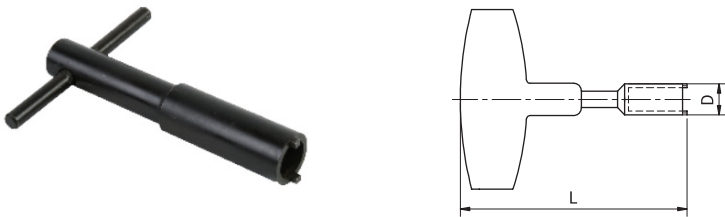
Note: Special chuck wrenches need to be ordered for mechanical clamping chucks.

HSK Cooling Tube



Product Code	Compatible Spindle	Dimensions (mm)			
		M	D	L1	L2
CT-HSK63	HSK-A63	M18×1	12	11.5	36.6
CT-HSK100	HSK-A100	M24×1.5	16	15.5	44.2

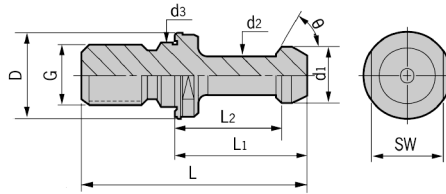
Wrench For HSK Cooling Tube



Product Code	Cooling Tube	L (mm)	D (mm)
W-HSK63	CT-HSK63	100	16.5
W-HSK100	CT-HSK100	125	22

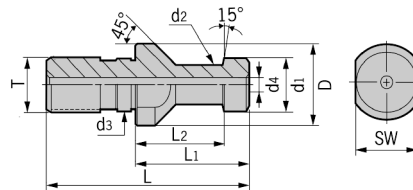
Pull Stud

BT Series



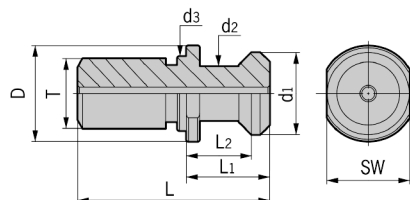
Product Code	Dimensions (mm)										
	D	d1	d2	d3	L1	L2	L	G	SW	θ	Internal coolant dia.
P30T-45	16.5	11	7	12.5	23	18	43	M12	13	45°	-
P30T-60										60°	-
P40T-45	23	15	10	17	35	28	60	M16	19	45°	-
P40T-60										60°	-
P40T-90										90°	-
P40T-45C										45°	4
P40T-60C										60°	4
P40T-90C										90°	4
P50T-45	38	23	17	25	45	35	85	M24	30	45°	-
P50T-60										60°	-
P50T-90										90°	-
P50T-45C										45°	8.5
P50T-60C										60°	8.5
P50T-90C										90°	8.5

SK Series(DIN69871)



Product Code	Dimensions (mm)										
	D	d1	d2	d3	L1	L2	L	T	SW	θ	Internal coolant dia.
PSK30-75	17	13	9	13	24	19	44	M12	14	75°	-
PSK40-75C	23	19	14	17	26	20	54	M16	19	75°	7
PSK50-75C	36	28	21	25	34	25	74	M24	30	75°	11.5

MAZAK Series



Model	Dimensions (mm)										
	D	d1	d2	d3	L1	L2	L	T	SW	θ	Internal coolant dia.
BT40-MAZAK	22	18.8	12.45	17	19.1	14.02	44.1	M16	19	45°	-
BT40C-MAZAK										45°	7
BT50-MAZAK	37	29	20.83	25	25.2	17.58	65.2	M24	30	45°	-
BT50C-MAZAK										45°	10

Entension Rods Denomination System



1-Shank diameter
C20--- Ø20mm cylindrical shank

2-Material
S--- Special alloy steel
C--- Carbide
None--- Ordinary alloyed steel

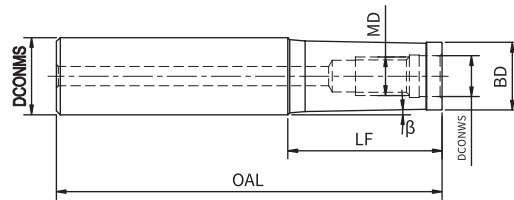
3-Clamping type
M10--- Threaded connection for M10
AK2--- Eccentric screw locking, suitable for boring tool AK2
ER16M--- M-type ER collet connection, suitable for ER16 collets
SF6--- Shrink fit clamping, suitable for Ø6h6 shank

4-Length
200--- Total length 200mm

5-Extension rods type
T---Taper rod
R---Step rod
None---Straight rod

Steel--Threaded Locking Extension Rods

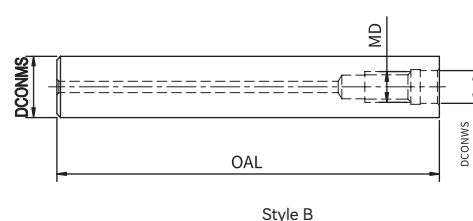
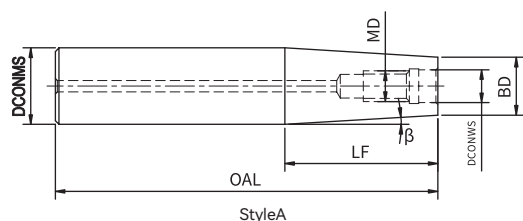
Taper Rod



Product Code	Shank diameter	Dimensions (mm)						
		DCONMS	BD	MD	DCONWS	OAL	LF	β
C16S-M08-80-T	Ø16 cylindrical shank	16	14.5	M08*1.25	8.5	80	20	3° 12'
C16S-M08-100-T	Ø16 cylindrical shank	16	14.5	M08*1.25	8.5	100	40	1° 4'
C20S-M10-100-T	Ø20 cylindrical shank	20	18	M10*1.5	10.5	100	30	1° 53'
C20S-M10-120-T	Ø20 cylindrical shank	20	18	M10*1.5	10.5	120	50	1°
C25S-M12-110-T	Ø25 cylindrical shank	25	22.5	M12*1.75	12.5	110	30	2° 36'
C25S-M12-130-T	Ø25 cylindrical shank	25	22.5	M12*1.75	12.5	130	50	1° 18'
C32S-M16-125-T	Ø32 cylindrical shank	32	28.5	M16*2.0	17.0	125	35	3° 15'
C32S-M16-145-T	Ø32 cylindrical shank	32	28.5	M16*2.0	17.0	145	55	1° 48'

Carbide--Threaded Locking Extension Rods

Taper & Straight Rod

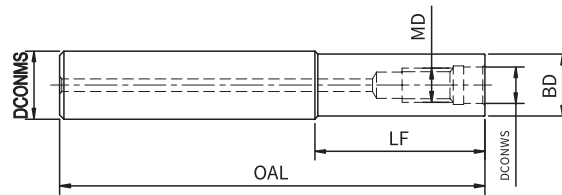


Product Code	Shank diameter	Dimensions (mm)							Style
		DCONMS	BD	MD	DCONWS	OAL	LF	β	
C16C-M08-200-T	Ø16 cylindrical shank	16	15.5	M08*1.25	8.5	200	150	43'	A
C20C-M08-100-T	Ø20 cylindrical shank	20	14.5	M08*1.25	8.5	100	40	3° 30'	A
C20C-M08-150-T	Ø20 cylindrical shank	20	14.5	M08*1.25	8.5	150	77	1° 45'	A
C20C-M10-100-T	Ø20 cylindrical shank	20	18.5	M10*1.5	10.5	100	40	43'	A
C25C-M10-150-T	Ø25 cylindrical shank	25	18.5	M10*1.5	10.5	150	70	1° 43'	A
C20C-M10-150-T	Ø20 cylindrical shank	20	18.5	M10*1.5	10.5	150	90	19'	A
C20C-M10-200-T	Ø20 cylindrical shank	20	18.5	M10*1.5	10.5	200	140	12'	A
C32C-M12-200-T	Ø32 cylindrical shank	32	23.5	M12*1.75	12.5	200	120	1° 45'	A
C32C-M16-200-T	Ø32 cylindrical shank	32	29	M16*2.0	17.0	200	120	30'	A
C32C-M16-250-T	Ø32 cylindrical shank	32	29	M16*2.0	17.0	250	170	28'	A
C32C-M16-300-T	Ø32 cylindrical shank	32	29	M16*2.0	17.0	300	200	28'	A
C16C-M08-100	Ø16 cylindrical shank	16	-	M08*1.25	8.5	100	-	-	B
C16C-M08-150	Ø16 cylindrical shank	16	-	M08*1.25	8.5	150	-	-	B
C16C-M08-200	Ø16 cylindrical shank	16	-	M08*1.25	8.5	200	-	-	B
C20C-M10-100	Ø20 cylindrical shank	20	-	M10*1.5	10.5	100	-	-	B
C20C-M10-150	Ø20 cylindrical shank	20	-	M10*1.5	10.5	150	-	-	B
C20C-M10-200	Ø20 cylindrical shank	20	-	M10*1.5	10.5	200	-	-	B
C20C-M10-250	Ø20 cylindrical shank	20	-	M10*1.5	10.5	250	-	-	B
C25C-M12-100	Ø25 cylindrical shank	25	-	M12*1.75	12.5	100	-	-	B
C25C-M12-150	Ø25 cylindrical shank	25	-	M12*1.75	12.5	150	-	-	B
C25C-M12-200	Ø25 cylindrical shank	25	-	M12*1.75	12.5	200	-	-	B
C25C-M12-250	Ø25 cylindrical shank	25	-	M12*1.75	12.5	250	-	-	B
C25C-M12-300	Ø25 cylindrical shank	25	-	M12*1.75	12.5	300	-	-	B
C32C-M16-150	Ø32 cylindrical shank	32	-	M16*2.0	17.0	150	-	-	B
C32C-M16-200	Ø32 cylindrical shank	32	-	M16*2.0	17.0	200	-	-	B
C32C-M16-250	Ø32 cylindrical shank	32	-	M16*2.0	17.0	250	-	-	B
C32C-M16-300	Ø32 cylindrical shank	32	-	M16*2.0	17.0	300	-	-	B

Priority recommendation for vertical machine. In order to achieve good application effects, please make a comprehensive valuation and selection based on the rigidity of machine, tool overhang, cutting data, etc.

Carbide--Threaded Locking Extension Rods

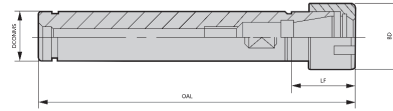
Step Rod



Product Code	Shank diameter	Dimensions (mm)							Style
		DCONMS	BD	MD	DCONWS	OAL	LF	β	
C16C-M08-100-R	Ø16 cylindrical shank	16	15.5	M08*1.25	8.5	100	40	-	C
C16C-M08-150-R	Ø16 cylindrical shank	16	15.5	M08*1.25	8.5	150	90	-	C
C16C-M08-200-R	Ø16 cylindrical shank	16	15.5	M08*1.25	8.5	200	120	-	C
C20C-M10-100-R	Ø20 cylindrical shank	20	19.5	M10*1.5	10.5	100	40	-	C
C20C-M10-150-R	Ø20 cylindrical shank	20	19.5	M10*1.5	10.5	150	90	-	C
C20C-M10-200-R	Ø20 cylindrical shank	20	19.5	M10*1.5	10.5	200	140	-	C
C20C-M10-250-R	Ø20 cylindrical shank	20	19.5	M10*1.5	10.5	250	180	-	C
C25C-M12-100-R	Ø25 cylindrical shank	25	24	M12*1.75	12.5	100	25	-	C
C25C-M12-150-R	Ø25 cylindrical shank	25	24	M12*1.75	12.5	150	70	-	C
C25C-M12-200-R	Ø25 cylindrical shank	25	24	M12*1.75	12.5	200	120	-	C
C25C-M12-250-R	Ø25 cylindrical shank	25	24	M12*1.75	12.5	250	180	-	C
C25C-M12-300-R	Ø25 cylindrical shank	25	24	M12*1.75	12.5	300	220	-	C
C32C-M16-100-R	Ø32 cylindrical shank	32	29	M16*2.0	17.0	100	30	-	C
C32C-M16-150-R	Ø32 cylindrical shank	32	29	M16*2.0	17.0	150	70	-	C
C32C-M16-200-R	Ø32 cylindrical shank	32	29	M16*2.0	17.0	200	120	-	C
C32C-M16-250-R	Ø32 cylindrical shank	32	29	M16*2.0	17.0	250	170	-	C
C32C-M16-300-R	Ø32 cylindrical shank	32	29	M16*2.0	17.0	300	220	-	C

Priority recommendation for vertical machine. In order to achieve good application effects, please make a comprehensive valuation and selection based on the rigidity of machine, tool overhang, cutting data, etc.

M-Type ER Collet Extension Rods



Product Code	Dimensions (mm)				ER Nut	Collet (optional)	Wrench (optional)
	DCONMS	BD	OAL	LF			
C12-ER11M-80	12	16	114	34	ER11-M	ER11	W-ER11M
C12-ER11M-100	12	16	134	34			
C12-ER11M-150	12	16	184	34			
C16-ER11M-50	16	16	84	34			
C16-ER11M-100	16	16	134	34			
C16-ER11M-140	16	16	174	34			
C16-ER16M-50	16	22	90	40	ER16-M	ER16	W-ER16M
C16-ER16M-60	16	22	100	40			
C16-ER16M-80	16	22	120	40			
C16-ER16M-150	16	22	190	40			
C20-ER16M-50	20	22	87	37			
C20-ER16M-100	20	22	137	37			
C20-ER16M-120	20	22	157	37			
C20-ER16M-140	20	22	177	37			
C20-ER16M-150	20	22	187	37			
C20-ER16M-160	20	22	197	37			
C20-ER16M-180	20	22	217	37			
C20-ER16M-200	20	22	237	37			
C20-ER20M-60	20	28	110	50	ER20-M	ER20	W-ER20M
C20-ER20M-100	20	28	150	50			
C20-ER20M-150	20	28	200	50			
C20-ER20M-180	20	28	230	50			
C20-ER20M-200	20	28	250	50			
C20-ER20M-250	20	28	300	50			
C25-ER20M-140	25	28	180	40			