

TOOLING SYSTEM



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TOOLING SYSTEM

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• For more technical information, see TaeguTec technical guide part TG

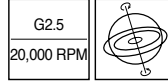
Guide to Icons



➤ Run-out



➤ Surface Hardness



➤ Balance Grade



➤ Taper Shank Grade



➤ Surface Finish Grade



➤ Technical Guide Page



➤ ER Collet Page



➤ TSK Collet Page



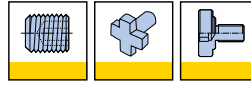
➤ ST / THC Collet Page



➤ Pull Stud Page



➤ Preset Screw Page



➤ Lock Screw Page



➤ ER 32 SRF Page



➤ Nut Page



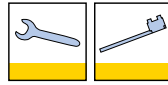
➤ Tap Adapter Page



➤ Cooling Tube Page



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➤ Wrench Page



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➤ Induction Heating Unit Page



➤ Thermal Heating Unit Page

* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.



Tool Selection Guide

Tooling system

Milling chuck

DIN69871 G17
 HSK G42
 BT MAS-403 G71
 DIN2080 G92



Collect (CSR) G148



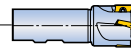
ST shank G114-G118



Collet (ER) G132-G142



GTIN collet G155-G156



Collet chuck

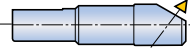
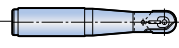
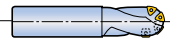
DIN69871 G11-G13
 HSK G36-G40
 BT MAS-403 G65-G67
 DIN2080 G91
 C-ADAPTER G102-G103
 ST shank G114-G118



Collet (ER) G132-G142



GTIN collet G155-G156



TSK collet chuck

DIN69871 G14
 HSK G41
 BT MAS-403 G68



TSK collet G143-G145



T-SHRINK chuck

DIN69871 G21
 HSK G45-G47
 BT MAS-403 G75
 C-ADAPTER G110



DIN69871 G22
 HSK G48-G50
 BT MAS-403 G76
 ST shank G124



T-HYCHUCK chuck

DIN69871 G23
 HSK G51-G52
 BT MAS-403 G77-G78



THC collet G147-G148



Tool Selection Guide

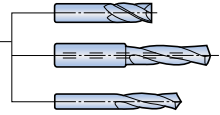
Tooling system

T-BALANCE

DIN69871 G10
 HSK G35
 BT MAS-403 G64

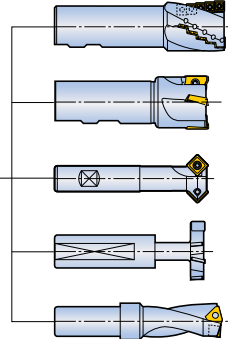


Collet (ER) G132-G142



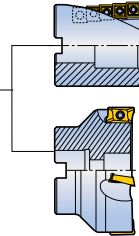
End mill holder

DIN69871 G18-G20
 HSK G43-G44
 BT MAS-403 G72-G74
 DIN2080 G93
 C-ADAPTER G104-G106



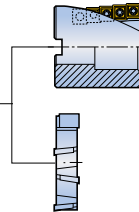
Face mill / Shell end mill arbor

DIN69871 G24-G25
 HSK G53-G55, G57
 BT MAS-403 G80-G82
 DIN2080 G94-G95
 C-ADAPTER G107



Combi face mill / Shell end mill arbor

DIN69871 G26
 HSK G56
 BT MAS-403 G83
 DIN2080 G96
 C-ADAPTER G108



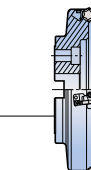
Slotting cutter arbor

DIN69871 G28
 BT MAS-403 G79



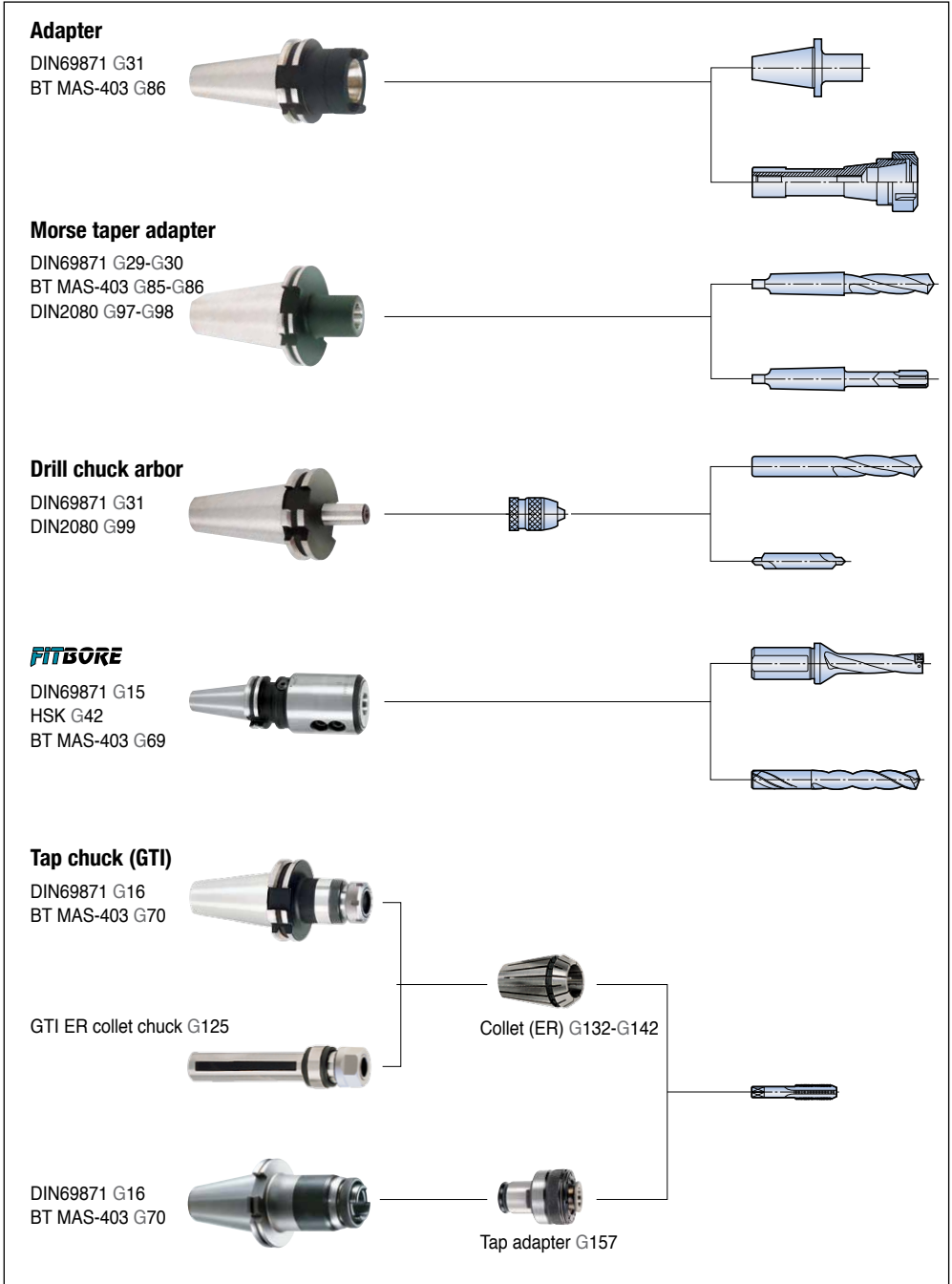
Centering plug

DIN2080 G99



Tool Selection Guide

Tooling system



Tool Selection Guide

Tooling system

GFI floating reamer chuck (GFI)

ST shank G126



Collet (ER) G132-G142



T-FLEXTEC

DIN69871 G32

HSK G59-G60

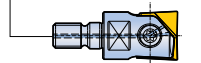
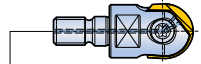
BT MAS-403 G88

C-ADAPTER G111

ST shank G119-G120



Adapter G121-G123



Blank

HSK G61

C-ADAPTER G112



GYRO center alignment

ST shank G128-G129



Collet (ER) G132-G142

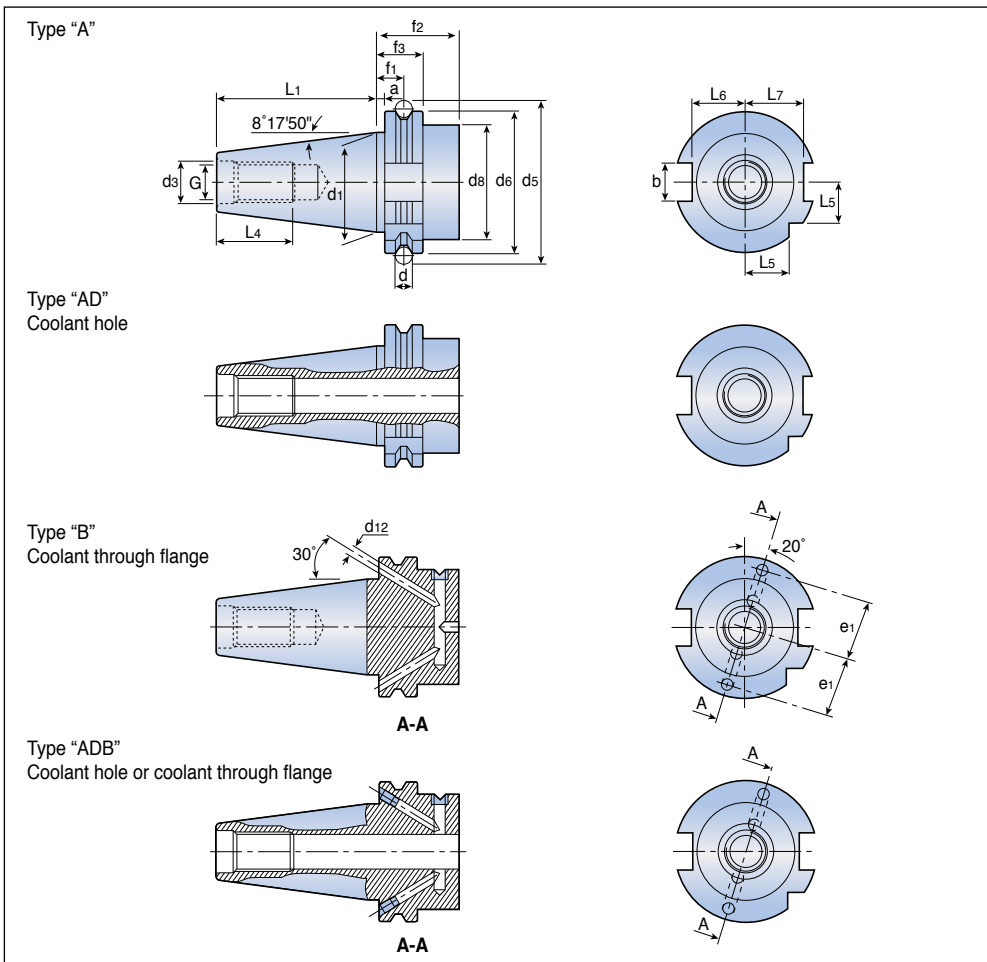


DIN69871



DIN69871 Form A/AD/B/ADB

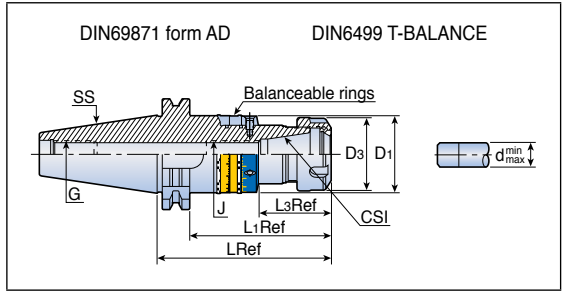
Standard toolholder



Shank	a ±0.1	b (H12)	d	d1	G	d3 (H7)	d5 ±0.05	d6	d8max	f1 ±0.1
30	3.2	16.1	7	31.75	M12	13	59.30	50.00	45	11.1
40	3.2	16.1	7	44.45	M16	17	72.30	63.55	50	11.1
50	3.2	25.7	7	69.85	M24	25	107.25	97.50	80	11.1

Shank	f2min	f3 -0.1	L1 -0.3	L4min	L5 -0.3	L6 -0.4	L7 -0.4	e1 ±0.1	d12	Taper AT3
30	35	19.1	47.80	24	15.0	16.4	19.0	21	4	0.002
40	35	19.1	68.40	32	18.5	22.8	25.0	27	4	0.003
50	35	19.1	101.75	47	30.0	35.5	37.7	42	6	0.004

* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.



G2.5 ⁽¹⁾			AT3 Taper		
20,000RPM		A/0.003A		58-60HRC	

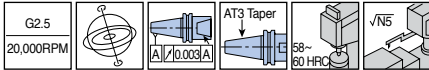
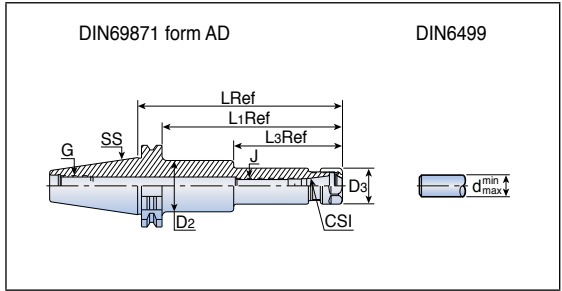
Designation	Dimension (mm)											
	SS	CSI	dmin	dmax	D3	D1	L	L1	L3	G	J	
DIN69871 40 ER 16x100 BIN	40	ER16	0.5	10.0	28	44	100	80.9	45	M16	M10	
ER 20x100 BIN	40	ER20	1.0	13.0	34	44	100	80.9	51	M16	M12	
ER 20x160 BIN	40	ER20	1.0	13.0	34	44	160	140.9	87	M16	M12	
ER 25x100 BIN	40	ER25	1.0	16.0	42	44	100	80.9	51	M16	M16x1.5	
ER 25x160 BIN	40	ER25	1.0	16.0	42	44	160	140.9	88	M16	M16x1.5	
ER 32x100 BIN	40	ER32	2.0	20.0	50	60	100	80.9	35	M16	M22x1.5	
ER 32x160 BIN	40	ER32	2.0	20.0	50	60	160	140.9	95	M16	M22x1.5	
ER 40x100 BIN	40	ER40	3.0	26.0	63	60	100	80.9	35	M16	M28x1.5	

G132-G142	G159	G160-G162	G163	G166	TG6

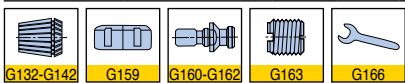
• ⁽¹⁾ Preset balanced value

DIN69871-ER

ER collet chuck



Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	G	J
DIN69871 30 ER 16x63⁽¹⁾	30	ER16	0.5	10.0	-	28	63	43.9	28	M12	M10
DIN69871 40 ER 16x63	40	ER16	0.5	10.0	-	28	63	43.9	-	M16	M10
ER 16x100	40	ER16	0.5	10.0	-	28	100	80.9	-	M16	M10
ER 16x160	40	ER16	0.5	10.0	40	28	160	140.9	85	M16	M10
ER 20x63	40	ER20	1.0	13.0	-	34	63	43.9	-	M16	M12
ER 20x100	40	ER20	1.0	13.0	-	34	100	80.9	-	M16	M12
ER 20x160	40	ER20	1.0	13.0	44	34	160	140.9	19	M16	M12
DIN69871 50 ER 16x100⁽¹⁾	50	ER16	0.5	10.0	-	28	100	80.9	-	M24	M10
ER 16x160⁽¹⁾	50	ER16	0.5	10.0	40	28	160	140.9	85	M24	M10
ER 16x200⁽¹⁾	50	ER16	0.5	10.0	40	28	200	180.9	110	M24	M10
ER 20x100⁽¹⁾	50	ER20	1.0	13.0	-	34	100	80.9	-	M24	M12
ER 20x160⁽¹⁾	50	ER20	1.0	13.0	45	34	160	140.9	86	M24	M12

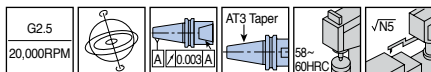
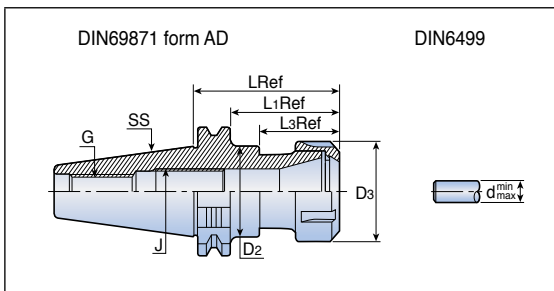


- Add B for coolant through flange
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

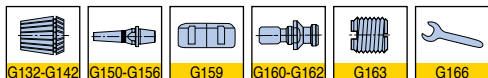
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DIN69871-ER

ER collet chuck



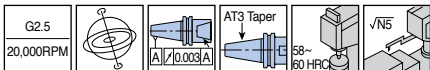
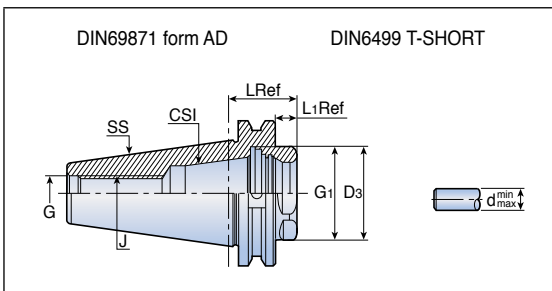
Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	G	J
DIN69871 30 ER 32x65⁽¹⁾	30	ER32	2.0	20.0	40.4	50	65	45.9	32.0	M12	M18x1.5
DIN69871 40 ER 25x65	40	ER25	1.0	16.0	32.4	42	65	45.9	28.0	M16	M16x2
ER 25x100	40	ER25	1.0	16.0	-	42	100	80.9	-	M16	M16x2
ER 25x150	40	ER25	1.0	16.0	-	42	150	130.9	-	M16	M16x2
ER 32x65	40	ER32	2.0	20.0	40.4	50	65	45.9	32.0	M16	M22x1.5
ER 32x100	40	ER32	2.0	20.0	49.0	50	100	80.9	35.0	M16	M22x1.5
ER 32x150	40	ER32	2.0	20.0	49.0	50	150	130.9	35.0	M16	M22x1.5
ER 40x70	40	ER40	3.0	26.0	50.4	63	70	50.9	32.0	M16	M28x1.5
ER 40x100	40	ER40	3.0	26.0	50.4	63	100	80.9	32.0	M16	M28x1.5
DIN69871 50 ER 25x100⁽¹⁾	50	ER25	1.0	16.0	-	42	100	80.9	-	M24	M16x2
ER 25x150⁽¹⁾	50	ER25	1.0	16.0	50.0	42	150	130.9	80.9	M24	M16x2
ER 25x200⁽¹⁾	50	ER25	1.0	16.0	55.0	42	200	180.9	85.0	M24	M16x2
ER 32x100⁽¹⁾	50	ER32	2.0	20.0	-	50	100	80.9	-	M24	M22x1.5
ER 32x150⁽¹⁾	50	ER32	2.0	20.0	-	50	150	130.9	-	M24	M22x1.5
ER 32x200⁽¹⁾	50	ER32	2.0	20.0	-	50	200	180.9	-	M24	M22x1.5
ER 40x100⁽¹⁾	50	ER40	3.0	26.0	-	63	100	80.9	-	M24	M28x1.5
ER 40x150⁽¹⁾	50	ER40	3.0	26.0	-	63	150	130.9	-	M24	M28x1.5
ER 40x200⁽¹⁾	50	ER40	3.0	26.0	-	63	200	180.9	-	M24	M28x1.5
ER 50x100⁽¹⁾	50	ER50	10.0	34.0	-	78	100	80.9	-	M24	M36x1.5
ER 50x150⁽¹⁾	50	ER50	10.0	34.0	-	78	150	130.9	-	M24	M36x1.5



- Add B for coolant through flange
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

DIN69871-ER-SHORT

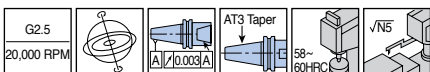
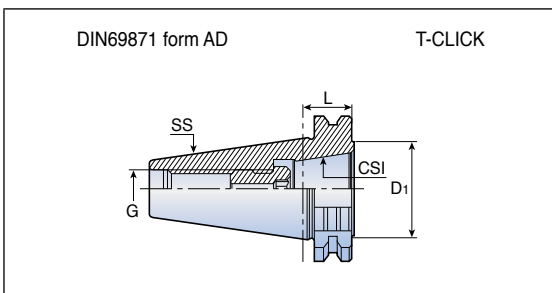
T-SHORT



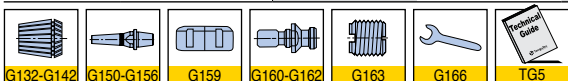
Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D3	L	L1	G	G1	J
DIN69871 40 ER32 SHORT	40	ER32	2.0	20.0	40	28.6	9.5	M16	M40x1.5	M16
DIN69871 50 ER32 SHORT	50	ER32	2.0	20.0	40	28.6	9.5	M24	M40x1.5	M22x1.5
ER40 SHORT	50	ER40	3.0	26.0	50	28.6	9.5	M24	M50x1.5	M28x1.5

DIN69871-ER-CLICK-IN

T-CLICK



Designation	Dimension (mm)				
	SS	CSI	D1	L	G
DIN69871 40 ER32 CLICK-IN	40	SRF32	41	20.1	M16
DIN69871 50 ER32 CLICK-IN	50	SRF32	41	20.1	M24

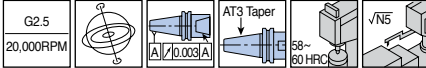
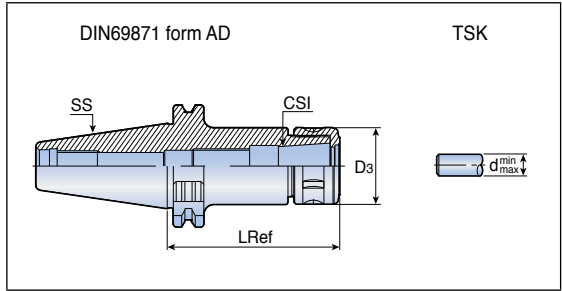


• Tightening torque: 24kg × m

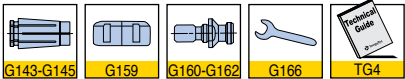
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DIN69871-TSK

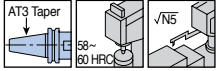
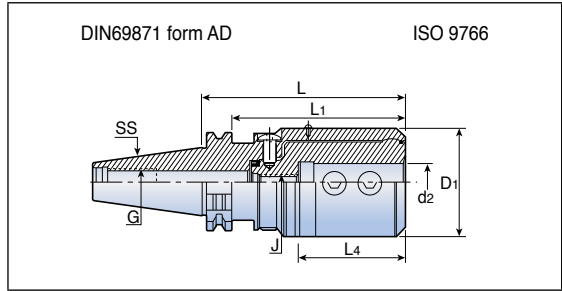
TSK collet chuck



Designation	Dimension (mm)					
	SS	CSI	dmin	dmax	D3	L
DIN69871 40 TSK 6-90	40	TSK6	1.5	6.0	19.5	90
TSK 6-120	40	TSK6	1.5	6.0	19.5	120
TSK 10-90	40	TSK10	1.5	10.0	27.5	90
TSK 10-120	40	TSK10	1.5	10.0	27.5	120
TSK 16-90	40	TSK16	2.5	16.0	40.0	90
TSK 16-120	40	TSK25	2.5	16.0	40.0	120
TSK 25-90	40	TSK25	15.5	25.4	55.0	90
TSK 25-120	40	TSK6	15.5	25.4	55.0	120
DIN69871 50 TSK 6-120⁽¹⁾	50	TSK6	1.5	6.0	19.5	120
TSK 6-165⁽¹⁾	50	TSK6	1.5	6.0	19.5	165
TSK 6-195⁽¹⁾	50	TSK6	1.5	6.0	19.5	195
TSK 10-120⁽¹⁾	50	TSK10	1.5	10.0	27.5	120
TSK 10-165⁽¹⁾	50	TSK10	1.5	10.0	27.5	165
TSK 10-195⁽¹⁾	50	TSK10	1.5	10.0	27.5	195
TSK 16-120⁽¹⁾	50	TSK16	2.5	16.0	40.0	120
TSK 16-165⁽¹⁾	50	TSK16	2.5	16.0	40.0	165
TSK 16-195⁽¹⁾	50	TSK16	2.5	16.0	40.0	195
TSK 25-120⁽¹⁾	50	TSK25	15.5	25.4	55.0	120
TSK 25-165⁽¹⁾	50	TSK25	15.5	25.4	55.0	165
TSK 25-195⁽¹⁾	50	TSK25	15.5	25.4	55.0	195

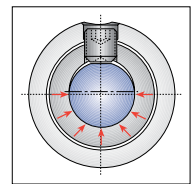


- Add B for coolant through flange
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

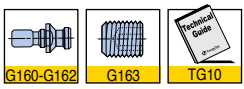


Designation	Dimension (mm)							
	SS	d ₂	D ₁	L	L ₁	L ₄	G	J
FITBORE DIN69871 40 EM 16	40	16	72	135.6	116.5	71	M16	M10
EM 20	40	20	72	135.6	116.5	71	M16	M10
EM 25	40	25	72	135.6	116.5	71	M16	M10
EM 32	40	32	72	135.6	116.5	71	M16	M10
EM 40	40	40	72	135.6	116.5	71	M16	M10
FITBORE DIN69871 50 EM 16	50	16	72	115.6	96.5	71	M24	M10
EM 20	50	20	72	115.6	96.5	71	M24	M10
EM 25	50	25	72	115.6	96.5	71	M24	M10
EM 32	50	32	72	115.6	96.5	71	M24	M10
EM 40	50	40	72	115.6	96.5	71	M24	M10

• Add B for coolant through flange

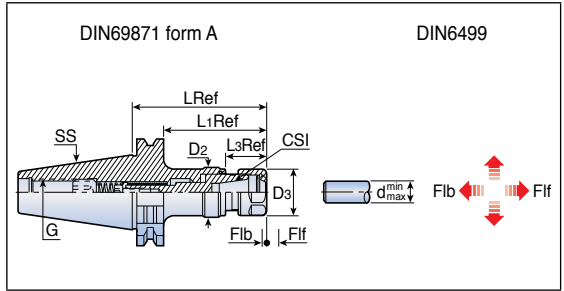
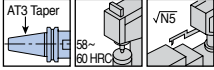


The bore section is made from two circular sections. The clamping screw pushes the drill shank through a narrow opening that forces elastic deformation of the holder. Contact is made around more than 180° - Providing a high clamping force.



GTI DIN69871-ER

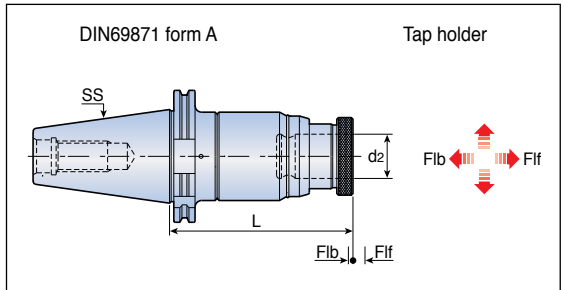
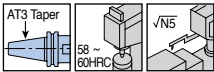
GTI tap attachment



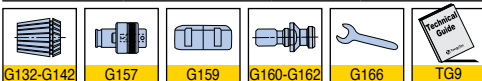
Designation	Dimension (mm)													
	SS	CSI	Tapmin	Tapmax	dmin	dmax	D2	D3	L	L1	L3	F1b	F1f	G
GTI DIN69871 40 ER 16	40	ER16	M3	M10	0.5	10.0	29.5	28	81.2	62.1	24.6	3	8	M16
	40	ER32	M6	M20	2.0	20.0	56.5	50	112.6	93.5	33.0	4	9	M16
	40	ER40	M6	M28	3.0	26.0	56.5	63	130.6	111.5	51.0	4	9	M24
GTI DIN69871 50 ER 16	50	ER16	M3	M10	0.5	10.0	29.5	28	106.8	87.7	24.6	3	8	M24
	50	ER32	M6	M20	2.0	20.0	56.5	50	115.3	96.2	33.0	4	9	M24
	50	ER40	M6	M28	3.0	26.0	56.5	63	133.3	114.2	51.0	4	9	M24

DIN69871-TC

Tap holder



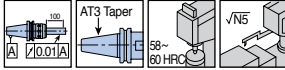
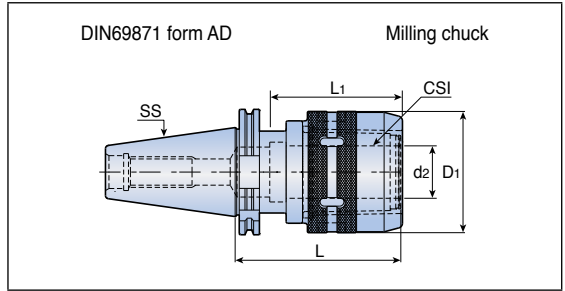
Designation	Dimension (mm)							
	SS	Tapmin	Tapmax	d2	L	F1b	F1f	Tap adapter
DIN69871 40 TC 12-90	40	M3	M12	19	90	6.5	12	TA1
	40	M6	M24	31	142	14.5	13	TA2
DIN69871 50 TC 12-130	50	M3	M12	19	130	6.5	12	TA1
	50	M6	M24	31	142	14.5	13	TA2
	50	M18	M38	48	190	20.0	20	TA3



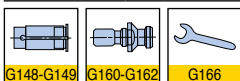
• Torque control system

DIN69871-TMC

Milling chuck

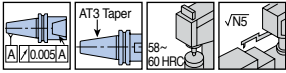
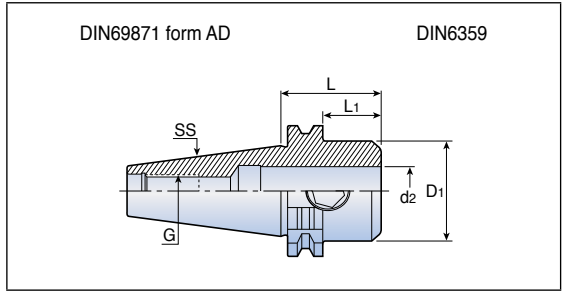


Designation	Dimension (mm)					
	SS	CSI	d2	D1	L	L1
DIN69871 30 TMC 20-80	30	20	20	54.0	80	60
TMC 25-80	30	25	25	62.5	80	70
DIN69871 40 TMC 20-80	40	20	20	54.0	80	60
TMC 20-90	40	20	20	54.0	90	60
TMC 20-105	40	20	20	54.0	105	60
TMC 25-90	40	25	25	62.5	90	70
TMC 25-105	40	25	25	62.5	105	70
TMC 32-90	40	32	32	74.0	90	80
TMC 32-105	40	32	32	74.0	105	80
TMC 32-135	40	32	32	74.0	135	80
DIN69871 50 TMC 20-80	50	20	20	54.0	80	60
TMC 20-105	50	20	20	54.0	105	60
TMC 25-90	50	25	25	62.5	90	70
TMC 25-105	50	25	25	62.5	105	70
TMC 32-90	50	32	32	74.0	90	80
TMC 32-105	50	32	32	74.0	105	80
TMC 32-135	50	32	32	74.0	135	80
TMC 32-165	50	32	32	74.0	165	80
TMC 42-115	50	42	42	92.0	115	90
TMC 42-135	50	42	42	92.0	135	90
TMC 42-165	50	42	42	92.0	165	90

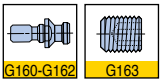


DIN69871-EM

Short end mill holder



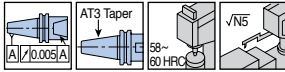
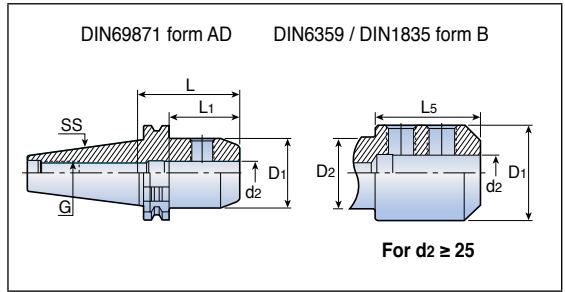
Designation	Dimension (mm)					
	SS	d2	D1	L	L1	G
DIN69871 40 EM 10x45	40	10	35	45	25.9	M16
EM 12x45	40	12	42	45	25.9	M16
EM 14x45	40	14	44	45	25.9	M16
EM 16x45	40	16	48	45	25.9	M16
EM 18x45	40	18	49	45	25.9	M16
EM 20x45	40	20	49	45	25.9	M16
EM 25x45	40	25	49	45	25.9	M16



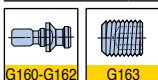
• Add B for coolant through flange

DIN69871-EM

End mill holder



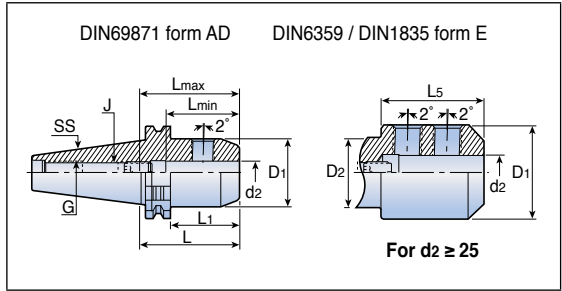
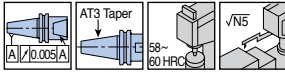
Designation	Dimension (mm)								
	SS	d2	D1	D2	L	L1	L5	G	
DIN69871 30									
EM 6x50	30	6	25	-	50	30.9	-	M12	
EM 8x50	30	8	28	-	50	30.9	-	M12	
EM 10x50	30	10	35	-	50	30.9	-	M12	
EM 14x63	30	14	44	-	63	43.9	-	M12	
EM 16x63	30	16	48	-	63	43.9	-	M12	
EM 18x72	30	18	50	-	72	52.9	-	M12	
EM 20x72	30	20	52	-	72	52.9	-	M12	
DIN69871 40									
EM 6x50	40	6	25	-	50	30.9	-	M16	
EM 8x50	40	8	28	-	50	30.9	-	M16	
EM 10x50	40	10	35	-	50	30.9	-	M16	
EM 12x50	40	12	42	-	50	30.9	-	M16	
EM 14x63	40	14	44	-	63	43.9	-	M16	
EM 16x63	40	16	48	-	63	43.9	-	M16	
EM 18x63	40	18	50	-	63	43.9	-	M16	
EM 20x63	40	20	52	-	63	43.9	-	M16	
EM 25x100	40	25	65	49.0	100	80.9	65	M16	
EM 32x100	40	32	71	49.0	100	80.9	65	M16	
DIN69871 50									
EM 6x63	50	6	25	-	63	43.9	-	M24	
EM 8x63	50	8	28	-	63	43.9	-	M24	
EM 10x63	50	10	35	-	63	43.9	-	M24	
EM 12x63	50	12	42	-	63	43.9	-	M24	
EM 14x63	50	14	44	-	63	43.9	-	M24	
EM 16x63	50	16	48	-	63	43.9	-	M24	
EM 18x63	50	18	50	-	63	43.9	-	M24	
EM 20x63	50	20	52	-	63	43.9	-	M24	
EM 25x80	50	25	65	-	80	60.9	-	M24	
EM 32x100	50	32	72	-	100	80.9	-	M24	
EM 40x100	50	40	90	79.9	100	80.9	43	M24	
EM 50x125	50	50	98	79.9	125	105.9	90	M24	



• Add B for coolant through flange except DIN69871 30

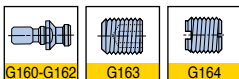
DIN69871-EM-E

End mill holder - Whistle notch

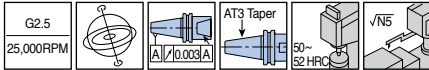
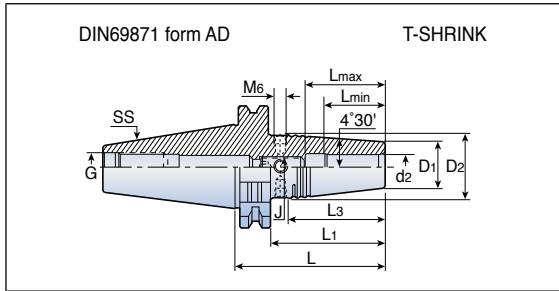


Designation	Dimension (mm)											
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L5	G	J	
DIN69871 40	EM 8x50E	40	8	28	-	50	35	45	30.9	-	M16	M6
	EM 10x50E	40	10	35	-	50	39	49	30.9	-	M16	M8
	EM 12x50E	40	12	42	-	50	44	54	30.9	-	M16	M10
	EM 14x63E	40	14	44	-	63	44	54	43.9	-	M16	M10
	EM 16x63E	40	16	48	-	63	47	57	43.9	-	M16	M12
	EM 18x63E	40	18	50	-	63	47	57	43.9	-	M16	M12
	EM 20x63E	40	20	52	-	63	49	59	43.9	-	M16	M16
	EM 25x100E	40	25	64	49	100	54	64	80.9	65	M16	M20x1.5
DIN69871 50	EM 32x100E	40	32	71	49	100	58	68	80.9	65	M16	M20x1.5
	EM 8x63E	50	8	28	-	63	35	45	43.9	-	M24	M6
	EM 10x63E	50	10	35	-	63	39	49	43.9	-	M24	M8
	EM 12x63E	50	12	42	-	63	44	54	43.9	-	M24	M10
	EM 14x63E	50	14	44	-	63	44	54	43.9	-	M24	M10
	EM 16x63E	50	16	48	-	63	47	57	43.9	-	M24	M12
	EM 18x63E	50	18	50	-	63	47	57	43.9	-	M24	M12
	EM 20x63E	50	20	52	-	63	49	59	43.9	-	M24	M16
	EM 25x80E	50	25	65	-	80	54	64	60.9	-	M24	M20x1.5
	EM 32x100E	50	32	72	-	100	58	68	80.9	-	M24	M20x1.5
	EM 40x100E	50	40	90	79	100	68	78	80.9	43	M24	M20x1.5

- The adjustment screw has an internal coolant hole
- Add B for coolant through the flange



Thermal shrinking chuck

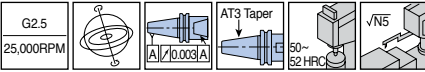
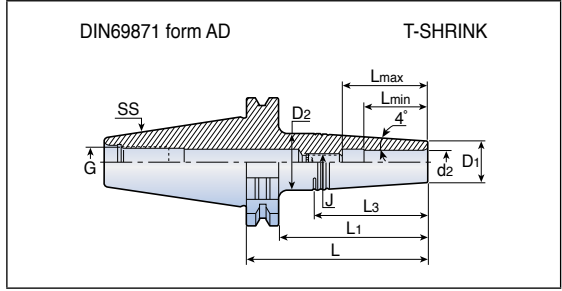


Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	G	J
DIN69871 40 SRKIN 6x80	40	6	21	27	80	25	36	60.9	38.0	M16	M5
SRKIN 8x80	40	8	21	27	80	25	36	60.9	38.0	M16	M6
SRKIN 10x80	40	10	24	32	80	31	42	60.9	50.5	M16	M8
SRKIN 12x80	40	12	24	32	80	31	47	60.9	50.5	M16	M10
SRKIN 14x80	40	14	27	34	80	36	47	60.9	44.2	M16	M10
SRKIN 16x80	40	16	27	34	80	39	50	60.9	44.2	M16	M12
SRKIN 18x80	40	18	33	42	80	39	50	60.9	57.0	M16	M12
SRKIN 20x80	40	20	33	42	80	41	52	60.9	57.0	M16	M16
SRKIN 25x100	40	25	44	53	100	47	58	80.9	57.0	M16	M16
DIN69871 50 SRKIN 6x80⁽¹⁾	50	6	21	27	80	25	36	60.9	38.0	M24	M5
SRKIN 8x80⁽¹⁾	50	8	21	27	80	25	36	60.9	38.0	M24	M6
SRKIN 10x80⁽¹⁾	50	10	24	32	80	31	42	60.9	51.0	M24	M8
SRKIN 12x80⁽¹⁾	50	12	24	32	80	31	47	60.9	51.0	M24	M16
SRKIN 14x80⁽¹⁾	50	14	27	34	80	36	47	60.9	45.0	M24	M10
SRKIN 16x80⁽¹⁾	50	16	27	34	80	39	50	60.9	45.0	M24	M10
SRKIN 18x80⁽¹⁾	50	18	33	42	80	39	50	60.9	57.0	M24	M12
SRKIN 20x80⁽¹⁾	50	20	33	42	80	41	52	60.9	57.0	M24	M12
SRKIN 25x100⁽¹⁾	50	25	44	53	100	47	58	80.9	57.0	M24	M16
SRKIN 32x100⁽¹⁾	50	32	44	53	100	47	58	80.9	57.0	M24	M16



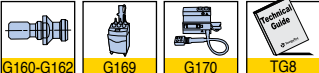
- Only use inductive heating device for T-SHRINK holders
- Add B for coolant through flange
- ⁽¹⁾ Balance to G2.5 at 20,000RPM

Thermal shrinking chuck



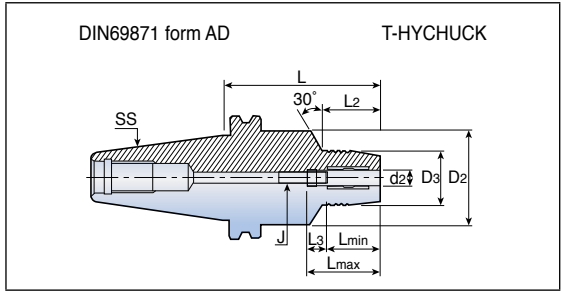
Designation	Dimension (mm)											
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	G	J	
DIN69871 40 SRK 3x50	40	3	10	15	69.1	10	16	50	35.5	M16	M6	
SRK 3x85	40	3	10	19	104.1	10	16	85	64.1	M16	M6	
SRK 4x50	40	4	10	15	69.1	12	18	50	35.5	M16	M6	
SRK 4x85	40	4	10	19	104.1	12	18	85	64.1	M16	M6	
SRK 5x50	40	5	10	15	69.1	15	21	50	35.5	M16	M6	
SRK 5x85	40	5	10	19	104.1	12	18	85	64.1	M16	M6	
SRK 6x50	40	6	11	16	69.1	18	24	50	35.5	M16	M8	
SRK 6x85	40	6	11	20	104.1	18	24	85	64.1	M16	M8	
SRK 8x50	40	8	14	20	69.1	25	31	50	42.5	M16	M10	
SRK 8x85	40	8	14	23	104.1	25	31	85	63.9	M16	M10	
SRK 10x50	40	10	16	22	69.1	30	36	50	42.4	M16	M12	
SRK 10x85	40	10	16	24.5	104.1	30	36	85	60.3	M16	M12	
SRK 12x50	40	12	20	26	69.1	32	42	50	42.3	M16	M10	
SRK 12x85	40	12	20	28	104.1	32	42	85	56.6	M16	M10	

• Add B for coolant through the flange



DIN69871-THC

Hydraulic chuck



G2.5 15,000RPM			AT3 Taper	58- 60 HRC	
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Designation	Dimension (mm)									
	SS	d2	D2	D3	L	Lmin	Lmax	L2	L3	J
DIN69871 40 THC 6-65	40	6	50	28	65	27.5	37.5	23	10	M5
THC 8-65	40	8	50	30	65	27.5	37.5	23	10	M6
THC 10-95	40	10	50	32	95	32.5	42.5	44	10	M8x1
THC 12-95	40	12	50	34	95	37.5	47.5	44	10	M10x1
THC 14-95	40	14	50	36	95	37.5	47.5	47	10	M10x1
THC 16-95	40	16	50	38	95	42.5	52.5	48	10	M10x1
THC 18-95	40	18	50	41	95	42.5	52.5	47	10	M10x1
THC 20-95	40	20	50	43	95	42.5	52.5	48	10	M10x1
DIN69871 50 THC 12-90 ⁽¹⁾	50	12	50	34	90	37.5	47.5	44	10	M10x1
THC 16-90 ⁽¹⁾	50	16	50	38	90	42.5	52.5	48	10	M10x1
THC 20-120 ⁽¹⁾	50	20	50	43	120	42.5	52.5	48	10	M10x1
THC 20-150 ⁽¹⁾	50	20	50	43	150	42.5	52.5	48	10	M10x1
THC 25-135 ⁽¹⁾	50	25	-	53	135	51.0	61.0	-	10	M10x1
THC 32-135 ⁽¹⁾	50	32	-	63	135	55.0	65.0	-	10	M16x1
THC 32-150 ⁽¹⁾	50	32	-	63	150	55.0	65.0	-	10	M16x1

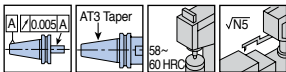
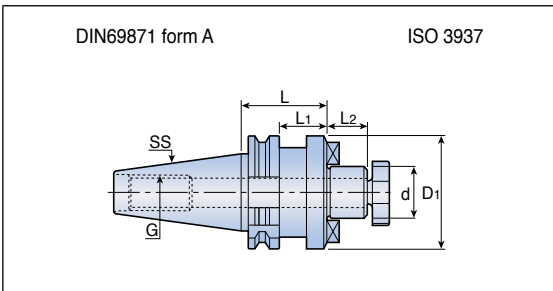
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- Add B for coolant through flange
- ⁽¹⁾ Balance to G2.5 at 10,000RPM

Contents

DIN69871-SEM

Face mill arbor



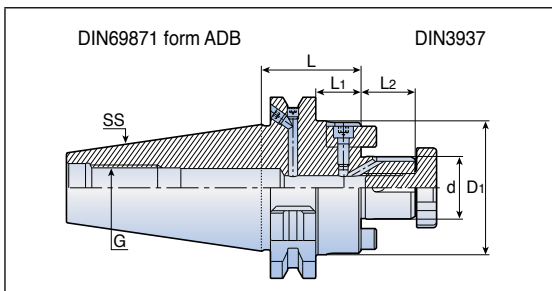
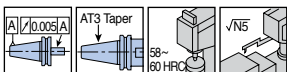
Designation	Dimension (mm)						
	SS	d	D1	L	L1	L2	G
DIN69871 30 SEM 16x35	30	16	38	35	15.9	17	M12
SEM 22x50	30	22	47	50	30.9	19	M12
SEM 27x50	30	27	58	50	30.9	21	M12
DIN69871 40 SEM 16x35	40	16	38	35	15.9	17	M16
SEM 22x35	40	22	47	35	15.9	19	M16
SEM 27x60	40	27	58	60	40.9	21	M16
SEM 32x60	40	32	66	60	40.9	24	M16
SEM 40x60	40	40	82	60	40.9	27	M16
DIN69871 50 SEM 16x35	50	16	38	35	15.9	17	M24
SEM 22x35	50	22	47	35	15.9	19	M24
SEM 22x50x200	50	22	50	200	180.9	19	M24
SEM 27x35	50	27	58	35	15.9	21	M24
SEM 32x35	50	32	66	35	15.9	24	M24
SEM 32x78x370	50	40	78	370	350.9	24	M24
SEM 40x50	50	40	82	50	30.9	27	M24
SEM 50x60	50	50	95	60	40.9	30	M24



• Wrench not included

DIN69871-SEM-C

Face mill arbor with coolant hole



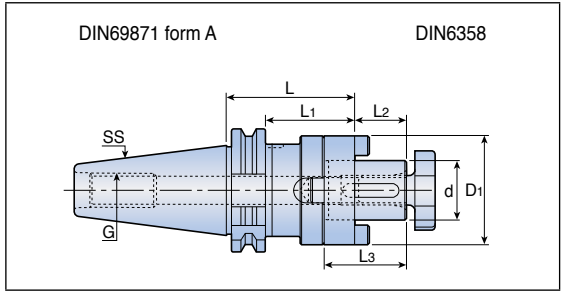
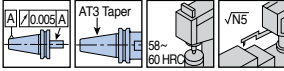
Designation	Dimension (mm)						
	SS	d	D1	L	L1	L2	G
DIN69871 40SEM 16x35C	40	16	38	35	15.9	17	M16
SEM 16x100C	40	16	38	100	80.9	17	M16
SEM 22x35C	40	22	47	35	15.9	19	M16
SEM 22x100C	40	22	47	100	80.9	19	M16
SEM 27x60C	40	27	58	60	40.9	21	M16
SEM 27x100C	40	27	58	100	80.9	21	M16
SEM 32x60C	40	32	66	60	40.9	24	M16
DIN69871 50SEM 16x35C	50	16	38	35	15.9	17	M24
SEM 16x100C	50	16	38	100	80.9	17	M24
SEM 22x35C	50	22	47	35	15.9	19	M24
SEM 22x100C	50	22	47	100	80.9	19	M24
SEM 27x35C	50	27	58	35	15.9	21	M24
SEM 27x100C	50	27	58	100	80.9	21	M24
SEM 32x35C	50	32	66	35	15.9	24	M24
SEM 32x100C	50	32	66	100	80.9	24	M24
DIN69871 50SEM 22x48x200C	50	22	48	200	181.0	19	M24
SEM 22x61x300C	50	22	61	300	281.0	19	M24
SEM 27x61x300C	50	27	61	300	281.0	21	M24
SEM 32x78x370C	50	32	78	370	351.0	24	M24

• If the "B type" option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)

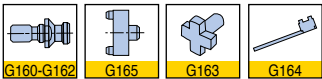


DIN69871-SEMC

Combi shell end mill arbor



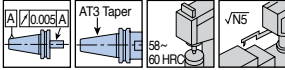
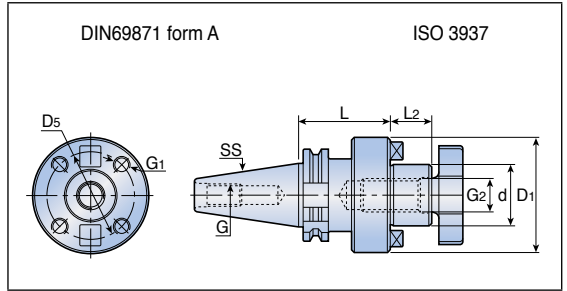
Designation	Dimension (mm)								
	SS	d	D1	L	L1	L2	L3	G	
DIN69871 30 SEMC 16x50	30	16	32	50	30.9	17	27	M12	
	30	22	40	50	30.9	19	31	M12	
	30	32	58	30	40.9	24	38	M12	
DIN69871 40 SEMC 16x55	40	16	32	55	35.9	17	27	M16	
	40	16	32	100	80.9	17	27	M16	
	40	22	40	55	35.9	19	31	M16	
	40	22	40	100	80.9	19	31	M16	
	40	27	48	55	35.9	21	33	M16	
	40	27	48	100	80.9	21	33	M16	
	40	32	58	60	45.9	24	38	M16	
	40	32	58	100	80.9	24	38	M16	
	40	40	70	60	40.9	27	41	M16	
	40	40	70	100	80.9	27	41	M16	
DIN69871 50 SEMC 16x55	50	16	32	55	35.9	17	27	M24	
	50	16	32	100	80.9	17	27	M24	
	50	22	40	55	35.9	19	31	M24	
	50	22	40	100	80.9	19	31	M24	
	50	27	48	55	35.9	21	33	M24	
	50	27	48	100	80.9	21	33	M24	
	50	32	58	55	35.9	24	38	M24	
	50	32	58	100	80.9	24	38	M24	
	50	40	70	55	35.9	27	41	M24	
	50	40	70	10	80.9	27	41	M24	
	50	50	90	70	50.9	30	46	M24	



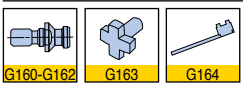
• Wrench not included

DIN69871 - FM

Face mill arbor



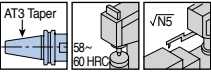
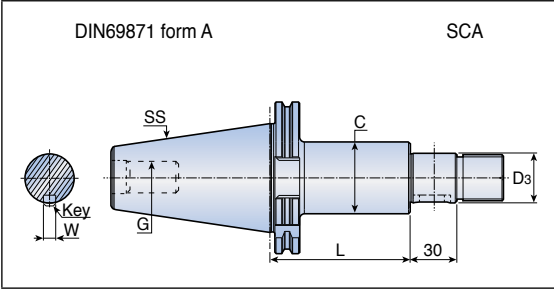
Designation	Dimension (mm)									
	SS	d	D1	D5	L	L2	G	G1	G2	
DIN69871 40 FM 40	40	40	88	66.7	60	27	M16	M12	M20	
DIN69871 50 FM 40	50	40	88	66.7	70	27	M24	M12	M20	
FM 60	50	60	128	101.6	70	40	M24	M16	-	



• 4 pcs of mounting screws are included

DIN69871-SCA

Slotting cutter arbor



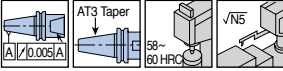
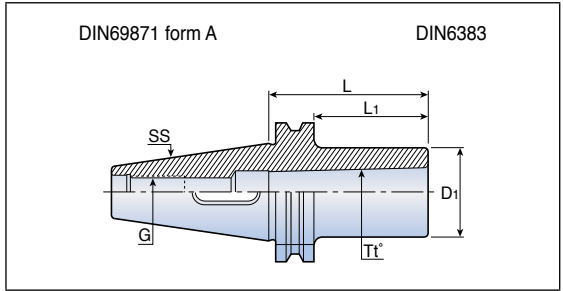
Designation	Dimension (mm)					
	SS	D ₃	L	C	W	G
DIN69871 40 SCA-22-75	40	22	75	34	6	M16
SCA-22-120	40	22	120	34	6	M16
SCA-27-75	40	27	75	40	7	M16
SCA-27-120	40	27	120	40	7	M16
SCA-32-90	40	32	90	46	8	M16
DIN69871 50 SCA-22-90	50	22	90	34	6	M24
SCA-22-135	50	22	135	34	6	M24
SCA-27-90	50	27	90	40	7	M24
SCA-27-135	50	27	135	40	7	M24
SCA-32-90	50	32	90	46	8	M24
SCA-32-135	50	32	135	46	8	M24
SCA-40-90	50	40	90	55	10	M24
SCA-40-135	50	40	135	55	10	M24
SCA-50-90	50	50	90	68	12	M24



• Washers & key are included (Each 3, 5, 7, 8, 10, 12mm)

DIN69871 - MT

Morse taper holder

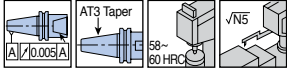
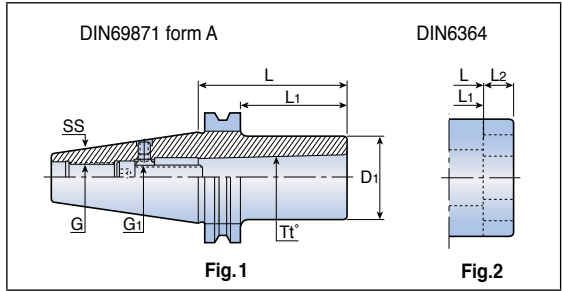


Designation	Dimension (mm)					
	SS	Tt°	D1	L	L1	G
DIN69871 30 MT 3x75	30	MT3	40	75	55.9	M12
DIN69871 40 MT 1x50	40	MT1	25	50	30.9	M16
MT 2x50	40	MT2	32	50	30.9	M16
MT 3x70	40	MT3	40	70	50.9	M16
MT 4x95	40	MT4	48	95	75.9	M16
DIN69871 50 MT 1x45	50	MT1	25	45	25.9	M24
MT 2x60	50	MT2	32	60	40.9	M24
MT 3x65	50	MT3	40	65	45.9	M24
MT 4x95	50	MT4	48	95	75.9	M24
MT 5x105	50	MT5	63	105	85.9	M24



DIN69871-MT-DRW

Morse taper draw bar adapter



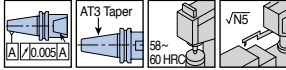
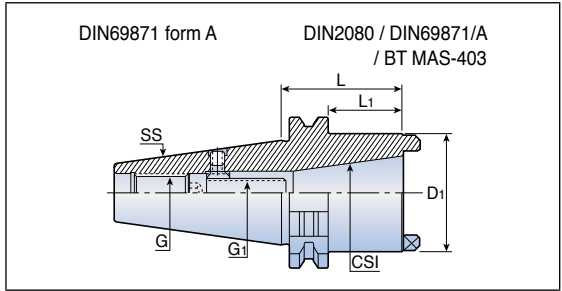
Designation	Dimension (mm)									Fig.
	SS	Tt°	D1	L	L1	L2	G	G1		
DIN69871 40	MT1 DRW	40	MT1	25	50	30.9	-	M16	M6	1
	MT2 DRW	40	MT2	32	50	30.9	-	M16	M10	1
	MT3 DRW	40	MT3	40	70	50.9	-	M16	M12	1
	MT4 DRW⁽¹⁾	40	MT4	63	110	90.9	15	M16	M16	2
DIN69871 50	MT1 DRW	50	MT1	25	45	25.9	-	M24	M6	1
	MT2 DRW	50	MT2	32	60	40.9	-	M24	M10	1
	MT3 DRW	50	MT3	40	65	45.9	-	M24	M12	1
	MT4 DRW⁽¹⁾	50	MT4	63	85	65.9	15	M24	M16	2
	MT5 DRW⁽¹⁾	50	MT5	78	118	98.9	18	M24	M20	2

(1) DIN2201



DIN69871-AD

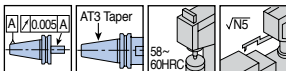
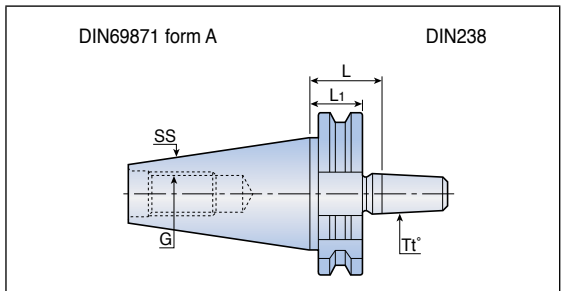
Adapter



Designation	Dimension (mm)						
	SS	CSI	D1	L	L1	G	G1
DIN69871 40 AD DIN2080 30	40	DIN2080 30	50	50	30.9	M16	M12
DIN69871 50 AD BT/SK 40	50	BT/SK 40	66	70	50.9	M24	M16

DIN69871-DC

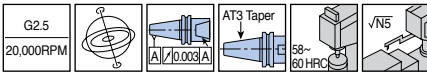
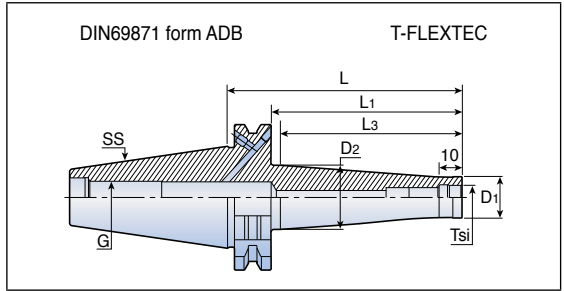
Drill chuck arbor



Designation	Dimension (mm)				
	SS	Tt°	L	L1	G
DIN69871 30 DC B12x26	30	B12	26	19.1	M12
DIN69871 40 DC B12x26	40	B12	26	19.1	M16
DC B16x26	40	B16	26	19.1	M16
DC B18x26	40	B18	26	19.1	M16
DIN69871 50 DC B16x26	50	B16	26	19.1	M24
DC B18x26	50	B16	26	19.1	M24



• Without drill chuck



Designation	Dimension (mm)								
	SS	Tsi	D1	D2	L	L1	L3	G	
DIN69871 40 ODP 6x58	40	M6	9.8	13.0	58	38.9	32	M16	
ODP 6x98	40	M6	9.8	23.0	98	78.9	74	M16	
ODP 8x58	40	M8	13.1	15.0	58	38.9	32	M16	
ODP 8x98	40	M8	13.1	23.0	98	78.9	74	M16	
ODP 10x58	40	M10	18.0	20.0	58	38.9	32	M16	
ODP 10x98	40	M10	18.0	28.0	98	78.9	74	M16	
ODP 12x58	40	M12	21.0	24.0	58	38.9	32	M16	
ODP 12x98	40	M12	21.0	31.0	98	78.9	74	M16	
ODP 16x58	40	M16	29.0	28.6	58	38.9	32	M16	
ODP 16x98	40	M16	29.0	34.0	98	78.9	74	M16	
DIN69871 50 ODP 12x78⁽¹⁾	50	M12	23.0	30.0	78	58.9	50	M24	
ODP 12x128⁽¹⁾	50	M12	23.0	40.0	128	108.9	100	M24	
ODP 12x178⁽¹⁾	50	M12	23.0	40.0	178	158.9	150	M24	
ODP 12x228⁽¹⁾	50	M12	23.0	46.0	228	208.9	200	M24	
ODP 16x78⁽¹⁾	50	M16	29.0	34.0	78	58.9	50	M24	
ODP 16x128⁽¹⁾	50	M16	29.0	40.0	128	108.9	100	M24	
ODP 16x178⁽¹⁾	50	M16	29.0	55.0	178	158.9	150	M24	
ODP 16x228⁽¹⁾	50	M16	29.0	55.0	228	208.9	200	M24	



- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

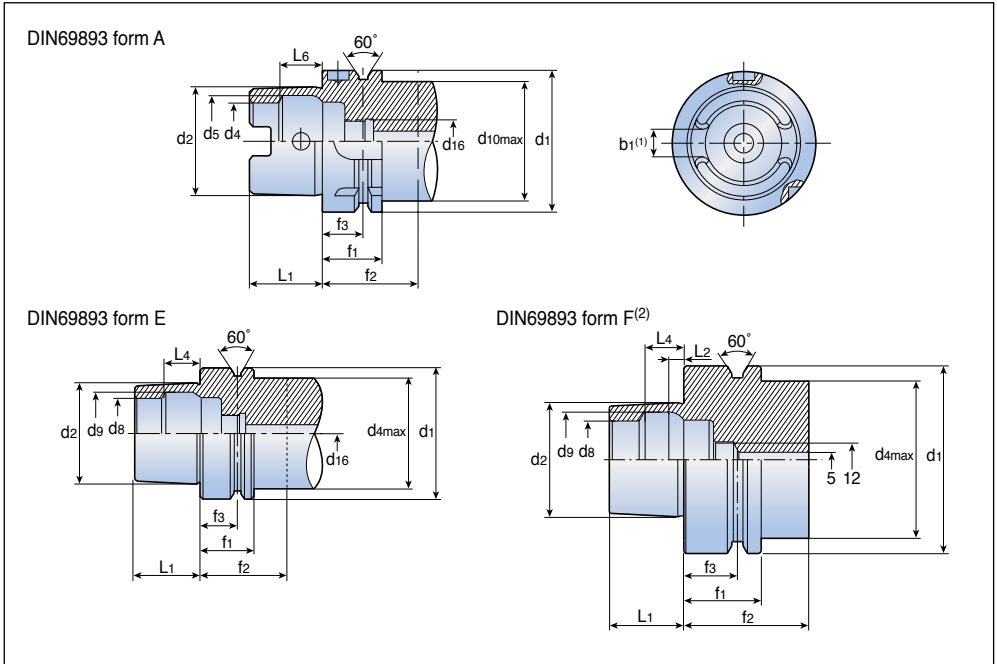
HSK



Contents

DIN69893 Form A/E/F

Standard toolholder



DIN69893 form A

HSK-A	d1 h10	d2	d4 H10	d5 H11	d10max	d16	L1 -0.2	L6 JS10	b1 ±0.04 ⁽¹⁾	f1 -0.1	f2min	f3 ±0.1
40	40	30	21	25.5	34	M12x1	20	11.42	8.05	20	35	16
50	50	38	26	32.0	42	M16x1	25	14.13	10.54	26	42	18
63	63	48	34	40.0	53	M18x1	32	18.13	12.54(12.42)	26	42	18
80	80	60	42	50.0	67	M20x1.5	40	22.85	16.04	26	42	18
100	100	75	53	63.0	85	M24x1.5	50	28.56	20.02 (19.9)	29	45	20

- ⁽¹⁾ The dimensions in parentheses refer to dimension b1 only for HSK A...WH tools.

These tools feature key slot gap and tolerance, set on turning tools for accurate cutting edge height position.
(According to Japanese ICTM standard and ISO 12164/3 standard)

DIN69893 form E

HSK-E	d1 h10	d2	d4max	d8 H10	d9 H11	d16	L1 -0.2	L4 JS10	f1 -0.1	f2min	f3 ±0.1
32	32	24	26	17	19.0	M10x1	16	8.92	20	35	16
40	40	30	34	21	25.5	M12x1	20	11.42	20	35	16
50	50	38	42	26	32.0	M16x1	25	14.13	26	42	18
63	63	48	53	34	40.0	M18x1	32	18.13	26	42	18

DIN69893 form F⁽²⁾

HSK-F	d1 h10	d2	d4max	d8 H10	d9 H11	L1 -0.2	L2	L4 JS10	f1 -0.1	f2min	f3 ±0.1
63	63	38	53	26	32	25	5.0	14.13	26	42	18

- ⁽²⁾ Without crosshole

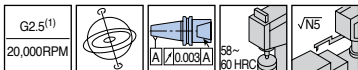
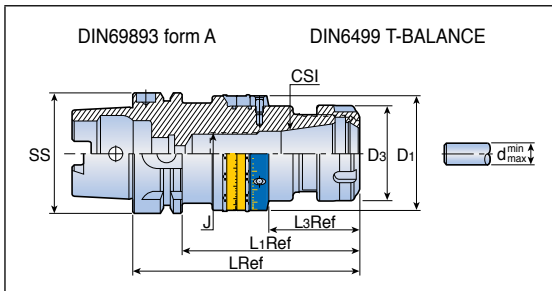
* For non-stock items: Supply condition is subject to availability.

If not available in stock then MOQ (Minimum order qty) will be applicable.

HSK A-ER-BIN

T-BALANCE

ER collet chuck with balanceable taper shank



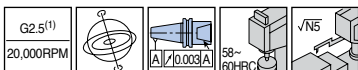
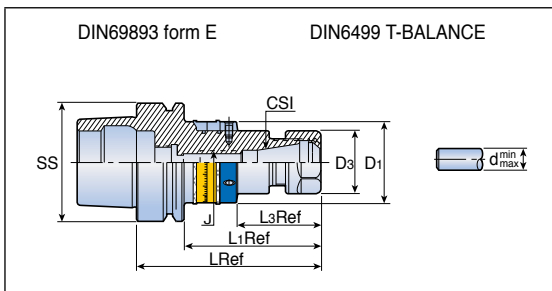
Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D1	D3	L	L1	L3	J
HSK A 63 ER 16x100 BIN	63	ER16	0.5	10.0	44	28	100	74	45.0	M10
ER 16x160 BIN	63	ER16	0.5	10.0	44	28	160	134	75.0	M10
ER 20x100 BIN	63	ER20	1.0	13.0	44	34	100	74	45.1	M12
ER 20x160 BIN	63	ER20	1.0	13.0	44	34	160	134	86.1	M12
ER 25x100 BIN	63	ER25	1.0	16.0	44	42	100	74	45.2	M16
ER 25x160 BIN	63	ER25	1.0	16.0	44	42	160	134	86.2	M16
ER 32x120 BIN	63	ER32	2.0	20.0	60	50	120	94	48.0	M22x1.5
ER 32x160 BIN	63	ER32	2.0	20.0	60	50	160	134	85.0	M22x1.5

• (1) Preset balanced value

HSK E-ER-BIN

T-BALANCE

ER collet chuck with balanceable taper shank



Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D1	D3	L	L1	L3	J
HSK E 63 ER 16x100 BIN	63	ER16	0.5	10.0	44	28	100	74	45.0	M10
ER 20x100 BIN	63	ER20	1.0	13.0	44	34	100	74	45.1	M12
ER 25x100 BIN	63	ER25	1.0	13.0	44	42	100	74	45.2	M16
ER 32x120 BIN	63	ER32	2.0	20.0	60	50	120	94	48.0	M22x1.5

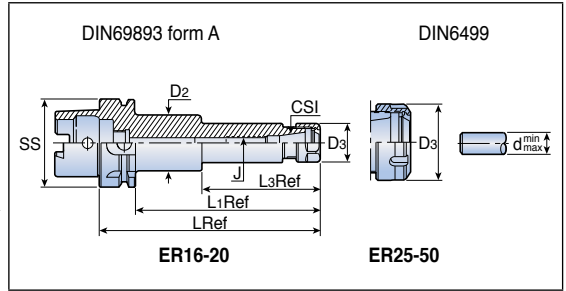
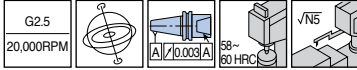


• (1) Preset balanced value

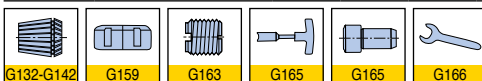
Contents

HSK A-ER

ER collet chuck

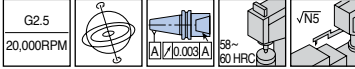
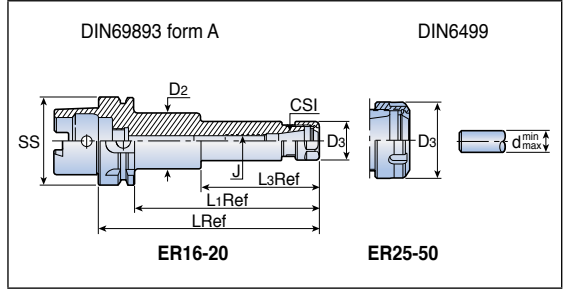


Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	J	
HSK A 40	ER 16x60	40	ER16	0.5	10.0	-	28	60	40	-	-
	ER 16x80	40	ER16	0.5	10.0	-	28	80	60	-	M10
	ER 16x100	40	ER16	0.5	10.0	-	28	100	80	-	M10
	ER 25x60	40	ER25	1.0	16.0	32.4	42	60	40	28.0	-
	ER 25x80	40	ER25	1.0	16.0	32.4	42	80	60	28.0	M18x1.5
	ER 25x100	40	ER25	1.0	16.0	32.4	42	100	80	28.0	M16
ER 32x100	40	ER32	2.0	20.0	40.4	50	100	80	31.0	M22x1.5	
HSK A 50	ER 16x100	50	ER16	0.5	10.0	-	28	100	74	-	M10
	ER 16x120	50	ER16	0.5	10.0	-	28	120	94	-	M10
	ER 20x100	50	ER20	1.0	13.0	-	34	100	74	-	M12
	ER 20x120	50	ER20	1.0	13.0	-	34	120	94	-	M12
	ER 25x80	50	ER25	1.0	16.0	32.4	42	80	54	28.0	M8
	ER 25x100	50	ER25	1.0	16.0	41.8	42	100	74	28.5	M16
	ER 32x100	50	ER32	2.0	20.0	40.4	50	100	74	31.0	M22x1.5
	ER 32x120	50	ER32	2.0	20.0	41.8	50	120	94	35.0	M22x1.5
HSK A 63	ER 16x100	63	ER16	0.5	10.0	-	28	100	74	-	M10
	ER 16x120	63	ER16	0.5	10.0	-	28	120	94	-	M10
	ER 16x160	63	ER16	0.5	10.0	40.0	28	160	134	85.6	M10
	ER 20x100	63	ER20	1.0	13.0	-	34	100	74	-	M12
	ER 20x120	63	ER20	1.0	13.0	-	34	120	94	-	M12
	ER 20x160	63	ER20	1.0	13.0	45.0	34	160	134	85.0	M12
	ER 25x80	63	ER25	1.0	16.0	-	42	80	54	-	M8
	ER 25x100	63	ER25	1.0	16.0	-	42	100	74	-	M16
	ER 25x120	63	ER25	1.0	16.0	-	42	120	94	-	M16
	ER 25x160	63	ER25	1.0	16.0	-	42	160	134	-	M16
	ER 32x80	63	ER32	2.0	20.0	40.4	50	80	54	31.0	-
	ER 32x100	63	ER32	2.0	20.0	-	50	100	74	-	M22x1.5
	ER 32x120	63	ER32	2.0	20.0	-	50	120	94	-	M22x1.5
	ER 32x160	63	ER32	2.0	20.0	-	50	160	134	-	M22x1.5
	ER 40x80	63	ER40	3.0	26.0	50.4	63	80	54	34.0	-
	ER 40x100	63	ER40	3.0	26.0	50.4	63	100	74	34.0	M28x1.5
	ER 40x120	63	ER40	3.0	26.0	50.4	63	120	94	34.0	M28x1.5

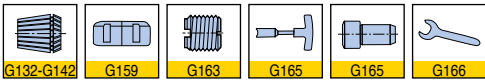


HSK A-ER

ER collet chuck



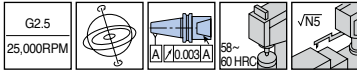
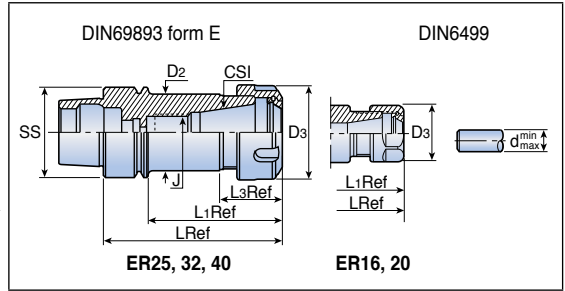
Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	J
HSK A 100 ER 16x100⁽¹⁾	100	ER16	0.5	10.0	-	28	100	71	-	M10
ER 16x160⁽¹⁾	100	ER16	0.5	10.0	40	28	160	131	85	M10
ER 20x100⁽¹⁾	100	ER20	1.0	13.0	-	34	100	71	-	M12
ER 20x160⁽¹⁾	100	ER20	1.0	13.0	50	34	160	131	85	M12
ER 25x100⁽¹⁾	100	ER25	1.0	16.0	-	42	100	71	-	M16
ER 25x120⁽¹⁾	100	ER25	1.0	16.0	-	42	120	91	-	M16
ER 25x160⁽¹⁾	100	ER25	1.0	16.0	-	42	160	134	-	M16
ER 32x100⁽¹⁾	100	ER32	2.0	20.0	-	50	100	71	-	M22x1.5
ER 32x120⁽¹⁾	100	ER32	2.0	20.0	-	50	120	91	-	M22x1.5
ER 32x160⁽¹⁾	100	ER32	2.0	20.0	-	50	160	131	-	M22x1.5
ER 40x100⁽¹⁾	100	ER40	3.0	26.0	-	63	100	71	-	M28x1.5
ER 40x120⁽¹⁾	100	ER40	3.0	26.0	-	63	120	91	-	M28x1.5
ER 40x160⁽¹⁾	100	ER40	3.0	26.0	-	63	160	131	-	M28x1.5
ER 50x100⁽¹⁾	100	ER50	10.0	34.0	-	78	100	71	-	M22x1.5



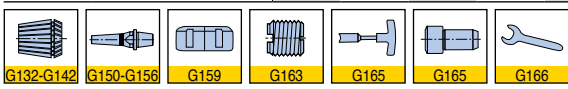
⁽¹⁾ Balance to G6.3 at 12,000RPM

HSK E-ER

ER collet chuck



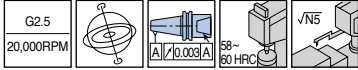
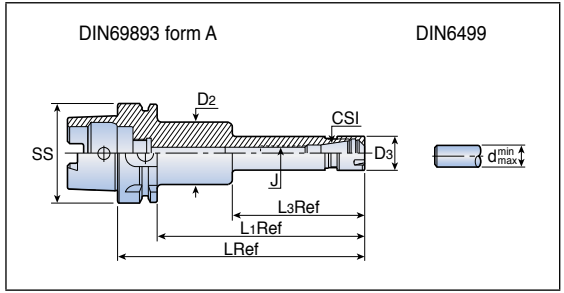
Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	J	
HSK E 32	ER 16x60	32	ER16	0.5	10.0	22.4	28	60	40	21.5	-
	ER 20x60	32	ER20	1.0	13.0	25.4	34	60	40	26.0	-
	ER 25x65	32	ER25	1.0	16.0	25.8	42	65	45	30.0	-
HSK E 40	ER 16x60	40	ER16	0.5	10.0	-	28	60	40	-	-
	ER 16x80	40	ER16	0.5	10.0	-	28	80	60	-	M10
	ER 20x80	40	ER20	1.0	13.0	-	34	80	60	-	M12
	ER 25x80	40	ER25	1.0	16.0	34.0	42	80	60	28.0	M18x1.5
	ER 32x80	40	ER32	2.0	20.0	40.1	50	-	60	31.0	M22x1.5
HSK E 50	ER 16x80	50	ER16	0.5	10.0	-	28	80	54	-	M10
	ER 16x100	50	ER16	0.5	10.0	-	28	100	74	-	M10
	ER 16x100 M⁽¹⁾	50	ER16	0.5	10.0	-	22	100	74	-	M10
	ER 20x80	50	ER20	1.0	13.0	-	34	80	54	-	M12
	ER 25x80	50	ER25	1.0	16.0	32.4	42	80	54	28.0	M16
	ER 32x80	50	ER32	2.0	20.0	40.4	50	80	54	31.0	-
	ER 32x100	50	ER32	2.0	20.0	40.4	50	100	74	31.0	M22x1.5
HSK E 63	ER 16x80	63	ER16	0.5	10.0	-	28	80	54	-	M10
	ER 16x100	63	ER16	0.5	10.0	-	28	100	74	-	M10
	ER 20x75	63	ER20	1.0	13.0	-	34	75	49	-	-
	ER 32x80	63	ER32	2.0	20.0	40.4	50	80	54	31.0	-
	ER 32x100	63	ER32	2.0	20.0	-	50	100	75	-	M22x1.5
	ER 40x80	63	ER40	3.0	26.0	-	63	80	54	34.0	-



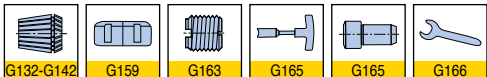
• ⁽¹⁾ Equipped with nut ER16 MINI

HSK A-ER-M

ER mini collet chuck



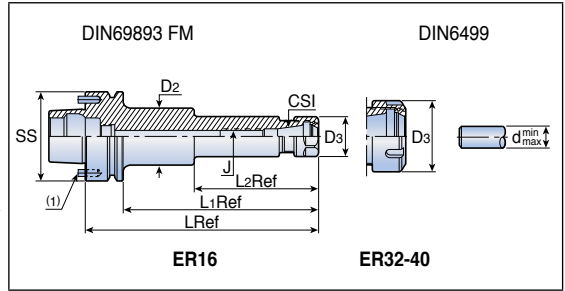
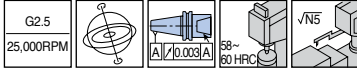
Designation	Dimension (mm)										
	SS	CSI	d _{min}	d _{max}	D ₂	D ₃	L	L ₁	L ₃	J	
HSK A 50	ER 16x100 M	50	ER16	0.5	10.0	-	22	100	74	-	M10
	ER 16x120 M	50	ER16	0.5	10.0	-	22	120	94	-	M10
	ER 20x100 M	50	ER20	1.0	13.0	-	28	100	74	-	M12
	ER 20x120 M	50	ER20	1.0	13.0	-	28	120	94	-	M12
HSK A 63	ER 16x100 M	63	ER16	0.5	10.0	-	22	100	74	-	M10
	ER 16x120 M	63	ER16	0.5	10.0	40	22	120	94	78	M10
	ER 16x160 M	63	ER16	0.5	10.0	40	22	160	134	85	M10
	ER 20x100 M	63	ER20	1.0	13.0	-	28	100	74	-	M12
	ER 20x120 M	63	ER20	1.0	13.0	-	28	120	94	-	M12
	ER 20x160 M	63	ER20	1.0	13.0	45	28	160	134	85	M12
HSK A 100	ER 16x100 M⁽¹⁾	100	ER16	0.5	10.0	-	22	100	71	-	M10
	ER 16x160 M⁽¹⁾	100	ER16	0.5	10.0	40	22	160	131	85	M10
	ER 20x100 M⁽¹⁾	100	ER20	1.0	13.0	-	28	100	71	-	M12
	ER 20x160 M⁽¹⁾	100	ER20	1.0	13.0	45	28	160	131	85	M12



• ⁽¹⁾ Balance to G6.3 at 12,000RPM

HSK FM-ER

ER collet chuck

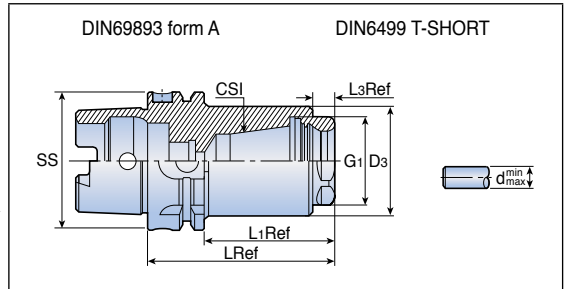
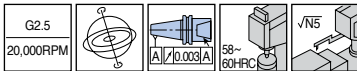


Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D2	D3	L	L1	L2	J
HSK FM 63 ER 16x80	63	ER16	0.5	10.0	-	28	80	54	-	M10
ER 16x100	63	ER16	0.5	10.0	-	28	100	74	-	M10
ER 16x120	63	ER16	0.5	10.0	-	28	120	94	-	M10
ER 16x160	63	ER16	0.5	10.0	40	28	160	134	85.6	M10
ER 32x80	63	ER32	2.0	20.0	-	50	80	54	-	-
ER 32x100	63	ER32	2.0	20.0	-	50	100	74	-	M22x1.5
ER 40x80	63	ER40	3.0	26.0	50	63	80	54	32.0	-
ER 40x100	63	ER40	3.0	26.0	50	63	100	74	32.0	M28x1.5

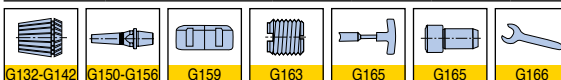
- (1) The driving pins can be removed to turn the toolholder into a standard HSK F 63 type

HSK A-ER-SHORT

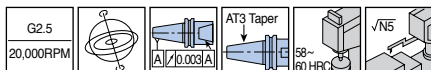
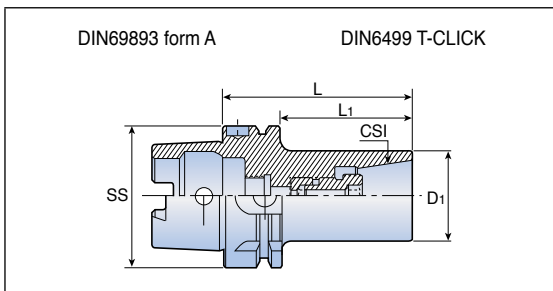
Short ER collet chuck



Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D3	L	L1	L3	G1	
HSK A 63 ER 32 SHORT	63	ER32	2.0	10.0	50	84.5	56.1	9.5	M40x1.5	
HSK A 100 ER 32 SHORT	100	ER32	2.0	10.0	50	89.5	60.5	9.5	M40x1.5	
ER 40 SHORT	100	ER40	3.0	26.0	70	104.5	75.5	9.5	M50x1.5	



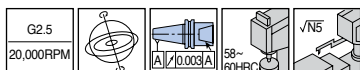
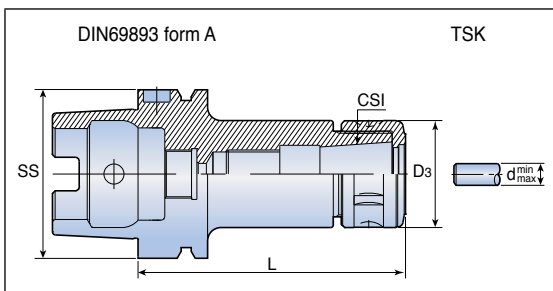
- (1) Equipped with nut ER16 MINI



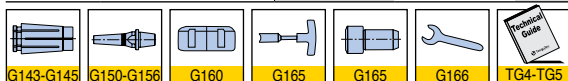
Designation	Dimension (mm)				
	SS	CSI	D1	L	L1
HSK A 63 ER32 CLICK-IN	63	SRF32	41	85	59

HSK A-TSK

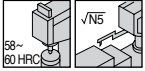
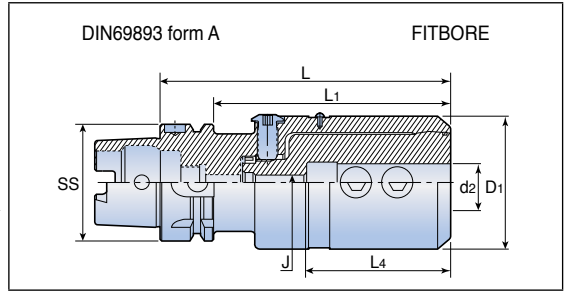
TSK collet chuck



Designation	Dimension (mm)					
	SS	CSI	dmin	dmax	D3	L
HSK A 50						
TSK 6-80	50	TSK6	1.5	6.0	19.5	80
TSK 10-90	50	TSK10	1.5	10.0	27.5	90
TSK 16-100	50	TSK16	2.5	16.0	40.0	100
HSK A 63						
TSK 6-80	63	TSK6	1.5	6.0	19.5	80
TSK 10-90	63	TSK10	1.5	10.0	27.5	90
TSK 16-100	63	TSK16	2.5	16.0	40.0	100
TSK 25-120	63	TSK20	15.5	25.4	55.0	120
HSK A 100						
TSK 6-80	100	TSK6	1.5	6.0	19.5	80
TSK 10-90	100	TSK10	1.5	10.0	27.5	90
TSK 16-100	100	TSK16	2.5	16.0	40.0	100
TSK 25-120	100	TSK25	15.5	25.4	55.0	120



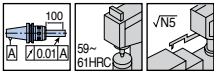
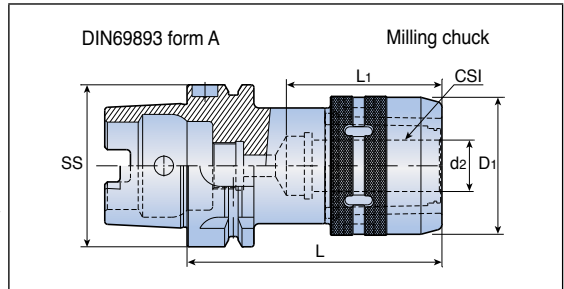
Contents



Designation	Dimension (mm)						
	SS	d2	D1	L	L1	L4	J
FITBORE HSK A 63 EM 25	63	25	72	142	116	71	M10
EM 32	63	32	72	142	116	71	M10
EM 40	63	40	72	142	116	71	M10

HSK A-TMC

Milling chuck

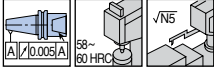
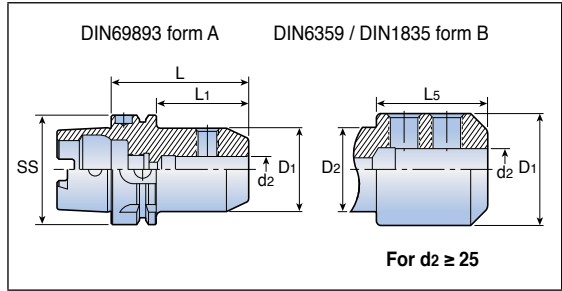


Designation	Dimension (mm)					
	SS	CSI	d2	D1	L	L1
HSK A 63 TMC 20-105	63	20	20	54.0	105	60
TMC 25-120	63	25	25	62.5	120	70
TMC 32-130	63	32	32	74.0	130	80
HSK A 100 TMC 20-110	100	20	20	54.0	110	60
TMC 25-130	100	25	25	62.5	130	70
TMC 32-135	100	32	32	74.0	135	80
TMC 42-135	100	42	42	92.0	135	90



HSK A-EM

End mill holder

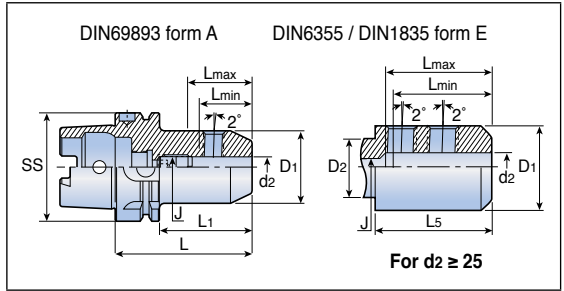
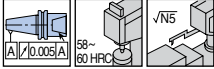


Designation	Dimension (mm)								
	SS	d2	D1	D2	L	L1	L5		
HSK A 50	EM 6x65	50	6	25	-	65	39	-	
	EM 8x65	50	8	28	-	65	39	-	
	EM 10x65	50	10	35	-	65	39	-	
	EM 14x80	50	14	44	-	80	54	-	
	EM 16x80	50	16	48	-	80	54	-	
	EM 18x80	50	18	50	-	80	54	-	
	EM 20x80	50	20	52	-	80	54	-	
HSK A 63	EM 6x65	63	6	25	-	65	39	-	
	EM 8x65	63	8	28	-	65	39	-	
	EM 10x65	63	10	35	-	65	39	-	
	EM 10x65	63	12	42	-	80	54	-	
	EM 12x80	63	14	44	-	80	54	-	
	EM 14x80	63	16	48	-	80	54	-	
	EM 18x80	63	18	50	-	80	54	-	
	EM 20x80	63	20	52	-	80	54	-	
	EM 25x110	63	25	65	52	110	84	65.5	
	EM 32x110	63	32	72	52	110	84	65.5	
HSK A 100	EM 8x80	100	8	28	-	80	51	-	
	EM 10x80	100	10	35	-	80	51	-	
	EM 12x80	100	12	42	-	80	51	-	
	EM 14x80	100	14	44	-	80	51	-	
	EM 16x100	100	16	48	-	100	71	-	
	EM 18x100	100	18	50	-	100	71	-	
	EM 20x100	100	20	52	-	100	71	-	
	EM 25x100	100	25	65	-	100	71	-	
	EM 32x100	100	32	72	-	100	71	-	
	EM 40x110	100	40	85	-	110	81	-	

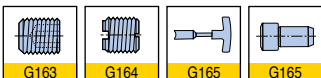


HSK A-EM-E

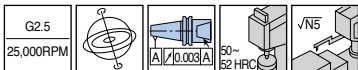
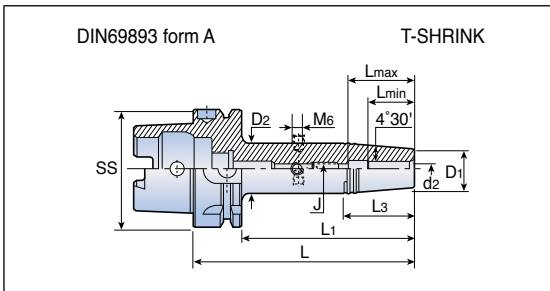
End mill holder - Whistle notch



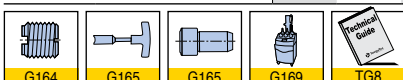
Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L5	J	
HSK A 50	EM 6x80 E	50	6	25	-	80	30	38	54	-	M5
	EM 8x80 E	50	8	28	-	80	35	40	54	-	M6
	EM 10x80 E	50	10	35	-	80	39	44	54	-	M8
	EM 12x90 E	50	12	42	-	90	44	49	64	-	M10
	EM 14x90 E	50	14	44	-	90	44	49	64	-	M10
	EM 16x90 E	50	16	48	-	90	47	52	64	-	M12
	EM 18x90 E	50	18	50	-	90	47	52	64	-	M12
	EM 20x100 E	50	20	52	-	100	49	54	74	-	M16
HSK A 63	EM 6x80 E	63	6	25	-	80	32	40	54	-	M5
	EM 8x80 E	63	8	28	-	80	35	40	54	-	M6
	EM 10x80 E	63	10	35	-	80	39	44	54	-	M8
	EM 12x90 E	63	12	42	-	90	44	49	64	-	M10
	EM 14x90 E	63	14	44	-	90	44	49	64	-	M10
	EM 16x100 E	63	16	48	-	100	47	52	74	-	M12
	EM 18x100 E	63	18	50	-	100	47	55	74	-	M12
	EM 20x100 E	63	20	52	-	100	49	54	74	-	M16
	EM 25x110 E	63	25	65	52	110	54	61	84	65.5	M16
EM 32x110 E	63	32	72	52	110	58	63	84	65.5	M20x1.5	
HSK A 100	EM 6x90 E	100	6	25	-	90	35	40	61	-	M5
	EM 8x90 E	100	8	28	-	90	35	40	61	-	M6
	EM 10x90 E	100	10	35	-	90	39	44	61	-	M8
	EM 12x100 E	100	12	42	-	100	44	54	71	-	M10
	EM 14x100 E	100	14	44	-	100	44	54	71	-	M10
	EM 16x100 E	100	16	48	-	100	47	52	71	-	M12
	EM 18x100 E	100	18	50	-	100	47	52	71	-	M12
	EM 20x110 E	100	20	52	-	110	49	54	81	-	M16
	EM 25x120 E	100	25	65	-	120	54	61	91	-	M20x1.5
	EM 32x120 E	100	32	72	-	120	58	63	91	-	M20x1.5



Thermal shrinking chuck

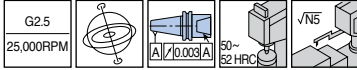
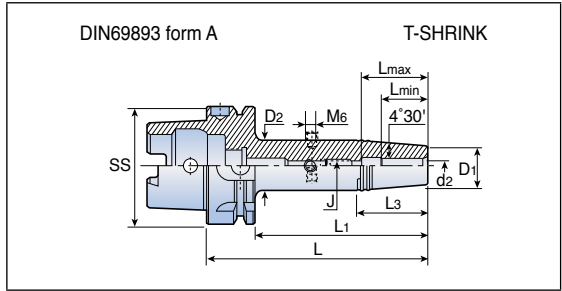


Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
HSK A 50 SRKIN 6x80	50	6	21	27	80	25	36	54	38	M5	2.5
SRKIN 8x80	50	8	21	27	80	25	36	54	38	M6	3.0
SRKIN 10x85	50	10	24	32	85	31	42	59	51	M8	4.0
SRKIN 12x90	50	12	24	32	90	36	47	64	51	M10	5.0
SRKIN 14x90	50	14	27	34	90	36	47	64	45	M10	5.0
SRKIN 16x95	50	16	27	34	95	39	50	69	45	M10	5.0
HSK A 63 SRKIN 6x80	63	6	21	27	80	25	36	54	38	M5	2.5
SRKIN 6x120	63	6	21	27	120	25	36	94	38	M5	2.5
SRKIN 6x160	63	6	21	27	160	25	36	134	38	M5	2.5
SRKIN 8x80	63	8	21	27	80	25	36	54	38	M6	3.0
SRKIN 8x120	63	8	21	27	120	25	36	94	38	M6	3.0
SRKIN 8x160	63	8	21	27	160	25	36	134	38	M6	3.0
SRKIN 10x85	63	10	24	32	85	31	42	54	51	M8	4.0
SRKIN 10x120	63	10	24	32	120	31	42	94	51	M8	4.0
SRKIN 10x160	63	10	24	32	160	31	42	134	51	M8	4.0
SRKIN 12x90	63	12	24	32	90	36	42	64	51	M8	4.0
SRKIN 12x120	63	12	24	32	120	36	47	94	51	M10	5.0
SRKIN 12x160	63	12	24	32	160	36	47	134	51	M10	5.0
SRKIN 14x90	63	14	27	34	90	36	47	64	45	M10	5.0
SRKIN 14x120	63	14	27	34	120	36	47	94	45	M10	5.0
SRKIN 14x160	63	14	27	34	160	36	47	134	45	M10	5.0
SRKIN 16x75	63	16	27	34	75	39	50	49	-	-	-
SRKIN 16x95	63	16	27	34	95	39	50	69	44	M12	6.0
SRKIN 16x120	63	16	27	34	120	39	50	94	44	M12	6.0
SRKIN 16x160	63	16	27	34	160	39	50	134	44	M12	6.0
SRKIN 18x95	63	18	33	42	95	39	50	69	57	M12	6.0
SRKIN 18x120	63	18	33	42	120	39	50	94	57	M12	6.0
SRKIN 18x160	63	18	33	42	160	39	50	134	57	M12	6.0
SRKIN 20x75	63	20	33	41	75	41	50	49	-	-	-
SRKIN 20x100	63	20	33	42	100	41	52	74	57	M16	8.0
SRKIN 20x120	63	20	33	42	120	41	52	94	57	M16	8.0
SRKIN 20x160	63	20	33	42	160	41	52	134	57	M16	8.0
SRKIN 25x85	63	25	44	53	85	47	58	59	-	-	-



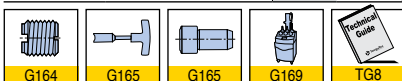
• Use only inductive heating device for T-SHRINK holders

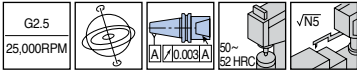
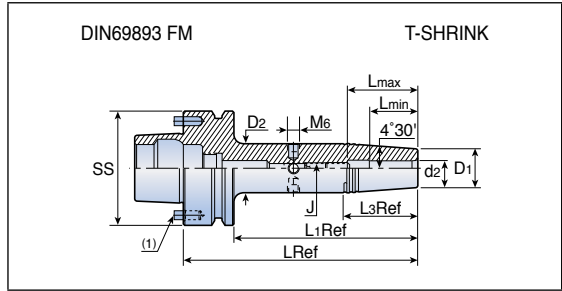
Thermal shrinking chuck



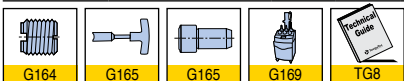
Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
HSK A 63 SRKIN 25x115	63	25	44	53	115	47	58	89	55	M16	8.0
SRKIN 32x85	63	32	44	53	85	47	58	59	-	-	-
SRKIN 32x120	63	32	44	53	120	47	58	94	55	M16	8.0
HSK A 100 SRKIN 6x85	100	6	21	27	85	25	36	56	38	M5	2.5
SRKIN 6x120	100	6	21	27	120	25	36	91	38	M5	2.5
SRKIN 6x160	100	6	21	27	160	25	36	131	38	M6	3.0
SRKIN 8x85	100	8	21	27	85	25	36	56	38	M6	3.0
SRKIN 8x120	100	8	21	27	120	25	36	91	38	M6	3.0
SRKIN 8x160	100	8	21	27	160	25	36	131	38	M6	3.0
SRKIN 10x90	100	10	24	32	90	31	42	61	51	M8	4.0
SRKIN 10x120	100	10	24	32	120	31	42	91	51	M8	4.0
SRKIN 10x160	100	10	24	32	160	31	42	131	51	M8	4.0
SRKIN 12x95	100	12	24	32	95	36	47	66	51	M10	5.0
SRKIN 12x120	100	12	24	32	120	36	47	91	51	M10	5.0
SRKIN 12x160	100	12	24	32	160	36	47	131	51	M10	5.0
SRKIN 14x95	100	14	27	34	95	36	47	66	45	M10	5.0
SRKIN 14x120	100	14	27	34	120	36	47	91	45	M10	5.0
SRKIN 14x160	100	14	27	34	160	36	47	131	45	M10	5.0
SRKIN 16x100	100	16	27	34	100	39	50	71	45	M12	6.0
SRKIN 16x120	100	16	27	34	120	39	50	91	45	M12	6.0
SRKIN 16x160	100	16	27	34	160	39	50	131	45	M12	6.0
SRKIN 18x100	100	18	33	42	100	39	50	71	57	M12	6.0
SRKIN 18x160	100	18	33	42	160	39	50	131	57	M12	6.0
SRKIN 20x105	100	20	33	42	105	41	52	76	57	M16	8.0
SRKIN 20x160	100	20	33	42	160	41	52	131	57	M16	8.0
SRKIN 25x115	100	25	44	53	115	47	58	86	57	M16	8.0
SRKIN 32x120	100	32	44	53	120	47	58	91	57	M16	8.0

• Use only inductive heating device for T-SHRINK holders

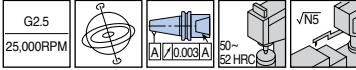
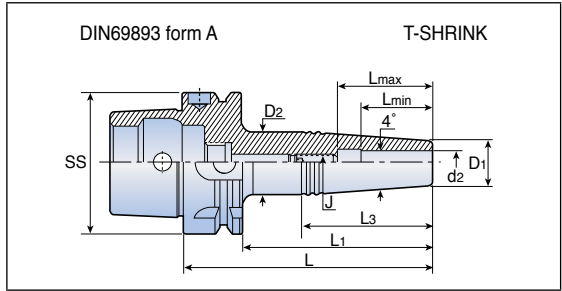




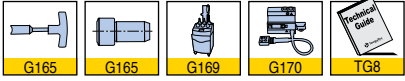
Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
HSK FM 63 SRKIN 6x80	63	6	21	27.0	80	25	36	54	38.0	M5	2.5
SRKIN 8x80	63	8	21	37.0	80	25	36	54	38.0	M6	3.0
SRKIN 10x85	63	10	24	32.0	85	31	42	59	50.5	M8	4.0
SRKIN 12x90	63	12	24	32.0	90	36	47	64	50.5	M10	5.0
SRKIN 14x90	63	14	27	34.0	90	36	47	64	44.5	M10	5.0
SRKIN 16x95	63	16	27	34.0	95	39	50	69	44.5	M12	6.0
SRKIN 18x95	63	18	33	42.0	95	39	50	69	57.0	M12	6.0
SRKIN 20x100	63	20	33	42.0	100	41	52	74	57.0	M16	8.0
SRKIN 25x115	63	25	44	52.7	115	47	58	89	55.0	M16	8.0
SRKIN 32x120	63	32	44	52.7	120	47	58	94	55.0	M16	8.0

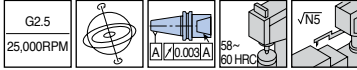
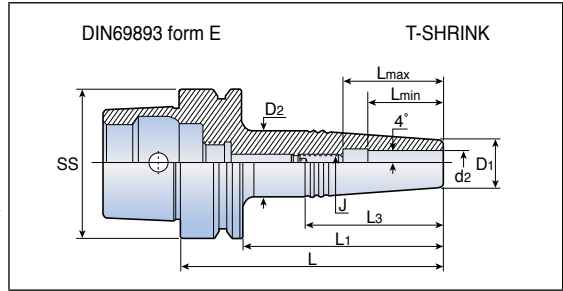


• ⁽¹⁾ The driving pins can be removed to turn the toolholder into a standard HSK F 63 type

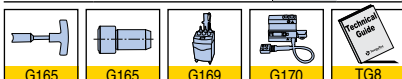


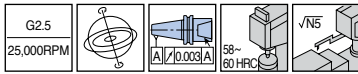
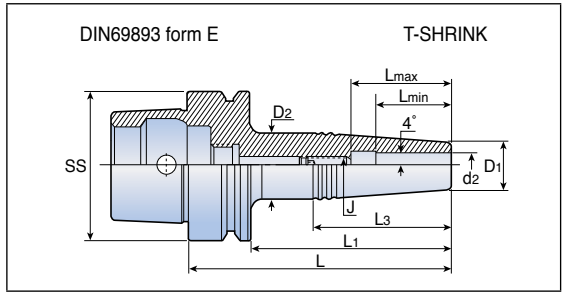
Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
HSK A 63 SRK 3x50	63	3	10	17	76	10	16	50	-	M6	3.0
SRK 3x85	63	3	10	21	111	10	16	85	79	M6	3.0
SRK 4x50	63	4	10	17	76	12	18	50	-	M6	3.0
SRK 4x85	63	4	10	21	111	12	18	85	79	M6	3.0
SRK 5x50	63	5	10	17	76	15	21	50	-	M6	3.0
SRK 5x85	63	5	10	21	111	15	21	85	79	M6	3.0
SRK 6x50	63	6	11	18	76	18	24	50	-	M8	4.0
SRK 6x85	63	6	11	22	111	18	24	85	79	M8	4.0
SRK 8x50	63	8	14	20	76	25	36	50	43	M6	3.0
SRK 8x85	63	8	14	23	111	25	36	85	64	M6	3.0
SRK 10x50	63	10	16	23	76	30	41	50	-	M8	4.0
SRK 10x85	63	10	16	26	111	30	41	85	72	M8	4.0
SRK 12x50	63	12	20	27	76	32	43	50	-	M8	4.0
SRK 12x85	63	12	20	30	111	32	43	85	72	M8	4.0





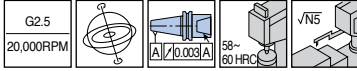
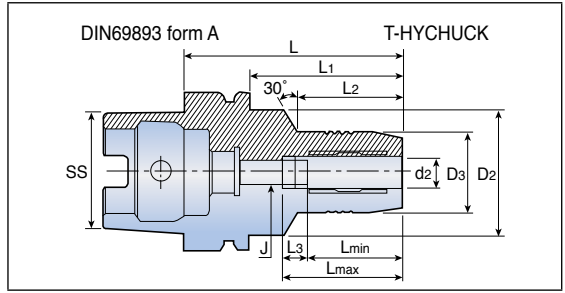
Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
HSK E 32 SRK 3x45	32	3	10	13	65	10	16	45	30.0	M4	2.0
SRK 4x45	32	4	10	15	65	12	18	45	35.0	M4	2.0
SRK 5x45	32	5	10	15	65	15	25	45	35.0	M4	2.0
SRK 6x45	32	6	11	16	65	18	28	45	35.0	M4	2.0
SRK 8x45	32	8	14	20	65	25	35	45	42.0	M4	2.0
SRK 10x45	32	12	16	22	65	30	40	45	42.0	M4	2.0
SRK 12x45	32	12	20	25	65	32	40	45	35.6	M4	2.0
HSK E 40 SRK 3x45	40	3	10	13	65	10	16	45	30.0	M5	2.5
SRK 3x80	40	3	10	19	100	10	16	80	64.0	M5	2.5
SRK 4x45	40	4	10	15	65	12	18	45	35.0	M5	2.5
SRK 4x80	40	4	10	19	100	12	18	80	64.0	M5	2.5
SRK 5x45	40	5	10	15	65	15	25	45	35.0	M4	2.0
SRK 5x80	40	5	10	19	100	15	25	80	64.0	M4	2.0
SRK 6x45	40	6	11	16	65	18	28	45	35.0	M5	2.5
SRK 6x80	40	6	11	20	100	18	28	80	64.0	M5	2.5
SRK 8x45	40	8	14	20	65	25	35	45	42.0	M5	2.5
SRK 8x80	40	8	14	23	100	25	35	80	64.0	M6	3.0
SRK 10x45	40	10	16	22	65	30	40	45	42.0	M5	2.5
SRK 10x80	40	10	16	24	100	30	40	80	60.0	M8	4.0
SRK 12x45	40	12	20	26	65	32	42	45	42.0	M5	2.5
SRK 12x80	40	12	20	28	100	32	42	80	56.0	M10	5.0
HSK E 50 SRK 3x45	50	3	10	15	71	10	16	45	36.0	M5	2.5
SRK 3x80	50	3	10	19	106	10	16	80	64.0	M5	2.5
SRK 4x45	50	4	10	15	71	12	18	45	36.0	M5	2.5
SRK 4x80	50	4	10	19	106	12	18	80	64.0	M5	2.5
SRK 5x45	50	5	10	15	71	15	21	45	36.0	M6	3.0
SRK 5x80	50	5	10	15	106	15	21	80	64.0	M6	3.0
SRK 6x45	50	6	11	16	71	18	28	45	36.0	M5	2.5
SRK 6x80	50	6	11	20	106	18	28	80	64.0	M5	2.5
SRK 8x45	50	8	14	20	71	25	35	45	43.0	M6	3.0
SRK 8x80	50	8	14	23	106	25	35	80	64.0	M6	3.0
SRK 10x45	50	10	16	22	71	30	37	45	42.0	M6	3.0
SRK 10x80	50	10	16	24	106	30	40	80	60.0	M8	4.0
SRK 12x45	50	12	20	26	71	32	39	45	42.0	M6	3.0
SRK 12x80	50	12	20	28	106	32	42	80	57.0	M10	5.0



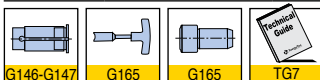


Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
HSK E 63 SRK 3x50	63	3	10	17	76	10	16	50	48	M6	3.0
SRK 3x80	63	3	10	19	106	10	16	80	64	M6	3.0
SRK 4x50	63	4	10	17	76	12	18	50	48	M6	3.0
SRK 4x80	63	4	10	19	106	12	18	80	64	M6	3.0
SRK 5x50	63	5	10	15	71	15	21	50	47	M6	3.0
SRK 5x80	63	5	10	19	106	15	21	80	64	M6	3.0
SRK 6x50	63	6	11	18	76	18	24	50	48	M8	4.0
SRK 6x80	63	6	11	20	106	18	24	80	64	M8	4.0
SRK 8x50	63	8	14	21	76	25	35	50	48	M6	3.0
SRK 8x80	63	8	14	23	106	25	35	80	64	M6	3.0
SRK 10x50	63	10	16	23	76	30	40	50	48	M8	4.0
SRK 10x80	63	10	16	24	106	30	40	80	60	M8	4.0
SRK 12x50	63	12	20	27	76	32	42	50	48	M8	4.0
SRK 12x80	63	12	20	28	106	32	42	80	57	M10	5.0
SRK 12x90	63	12	20	28	116	32	43	90	57	M8	4.0

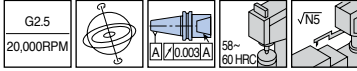
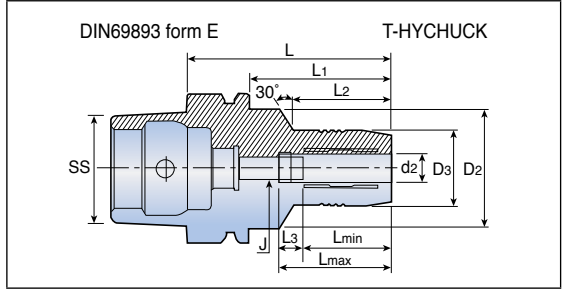




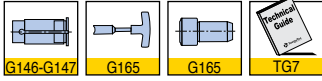
Designation	Dimension (mm)											
	SS	d2	D2	D3	L	Lmin	Lmax	L1	L2	L3	J	
HSK A 40	THC 6-70	40	6	34	28	70	27.5	37.5	50	28	10	M5
	THC 8-70	40	8	34	30	70	27.5	37.5	50	28	10	M6
	THC 10-75	40	10	34	32	75	32.5	42.5	55	34	10	M6
	THC 12-85	40	12	34	34	85	37.5	47.5	60	60	10	M6
HSK A 50	THC 6-70	50	6	40	28	70	27.5	37.5	44	28	10	M5
	THC 8-70	50	8	40	30	70	27.5	37.5	44	28	10	M6
	THC 10-75	50	10	40	32	75	32.5	42.5	49	34	10	M8x1
	THC 12-80	50	12	40	34	85	37.5	47.5	59	39	10	M10x1
	THC 16-90	50	16	53	38	90	42.5	52.5	64	30	10	M10x1
	THC 20-90	50	20	60	43	90	42.5	52.5	64	29	10	M10x1
	THC 25-120	50	25	75	48	120	47.5	57.5	71	35	10	M12x1
HSK A 63	THC 6-70	63	6	50	28	70	27.5	37.5	44	24	10	M5
	THC 8-70	63	8	50	30	70	27.5	37.5	44	24	10	M6
	THC 10-80	63	10	50	32	80	32.5	42.5	54	35	10	M8x1
	THC 12-85	63	12	50	34	85	37.5	47.5	59	40	10	M10x1
	THC 14-85	63	14	50	36	85	37.5	47.5	59	40	10	M10x1
	THC 16-90	63	16	50	38	90	42.5	52.5	64	46	10	M10x1
	THC 20-90	63	20	50	43	90	42.5	52.5	64	48	10	M10x1
	THC 25-120	63	25	63	57	120	51.0	61.0	94	59	10	M16x1
	THC 32-125	63	32	75	63	125	55.0	65.0	99	63	10	M16x1
HSK A 100	THC 6-80⁽¹⁾	100	6	50	28	80	27.5	37.5	46	29	10	M5
	THC 8-75⁽¹⁾	100	8	50	30	75	27.5	37.5	46	26	10	M6
	THC 10-90⁽¹⁾	100	10	50	32	90	32.5	42.5	61	42	10	M8x1
	THC 12-95⁽¹⁾	100	12	50	34	95	37.5	47.5	66	47	10	M10x1
	THC 16-100⁽¹⁾	100	16	50	38	100	42.5	52.5	71	53	10	M10x1
	THC 18-100⁽¹⁾	100	18	50	41	100	42.5	52.5	71	53	10	M10x1
	THC 20-105⁽¹⁾	100	20	50	43	105	42.5	52.5	76	59	10	M10x1
	THC 25-110⁽¹⁾	100	25	63	57	110	51.0	61.0	81	62	10	M16x1
	THC 32-110⁽¹⁾	100	32	75	63	110	55.0	65.0	81	62	10	M16x1



• ⁽¹⁾ Balance to G2.5 at 15,000RPM

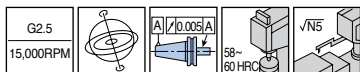
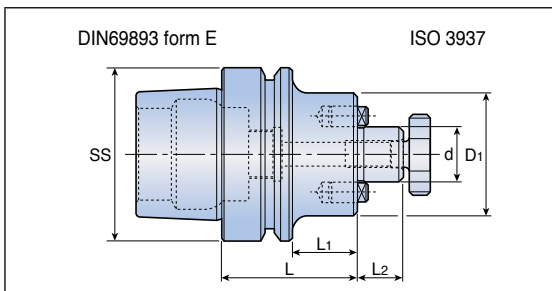


Designation	Dimension (mm)										
	SS	d2	D2	D3	L	Lmin	Lmax	L1	L2	L3	J
HSK E 40 THC 6-70	40	6	34	28	70	27.5	37.5	50	28	10	M5
THC 8-70	40	8	34	30	70	27.5	37.5	50	28	10	M6
THC 10-75	40	10	34	32	75	32.5	42.5	55	34	10	M6
THC 12-80	40	12	34	34	80	37.5	47.5	60	-	10	M6
HSK E 50 THC 6-70	50	6	40	28	70	27.5	37.5	44	28	10	M5
THC 8-70	50	8	40	30	70	27.5	37.5	44	28	10	M6
THC 10-75	50	10	40	32	75	32.5	42.5	49	34	10	M8x1
THC 12-85	50	12	40	34	85	37.5	47.5	59	44	10	M10x1
THC 16-90	50	16	53	38	90	42.5	52.5	64	30	10	M10x1
THC 20-90	50	20	60	43	90	42.5	52.5	64	29	10	M10x1

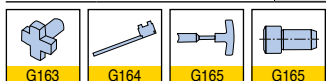


HSK E-SEM

Face mill arbor

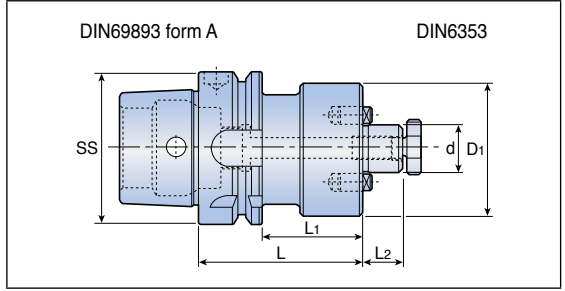
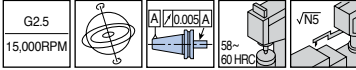


Designation	Dimension (mm)					
	SS	d	D1	L	L1	L2
HSK E 40 SEM 16x50	40	16	38	50	30	17
SEM 22x50	40	22	47	50	30	19
HSK E 50 SEM 22x60	50	22	47	60	34	19
HSK E 63 SEM 16x50	63	16	38	50	24	17
SEM 22x50	63	22	47	50	24	19

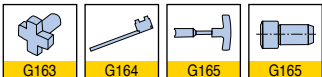


HSK A-SEM

Face mill arbor



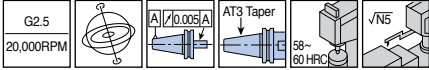
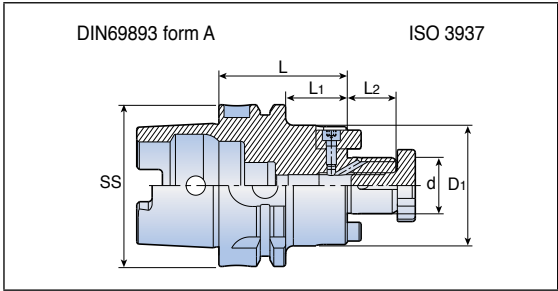
Designation	Dimension (mm)					
	SS	d	D1	L	L1	L2
HSK A 40 SEM 22	40	22	47	50	30	19
SEM 27	40	27	58	55	35	21
HSK A 50 SEM 16x50	50	16	38	50	24	17
SEM 22x60	50	22	47	60	34	19
SEM 27x60	50	27	58	60	34	21
HSK A 63 SEM 16x50	63	16	38	50	24	17
SEM 22x50	63	22	47	50	24	19
SEM 27x60	63	27	58	60	34	21
SEM 32x60	63	32	66	60	34	24
SEM 40x60	63	40	82	60	24	27
HSK A 100 SEM 22x50⁽¹⁾	100	22	47	50	21	19
SEM 27x50⁽¹⁾	100	27	58	50	21	21
SEM 32x50⁽¹⁾	100	32	66	50	21	24
SEM 40x60⁽¹⁾	100	40	82	60	31	27
SEM 50x70⁽¹⁾	100	50	95	70	41	30



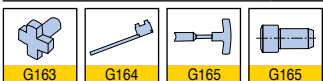
- Wrench not included
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

HSK A-SEM-C

Face mill arbor with internal coolant holes



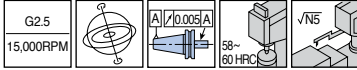
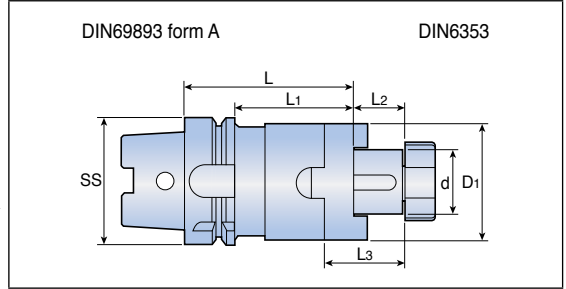
Designation	Dimension (mm)					
	SS	d	D1	L	L1	L2
HSK A 63 SEM 16x50 C	63	16	38	50	24	17
SEM 16x100 C	63	16	38	100	74	17
SEM 22x50 C	63	22	47	50	24	19
SEM 22x100 C	63	22	47	100	74	19
SEM 27x60 C	63	27	58	60	34	21
SEM 27x100 C	63	27	58	100	74	21
SEM 32x60 C	63	32	66	60	34	24
HSK A 100 SEM 16x50 C ⁽¹⁾	100	16	38	50	21	17
SEM 16x100 C ⁽¹⁾	100	16	38	100	71	17
SEM 22x50 C ⁽¹⁾	100	22	47	50	21	19
SEM 22x100 C ⁽¹⁾	100	22	47	100	71	19
SEM 27x50 C ⁽¹⁾	100	27	58	50	21	21
SEM 27x100 C ⁽¹⁾	100	27	58	100	71	21
SEM 32x50 C ⁽¹⁾	100	32	66	50	21	24
SEM 32x100 C ⁽¹⁾	100	32	66	100	71	24



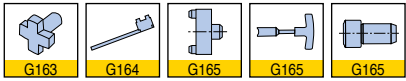
• ⁽¹⁾ Balance to G2.5 at 15,000RPM

HSK A-SEMC

Combi shell end mill arbor



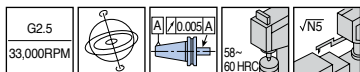
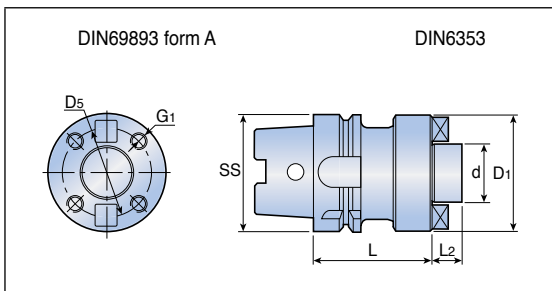
Designation	Dimension (mm)							
	SS	d	D1	L	L1	L2	L3	
HSK A 50 SEMC 16x50	50	16	32	50	24	17	27	
	50	27	48	65	39	21	33	
HSK A 63	SEMC 16x60	63	16	32	60	34	17	21
	SEMC 22x60	63	22	40	60	34	19	31
	SEMC 27x60	63	27	48	60	34	21	33
	SEMC 32x60	63	32	58	60	34	24	38
	SEMC 40x70	63	40	70	70	44	27	41
	HSK A 100	SEMC 16x60	100	16	32	60	31	17
SEMC 22x60	100	22	40	60	31	19	31	
SEMC 27x60	100	27	48	60	31	21	33	
SEMC 32x60	100	32	58	60	31	24	38	
SEMC 40x70	100	40	70	70	41	27	41	
SEMC 50x80	100	50	90	80	51	30	46	



• Wrench not included

HSK A FM

Face mill arbor

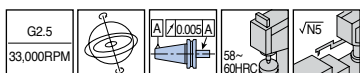
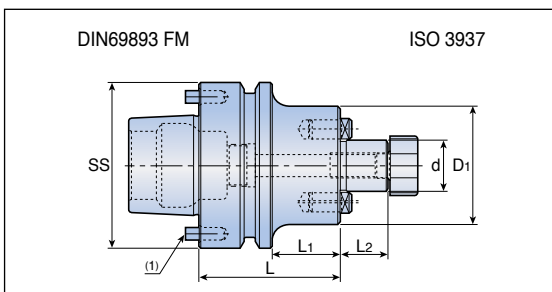


Designation	Dimension (mm)						
	SS	d	D1	D5	L	L2	G1
HSK A 100 FM 60x70	100	60	128	101.6	70	40	M16

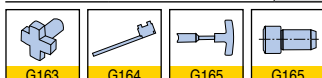
- Wrench not included

HSK FM-SEM

Face mill arbor - HSK high torque



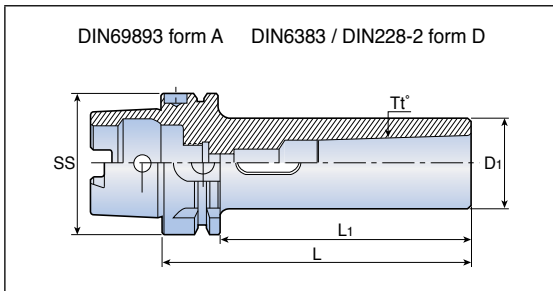
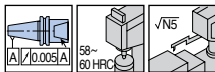
Designation	Dimension (mm)					
	SS	d	D1	L	L1	L2
HSK FM 63 SEM 22x60	63	22	47	60	34	19
SEM 27x60	63	27	58	60	34	21
SEM 32x60	63	32	66	60	34	24



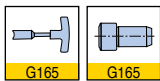
- ⁽¹⁾ The driving pins can be removed to turn the toolholder into a standard HSK F 63 type

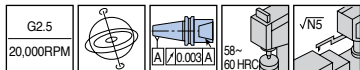
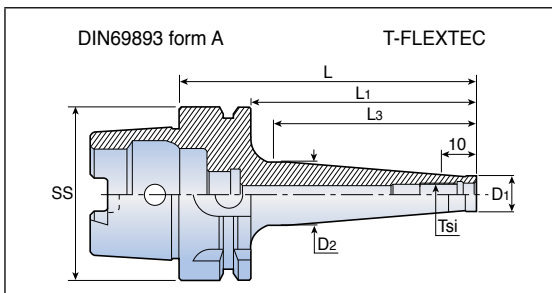
HSK A-MT

Morse taper holder

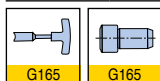


Designation	Dimension (mm)					
	SS	Tt°	D1	L	L1	
HSK A 50 MT 1x100	50	MT1	25	100	74	
	50	MT2	32	120	94	
	50	MT3	40	140	114	
HSK A 63 MT 1x110	63	MT1	25	110	84	
	63	MT2	32	120	94	
	63	MT3	40	140	114	
	63	MT4	48	160	134	
HSK A 100 MT 1x110	100	MT1	25	110	81	
	100	MT2	32	120	91	
	100	MT3	40	150	121	
	100	MT4	48	170	141	
	100	MT5	63	200	171	

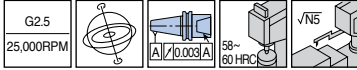
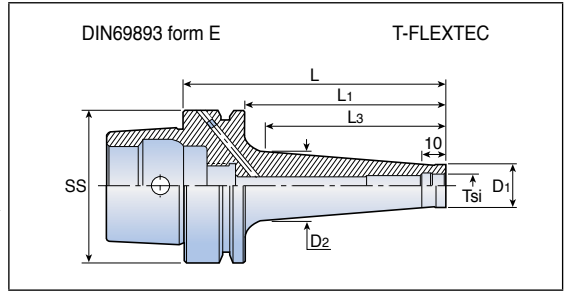




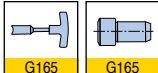
Designation	Dimension (mm)						
	SS	Tsi	D1	D2	L	L1	L3
HSK A 63							
ODP 6x59	63	M6	9.8	11.5	59	33	25
ODP 6x109	63	M6	9.8	23.0	109	83	75
ODP 8x59	63	M8	13.1	15.0	59	33	25
ODP 8x109	63	M8	13.1	23.0	109	83	75
ODP 10x59	63	M10	18.0	20.0	59	33	25
ODP 10x109	63	M10	18.0	28.0	109	83	75
ODP 12x59	63	M12	21.0	24.0	59	33	25
ODP 12x109	63	M12	21.0	31.0	109	83	75
ODP 16x59	63	M16	29.0	34.0	59	33	25
ODP 16x109	63	M16	29.0	34.0	109	83	75
HSK A 100							
ODP 12x87 ⁽¹⁾	100	M12	23.0	30.0	87	58	50
ODP 12x137 ⁽¹⁾	100	M12	23.0	30.0	137	108	100
ODP 12x187 ⁽¹⁾	100	M12	23.0	40.0	187	158	150
ODP 12x237 ⁽¹⁾	100	M12	23.0	46.0	237	208	200
ODP 16x87 ⁽¹⁾	100	M16	29.0	31.5	87	58	50
ODP 16x137 ⁽¹⁾	100	M16	29.0	41.5	137	108	100
ODP 16x187 ⁽¹⁾	100	M16	29.0	55.0	187	158	150
ODP 16x237 ⁽¹⁾	100	M16	29.0	55.0	237	208	200



• ⁽¹⁾ Balance to G6.3 at 12,000RPM

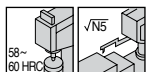
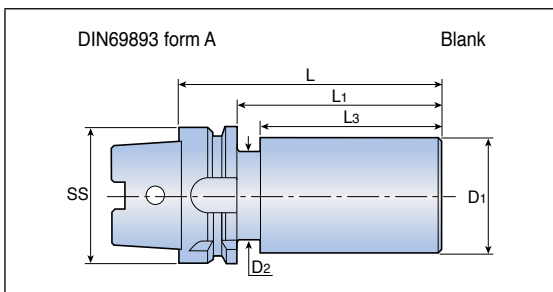


Designation	Dimension (mm)							
	SS	Tsi	D1	D2	L	L1	L3	
HSK E 40 ODP 10x53	40	M10	18	20	53	33	25	
ODP 10x103	40	M10	18	28	103	83	75	
ODP 12x53	40	M12	21	24	53	33	25	
ODP 12x103	40	M12	21	31	103	83	75	
HSK E 50 ODP 10x59	50	M10	18	20	59	33	25	
ODP 10x109	50	M10	18	28	109	83	75	
ODP 12x59	50	M12	21	24	59	33	25	
ODP 12x109	50	M12	21	31	109	83	75	
ODP 16x59	50	M16	29	34	59	33	25	
ODP 16x109	50	M16	29	34	109	83	75	
HSK E 63 ODP 10x59	63	M10	18	20	59	33	25	
ODP 10x109	63	M10	18	28	109	83	75	
ODP 12x59	63	M12	21	24	59	33	25	
ODP 12x109	63	M12	21	31	109	83	75	
ODP 16x59	63	M16	29	34	59	33	25	
ODP 16x109	63	M16	29	34	109	83	75	

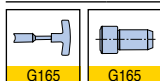


HSK A-B16MN

HSK blank



Designation	Dimension (mm)					
	SS	D1	D2	L	L1	L3
HSK A 50 B16MN 100	50	53	41.8	100	74	58.0
	B16MN 200	50	53	41.8	200	174
HSK A 63 B16MN 100	63	63	52.8	100	74	55.5
	B16MN 200	63	63	52.8	200	174
HSK A 100 B16MN 100	100	102	85.0	100	71	54.8
	B16MN 200	100	102	85.0	200	171



- Material: Case hardened alloy steel
- Shank hardness 58 HRC minimum
- Nose hardness 35-37 HRC

Contents

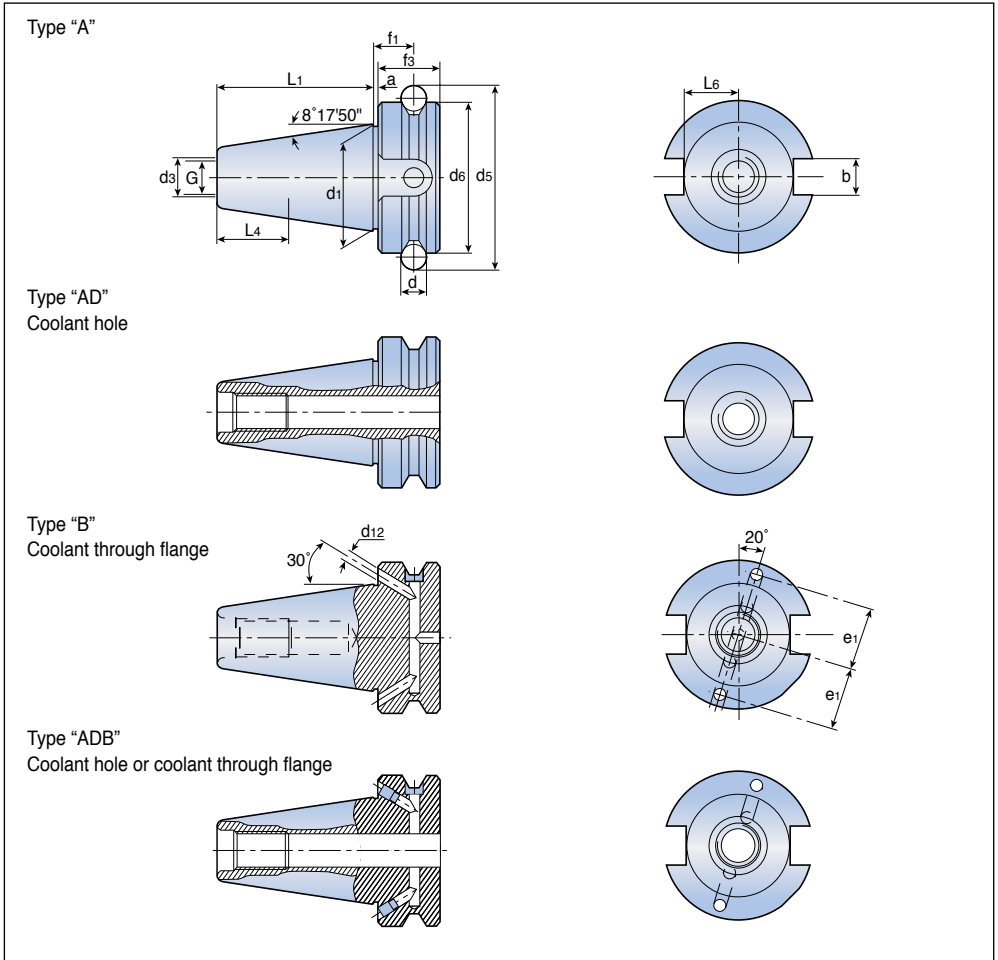
BT MAS



Contents

BT MAS 403 Form A/AD/B/ADB

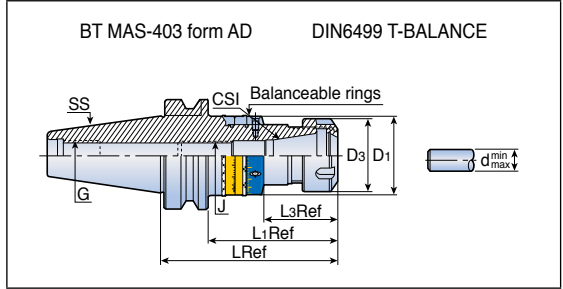
Standard toolholder



Shank	a ±0.1	b (H12)	d	d1	G	d3 (H8)	d5	d6 (H8)
30	2	16.1	8	31.75	M12	12.5	56.144	46
40	2	16.1	10	44.45	M16	17.0	75.679	63
50	3	25.7	15	69.85	M24	25.0	119.020	100

Shank	f1 ±0.1	f3	L1 ±0.2	L4min	L6 -0.2	e1 ±0.1	d12	Taper AT3
30	13.6	20	48.4	24	16.3	21	4	0.002
40	16.6	25	65.4	30	22.6	27	4	0.003
50	23.2	35	101.8	45	35.4	42	6	0.004

* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.



G2.5 ⁽¹⁾ 20,000RPM			AT3 Taper	58-60 HRC	
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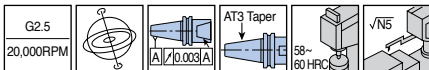
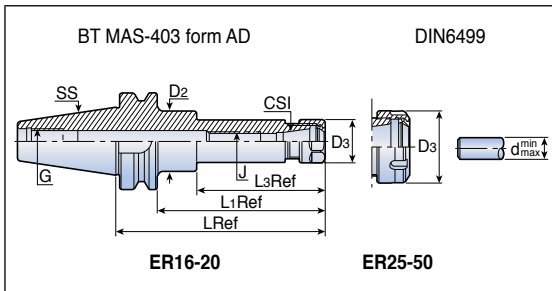
Designation	Dimension (mm)											
	SS	CSI	dmin	dmax	D1	D3	L	L1	L3	G	J	
BT40 ER 16x100 BIN	40	ER16	0.5	10.0	44	28	100	73	44.0	M16	M10	
ER 16x150 BIN	40	ER16	0.5	10.0	44	28	150	123	78.7	M16	M10	
ER 20x100 BIN	40	ER20	1.0	13.0	44	34	100	73	44.6	M16	M12	
ER 20x150 BIN	40	ER20	1.0	13.0	44	34	150	123	79.6	M16	M12	
ER 25x100 BIN	40	ER25	1.0	16.0	44	42	100	73	43.0	M16	M16	
ER 25x150 BIN	40	ER25	1.0	16.0	44	42	150	123	79.0	M16	M16	
ER 32x100 BIN	40	ER32	2.0	20.0	60	50	100	73	44.0	M16	M22x1.5	
ER 32x150 BIN	40	ER32	2.0	20.0	60	50	150	123	94.0	M16	M22x1.5	
ER 40x100 BIN	40	ER40	3.0	26.0	60	63	100	73	44.0	M16	M28x1.5	

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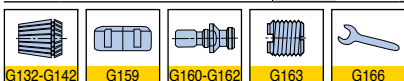
• ⁽¹⁾ Preset balanced value

BT-ER

ER collet chuck



Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	G	J
BT30 ER 16x70 ⁽¹⁾	30	ER16	0.5	10.0	-	28	70	48	-	M12	M10
ER 16x100 ⁽¹⁾	30	ER16	0.5	10.0	-	28	100	73	-	M12	M10
ER 20x70 ⁽¹⁾	30	ER20	1.0	13.0	-	34	70	48	-	M12	M12
ER 25x60 ⁽¹⁾	30	ER25	1.0	16.0	-	42	60	38	-	M12	M16
ER 32x60 ⁽¹⁾	30	ER32	2.0	20.0	-	50	60	38	-	M12	M18x1.5
BT40 ER 16x70	40	ER16	0.5	10.0	-	28	70	43	-	M16	M12
ER 16x100	40	ER16	0.5	10.0	-	28	100	73	-	M16	M12
ER 16x150 ⁽¹⁾	40	ER16	0.5	10.0	40	28	150	123	85	M16	M12
ER 16x200 ⁽¹⁾	40	ER16	0.5	10.0	40	28	200	173	85	M16	M10
ER 20x70	40	ER20	1.0	13.0	-	34	70	43	-	M16	M12
ER 20x100	40	ER20	1.0	13.0	-	34	100	73	-	M16	M12
ER 20x120	40	ER20	1.0	13.0	-	34	120	93	-	M16	M12
ER 20x150 ⁽¹⁾	40	ER20	1.0	13.0	-	34	150	123	-	M16	M12
ER 25x60	40	ER25	1.0	13.0	-	42	60	33	-	M16	M16
ER 25x100	40	ER25	1.0	16.0	-	42	100	73	-	M16	M16
ER 25x150 ⁽¹⁾	40	ER25	1.0	16.0	-	42	150	123	-	M16	M16
ER 32x60	40	ER32	2.0	20.0	-	50	60	33	-	M16	M22x1.5
ER 32x100	40	ER32	2.0	20.0	-	50	100	73	-	M16	M22x1.5
ER 32x150 ⁽¹⁾	40	ER32	2.0	20.0	-	50	150	123	-	M16	M22x1.5
ER 32x200 ⁽¹⁾	40	ER32	2.0	20.0	-	50	200	162	-	M17	M22x1.6
ER 40x80	40	ER40	3.0	26.0	-	63	80	53	-	M16	M28x1.5
ER 40x100	40	ER40	3.0	26.0	-	63	100	73	-	M16	M28x1.5
ER 40x150 ⁽¹⁾	40	ER40	3.0	26.0	-	63	150	123	-	M16	M28x1.5
ER 50x90	40	ER50	10.0	34.0	-	78	90	63	-	M16	M28x1.5
BT50 ER 16x100 ⁽¹⁾	50	ER16	0.5	10.0	-	28	100	62	-	M24	M12
ER 16x125 ⁽¹⁾	50	ER16	0.5	10.0	-	28	125	87	-	M24	M12
ER 16x150 ⁽¹⁾	50	ER16	0.5	10.0	-	28	150	112	-	M24	M12
ER 16x200 ⁽¹⁾	50	ER16	0.5	10.0	40	28	200	162	85	M24	M10
ER 20x100 ⁽¹⁾	50	ER20	1.0	10.0	-	34	100	62	-	M24	M12
ER 20x125 ⁽¹⁾	50	ER20	1.0	13.0	-	34	125	87	-	M24	M12
ER 20x150 ⁽¹⁾	50	ER20	1.0	13.0	-	34	150	112	-	M24	M12
ER 20x200 ⁽¹⁾	50	ER20	1.0	13.0	50	34	200	162	85	M24	M12

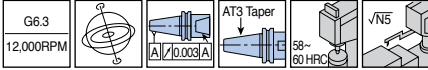
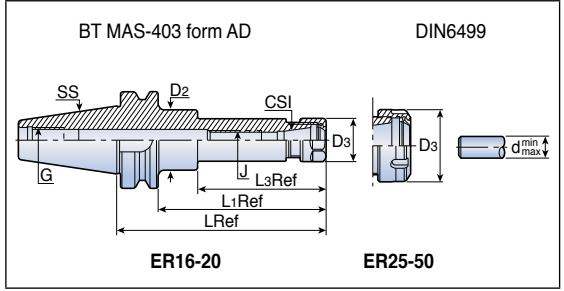


- Add B for coolant through flange
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

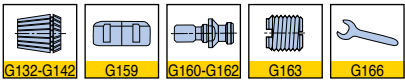
Contents

BT-ER

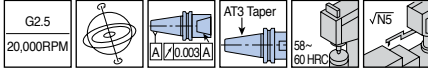
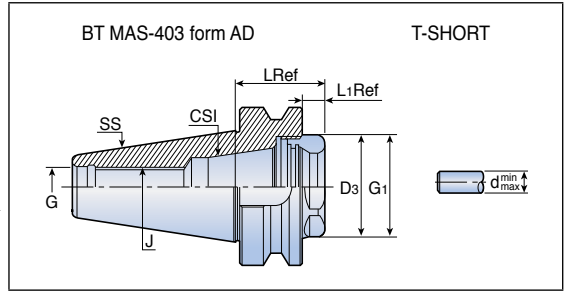
ER collet chuck



Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L3	G	J
BT50 ER 25x100	50	ER25	1.0	16.0	-	42	100	62	-	M24	M16
ER 25x150	50	ER25	1.0	16.0	-	42	150	112	-	M24	M16
ER 25x200	50	ER25	1.0	16.0	55	42	200	162	87	M24	M16
ER 32x100	50	ER32	2.0	20.0	-	50	100	62	-	M24	M22x1.5
ER 32x125	50	ER32	2.0	20.0	-	34	125	87	-	M24	M12
ER 32x150	50	ER32	2.0	20.0	-	50	150	112	-	M24	M22x1.5
ER 32x200	50	ER32	2.0	20.0	63	50	200	162	88	M24	M22x1.5
ER 40x100	50	ER40	3.0	26.0	-	63	100	62	-	M24	M28x1.5
ER 40x150	50	ER40	3.0	26.0	-	63	150	112	-	M24	M28x1.5
ER 40x200	50	ER40	3.0	26.0	-	63	200	162	-	M24	M28x1.5
ER 50x100	50	ER50	3.0	26.0	-	78	100	62	-	M24	M36x1.5
ER 50x150	50	ER50	10.0	34.0	-	78	150	112	-	M24	M36x1.5



• Add B for coolant through flange

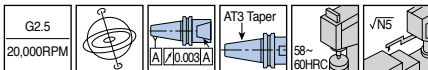
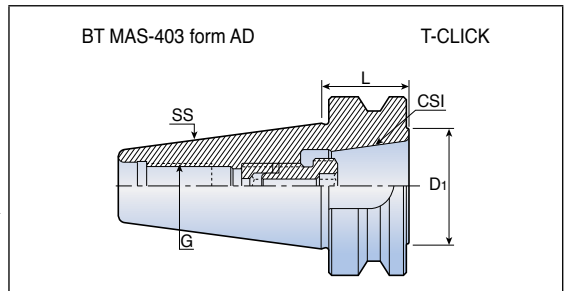


Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D3	L	L1	G	G1	J
BT30 ER 20 SHORT	30	ER20	1.0	13.0	25	27.2	5.2	M12	M25x1.5	M12
BT40 ER 32 SHORT	40	ER32	2.0	20.0	40	36.5	9.5	M16	M40x1.5	M16
ER 40 SHORT	40	ER40	3.0	26.0	50	46.5	9.5	M16	M50x1.5	M16
BT50 ER 32 SHORT	50	ER32	2.0	20.0	40	47.5	9.5	M24	M40x1.5	M22x1.5
ER 40 SHORT	50	ER40	3.0	26.0	50	47.5	9.5	M24	M50x1.5	M28x1.5

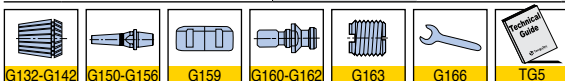
• Add B for coolant through flange

BT-ER-CLICK-IN

T-CLICK



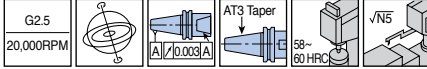
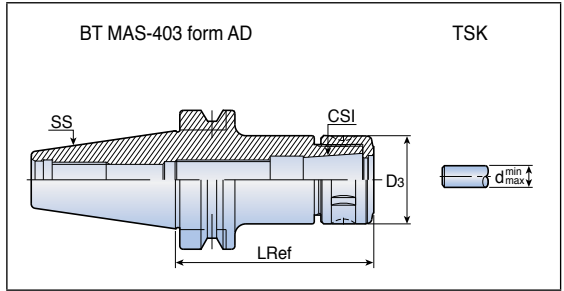
Designation	Dimension (mm)				
	SS	CSI	D1	L	G
BT40 ER32 CLICK-IN	40	SRF32	41	28	M16
BT50 ER32 CLICK-IN	50	SRF32	41	29	M24



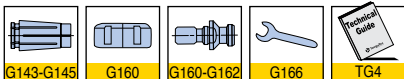
• Tightening torque: 24kg x m

BT-TSK

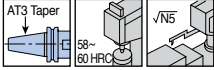
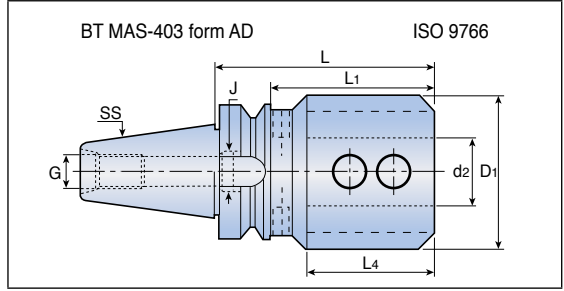
TSK collet chuck



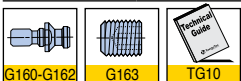
Designation	Dimension (mm)					
	SS	CSI	dmin	dmax	D3	L
BT30 TSK 6-90⁽¹⁾	30	TSK6	1.0	6.0	19.5	90
TSK 10-90⁽¹⁾	30	TSK10	2.0	10.0	27.5	90
BT40 TSK 6-90	40	TSK6	1.0	6.0	19.5	90
TSK 6-120	40	TSK6	1.0	6.0	19.5	120
TSK 10-90	40	TSK10	2.0	10.0	27.5	90
TSK 10-120	40	TSK10	2.0	10.0	27.5	120
TSK 16-90	40	TSK16	3.0	16.0	40.0	90
TSK 16-120	40	TSK16	3.0	16.0	40.0	120
TSK 25-90	40	TSK25	8.0	25.4	55.0	90
TSK 25-120	40	TSK25	8.0	25.4	55.0	120
BT50 TSK 6-120⁽¹⁾	50	TSK6	1.0	6.0	19.5	120
TSK 6-165⁽¹⁾	50	TSK6	1.0	6.0	19.5	165
TSK 6-195⁽¹⁾	50	TSK6	1.0	6.0	19.5	195
TSK 10-120⁽¹⁾	50	TSK10	2.0	10.0	27.5	120
TSK 10-165⁽¹⁾	50	TSK10	2.0	10.0	27.5	165
TSK 10-195⁽¹⁾	50	TSK10	2.0	10.0	27.5	195
TSK 16-120⁽¹⁾	50	TSK16	3.0	16.0	40.0	120
TSK 16-165⁽¹⁾	50	TSK16	3.0	16.0	40.0	165
TSK 16-195⁽¹⁾	50	TSK16	3.0	16.0	40.0	195
TSK 25-120⁽¹⁾	50	TSK25	8.0	25.4	55.0	120
TSK 25-165⁽¹⁾	50	TSK25	8.0	25.4	55.0	165
TSK 25-195⁽¹⁾	50	TSK25	8.0	25.4	55.0	195



- Add B for coolant through flange
- ⁽¹⁾ Balance to G6.3 at 20,000RPM



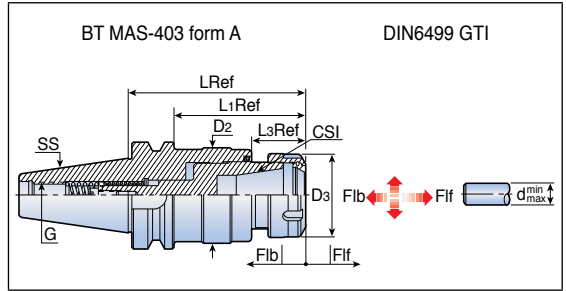
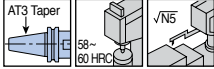
Designation	Dimension (mm)							
	SS	d ₂	D ₁	L	L ₁	L ₄	G	J
FITBORE BT40 EM16	40	16	72	123.5	96.5	71	M16	M10
	EM20	40	20	72	123.5	96.5	M16	M10
	EM25	40	25	72	123.5	96.5	M16	M10
	EM32	40	32	72	123.5	96.5	M16	M10
	EM40	40	40	72	123.5	96.5	M16	M10
FITBORE BT50	EM20	50	20	72	134.5	96.5	M24	M10
	EM25	50	25	72	134.5	96.5	M24	M10
	EM32	50	32	72	134.5	96.5	M24	M10
	EM40	50	40	72	134.5	96.5	M24	M10



• Add B for coolant through flange

GTI BT-ER

GTI tap attachment

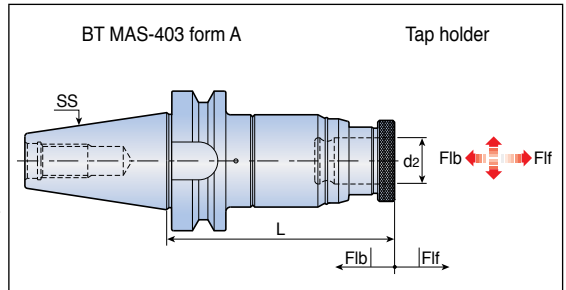
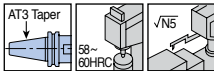


Designation	Dimension (mm)													
	SS	CSI	Tapmin	Tapmax	dmin	dmax	D2	D3	L	L1	L3	Flf	Flb	G
GTI BT40 ER16	40	ER16	M3	M10	0.5	10.0	29.5	28	84.2	52.7	24.6	8	3	M16
ER32	40	ER32	M6	M20	2.0	20.0	56.5	50	106.8	79.8	33.0	9	4	M16
ER40	40	ER40	M6	M28	3.0	26.0	56.5	63	124.8	97.8	51.0	9	4	M16
GTI BT50 ER16	50	ER16	M3	M10	0.5	10.0	29.5	28	106.8	68.8	24.6	8	3	M24
ER32	50	ER32	M6	M20	2.0	20.0	56.5	50	114.2	77.2	33.0	9	4	M24
ER40	50	ER40	M6	M28	3.0	26.0	56.5	63	133.2	95.2	51.0	9	4	M24

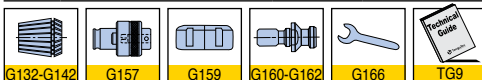
- No coolant should be induced through the tap chuck as it will cause malfunctioning of the mechanism

BT-TC

Tap holder

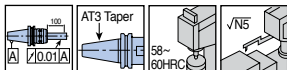
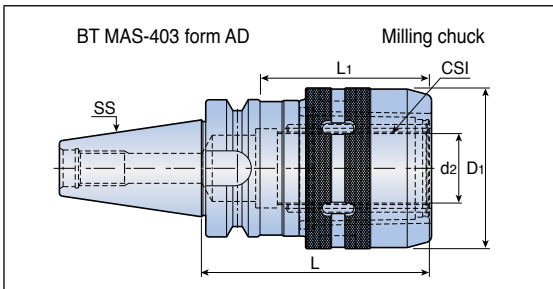


Designation	Dimension (mm)							
	SS	Tapmin	Tapmax	d2	L	Flb	Flf	Tap adapter
BT30 TC 12-105	30	M3	M12	19	105	6.5	12	TA1
BT40 TC 12-95	40	M3	M12	19	95	6.5	12	TA1
TC 12-110	40	M3	M12	19	110	6.5	12	TA1
TC 22-127	40	M6	M24	31	127	14.5	13	TA2
BT50 TC 12-125	50	M6	M12	19	125	6.5	12	TA1
TC 22-142	50	M6	M24	31	142	14.5	13	TA2
TC 38-195	50	M18	M38	48	195	20.0	20	TA3

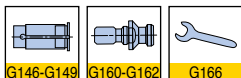


BT-TMC

Milling chuck



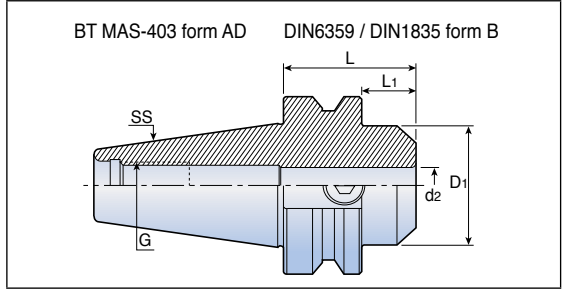
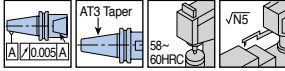
Designation	Dimension (mm)					
	SS	CSI	d2	D1	L	L1
BT30 TMC 20-75	30	20	20	54.0	75	60
TMC 25-80	30	25	25	62.5	80	70
BT40 TMC 20-80	40	20	20	54.0	80	60
TMC 20-105	40	20	20	54.0	105	60
TMC 25-90	40	25	25	62.5	90	70
TMC 25-105	40	25	25	62.5	105	70
TMC 32-90	40	32	32	74.0	90	80
TMC 32-105	40	32	32	74.0	105	80
TMC 32-135	40	32	32	74.0	135	80
BT50 TMC 20-105	50	20	20	54.0	105	60
TMC 20-135	50	20	20	54.0	135	60
TMC 20-165	50	20	20	54.0	165	60
TMC 25-105	50	25	25	62.5	105	70
TMC 25-135	50	25	25	62.5	135	70
TMC 25-165	50	25	25	62.5	165	70
TMC 32-105	50	32	32	74.0	105	80
TMC 32-115	50	32	32	74.0	115	80
TMC 32-135	50	32	32	74.0	135	80
TMC 32-165	50	32	32	74.0	165	80
TMC 42-115	50	42	42	92.0	115	90
TMC 42-135	50	42	42	92.0	135	90
TMC 42-165	50	42	42	92.0	165	90



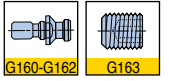
• Spanner not included

BT-EM

Short end mill holder



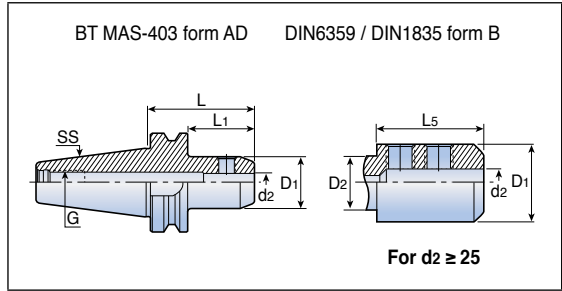
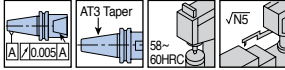
Designation	Dimension (mm)					
	SS	d ₂	D ₁	L	L ₁	G
BT40 EM 10x45	40	10	35	45	18	M16
EM 12x45	40	12	42	45	18	M16
EM 14x45	40	14	44	45	18	M16
EM 16x45	40	16	48	45	18	M16
EM 18x45	40	18	50	45	18	M16
EM 20x45	40	20	52	45	18	M16
EM 25x45	40	25	63	45	-	M16



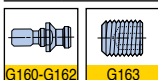
• Add B for coolant through flange

BT-EM

End mill holder



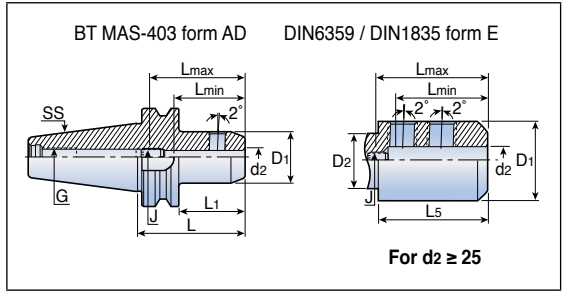
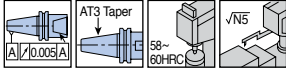
Designation	Dimension (mm)								
	SS	d_2	D_1	D_2	L	L_1	L_5	G	
BT30 EM 6x50	30	6	25	-	50	28	-	M12	
EM 8x60	30	8	28	-	60	38	-	M12	
EM 10x60	30	10	35	-	60	38	-	M12	
EM 12x60	30	12	42	-	60	38	-	M12	
EM 14x60	30	14	44	-	60	38	-	M12	
EM 16x60	30	16	46	-	60	38	-	M12	
EM 18x60	30	18	50	-	60	38	-	M12	
EM 20x80	30	20	52	-	80	58	-	M12	
BT40 EM 6x50	40	6	25	-	50	23	-	M16	
EM 8x50	40	8	28	-	50	23	-	M16	
EM 10x65	40	10	35	-	65	38	-	M16	
EM 12x65	40	12	42	-	65	38	-	M16	
EM 14x65	40	14	44	-	65	38	-	M16	
EM 16x65	40	16	48	-	65	38	-	M16	
EM 18x65	40	18	50	-	65	38	-	M16	
EM 20x75	40	20	52	-	75	48	-	M16	
EM 25x105	40	25	65	61	105	78	68	M16	
EM 32x110	40	32	72	61	110	83	73	M16	
BT50 EM 6x70	50	6	25	-	70	32	-	M24	
EM 8x70	50	8	28	-	70	32	-	M24	
EM 10x70	50	10	35	-	70	32	-	M24	
EM 12x100	50	12	42	-	100	62	-	M24	
EM 14x100	50	14	44	-	100	62	-	M24	
EM 16x100	50	16	48	-	100	62	-	M24	
EM 18x100	50	18	50	-	100	62	-	M24	
EM 20x100	50	20	52	-	100	62	-	M24	
EM 25x115	50	25	65	-	115	77	-	M24	
EM 32x115	50	32	72	-	115	77	-	M24	
EM 40x115	50	40	90	-	115	77	-	M24	
EM 50x125	50	50	100	-	125	87	-	M24	



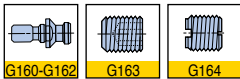
• Add B for coolant through flange

BT-EM-E

End mill holder - Whistle notch

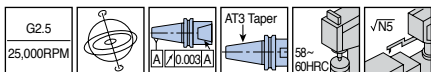
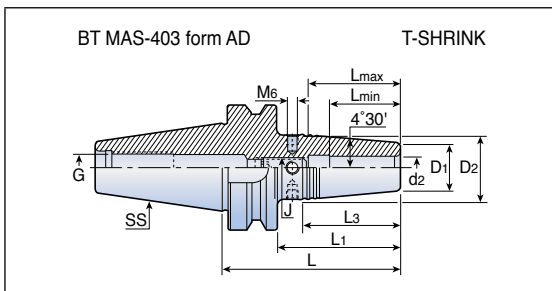


Designation	Dimension (mm)											
	SS	d_2	D_1	D_2	L	L_{min}	L_{max}	L_1	L_5	G	J	Hex key
BT40 EM 6x50E	40	6	25	-	50	35	45	23	-	M16	M5	2.5
EM 10x65E	40	10	35	-	65	39	49	38	-	M16	M8	4.0
EM 12x65E	40	12	42	-	65	44	54	38	-	M16	M10	5.0
EM 14x65E	40	14	44	-	65	44	54	38	-	M16	M10	5.0
EM 16x65E	40	16	48	-	65	47	57	38	-	M16	M12	6.0
EM 18x65E	40	18	50	-	65	47	57	38	-	M16	M12	6.0
EM 20x75E	40	20	52	-	75	49	59	48	-	M16	M16	8.0
EM 25x105E	40	25	65	61	105	54	64	78	68	M16	M20x1.5	10.0
EM 32x110E	40	32	72	61	110	58	68	83	73	M16	M20x1.5	10.0
BT50 EM 6x70E	50	6	25	-	70	35	45	32	-	M24	M5	2.5
EM 10x70E	50	10	35	-	70	39	49	32	-	M24	M8	4.0
EM 12x100E	50	12	42	-	100	44	54	62	-	M24	M10	5.0
EM 14x100E	50	14	44	-	100	44	54	62	-	M24	M10	5.0
EM 16x100E	50	16	48	-	100	47	57	62	-	M24	M12	6.0
EM 18x100E	50	18	50	-	100	47	57	62	-	M24	M12	6.0
EM 20x100E	50	20	52	-	100	49	59	62	-	M24	M16	8.0
EM 25x115E	50	25	65	-	115	54	64	77	-	M24	M20x1.5	10.0
EM 32x115E	50	32	72	-	115	58	68	77	-	M24	M20x1.5	10.0
EM 40x115E	50	40	90	-	115	68	78	77	-	M24	M20x1.5	10.0
EM 50x125E	50	50	98	-	125	78	88	67	-	M24	M20x1.5	10.0



• Add B for coolant through flange

Thermal shrinking chuck



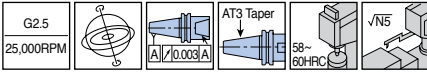
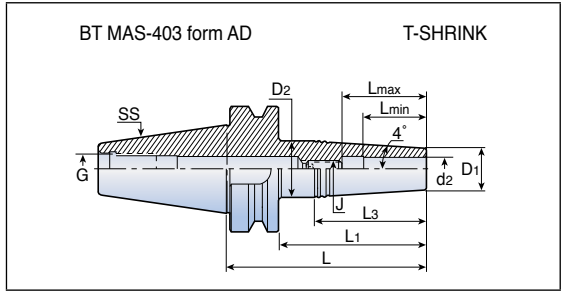
Designation	Dimension (mm)											
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	G	J	Hex key
BT40 SRKIN 6x90	40	6	21	27	90	25	36	63	38.0	M16	M5	2.5
SRKIN 8x90	40	8	21	27	90	25	36	63	38.0	M16	M6	3.0
SRKIN 10x90	40	10	24	32	90	31	42	63	50.5	M16	M8	4.0
SRKIN 12x90	40	12	24	32	90	36	47	63	50.5	M16	M10	5.0
SRKIN 14x90	40	14	27	34	90	36	47	63	44.5	M16	M10	5.0
SRKIN 16x90	40	16	27	34	90	39	50	63	44.5	M16	M12	6.0
SRKIN 18x90	40	18	33	42	90	39	50	63	57.0	M16	M12	6.0
SRKIN 20x90	40	20	33	42	90	41	52	63	57.0	M16	M16	8.0
SRKIN 25x110	40	25	44	53	110	47	58	83	57.0	M16	M16	8.0
BT50 SRKIN 6x100⁽¹⁾	50	6	21	26	100	25	36	62	32.0	M24	M5	2.5
SRKIN 8x100⁽¹⁾	50	8	21	27	100	25	36	62	38.0	M24	M6	3.0
SRKIN 10x100⁽¹⁾	50	10	24	32	100	31	42	62	51.0	M24	M8	4.0
SRKIN 12x100⁽¹⁾	50	12	24	32	100	36	47	62	51.0	M24	M10	5.0
SRKIN 14x100⁽¹⁾	50	14	27	34	100	36	47	62	44.5	M24	M10	5.0
SRKIN 16x100⁽¹⁾	50	16	27	34	100	39	50	62	44.5	M24	M12	6.0
SRKIN 18x100⁽¹⁾	50	18	33	42	100	39	50	62	57.0	M24	M12	6.0
SRKIN 20x100⁽¹⁾	50	20	33	42	100	41	52	62	57.0	M24	M16	8.0
SRKIN 25x120⁽¹⁾	50	25	44	53	120	47	58	82	57.0	M24	M16	8.0
SRKIN 32x120⁽¹⁾	50	32	44	53	120	47	58	82	57.0	M24	M16	8.0



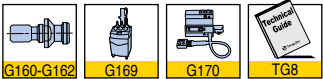
• ⁽¹⁾ Balance to G2.5 at 20,000RPM

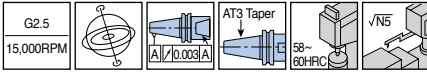
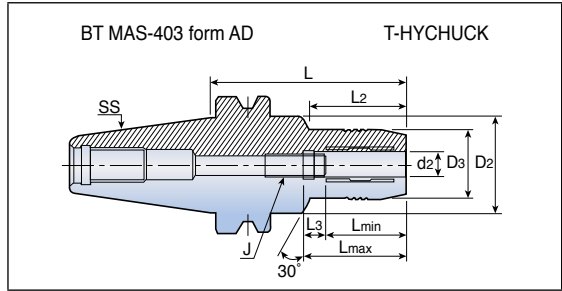
Contents

Thermal shrinking chuck



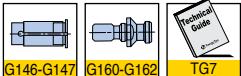
Designation	Dimension (mm)											
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	G	J	Hex key
BT40 SRK 3x50	40	3	10	15.0	77	10	16	50	35.5	M16	M6	3.0
SRK 3x85	40	3	10	19.0	112	10	16	85	64.1	M16	M6	3.0
SRK 4x50	40	4	10	15.0	77	12	18	50	35.5	M16	M6	3.0
SRK 4x85	40	4	10	19.0	112	12	18	85	64.1	M16	M6	3.0
SRK 5x50	40	5	10	15.0	77	15	21	50	35.5	M16	M6	3.0
SRK 5x85	40	5	10	19.0	112	15	21	85	64.1	M16	M6	3.0
SRK 6x50	40	6	11	16.0	77	18	24	50	35.5	M16	M8	4.0
SRK 6x85	40	6	11	20.0	112	18	24	85	64.1	M16	M8	4.0
SRK 8x50	40	8	14	20.0	77	25	31	50	42.5	M16	M10	5.0
SRK 8x85	40	8	14	23.0	112	25	31	85	63.9	M16	M10	5.0
SRK 10x50	40	10	16	22.0	77	30	36	50	42.4	M16	M12	6.0
SRK 10x85	40	10	16	24.5	112	30	36	85	60.2	M16	M12	6.0
SRK 12x50	40	12	20	26.0	77	32	42	50	42.3	M16	M10	5.0
SRK 12x85	40	12	20	28.0	112	32	42	85	56.6	M16	M10	5.0

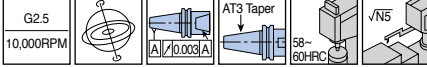
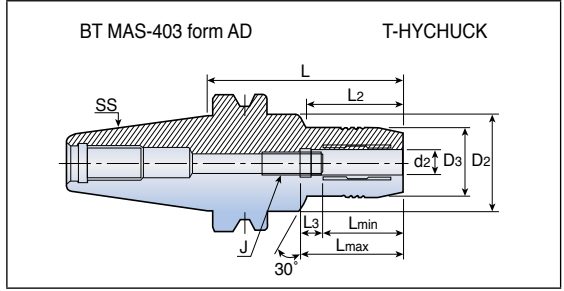




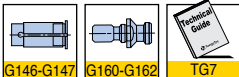
Designation	Dimension (mm)									
	SS	d2	D2	D3	L	Lmin	Lmax	L2	L3	J
BT 30 THC 6-70 ⁽¹⁾	30	6	45	28	70	37.5	27.5	28.0	10	M5
THC 8-70 ⁽¹⁾	30	8	45	30	70	37.5	27.5	28.0	10	M6
THC 10-75 ⁽¹⁾	30	10	45	32	75	42.5	32.5	38.0	10	M8x1
THC 12-85 ⁽¹⁾	30	12	45	34	85	47.5	37.5	44.0	10	M10x1
THC 14-85 ⁽¹⁾	30	14	45	36	85	47.5	37.5	44.0	10	M10x1
THC 16-90 ⁽¹⁾	30	16	45	38	90	52.5	42.5	46.0	10	M10x1
THC 20-85 ⁽¹⁾	30	20	45	43	85	52.5	42.5	63.0	10	M10x1
THC 20-90 ⁽¹⁾	30	20	45	41	90	52.5	42.5	68.0	10	M10x1
BT 40 THC 6-65	40	6	50	28	65	37.5	27.5	23.0	10	M5
THC 6-95	40	6	50	28	65	37.5	27.5	43.0	10	M5
THC 8-95	40	8	50	30	95	37.5	27.5	44.0	10	M6
THC 10-95	40	10	50	32	95	42.5	32.5	44.0	10	M8x1
THC 12-95	40	12	50	34	95	47.5	37.5	44.0	10	M10x1
THC 14-95	40	14	50	36	95	47.5	37.5	44.0	10	M10x1
THC 16-95	40	16	50	38	95	52.5	42.5	46.0	10	M10x1
THC 16-140	40	16	50	38	140	52.5	42.5	47.5	10	M10x1
THC 20-95	40	20	50	43	95	52.5	42.5	48.0	10	M10x1
THC 25-100	40	25	-	57	100	61.0	51.0	73.0	10	M16x1
THC 25-135	40	25	-	57	135	61.0	51.0	108.0	10	M16x1
THC 32-105	40	32	-	63	105	61.0	55.0	78.0	10	M16x1

• ⁽¹⁾ Balance to G2.5 at 20,000RPM



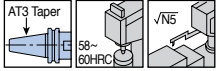
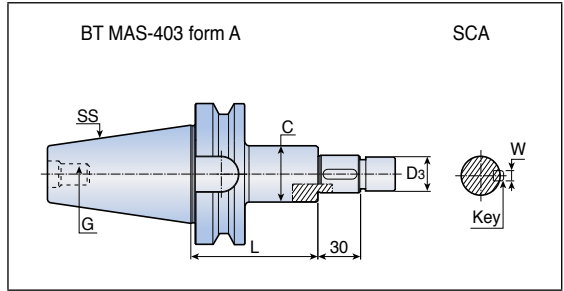


Designation	Dimension (mm)										
	SS	d2	D2	D3	L	Lmin	Lmax	L2	L3	J	
BT50 THC 6-90	50	6	50	28	90	37.5	27.5	32	10	M5	
THC 6-120	50	6	50	28	120	37.5	27.5	38	10	M5	
THC 10-90	50	10	50	32	90	42.5	32.5	32	10	M8x1	
THC 10-120	50	10	50	32	120	42.5	32.5	42	10	M8x1	
THC 12-90	50	12	50	34	90	47.5	47.5	32	10	M8x1	
THC 12-120	50	12	50	34	120	47.5	47.5	44	10	M8x1	
THC 14-90	50	14	50	36	90	47.5	47.5	32	10	M10x1	
THC 16-90	50	16	50	38	90	52.5	42.5	32	10	M10x1	
THC 20-90	50	20	50	43	90	52.5	42.5	32	10	M10x1	
THC 20-120	50	20	50	43	120	52.5	42.5	48	10	M10x1	
THC 20-140	50	20	50	43	140	52.5	42.5	48	10	M10x1	
THC 25-105	50	25	-	57	105	61.0	51.0	67	10	M16x1	
THC 25-150	50	25	-	57	150	61.0	51.0	112	10	M16x1	
THC 32-90	50	32	-	63	90	65.0	55.0	52	10	M16x1	
THC 32-115	50	32	-	63	115	65.0	55.0	77	10	M16x1	
THC 32-135	50	32	-	63	135	65.0	55.0	97	10	M16x1	
THC 32-150	50	32	-	63	150	65.0	55.0	112	10	M16x1	



BT-SCA

Slotting cutter arbor



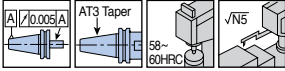
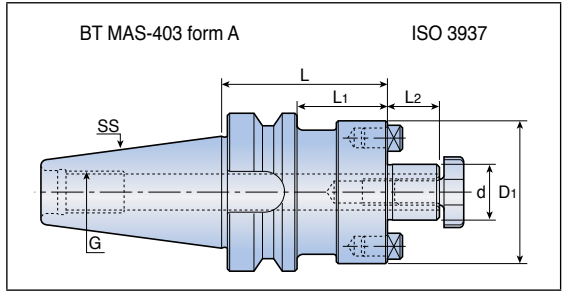
Designation	Dimension (mm)					
	SS	D ₃	L	C	W	G
BT40 - SCA-22(22.225)-75	40	22(22.225)	75	34	6(3.18)	M16
SCA-22-120	40	22	120	34	6(3.18)	M16
SCA-27(25.4)-75	40	27(25.4)	75	40	7(6.35)	M16
SCA-27-120	40	27	120	40	7(6.35)	M16
SCA-32(31.75)-90	40	32(31.75)	90	46	8(7.92)	M16
SCA-22(22.225)-90	40	22(22.225)	90	34	6(3.18)	M24
BT50 - SCA-22-135	50	22	135	34	6(3.18)	M24
SCA-27(25.4)-90	50	27(25.4)	90	40	7(6.35)	M24
SCA-27-135	50	27	135	40	7(6.35)	M24
SCA-32(31.75)-90	50	32(31.75)	90	46	8(7.92)	M24
SCA-40(38.1)-90	50	40(38.1)	90	55	10(9.52)	M24
SCA-50-90	50	50	90	68	12	M24



• Washers & key are included (Each 3, 5, 7, 8, 10, 12mm)

BT-SEM

Face mill arbor



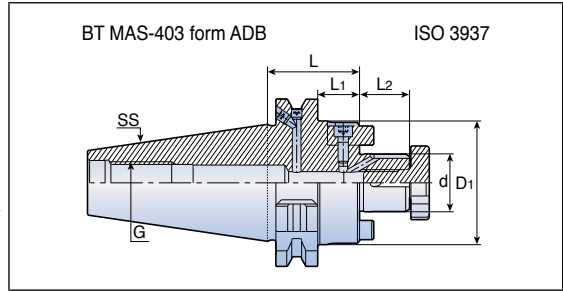
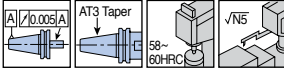
Designation	Dimension (mm)						
	SS	d	D1	L	L1	L2	G
BT30 SEM 16x50	30	16	38	50	28	17	M12
SEM 22x50	30	22	47	50	28	19	M12
SEM 27x50	30	27	58	50	18	21	M12
BT40 SEM 16x60	40	16	38	60	33	17	M16
SEM 16x120	40	16	38	120	93	17	M16
SEM 22x60	40	22	47	60	33	19	M16
SEM 22x120	40	22	47	120	93	19	M16
SEM 27x45	40	27	58	45	18	21	M16
SEM 27x105	40	27	58	105	78	21	M16
SEM 32x60	40	32	65	60	23	24	M16
SEM 32x75	40	32	65	75	36	24	M16
SEM 40x60	40	40	82	60	23	27	M16
SEM 40x75	40	40	82	75	38	27	M16
BT50 SEM 16x75	50	16	38	75	37	17	M24
SEM 16x120	50	16	38	120	82	17	M24
SEM 22x50x220	50	22	50	220	182	19	M24
SEM 22x64x320	50	22	64	320	282	19	M24
SEM 22x75	50	22	47	75	37	19	M24
SEM 22x120	50	22	47	120	82	19	M24
SEM 27x60	50	27	58	60	22	21	M24
SEM 27x105	50	27	58	105	67	21	M24
SEM 32x48	50	32	66	48	10	24	M24
SEM 32x75	50	32	66	75	37	24	M24
SEM 40x48	50	40	82	48	10	27	M24
SEM 40x75	50	40	82	75	37	27	M24



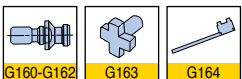
• Wrench not included

BT-SEM-C

Face mill arbor - Coolant hole



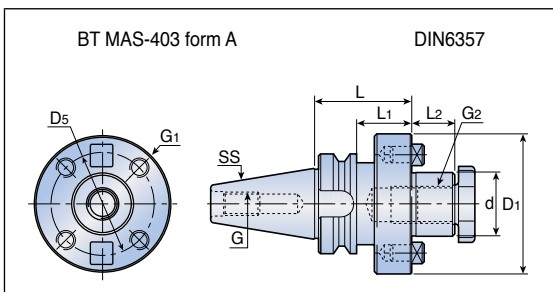
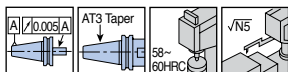
Designation	Dimension (mm)						
	SS	d	D1	L	L1	L2	G
BT40 SEM 16x60C	40	16	38	60	17	33	M16
SEM 16x100C	40	16	38	100	17	73	M16
SEM 22x60C	40	22	47	60	19	33	M16
SEM 22x100C	40	22	47	100	19	73	M16
SEM 27x45C	40	27	58	45	21	18	M16
SEM 27x100C	40	27	58	100	21	73	M16
SEM 32x60C	40	32	66	60	24	33	M16
BT50 SEM 16x75C	50	16	38	75	17	37	M24
SEM 16x100C	50	16	38	100	17	62	M24
SEM 22x75C	50	22	47	75	19	37	M24
SEM 22x100C	50	22	47	100	19	62	M24
SEM 27x60C	50	27	58	60	21	22	M24
SEM 27x100C	50	27	58	100	21	62	M24
SEM 32x75C	50	32	66	75	24	37	M24
SEM 32x100C	50	32	66	100	24	62	M24
BT50 SEM 22x48x220C	50	22	48	220	182	19	M24
SEM 22x61x320C	50	22	61	320	282	19	M24
SEM 27x61x320C	50	27	61	320	282	21	M24
SEM 32x78x390C	50	32	78	390	352	24	M24



- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)
- Wrench not included

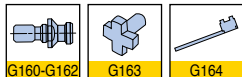
BT-FM

Face mill arbor



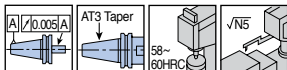
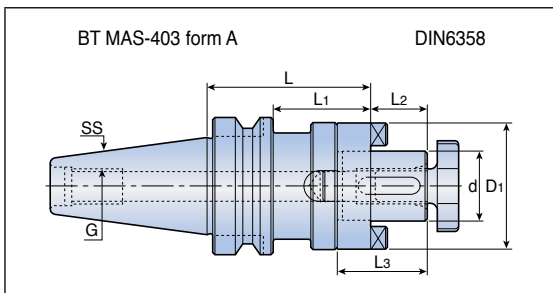
Designation	Dimension (mm)									
	SS	d	D1	D5	L	L1	L2	G	G1	G2
BT40 FM 40	40	40	88	66.7	60	22	27	M16	M12	M20
BT50 FM 40	50	40	88	66.7	50	12	27	M24	M12	M20
FM 60	50	60	128	101.6	88	40	38	M24	M16	-

• Wrench not included

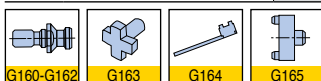


BT-SEMC

Combi shell end mill arbor



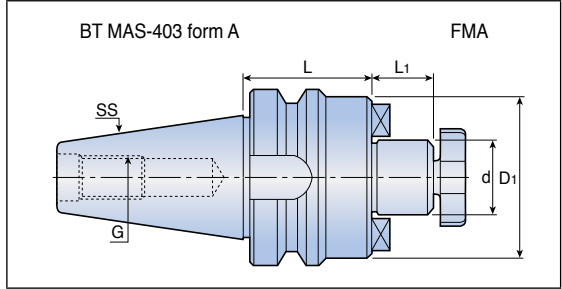
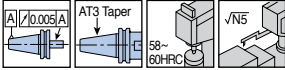
Designation	Dimension (mm)							
	SS	d	D1	L	L1	L2	L3	G
BT40 SEMC 16x50	40	16	32	50	23	17	27	M16
SEMC 16x100	40	16	32	100	73	17	27	M16
SEMC 22x53	40	22	40	53	26	19	31	M16
SEMC 22x100	40	22	40	100	73	19	31	M16
SEMC 27x55	40	27	48	55	28	21	33	M16
SEMC 27x100	40	27	48	100	73	21	33	M16
SEMC 32x60	40	32	58	60	33	24	38	M16
SEMC 32x100	40	32	58	100	73	24	38	M16
SEMC 40x80	40	40	70	80	53	27	41	M16
BT50 SEMC 16x100	50	16	32	100	62	17	27	M24
SEMC 16x150	50	16	32	150	112	17	27	M24
SEMC 22x68	50	22	40	68	30	19	31	M24
SEMC 22x100	50	22	40	100	62	19	31	M24
SEMC 22x150	50	22	40	150	112	19	31	M24
SEMC 27x78	50	27	48	78	40	21	33	M24
SEMC 27x100	50	27	48	100	62	21	33	M24
SEMC 27x150	50	27	48	150	112	21	33	M24
SEMC 32x78	50	32	58	78	40	24	38	M24
SEMC 32x100	50	32	58	100	62	24	38	M24
SEMC 32x150	50	32	58	150	112	24	38	M24
SEMC 40x78	50	40	70	78	40	27	41	M24
SEMC 40x100	50	40	70	100	62	27	41	M24
SEMC 40x150	50	40	70	150	112	27	41	M24
SEMC 50x79	50	50	90	79	41	30	46	M24
SEMC 50x150	50	50	90	150	112	30	46	M24



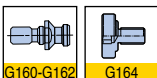
• Wrench not included

BT-FMA

Face mill arbor

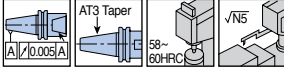
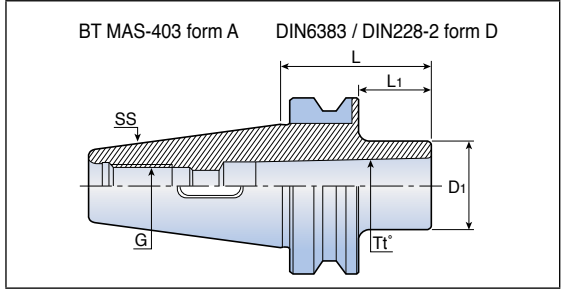


Designation	Dimension (mm)						
	SS	d	D ₁	L	L ₁	G	Mounting screw
BT30 FMA 25.4-45L	30	25.400	50.00	45	22	M12	MBA M12
BT40 FMA 25.4-45L	40	25.400	50.00	45	22	M16	MBA M12
FMA 25.4-90L	40	25.400	50.00	90	22	M16	MBA M12
FMA 31.75-45L	40	31.750	60.00	45	30	M16	MBA M16
FMA 31.75-75L	40	31.750	60.00	75	30	M16	MBA M16
FMA 38.1-60L	40	38.100	80.00	60	34	M16	MBA M20
BT50 FMA 25.4-45L	50	25.400	50.00	45	22	M24	MBA M12
FMA 25.4-90L	50	25.400	50.00	90	22	M24	MBA M12
FMA 25.4-150L	50	25.400	50.00	150	22	M24	MBA M12
FMA 31.75-45L	50	31.750	60.00	45	30	M24	MBA M16
FMA 31.75-75L	50	31.750	60.00	75	30	M24	MBA M16
FMA 31.75-105L	50	31.750	60.00	105	30	M24	MBA M16
FMA 38.1-45L	50	38.100	80.00	45	34	M24	MBA M20
FMA 38.1-75L	50	38.100	80.00	75	34	M24	MBA M20
FMA 50.8-45L	50	50.800	98.00	45	36	M24	MBA M24
FMA 50.8-75L	50	50.800	98.00	75	36	M24	MBA M24
FMA 47.625-75L	50	47.625	128.57	75	38	M24	SH M16x2x40



BT-MT

Morse taper holder



Designation	Dimension (mm)					
	SS	Tt°	D1	L	L1	G
BT30 MT 1x45	30	MT1	25	45	23	M12
MT 2x60	30	MT2	32	60	38	M12
BT40 MT 1x45	40	MT1	25	45	25	M16
MT 1x120	40	MT1	25	120	25	M16
MT 2x60	40	MT2	32	60	32	M16
MT 2x120	40	MT2	32	120	32	M16
MT 3x75	40	MT3	40	75	40	M16
MT 3x139	40	MT3	40	139	40	M16
MT 4x95	40	MT4	50	95	50	M16
BT50 MT 1x45	50	MT1	25	45	7	M24
MT 1x120	50	MT1	25	120	82	M24
MT 2x45	50	MT2	32	45	7	M24
MT 2x135	50	MT2	32	135	97	M24
MT 2x180	50	MT2	32	180	142	M24
MT 3x45	50	MT3	40	45	7	M24
MT 3x150	50	MT3	40	150	112	M24
MT 3x180	50	MT3	40	180	142	M24
MT 4x75	50	MT4	50	75	37	M24
MT 4x180	50	MT4	50	180	142	M24
MT 5x105	50	MT5	70	105	67	M24



BT-MT-DRW

Morse taper adapter

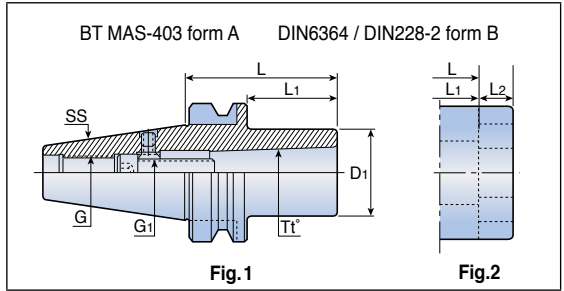
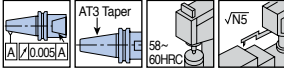


Fig. 1

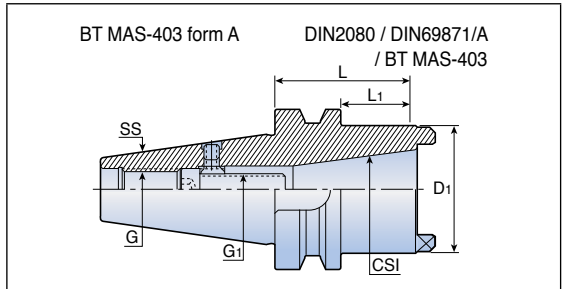
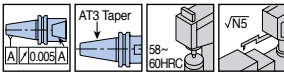
Fig. 2

Designation	Dimension (mm)								Fig.
	SS	Tt°	D1	L	L1	L2	G	G1	
BT40 MT1 DRW	40	MT1	25	50	23	-	M16	M6	1
MT2 DRW	40	MT2	32	50	23	-	M16	M10	1
MT3 DRW	40	MT3	40	70	43	-	M16	M12	1
MT4 DRW⁽¹⁾	40	MT4	63	95	68	15	M16	M16	2
BT50 MT1 DRW	50	MT1	25	45	7	-	M24	M6	1
MT2 DRW	50	MT2	32	60	22	-	M24	M10	1
MT3 DRW	50	MT3	40	65	27	-	M24	M12	1
MT4 DRW⁽¹⁾	50	MT4	63	70	32	15	M24	M16	2
MT5 DRW⁽¹⁾	50	MT5	78	100	62	18	M24	M20	2

• ⁽¹⁾ DIN2201

BT-AD

Adapter



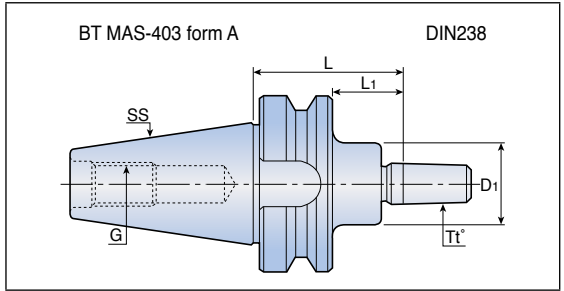
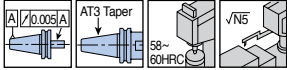
Designation	Dimension (mm)						
	SS	CSI	L	L1	D1	G	G1
BT50 AD 40	50	DIN 2080	75	32	63	M24	M16
AD BT/SK 40	50	DIN 69871/A, BT MAS	75	37	66	M24	M16



G160-G162

BT-DC

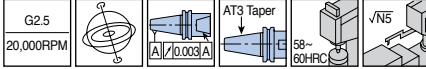
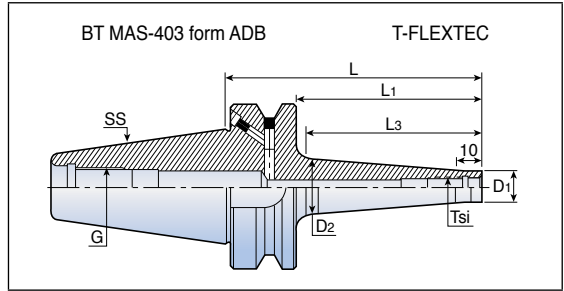
Drill chuck arbor



Designation	Dimension (mm)					
	SS	Tt°	L	D1	L1	G
BT30 DC B12x30	30	B12	30	-	8.0	M12
DC B16x30	30	B16	30	-	8.0	M12
BT40 DC B12x45	40	B12	45	24	18.0	M16
DC B12x90	40	B12	90	24	63.0	M16
DC B16x45	40	B16	45	30	18.0	M16
DC B16x90	40	B16	90	30	63.0	M16
DC B18x45	40	B18	45	30	18.0	M16
DC B18x90	40	B18	90	30	63.0	M16
BT50 DC B12x45	50	B12	45	-	6.7	M24
DC B12x105	50	B12	105	24	67.0	M24
DC B16x45	50	B16	45	-	7.0	M24
DC B16x105	50	B16	105	50	67.0	M24
DC B18x45	50	B18	45	-	7.0	M24
DC B18x105	50	B18	105	30	67.0	M24



• Without drill chuck



Designation	Dimension (mm)							
	SS	Tsi	D1	D2	L	L1	L3	G
BT40 ODP 6x66	40	M6	9.8	13.0	66	39	30	M16
ODP 6x106	40	M6	9.8	23.0	106	79	70	M16
ODP 8x66	40	M8	13.0	15.0	66	39	30	M16
ODP 8x106	40	M8	13.0	23.0	106	79	70	M16
ODP 10x66	40	M10	18.0	20.0	66	39	30	M16
ODP 10x106	40	M10	18.0	28.0	106	79	70	M16
ODP 12x66	40	M12	21.0	24.0	66	39	30	M16
ODP 12x106	40	M12	21.0	31.0	106	79	70	M16
ODP 16x66	40	M16	29.0	28.6	66	39	35	M16
ODP 16x106	40	M16	29.0	34.0	106	79	70	M16
BT50 ODP 12x94⁽¹⁾	50	M12	23.0	30.0	94	56	50	M24
ODP 12x144⁽¹⁾	50	M12	23.0	40.0	144	106	100	M24
ODP 12x194⁽¹⁾	50	M12	23.0	40.0	194	156	150	M24
ODP 12x244⁽¹⁾	50	M12	23.0	46.0	244	206	200	M24
ODP 16x94⁽¹⁾	50	M16	29.0	34.0	94	56	50	M24
ODP 16x144⁽¹⁾	50	M16	29.0	40.0	144	106	100	M24
ODP 16x194⁽¹⁾	50	M16	29.0	55.0	194	156	150	M24
ODP 16x244⁽¹⁾	50	M16	29.0	55.0	244	206	200	M24



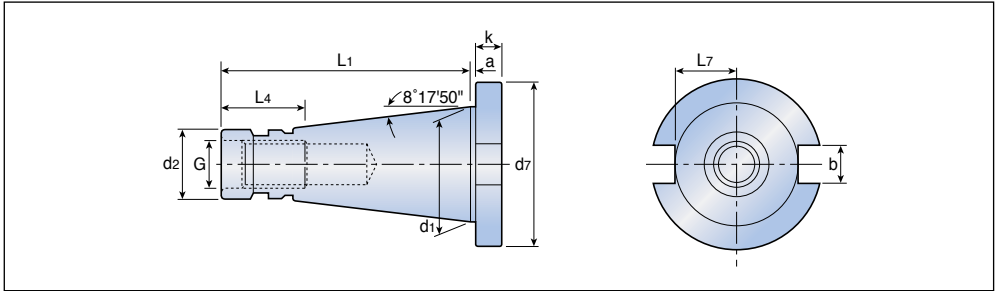
- If the “B type” option is required, the plug screw must be removed from the flange cooling hole (Use a 2mm hex key)
- ⁽¹⁾ Balance to G6.3 at 12,000RPM

DIN2080



DIN2080

Standard toolholder

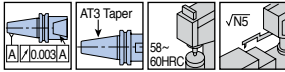
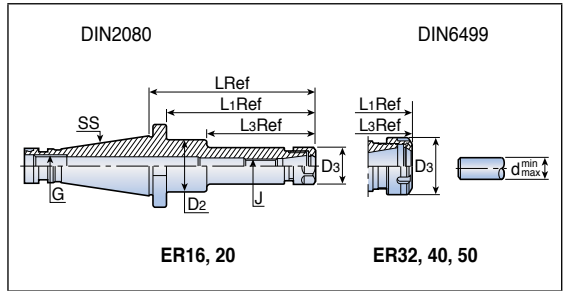


Shank	a ±0.2	b (H12)	d1	d2	G	d7	K ±0.15	L1	L4	L7max	Taper AT3
30	1.6	16.1	31.75	17.4	M12	50.0	8	68.4	24	16.2	0.002
40	1.6	16.1	44.45	25.3	M16	63.0	10	93.4	32	22.5	0.003
50	3.2	25.7	69.85	39.6	M24	97.5	12	126.8	47	35.3	0.004

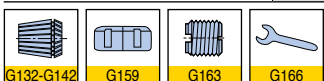
* For non-stock items: Supply condition is subject to availability.
If not available in stock then MOQ (Minimum order qty) will be applicable.

DIN2080-ER

ER collet chuck

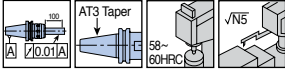
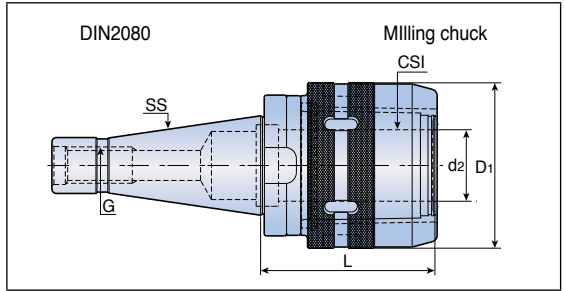


Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D3	D2	L	L1	L3	G	J
DIN2080 30 ER 16x75	30	ER16	0.5	10.0	28	-	75	65.4	-	M12	M10
ER 32x55	30	ER32	2.0	20.0	50	-	55	45.4	-	M12	M18x1.5
ER 40x83	30	ER40	3.0	26.0	63	-	83	69.4	-	M12	M22x1.5
DIN2080 40 ER 16x63	40	ER16	0.5	10.0	28	-	63	51.4	-	M16	M12
ER 16x100	40	ER16	0.5	10.0	28	-	100	88.4	-	M16	M12
ER 20x63	40	ER20	1.0	13.0	34	-	63	51.4	-	M16	M12
ER 20x100	40	ER20	1.0	13.0	34	-	100	88.4	-	M16	M12
ER 25x50	40	ER25	1.0	16.0	42	-	50	38.4	-	M16	M16x1.5
ER 32x50	40	ER32	2.0	20.0	50	-	50	38.4	-	M16	M22x1.5
ER 40x55	40	ER40	3.0	26.0	63	-	55	43.4	-	M16	M22x1.5
ER 50x80	40	ER50	10.0	34.0	78	-	80	68.4	-	M24	M22x1.5
DIN2080 50 ER 16x100	50	ER16	0.5	10.0	28	-	100	84.8	-	M24	M12
ER 16x160	50	ER16	0.5	10.0	28	40	160	144.8	95	M24	M12
ER 20x100	50	ER20	1.0	13.0	34	-	100	84.8	-	M24	M16
ER 20x160	50	ER20	1.0	13.0	34	-	160	144.8	-	M24	M12
ER 40x58	50	ER40	3.0	26.0	63	-	58	42.8	-	M24	M28x1.5
ER 50x63	50	ER50	10.0	34.0	78	-	63	47.8	-	M24	M36x1.5

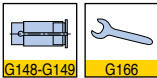


DIN2080-TMC

Milling chuck

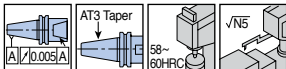
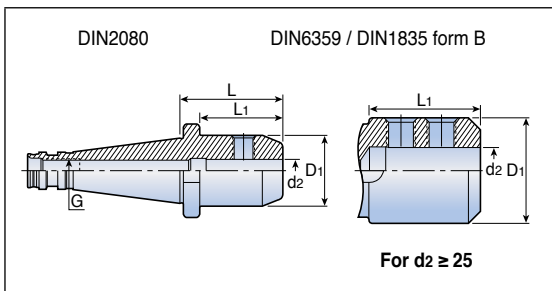


Designation	Dimension (mm)					
	SS	CSI	d2	D1	L	G
DIN2080 30 TMC 20-67	30	20	20	54	67	M12
DIN2080 40 TMC 25-78	40	25	25	74	78	M16
TMC 32-78	40	32	32	74	78	M16
DIN2080 50 TMC 32-85	50	32	32	74	85	M24
TMC 42-102	50	42	42	92	102	M24



DIN2080-EM

End mill holder

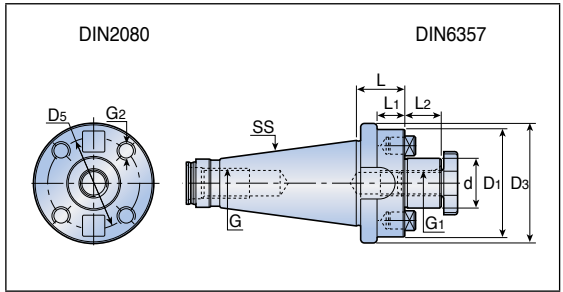
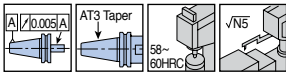


Designation	Dimension (mm)					
	SS	d2	D1	L	L1	G
DIN2080 30 EM 6x40	30	6	25	40	30.4	M12
	30	8	28	40	30.4	M12
	30	10	35	40	30.4	M12
	30	16	48	50	40.4	M12
	30	20	52	63	53.4	M12
DIN2080 40 EM 6x50	40	6	25	50	38.4	M16
	40	8	28	50	38.4	M16
	40	10	35	50	38.4	M16
	40	12	42	50	38.4	M16
	40	16	48	63	51.4	M16
	40	20	52	63	51.4	M16
	40	25	65	80	68.4	M16
DIN2080 50 EM 6x63	40	32	72	80	68.4	M16
	50	6	25	63	47.8	M24
	50	8	28	63	47.8	M24
	50	10	35	63	47.8	M24
	50	12	42	63	47.8	M24
	50	16	48	63	47.8	M24
	50	20	52	63	47.8	M24
	50	25	65	80	64.8	M24
	50	32	72	80	64.8	M24
	50	40	90	90	74.8	M24
50	50	100	100	84.8	M24	

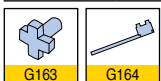


DIN2080-FM

Face mill arbor



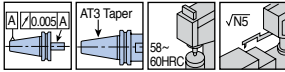
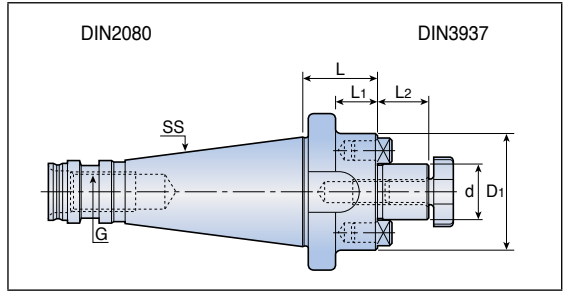
Designation	Dimension (mm)										
	SS	d	D1	D3	D5	L	L1	L2	G	G1	G2
DIN2080 40 FM40	40	40	66.7	88.0	66.7	20.0	-	27	M16	M20	M12
DIN2080 50 FM40	50	40	66.7	97.5	66.7	36.0	20.8	27	M24	M20	M12
FM60	50	60	101.6	128.0	101.6	35.8	-	40	M24	-	M16



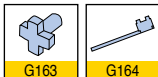
• Wrench not included

DIN2080-SEM

Shell end mill arbor



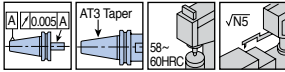
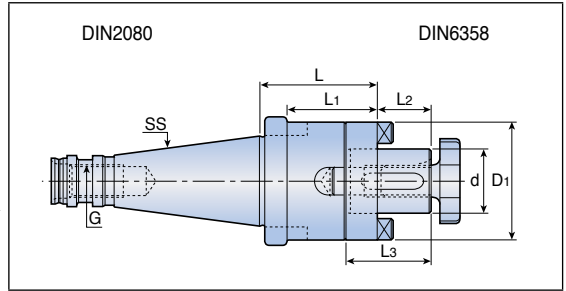
Designation	Dimension (mm)							
	SS	d	D1	L	L1	L2	G	
DIN2080 30 SEM 16x28	30	16	38	28	18.4	17	M12	
	SEM 22x28	30	22	47	28	18.4	M12	
	SEM 27x32	30	27	58	32	22.4	M12	
	SEM 32x32	30	32	66	32	22.4	M12	
DIN2080 40 SEM 16x28	40	16	38	28	16.4	17	M16	
	SEM 22x27	40	22	47	27	15.4	M16	
	SEM 27x26	40	27	58	26	14.4	M16	
	SEM 32x23	40	32	66	23	11.4	M16	
	SEM 40x34	40	40	82	34	22.4	M16	
	SEM 16x38	50	16	38	38	22.8	17	M24
DIN2080 50 SEM 22x38	50	22	47	38	22.8	19	M24	
	SEM 27x38	50	27	58	38	22.8	21	M24
	SEM 32x36	50	32	66	36	20.8	24	M24
	SEM 40x40	50	40	82	40	24.8	27	M24



• Wrench not included

DIN2080-SEMC

Combi shell end mill arbor



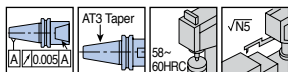
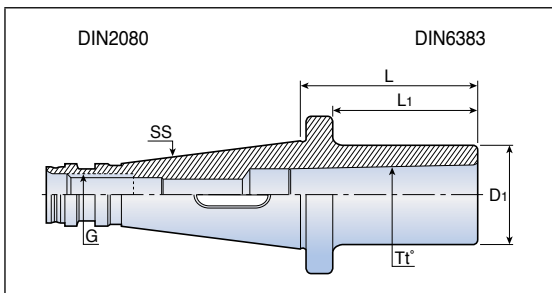
Designation	Dimension (mm)								
	SS	d	D1	L	L1	L2	L3	G	
DIN2080 30 SEMC 16x35	30	16	32	35	25.4	17	27	M12	
	30	22	40	35	25.4	19	31	M12	
	30	27	48	35	25.4	21	33	M12	
	30	32	58	50	40.4	24	38	M12	
DIN2080 40 SEMC 22x52	40	22	40	52	40.4	19	31	M16	
	40	27	48	52	40.4	21	33	M16	
	40	32	58	52	40.4	24	38	M16	
	40	40	70	52	40.4	27	41	M16	
DIN2080 50 SEMC 16x55	50	16	32	55	39.8	17	27	M24	
	50	22	40	55	39.8	19	31	M24	
	50	27	48	55	39.8	21	33	M24	
	50	32	58	55	39.8	24	38	M24	
	50	40	70	55	39.8	27	41	M24	
	50	50	90	55	39.8	30	46	M24	



• Wrench not included

DIN2080-MT

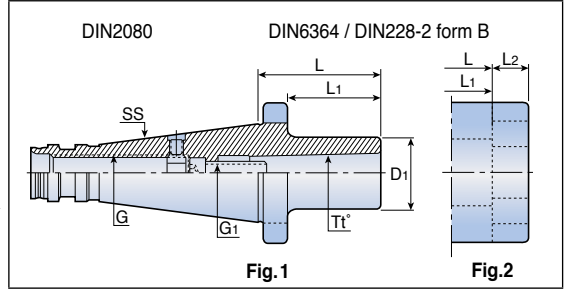
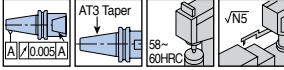
Morse taper holder



Designation	Dimension (mm)					
	SS	Tt°	D1	L	L1	G
DIN2080 30 MT 1x50	30	MT1	25	50	40.4	M12
MT 2x50	30	MT2	32	50	40.4	M12
MT 3x70	30	MT3	40	50	60.4	M12
DIN2080 40 MT 1x50	40	MT1	25	50	38.4	M16
MT 2x50	40	MT2	32	50	38.4	M16
MT 3x65	40	MT3	40	65	53.4	M16
MT 4x95	40	MT4	48	95	83.4	M16
DIN2080 50 MT 1x45	50	MT1	25	45	29.8	M24
MT 2x60	50	MT2	32	60	44.8	M24
MT 3x65	50	MT3	40	65	49.8	M24
MT 4x70	50	MT4	48	70	54.8	M24
MT 5x105	50	MT5	63	105	89.2	M24

DIN2080-MT-DRW

Morse taper draw bar adapter

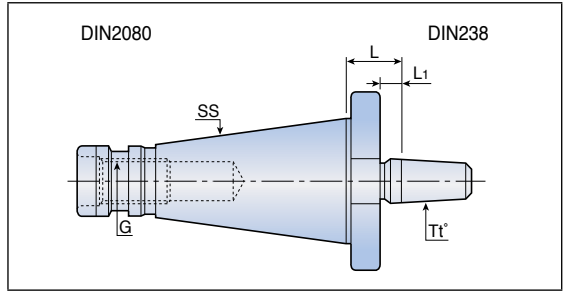
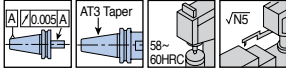


Designation	Dimension (mm)								Fig.	
	SS	Tt°	D1	L	L1	L2	G1	G		
DIN2080 40	MT1 DRW	40	MT1	25	50	38.4	-	M6	M16	1
	MT2 DRW	40	MT2	32	50	38.4	-	M10	M16	1
	MT3 DRW	40	MT3	40	65	53.4	-	M12	M16	1
	MT4 DRW	40	MT4	63	110	-	15	M16	M16	2
DIN2080 50	MT1 DRW	50	MT1	25	60	44.8	-	M6	M24	1
	MT2 DRW	50	MT2	32	60	44.8	-	M10	M24	1
	MT3 DRW	50	MT3	40	65	49.8	-	M12	M24	1
	MT4 DRW	50	MT4	63	80	49.8	15	M16	M24	2
	MT5 DRW	50	MT5	78	100	84.4	18	M20	M24	2

• MT4 & MT5: DIN2201

DIN2080-DC

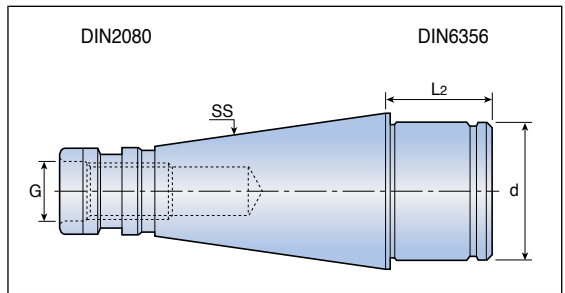
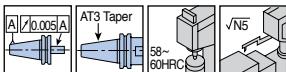
Drill chuck arbor



Designation	Dimension (mm)				
	SS	Tt°	L	L1	G
DIN2080 30 DC B16x20	30	B16	20	5.4	M12
DIN2080 40 DC B16x22	40	B16	22	10.4	M16
DC B18x25	40	B18	25	13.4	M16
DIN2080 50 DC B16x25	50	B16	25	9.8	M24
DC B18x25	50	B18	25	9.8	M24

DIN2080-CP

Centering plug



Designation	Dimension (mm)			
	SS	d	L2	G
DIN2080 40 CP 40	40	40	29	M16
DIN2080 50 CP 60	50	60	39	M24

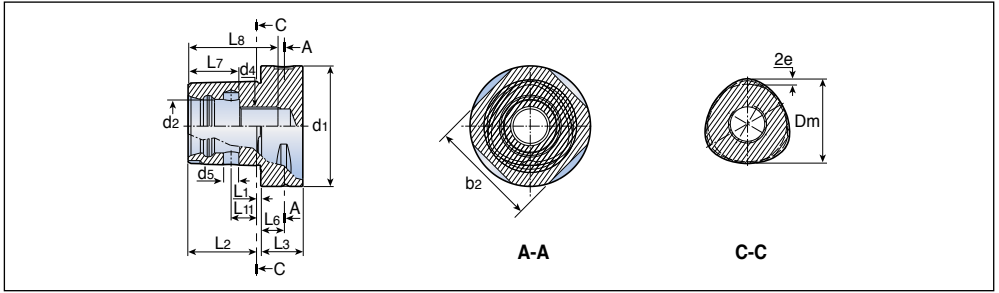
C-ADAPTER



Contents

C-ADAPTER ISO 26623-1

Standard toolholder



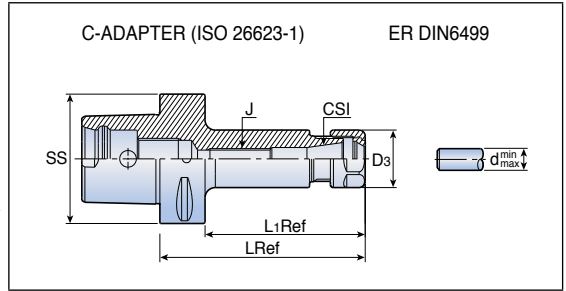
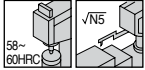
C-ADAPTER	b2	d1 ±0.1	d2	d4	d5 ±0.1	Dm	e
C3	28.3	32	15	M12x1.5	3.6	22	0.70
C4	35.3	40	18	M14x1.5	4.6	28	0.90
C5	44.4	50	21	M16x1.5	6.1	35	1.12
C6	55.8	63	28	M20x2	8.1	44	1.40
C8	71.1	80	32	M20x2	9.1	55	2.00

C-ADAPTER	L1	L2 ±0.1	L3min	L6 ±0.15	L7 ±0.15	L8min	L11 ±0.1
C3	2.5	19	15	6	13	25	8.0
C4	2.5	24	20	8	15	30	11.5
C5	3.0	30	20	10	20	37	14.0
C6	3.0	38	22	12	27	47	15.5
C8	3.0	48	30	12	28	48	25.0

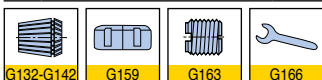
* For non-stock items: Supply condition is subject to availability.
 If not available in stock then MOQ (Minimum order qty) will be applicable.

C-ER

ER collet chuck



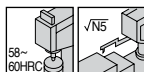
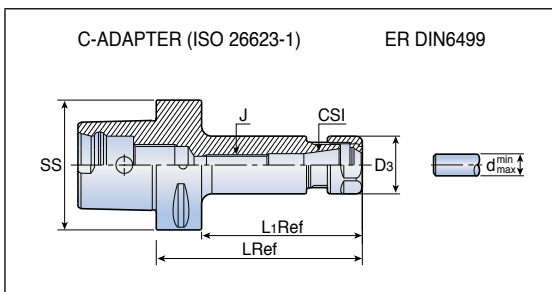
Designation	Dimension (mm)							
	SS	CSI	dmin	dmax	D3	L	L1	J
C4 ER 16x70	40	ER16	1.0	10.0	28	70	50	M10
ER 20x35 ⁽¹⁾	40	ER20	1.0	13.0	34	35	27	-
ER 20x52	40	ER20	1.0	13.0	34	52	32	-
ER 25x38 ⁽¹⁾	40	ER25	1.0	16.0	42	38	30	-
ER 25x52	40	ER25	1.0	16.0	42	52	32	-
ER 32x54	40	ER32	2.0	20.0	50	54	34	-
C5 ER 16x100	50	ER16	1.0	10.0	28	100	80	M10
ER 16x130	50	ER16	1.0	10.0	28	130	110	M10
ER 20x055	50	ER20	1.0	13.0	34	55	35	-
ER 20x100	50	ER20	1.0	13.0	34	100	80	M12
ER 20x130	50	ER20	1.0	13.0	34	130	110	M12
ER 25x055	50	ER25	1.0	16.0	42	55	35	-
ER 25x100	50	ER25	1.0	16.0	42	100	80	M16
ER 32x057	50	ER32	2.0	20.0	50	57	36	-
ER 32x100	50	ER32	2.0	20.0	50	100	80	M22x1.5
C6 ER 16x100	63	ER16	1.0	10.0	28	100	78	M10
ER 16x130	63	ER16	1.0	10.0	28	130	108	M10
ER 16x160	63	ER16	1.0	10.0	28	160	138	M10
ER 20x060	63	ER20	1.0	13.0	34	60	38	-
ER 20x100	63	ER20	1.0	13.0	34	100	78	M12
ER 20x130	63	ER20	1.0	13.0	34	130	108	M12
ER 20x160	63	ER20	1.0	13.0	34	160	138	M12
ER 25x060	63	ER25	1.0	16.0	42	60	38	-
ER 25x100	63	ER25	1.0	16.0	42	100	78	M16
ER 25x130	63	ER25	1.0	16.0	42	130	108	M16
ER 25x160	63	ER25	1.0	16.0	42	160	138	M16
ER 32x060	63	ER32	2.0	20.0	50	60	36	-
ER 32x100	63	ER32	2.0	20.0	50	100	78	M22x1.5
ER 32x130	63	ER32	2.0	20.0	50	130	108	M22x1.5
ER 32x160	63	ER32	2.0	20.0	50	160	138	M22x1.5
ER 40x065	63	ER40	3.0	26.0	63	65	37	-
ER 40x100	63	ER40	3.0	26.0	63	100	78	M28x1.5
ER 40x130	63	ER40	3.0	26.0	63	130	108	M28x1.5



• ⁽¹⁾ Without V grooves, for manual use only

C-ER

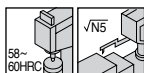
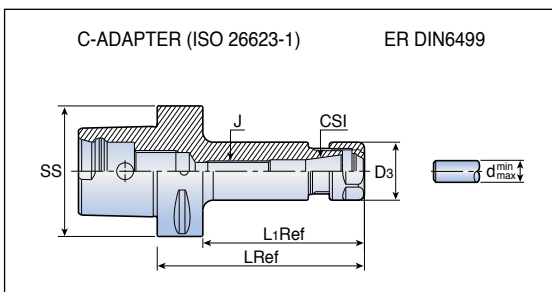
ER collet chuck



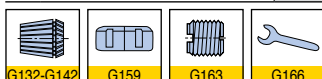
Designation	Dimension (mm)							
	SS	CSI	dmin	dmax	D3	L	L1	J
C8 ER 32x70	80	ER32	2.0	20.0	50	70	40	-
ER 32x100	80	ER32	2.0	20.0	50	100	70	M22x1.5
ER 32x160	80	ER32	2.0	20.0	50	160	130	M22x1.5
ER 40x70	80	ER40	3.0	26.0	63	70	40	-
ER 40x100	80	ER40	3.0	26.0	63	100	70	M28x1.5
ER 40x160	80	ER40	3.0	26.0	63	160	130	M28x1.5

C-ER-M

ER collet chucks mini type

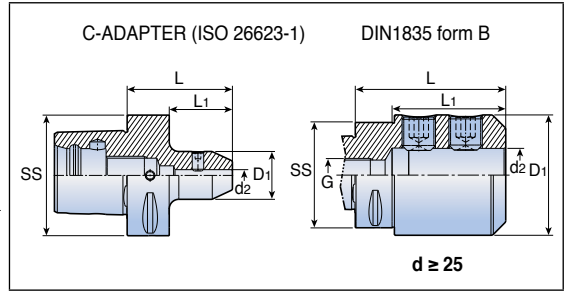
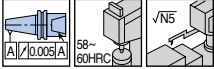


Designation	Dimension (mm)							
	SS	CSI	dmin	dmax	D3	L	L1	J
C4 ER 16x70 M	40	ER16	0.5	10.0	22	70	50	M10
C5 ER 16x100 M	50	ER16	0.5	10.0	22	100	80	M10
ER 16x130 M	50	ER16	0.5	10.0	22	130	120	M10
C6 ER 16x100 M	63	ER16	0.5	10.0	22	100	78	M10
ER 16x130 M	63	ER16	0.5	10.0	22	130	108	M10
ER 16x160 M	63	ER16	0.5	10.0	22	160	138	M10



C-EM

End mill holder

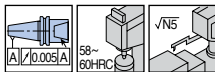
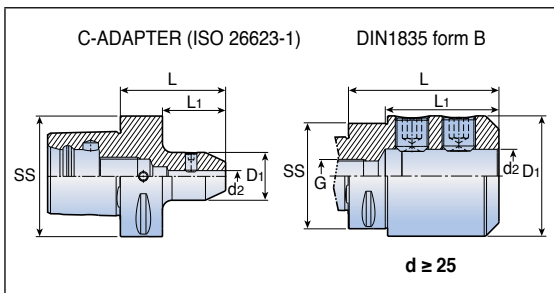


Designation	Dimension (mm)					
	SS	d2	D1	L	L1	G
C4 EM 6x50	40	6	25	50	30	M14
EM 8x50	40	8	28	50	30	M14
EM 10x50	40	10	35	50	30	M14
EM 12x55	40	12	42	55	35	M14
EM 14x55	40	14	44	55	35	M14
EM 16x60	40	16	48	60	40	M14
C5 EM 6x50	50	6	25	50	30	M16
EM 8x50	50	8	28	50	30	M16
EM 10x55	50	10	35	55	35	M16
EM 12x60	50	12	42	60	40	M16
EM 14x60	50	14	44	60	40	M16
EM 16x60	50	16	48	60	40	M16
EM 18x60	50	18	50	60	40	M16
EM 20x60	50	20	52	60	40	M16
EM 25x85	50	25	65	85	65	M16
C6 EM 6x55	63	6	25	55	33	M20
EM 8x55	63	8	28	55	33	M20
EM 10x60	63	10	35	60	38	M20
EM 12x60	63	12	42	60	38	M20
EM 14x60	63	14	44	60	38	M20
EM 16x65	63	16	48	65	43	M20
EM 18x65	63	18	50	65	43	M20
EM 20x65	63	20	52	65	43	M20
EM 25x80	63	25	65	80	58	M20
EM 32x90	63	32	72	90	68	M20
EM 40x100	63	40	90	100	78	M20



C-EM

End mill holder

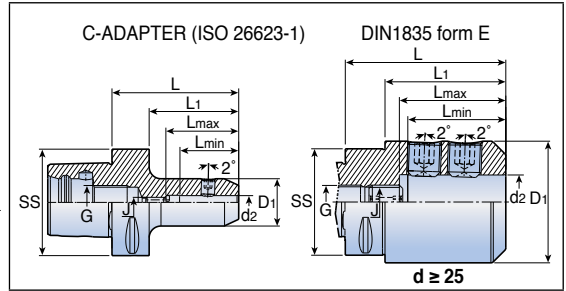
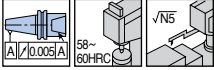


Designation	Dimension (mm)					
	SS	d2	D1	L	L1	G
C8 EM 6x70	80	6	25	70	40	M20
EM 8x70	80	8	28	70	40	M20
EM 10x70	80	10	35	70	40	M20
EM 12x70	80	12	42	70	40	M20
EM 14x70	80	14	44	70	40	M20
EM 16x70	80	16	48	70	40	M20
EM 18x70	80	18	50	70	40	M20
EM 20x70	80	20	52	70	40	M20
EM 25x90	80	25	65	90	60	M20
EM 32x95	80	32	72	95	65	M20
EM 40x110	80	40	90	110	80	M20
EM 50x120	80	50	98	120	90	M20



C-EM-E

End mill holder - Whistle notch type

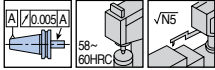
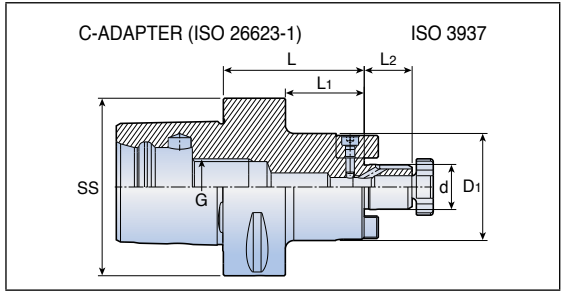


Designation	Dimension (mm)								
	SS	d2	D1	L	Lmin	Lmax	L1	G	J
C4 EM 6x70 E	40	6	25	70	30	35	50	M14	M5
EM 8x70 E	40	8	28	70	35	43	50	M14	M6
EM 10x70 E	40	10	35	70	39	45	50	M14	M8
EM 12x75 E	40	12	42	75	44	49	55	M14	M10
EM 14x75 E	40	14	44	75	44	49	55	M14	M10
EM 6x70 E	40	6	25	70	30	35	50	M16	M5
C5 EM 8x70 E	50	8	28	70	35	43	50	M16	M6
EM 10x70 E	50	10	35	70	39	45	50	M16	M8
EM 12x75 E	50	12	42	75	44	49	55	M16	M10
EM 14x75 E	50	14	44	75	44	49	55	M16	M10
EM 16x80 E	50	16	48	80	47	52	60	M16	M12
EM 18x80 E	50	18	50	80	47	52	60	M16	M12
EM 20x85 E	50	20	52	85	49	55	65	M16	M16
C6 EM 6x75 E	63	6	25	75	30	36	53	M20	M5
EM 8x75 E	63	8	28	75	35	43	53	M20	M6
EM 10x75 E	63	10	35	75	39	46	53	M20	M8
EM 12x80 E	63	12	42	80	44	49	58	M20	M10
EM 14x80 E	63	14	44	80	44	49	58	M20	M10
EM 16x85 E	63	16	48	85	47	52	63	M20	M12
EM 18x85 E	63	18	50	85	47	52	63	M20	M12
EM 20x85 E	63	20	52	85	49	55	63	M20	M16
EM 25x90 E	63	25	65	90	54	60	68	M20	M20
EM 32x95 E	63	32	72	95	58	63	73	M20	M20
C8 EM 6x65 E	80	6	25	65	30	36	35	M20	M5
EM 8x65 E	80	8	28	65	35	43	35	M20	M6
EM 10x65 E	80	10	35	65	39	46	35	M20	M8
EM 12x70 E	80	12	42	70	44	49	40	M20	M10
EM 14x70 E	80	14	44	70	44	49	40	M20	M10
EM 16x75 E	80	16	48	75	47	52	45	M20	M12
EM 18x75 E	80	18	50	75	47	52	45	M20	M12
EM 20x80 E	80	20	52	80	49	57	50	M20	M16
EM 25x90 E	80	25	65	90	54	60	60	M20	M20
EM 32x95 E	80	32	72	95	58	64	65	M20	M20

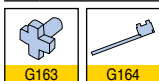


C-SEM-C

Face mill arbor

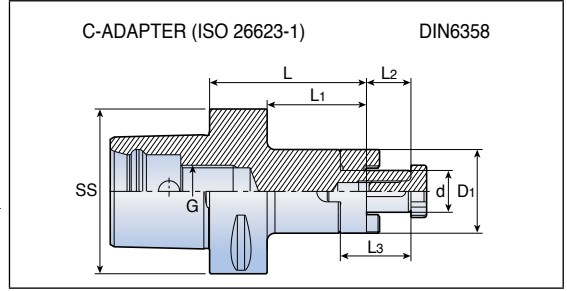
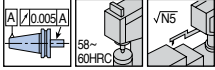


Designation	Dimension (mm)						
	SS	d	D1	L	L1	L2	G
C4 SEM 16x32 C	40	16	38	32	12	17	M14
SEM 16x55 C	40	16	38	55	35	17	M14
SEM 22x40 C	40	22	47	40	20	19	M14
SEM 22x55 C	40	22	47	55	35	19	M14
C5 SEM 16x35 C	50	16	38	35	15	17	M16
SEM 16x70 C	50	16	38	70	50	17	M16
SEM 22x35 C	50	22	47	35	15	19	M16
SEM 22x70 C	50	22	47	70	50	19	M16
SEM 27x40 C	50	27	58	40	20	21	M16
SEM 32x40 C	50	32	63	40	20	24	M16
C6 SEM 16x50 C	63	16	38	50	28	17	M20
SEM 16x100 C	63	16	38	100	78	17	M20
SEM 22x50 C	63	22	47	50	28	19	M20
SEM 22x100 C	63	22	47	100	78	19	M20
SEM 27x60 C	63	27	58	60	38	21	M20
SEM 27x100 C	63	27	58	100	78	21	M20
SEM 32x60 C	63	32	66	60	38	24	M20
SEM 40x60 C	63	40	82	60	38	27	M20
C8 SEM 16x50 C	80	16	38	50	20	17	M20
SEM 16x100 C	80	16	38	100	70	17	M20
SEM 22x50 C	80	22	47	50	20	19	M20
SEM 22x100 C	80	22	47	100	70	19	M20
SEM 27x50 C	80	27	58	50	20	21	M20
SEM 27x100 C	80	27	58	100	70	21	M20
SEM 32x50 C	80	32	66	50	20	24	M20
SEM 32x100 C	80	32	66	100	70	24	M20
SEM 40x60 C	80	40	82	60	30	27	M20



C-SEMC

Combi shell mill arbor



Designation	Dimension (mm)							
	SS	d	D1	L	L1	L2	L3	G
C4 SEMC 16x45	40	16	32	45	25	17	27	M14
SEMC 22x45	40	22	40	45	25	19	31	M14
SEMC 27x50	40	27	48	50	30	21	33	M14
C5 SEMC 16x55	50	16	32	55	35	17	27	M16
SEMC 16x85	50	16	32	85	65	17	27	M16
SEMC 22x65	50	22	40	65	45	19	31	M16
SEMC 27x85	50	27	48	85	65	21	33	M16
C6 SEMC 16x60	63	16	32	60	38	17	27	M20
SEMC 16x100	63	16	32	100	78	17	27	M20
SEMC 22x60	63	22	40	60	38	19	31	M20
SEMC 22x100	63	22	40	100	78	19	31	M20
SEMC 27x60	63	27	48	60	38	21	33	M20
SEMC 27x100	63	27	48	100	78	21	33	M20
SEMC 32x60	63	32	58	60	38	24	38	M20
SEMC 40x70	63	40	70	70	48	27	41	M20

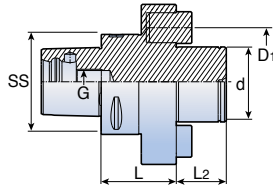
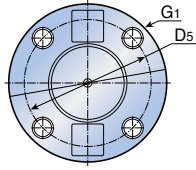
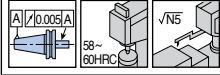


C-FM

Face mill arbor

C-ADAPTER (ISO 26623-1)

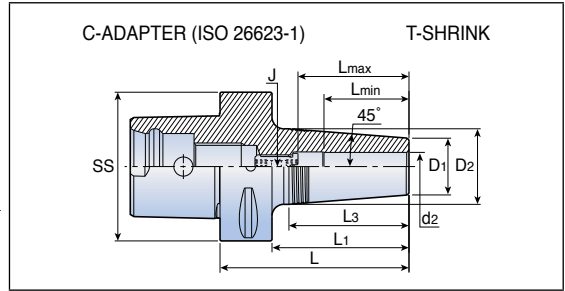
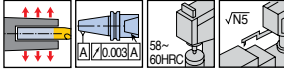
DIN6357



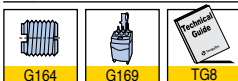
Designation	Dimension (mm)							
	SS	d	D1	D5	L	L2	G1	G
C8 FM 60x60	80	60	128	101.6	20	40	M16	M20

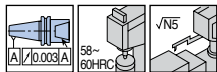
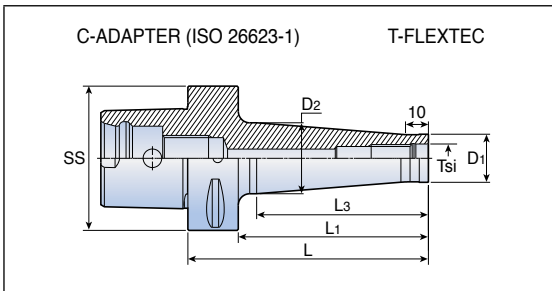


Thermal shrinking chuck



Designation	Dimension (mm)										
	SS	d2	D1	D2	L	Lmin	Lmax	L1	L3	J	Hex key
C4 SRKIN 6x75	40	6	21	27	75	25	36	55	38.1	M5	2.5
SRKIN 8x75	40	8	21	27	75	25	36	55	38.1	M6	3.0
SRKIN 10x75	40	10	24	32	75	31	42	55	50.8	M8	4.0
SRKIN 12x75	40	12	24	32	75	36	47	55	50.8	M10	5.0
SRKIN 14x80	40	14	27	34	80	36	47	60	44.5	M10	5.0
SRKIN 16x80	40	16	27	34	80	39	50	60	44.5	M12	6.0
SRKIN 18x80	40	18	33	42	80	39	50	60	57.2	M12	6.0
SRKIN 20x85	40	20	33	42	85	41	52	65	57.2	M16	8.0
C5 SRKIN 6x75	50	6	21	27	75	25	36	55	38.1	M5	2.5
SRKIN 8x75	50	8	21	27	75	25	36	55	38.1	M6	3.0
SRKIN 10x75	50	10	24	32	75	31	42	55	50.8	M8	4.0
SRKIN 12x75	50	12	24	32	75	36	47	55	50.8	M10	5.0
SRKIN 14x80	50	14	27	34	80	36	47	60	44.5	M10	5.0
SRKIN 16x80	50	16	27	34	80	39	50	60	44.5	M12	6.0
SRKIN 18x80	50	18	33	42	80	39	50	60	57.2	M12	6.0
SRKIN 20x85	50	20	33	42	85	41	52	65	57.2	M16	8.0
SRKIN 25x90	50	25	44	53	90	47	58	70	57.2	M16	8.0
C6 SRKIN 6x80	63	6	21	27	80	25	36	58	38.1	M5	2.5
SRKIN 8x80	63	8	21	27	80	25	36	58	38.1	M6	3.0
SRKIN 10x80	63	10	24	32	80	31	42	58	50.8	M8	4.0
SRKIN 12x80	63	12	24	32	80	36	47	58	50.8	M10	5.0
SRKIN 14x85	63	14	27	34	85	36	47	63	44.5	M10	5.0
SRKIN 16x85	63	16	27	34	85	39	50	63	44.5	M12	6.0
SRKIN 18x85	63	18	33	42	85	39	50	63	57.2	M12	6.0
SRKIN 20x85	63	20	33	42	85	41	52	63	57.2	M16	8.0
SRKIN 25x90	63	25	44	53	90	47	58	68	57.2	M16	8.0
SRKIN 32x95	63	32	44	53	95	47	58	73	57.2	M16	8.0

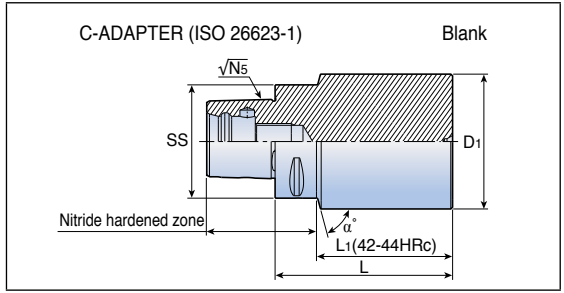




Designation	Dimension (mm)						
	SS	Tsi	D1	D2	L	L1	L3
C4 ODP 10x53	40	M10	18	23.0	53	33	23
ODP 12x53	40	M12	21	26.0	53	33	23
ODP 16x53	40	M16	29	34.0	53	33	23
C5 ODP 10x53	50	M10	18	19.5	53	33	25
ODP 10x103	50	M10	18	28.0	103	83	75
ODP 12x53	50	M12	21	23.5	53	33	25
ODP 12x103	50	M12	21	31.0	103	83	75
ODP 16x53	50	M16	29	29.5	53	33	25
ODP 16x103	50	M16	29	36.0	103	83	75
C6 ODP 10x55	63	M10	18	19.5	55	33	25
ODP 10x105	63	M10	18	28.0	105	83	75
ODP 10x130	63	M10	18	32.0	130	108	100
ODP 12x55	63	M12	21	23.5	55	33	25
ODP 12x105	63	M12	21	31.0	105	83	75
ODP 12x130	63	M12	21	36.0	130	108	100
ODP 16x55	63	M16	29	34.0	55	33	25
ODP 16x105	63	M16	29	34.0	105	83	75
ODP 16x130	63	M16	29	41.0	130	108	100

C-B4340

Blank



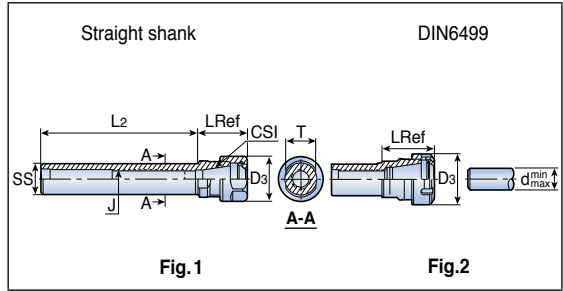
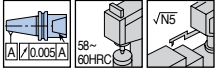
Designation	Dimension (mm)				
	SS	D1	L	L1	α°
C4 B4340 040095	40	40	95	75	-
B4340 060165	40	60	165	144	75
B4340 080075	40	80	75	54	75
B4340 100085	40	100	85	64	75
C5 B4340 050125	50	50	125	105	-
B4340 075175	50	75	175	154	90
B4340 090080	50	90	80	59	75
B4340 110090	50	110	90	69	75
C6 B4340 075195	63	75	195	172	75
B4340 110085	63	110	85	62	75
B4340 130095	63	130	95	72	75
B4340 120180	63	120	180	157	90
C8 B4340 080200	80	80	200	170	90
B4340 120160	80	120	160	129	90
B4340 130090	80	130	90	59	90
B4340 145200	80	145	200	169	90

Straight & Morse Taper Shank

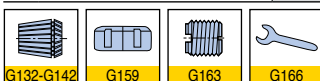


ST-ER-F

ER collet chuck



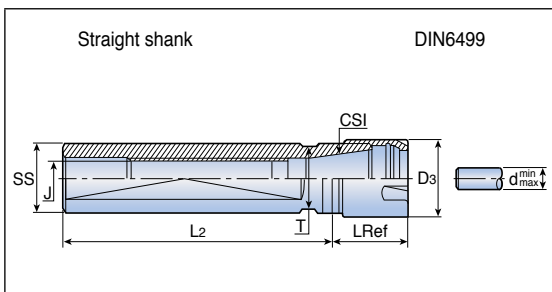
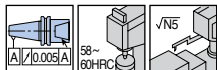
Designation	Dimension (mm)									Fig.
	SS	CSI	dmin	dmax	D3	L	L2	J	T	
ST 16x50 ER11 F	16	ER11	0.5	7.0	19	18.5	50	M8	13	1
20x50 ER11 F	20	ER11	0.5	7.0	19	18.5	50	M10	17	1
20x100 ER11	20	ER11	0.5	7.0	19	18.5	100	M10	17	1
20x100 ER11 F	20	ER11	0.5	7.0	19	18.5	100	M10	17	1
20x150 ER11	20	ER11	0.5	7.0	19	18.5	150	M10	17	1
20x50 ER16 F	20	ER16	0.5	10.0	28	32.3	50	M12	19	1
20x100 ER16	20	ER16	0.5	10.0	28	30.0	100	M12	19	1
20x100 ER16 F	20	ER16	0.5	10.0	28	30.0	100	M12	19	1
20x150 ER16	20	ER16	0.5	10.0	28	30.0	150	M12	19	1
20x50 ER20 F	20	ER20	1.0	13.0	34	42.5	50	M12	22	1
25x100 ER20	25	ER20	1.0	13.0	34	36.0	100	M16	22	1
25x150 ER20	25	ER20	1.0	13.0	34	36.0	150	M16	22	1
20x50 ER25 F	20	ER25	1.0	16.0	42	46.0	50	M12	28	2
20x100 ER25	20	ER25	1.0	16.0	42	46.0	100	M12	28	2
20x100 ER25 F	20	ER25	1.0	16.0	42	46.0	100	M12	28	2
25x50 ER25 F	25	ER25	1.0	16.0	42	46.0	50	M16	28	2
25x100 ER25	25	ER25	1.0	16.0	42	46.0	100	M16	28	2
20x50 ER32 F	20	ER32	2.0	20.0	50	54.0	50	M12	36	2
20x100 ER32	20	ER32	2.0	20.0	50	54.0	100	M12	36	2
20x100 ER32 F	20	ER32	2.0	20.0	50	54.0	100	M12	36	2
25x50 ER32 F	25	ER32	2.0	20.0	50	52.0	50	M16x2	36	2
30x50 ER32 F	30	ER32	2.0	20.0	50	52.0	50	M18x1.5	36	2
32x50 ER32 F	32	ER32	2.0	20.0	50	52.0	50	M18x1.5	36	2
32x150 ER32	32	ER32	2.0	20.0	50	52.0	150	M18x1.5	36	2
40x75 ER32 F	40	ER32	2.0	20.0	50	46.0	75	M22x1.5	44	2
25x50 ER40 F	25	ER40	3.0	26.0	63	60.0	50	M16x2	45	2
30x50 ER40 F	32	ER40	3.0	26.0	63	60.0	50	M18x1.5	45	2
32x50 ER40 F	32	ER40	3.0	26.0	63	60.0	50	M18x1.5	45	2
40x75 ER40 F	40	ER40	3.0	26.0	63	55.0	75	M22x1.5	45	2
50x80 ER40 F	50	ER40	3.0	26.0	63	60.0	80	M28x1.5	54	2
50x80 ER50 F	50	ER50	10.0	34.0	78	77.0	80	M36x1.5	58	2



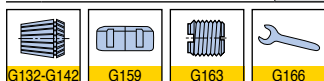
• F: Flat on the shank

ST-ER-MF

Straight shank - Mini collet



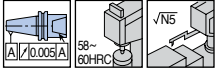
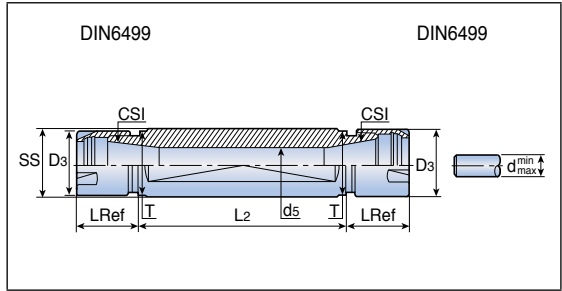
Designation	Dimension (mm)								
	SS	CSI	dmin	dmax	D3	L	L2	J	T
ST 16x38 ER11 MF	ER11	16	0.5	7.0	16	18.5	38	M8x1	14
16x50 ER11 MF	ER11	16	0.5	7.0	16	18.5	50	M8x1	13
16x140 ER11 MF	ER11	16	0.5	7.0	16	18.5	140	M8x1	14
16x35 ER16 MF	ER16	16	0.5	10.0	22	36.0	35	M8x1	17
20x50 ER16 MF	ER16	20	0.5	10.0	22	26.0	50	M12x1	17
20x70 ER16 MF	ER16	20	0.5	10.0	22	26.0	70	M12x1	17
20x120 ER16 MF	ER16	20	0.5	10.0	22	26.0	120	M12x1	17
20x140 ER16 MF	ER16	20	0.5	10.0	22	26.0	140	M12x1	17
22x38 ER16 MF	ER16	22	0.5	10.0	22	26.0	38	M12x1	19
22x70 ER16 MF	ER16	22	0.5	10.0	22	26.0	70	M12x1	19
22x100 ER16 MF	ER16	22	0.5	10.0	22	28.0	100	M12x1	19
25x65 ER16 MF	ER16	25	0.5	10.0	22	28.0	65	M14x1	22
22x80 ER20 MF	ER20	22	1.0	13.0	28	39.0	80	M12x1	21
25x100 ER20 MF	ER20	25	1.0	13.0	28	28.0	100	M14x1	22
25x154 ER20 MF	ER20	25	1.0	13.0	28	28.0	154	M14x1	22
22x70 ER25 MF	ER25	22	1.0	16.0	35	47.0	70	M12x1	27
25x75 ER25 MF	ER25	25	1.0	16.0	35	48.0	75	M14x1	27
25x145 ER25 MF	ER25	25	1.0	16.0	35	36.0	145	M14x1	27
32x70 ER25 MF	ER25	32	1.0	16.0	35	30.0	70	M18x1	27



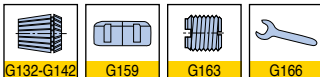
• MF: Mini flat shank

ST-ER-MF-D

Straight shank - Double mini collet



Designation	Dimension (mm)								
	SS	CSI	d _{min}	d _{max}	d ₅	D ₃	L	L ₂	T
ST 16x50 ER11 MF D	16	ER11	0.5	7.0	7.5	16	18.5	50	14
20x30 ER11 MF D	20	ER11	0.5	7.0	7.5	16	18.5	30	17
20x50 ER11 MF D	20	ER11	0.5	7.0	7.5	16	18.5	50	17
20x55 ER16 MF D	20	ER16	0.5	10.0	10.5	22	25.0	55	17
22x55 ER16 MF D	22	ER16	0.5	10.0	10.5	22	28.0	55	19
22x75 ER16 MF D	22	ER16	0.5	10.0	10.5	22	28.0	75	19
25x62 ER16 MF D	25	ER16	0.5	10.0	10.5	22	28.0	62	22
32x55 ER20 MF D	32	ER20	1.0	13.0	13.5	28	28.0	55	27
32x75 ER20 MF D	32	ER20	1.0	13.0	13.5	28	28.0	75	27



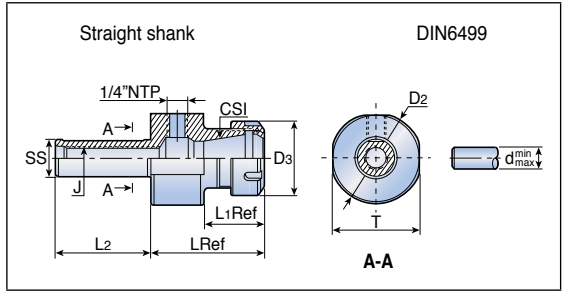
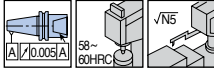
• MF D: Mini flat double

Contents

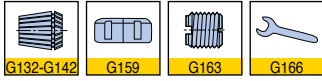
TaeguTec

ST-ER-S

Straight shank - Internal coolant

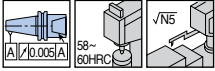
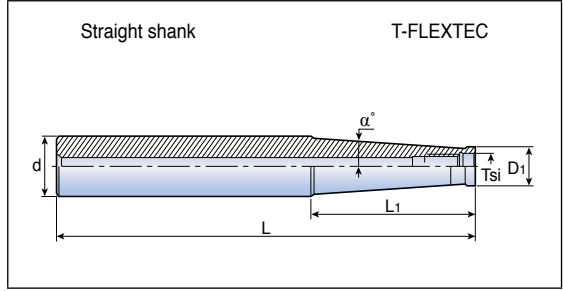


Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D2	D3	L	L1	L2	J	T
ST 20x65 ER16 S	20	ER16	0.5	10.0	40	28	54	29.6	65	M12	34
20x65 ER20 S	20	ER20	1.0	13.0	40	34	63	31.0	65	M12	34
20x65 ER25 S	20	ER25	1.0	16.0	54	42	72	32.0	65	M12	51
20x65 ER32 S	20	ER32	2.0	20.0	63	50	77	41.0	65	M12	59
25x65 ER25 S	25	ER25	1.0	16.0	54	42	72	32.0	65	M12	50
25x65 ER32 S	25	ER32	2.0	20.0	63	50	77	41.0	65	M16	59
32x65 ER32 S	32	ER32	2.0	20.0	63	50	77	41.0	65	M18x1.5	59
40x75 ER32 S	40	ER32	2.0	20.0	63	50	77	41.0	75	M22x1.5	59



Contents

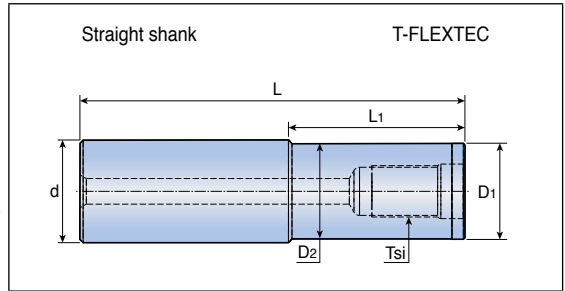
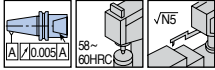
Straight shanks



Designation	Dimension (mm)						Shank type
	Tsi	d	D ₁	L	L ₁	α°	
S M06 - L60 C10	M6	10	9.7	60	20.0	-	C
L105-C12	M6	12	9.7	105	60.0	1.2	C
L125-C16	M6	16	9.7	125	60.0	3.3	C
S M08 - L73 C16	M8	16	13.0	73	25.0	-	C
L128-C16	M8	16	13.0	128	80.0	0.9	C
L170-C20	M8	20	13.0	170	66.8	3.3	C
S M10 - L80 C20	M10	20	18.0	80	30.0	-	C
L130-C20	M10	20	18.0	130	80.0	0.6	C
L200-C25	M10	25	19.0	200	57.2	3.3	C
S M12 - L86-C25	M12	25	21.0	86	30.0	5.1	C
L200-C32	M12	32	21.0	200	78.0	4.4	C
S M16 - L95-C32	M16	32	29.0	95	35.0	1.7	C
L230-C32	M16	32	29.0	230	50.0	1.8	C

• All shanks have coolant holes

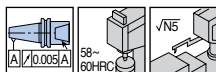
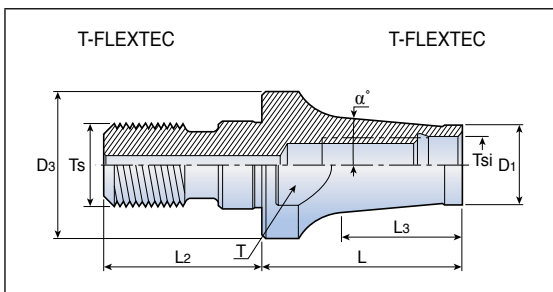
Carbide T-FLEXTEC shank with internal coolant hole



Designation	Dimension (mm)					
	Tsi	d	D1	D2	L	L1
S M08-CT16 - 20-L80	M8	16	13	12.5	80	20
40-L100	M8	16	13	12.5	100	40
80-L150	M8	16	13	12.5	150	80
100-L200	M8	16	13	12.5	200	100
140-L200	M8	16	13	12.5	200	140
180-L250	M8	16	13	12.5	250	180
S M10-CT20 - 20-L80	M10	20	18	17.5	80	20
40-L100	M10	20	18	17.5	100	40
80-L150	M10	20	18	17.5	150	80
100-L200	M10	20	18	17.5	200	100
140-L200	M10	20	18	17.5	200	140
130-L250	M10	20	18	17.5	250	130
180-L250	M10	20	18	17.5	250	180
180-L300	M10	20	18	17.5	300	180
230-L300	M10	20	18	17.5	300	230
S M12-CT25 - 40-L100	M12	25	21	20.5	100	40
80-L150	M12	25	21	20.5	150	80
100-L200	M12	25	21	20.5	200	100
140-L200	M12	25	21	20.5	200	140
130-L250	M12	25	21	20.5	250	130
180-L250	M12	25	21	20.5	250	180
180-L300	M12	25	21	20.5	300	180
230-L300	M12	25	21	20.5	300	230
S M16-CT32 - 40-L100	M16	32	29	28.0	100	40
80-L150	M16	32	29	28.0	150	80
100-L200	M16	32	29	28.0	200	100
140-L200	M16	32	29	28.0	200	140
130-L250	M16	32	29	28.0	250	130
180-L250	M16	32	29	28.0	250	180
180-L300	M16	32	29	28.0	300	180
230-L300	M16	32	29	28.0	300	230
230-L350	M16	32	29	28.0	350	230
280-L350	M16	32	29	28.0	350	280

• All shanks have coolant holes

Reducers

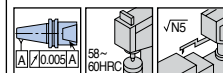
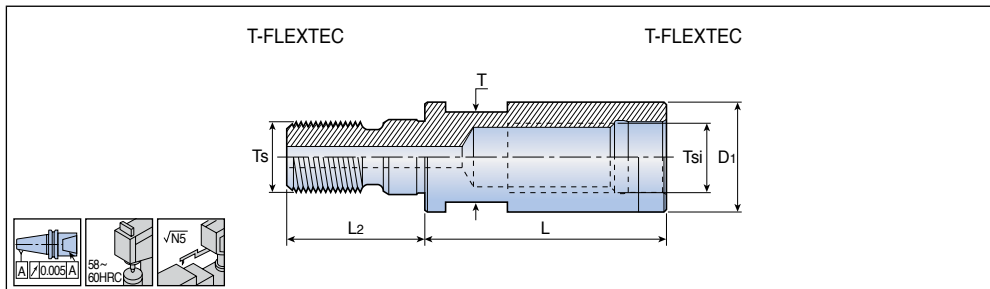


Designation	Dimension (mm)								
	Ts1	Ts	D1	D3	L	L2	L3	T	α°
CAB M06M08	M6	M8	9.7	13	30	17.5	24.8	9.5	5.7
M08M10	M8	M10	13.0	18	40	20.0	33.4	15.0	5.2
M10M12	M10	M12	18.0	21	45	22.0	36.4	17.0	2.5
M12M16	M12	M16	21.0	29	50	25.0	42.5	25.0	6.3

- With coolant holes

CAB M-M-C

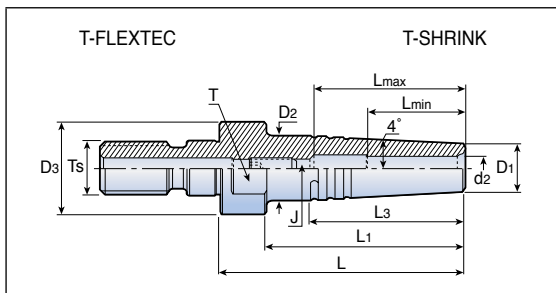
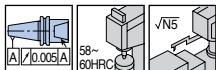
Extensions



Designation	Dimension (mm)					
	Ts1	Ts	D1	L	L2	T
CAB M08M08-C	M8	M8	13	30	17.5	9.6
M10M10-C	M10	M10	18	35	20.0	15.0
M12M12-C	M12	M12	21	40	22.0	17.0
M16M16-C	M16	M16	29	40	25.0	25.0

- With coolant holes

Adapter with SRK T-SHRINK



Designation	Dimension (mm)													
	Ts	d2	D1	D2	D3	L	Lmin	Lmax	L1	L3	J	T	Hex key	
CDP M10 SRK 3x40	M10	3	10	14	18	40	10	16	31.5	28.4	M4	15	2.0	
	SRK 4x40	M10	4	10	14	18	40	12	19	31.5	28.4	M4	15	2.0
	SRK 5x40	M10	5	10	14	18	40	15	25	31.5	28.4	M4	15	2.0
CDP M12 SRK 3x45	M12	3	10	14	21	45	10	16	36.5	28.8	M5	18	2.5	
	SRK 4x45	M12	4	10	14	21	45	12	18	36.5	28.8	M5	18	2.5
	SRK 5x45	M12	5	10	14	21	45	15	25	36.5	28.8	M5	18	2.5
	SRK 6x45	M12	6	11	15	21	45	18	28	36.5	28.4	M5	18	2.5
	SRK 8x45	M12	8	14	18	21	45	25	35	36.5	28.8	M5	18	2.5
	SRK 10x45	M12	10	16	21	21	45	30	40	-	35.6	M5	18	2.5
	SRK 12x45	M12	12	20	25	21	45	32	42	-	36.0	M5	18	2.5

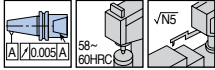
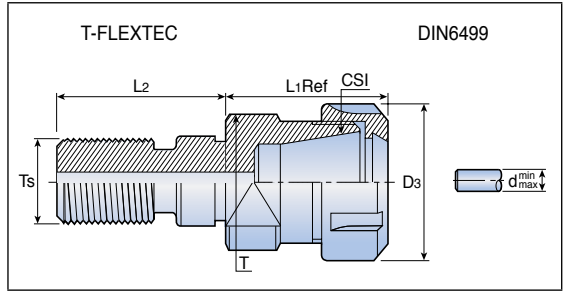


• With coolant holes

CDP-ER-M

T-FLEXTEC

Adapter with ER collet chuck



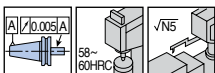
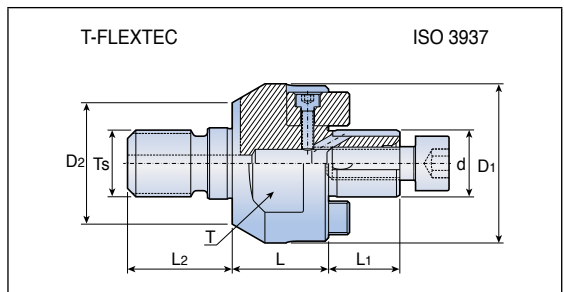
Designation	Dimension (mm)								
	CSI	Ts	dmin	dmax	D3	L1	L2	T	
CDP ER11 M10 M	ER11	M10	0.5	7.0	16	27.0	20	15	
ER11 M12 M	ER11	M12	0.5	7.0	16	27.0	22	17	
ER16 M10 M	ER16	M10	0.5	10.0	22	38.1	20	17	
ER16 M12 M	ER16	M12	0.5	10.0	22	37.1	22	17	
ER16 M16	ER16	M16	0.5	10.0	28	36.6	25	25	
ER20 M16	ER20	M16	1.0	13.0	34	45.5	25	25	
ER25 M16	ER25	M16	1.0	16.0	42	44.5	25	28	

- With coolant holes

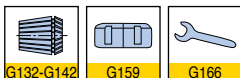
CAB M-SEM-C

T-FLEXTEC

Shell mill arbor



Designation	Dimension (mm)								
	Ts	d	D1	D2	L	L1	L2	T	
CAB M16 SEM 16C	M16	16	38	29	23	17	2	30	

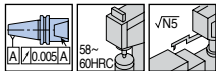
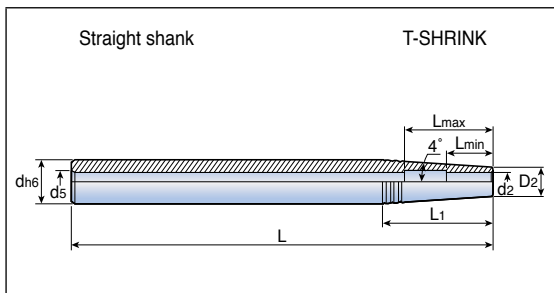


- With coolant holes

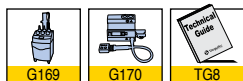
Contents

TaeguTec

Straight shank with thermal chuck

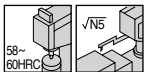
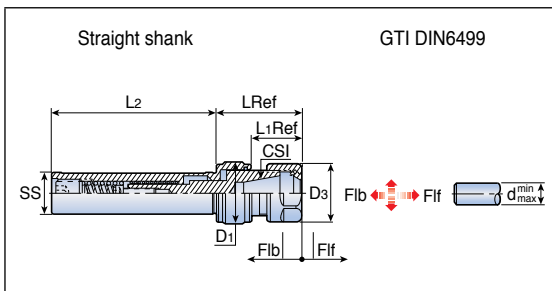


Designation	Dimension (mm)							
	d	d2	d5	D2	L	Lmin	Lmax	L1
ST 12x160 SRK3	12	3	4	10	160	10	-	14.3
12x160 SRK4	12	4	4	10	160	12	27	14.3
16x160 SRK3	16	3	6	10	160	10	-	43.0
16x160 SRK4	16	4	6	10	160	12	-	43.0
16x160 SRK5	16	5	6	10	160	15	-	43.0
16x160 SRK6	16	6	6	11	160	18	35	35.5
10x200 SRK5	10	5	6	10	200	15	-	71.5
10x200 SRK6	10	6	6	11	200	18	40	64.5
10x200 SRK8	10	8	6	14	200	25	40	43.0
15x200 SRK6	15	6	8	11	200	18	35	100.0
15x200 SRK8	15	8	8	14	200	25	40	78.6
15x200 SRK10	15	10	8	16	200	30	50	64.3
15x200 SRK12	15	12	8	20	200	32	52	35.7



GTI ER-ST

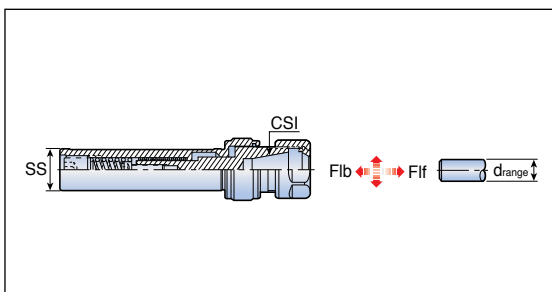
GTI tap attachment



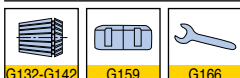
Designation	Dimension (mm)												
	SS	CSI	Tap _{min}	Tap _{max}	d _{min}	d _{max}	D ₁	D ₃	L	L ₁	L ₂	Fl _f	Fl _b
GTI ER11 ST16x150 M	ST16	ER11	M2	M7	0.5	7.0	-	16	-	19.0	150	6	3
ER16 ST20x80	ST20	ER16	M3	M10	0.5	10.0	29.5	28	41.6	24.6	80	8	3
ER20 ST20x80	ST20	ER20	M4	M14	1.0	13.0	33.5	34	49.0	28.0	80	8	3
ER25 ST25x80	ST25	ER25	M5	M16	1.0	16.0	40.5	42	53.0	32.0	80	9	4
ER32 ST25x80	ST25	ER32	M6	M20	1.0	16.0	56.5	50	77.2	32.0	80	9	4
ER40 ST32x80	ST32	ER40	M6	M27	2.0	20.0	56.5	63	95.2	51.0	80	9	4

KIT GTI ER-ST

GTI tap attachment



Designation	Dimension (mm)		
	SS	CSI	d _{range}
KIT GTI ER11 ST16x150 4M	ST16	ER11	3, 4, 5, 6
ER16 ST20x80 4	ST20	ER16	4, 5, 6, 7
ER20 ST20x80 4	ST20	ER20	5, 6, 8, 9
ER25 ST25x80 5	ST25	ER25	6, 7, 9, 11, 12
ER32 ST25x80 6	ST25	ER32	6, 7, 9, 11, 12, 16
ER40 ST32x80 6	ST32	ER40	9, 11, 14, 16, 18, 20

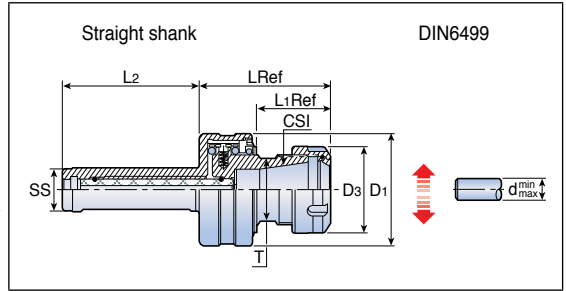
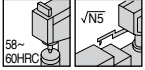


• GTI, collet, wrench included

Contents

GFI ST-ER

GFI floating reamer ER collet chuck

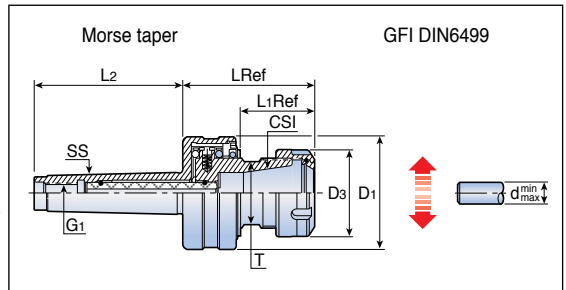
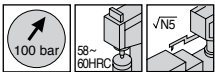


Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D1	D3	L	L1	L2	Radial float	T
GFI ST20 ER20	20	ER20	1.0	13.0	50	34	55.5	34.5	65	1.0	22
ST25 ER32	25	ER32	2.0	20.0	65	50	76.9	45.9	80	1.6	36

• Max. 2,000RPM

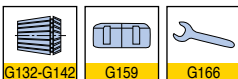
GFI MT-ER

Morse taper GFI reamer holder



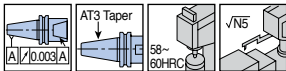
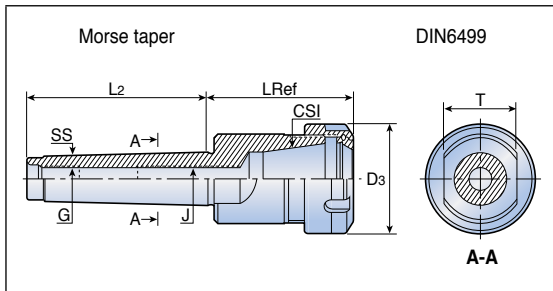
Designation	Dimension (mm)											
	SS	CSI	dmin	dmax	D1	D3	L	L1	L2	G1	Radial float	T
GFI MT2 ER20	2	ER20	1.0	13.0	50	34	60.5	34.5	64	M10	1.0	22
MT3 ER32	3	ER32	2.0	20.0	65	50	81.9	45.9	81	M12	1.6	36

• Max. 2,000RPM



MT-ER

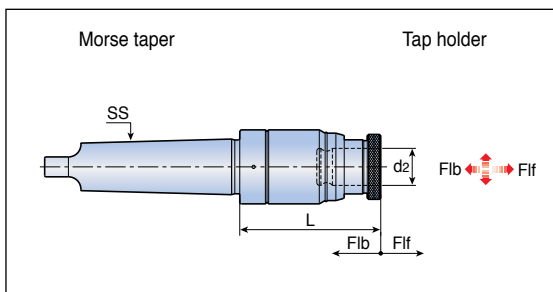
Morse taper collet chuck



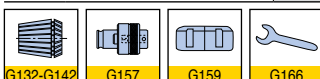
Designation	Dimension (mm)									
	SS	CSI	dmin	dmax	D3	L	L2	G	J	T
MT2 ER 20x48.5	2	ER20	1.0	13.0	34	48.5	64.0	M10	M10	22
ER 25x52	2	ER25	1.0	16.0	42	52.0	64.0	M10	M10	28
MT3 ER 32x69	3	ER32	2.0	20.0	50	69.0	81.0	M12	M12	24
ER 40x79	3	ER40	3.0	26.0	63	79.0	81.0	M12	M12	24
MT4 ER 32x61	4	ER32	2.0	20.0	50	60.5	102.5	M16	M16	32
ER 40x82	4	ER40	3.0	26.0	63	81.5	102.5	M16	M16	32
ER 50x108	4	ER50	10.0	34.0	78	107.5	102.5	M16	M16	32
MT5 ER 40x82	5	ER40	3.0	26.0	63	82.0	129.5	M20	M28x1.5	45
ER 50x85	5	ER50	10.0	34.0	78	85.0	129.5	M20	M28x1.5	45

MTA-TC

Tap holder - MTA

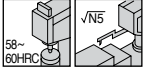
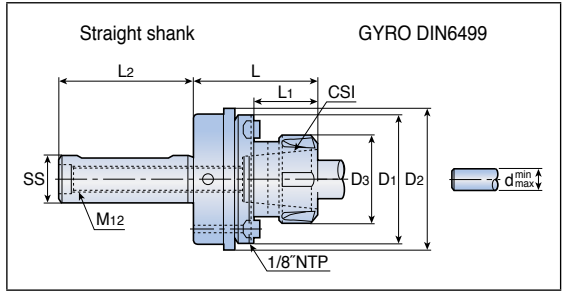


Designation	Dimension (mm)							
	SS	Tapmin	Tapmax	d2	L	Flb	Flf	Tap adapter
MTA3 TC12-90	12	M3	M12	19	90	6.5	12	TA1
TC22-115	22	M6	M24	31	115	14.5	13	TA2
MTA4 TC12-105	12	M3	M12	19	105	6.5	12	TA1
TC22-115	22	M6	M24	31	115	14.5	13	TA2
MTA5 TC12-145	12	M3	M12	19	145	6.5	12	TA1
TC22-175	22	M6	M24	31	175	14.5	13	TA2



GYRO ST-ER

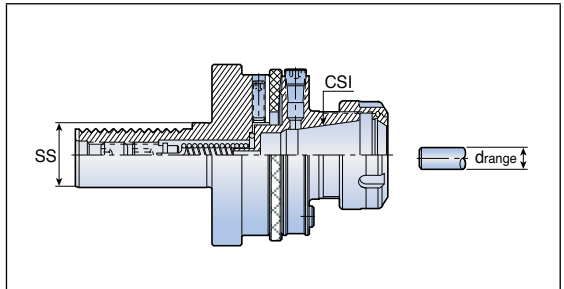
GYRO center alignment ER collet chuck



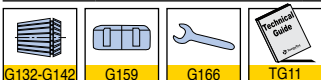
Designation	Dimension (mm)									
	SS	CSI	d _{min}	d _{max}	D ₁	D ₂	D ₃	L	L ₁	L ₂
GYRO ST20 ER20	20	ER20	1.0	13.0	57	63	34	58.80	28.5	80
ST25 ER25	25	ER25	1.0	16.0	74	79	42	65.65	35.5	80
ST25 ER32	25	ER32	2.0	20.0	74	79	50	66.65	36.5	80
ST32 ER32	32	ER32	2.0	20.0	74	79	50	66.65	36.5	80
ST40 ER32	40	ER32	2.0	20.0	74	79	50	66.65	36.5	80

- First time users should buy a kit GYRO for performing the alignment procedure

KIT GYRO ST-ER



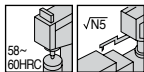
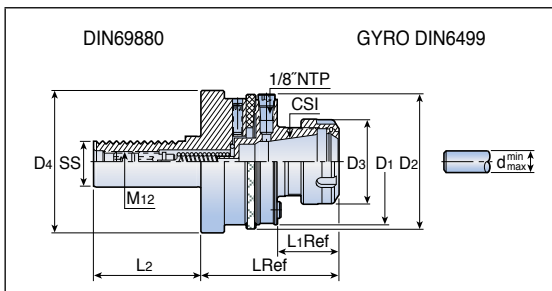
Designation	Dimension (mm)		
	SS	CSI	d _{range}
KIT GYRO ST20 ER20	20	ER20	1-13
ST25 ER25	25	ER25	1-16
ST25 ER32	25	ER32	2-20
ST32 ER32	32	ER32	2-20
ST40 ER32	40	ER32	2-20



- Kit includes: GYRO, test bar and bushing

GYRO DIN69880-ER

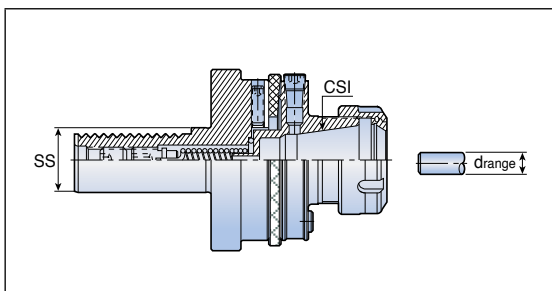
GYRO center alignment ER collet chuck



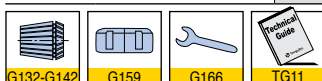
Designation	Dimension (mm)										
	SS	CSI	dmin	dmax	D1	D2	D3	D4	L	L1	L2
GYRO DIN69880 30 ER32	30	ER32	2.0	20.0	74	79	50	68.0	81.65	36.5	55
40 ER32	40	ER32	2.0	20.0	74	79	50	83.2	81.65	36.5	63
50 ER32	50	ER32	2.0	20.0	74	79	50	98.0	81.65	36.5	78

- First time users should buy a kit GYRO for performing the alignment procedure

KIT GYRO DIN69880-ER



Designation	Dimension (mm)		
	SS	CSI	drange
KIT GYRO 40 DIN69880 ER32	VDI40	ER32	2-20
50 DIN69880 ER32	VDI50	ER32	2-20



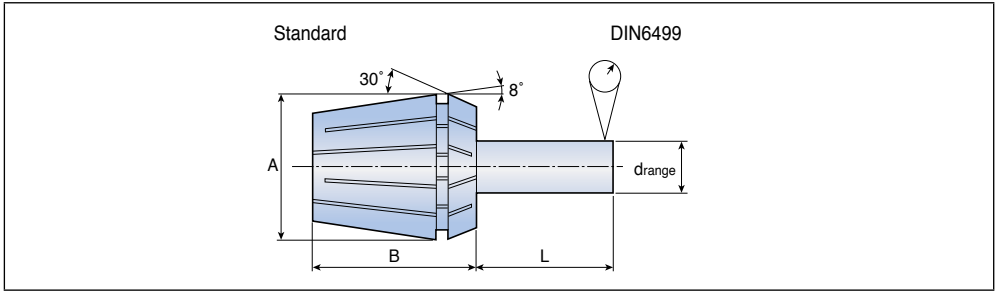
- Kit includes: GYRO, test bar and bushing

Contents

Collet



Collet



Precision

(mm)

drange	L	Run-out		
		Standard precision	Ultra precision	DIN6499
1.0-1.6	6	0.01	0.005	-
1.6-3.0	10	0.01	0.005	0.015
3.0-6.0	16	0.01	0.005	0.015
6.0-10.0	25	0.01	0.005	0.015
10.0-18.0	40	0.01	0.005	0.020
18.0-26.0	50	0.01	0.005	0.020
26.0-34	60	-	-	0.025

Dimension

(mm)

Type	A	B
ER11	11.5	18
ER16	17.0	27
ER20	21.0	31
ER25	26.0	35
ER32	33.0	40
ER40	41.0	46
ER50	52.0	60

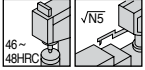
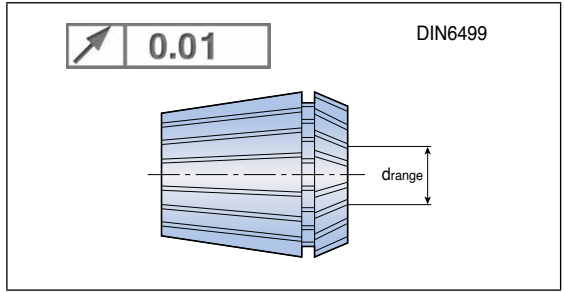


TG2-TG3

Contents

ER-SPR

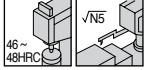
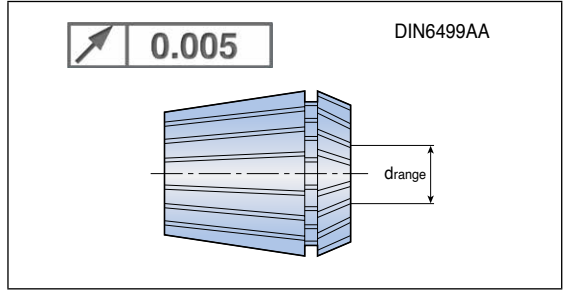
ER collet



drange	ER11	ER16	ER20	ER25	ER32	ER40	ER50
0.5-1	ER11 SPR 0.5-1	ER16 SPR 0.5-1					
1-2	1-2	1-2	ER20 SPR 1-2	ER25 SPR 1-2			
2-3	2-3	2-3	2-3	2-3	ER32 SPR 2-3		
3-4	3-4	3-4	3-4	3-4	3-4	ER40 SPR 3-4	
4-5	4-5	4-5	4-5	4-5	4-5	4-5	
5-6	5-6	5-6	5-6	5-6	5-6	5-6	
6-7	6-7	6-7	6-7	6-7	6-7	6-7	
7-8		7-8	7-8	7-8	7-8	7-8	
8-9		8-9	8-9	8-9	8-9	8-9	
9-10		9-10	9-10	9-10	9-10	9-10	
10-11			10-11	10-11	10-11	10-11	ER50 SPR 10-12
11-12			11-12	11-12	11-12	11-12	ER50 SPR 10-12
12-13			12-13	12-13	12-13	12-13	12-14
13-14				13-14	13-14	13-14	12-14
14-15				14-15	14-15	14-15	14-16
15-16				15-16	15-16	15-16	14-16
16-17					16-17	16-17	16-18
17-18					17-18	17-18	16-18
18-19					18-19	18-19	18-20
19-20					19-20	19-20	18-20
20-21						20-21	20-22
21-22						21-22	20-22
22-23						22-23	22-24
23-24						23-24	22-24
24-25						24-25	24-26
25-26						25-26	24-26
26-28							26-28
28-30							28-30
30-32							30-32
32-34							32-34

ER-SPR-AA

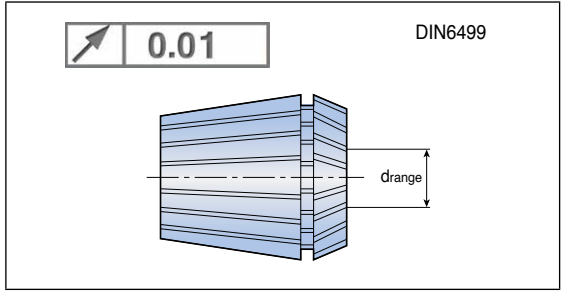
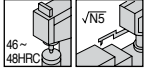
Ultra precision ER collect



drange	ER11	ER16	ER20	ER25	ER32	ER40
0.5-1	ER11 SPR 0.5-1AA	ER16 SPR 0.5-1AA				
1-2	1-2AA	1-2AA	ER20 SPR 1-2AA	ER25 SPR 1-2AA		
2-3	2-3AA	2-3AA	2-3AA	2-3AA	ER32 SPR 2-3AA	
3-4	3-4AA	3-4AA	3-4AA	3-4AA	3-4AA	ER40 SPR 3-4AA
4-5	4-5AA	4-5AA	4-5AA	4-5AA	4-5AA	4-5AA
5-6	5-6AA	5-6AA	5-6AA	5-6AA	5-6AA	5-6AA
6-7	6-7AA	6-7AA	6-7AA	6-7AA	6-7AA	6-7AA
7-8		7-8AA	7-8AA	7-8AA	7-8AA	7-8AA
8-9		8-9AA	8-9AA	8-9AA	8-9AA	8-9AA
9-10		9-10AA	9-10AA	9-10AA	9-10AA	9-10AA
10-11			10-11AA	10-11AA	10-11AA	10-11AA
11-12			11-12AA	11-12AA	11-12AA	11-12AA
12-13			12-13AA	12-13AA	12-13AA	12-13AA
13-14				13-14AA	13-14AA	13-14AA
14-15				14-15AA	14-15AA	14-15AA
15-16				15-16AA	15-16AA	15-16AA
16-17					16-17AA	16-17AA
17-18					17-18AA	17-18AA
18-19					18-19AA	18-19AA
19-20					19-20AA	19-20AA
20-21						20-21AA
21-22						21-22AA
22-23						22-23AA
23-24						23-24AA
24-25						24-25AA
25-26						25-26AA

ER-SEAL

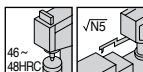
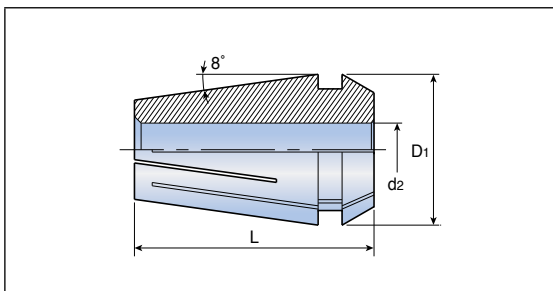
TaeguTec standard precision - Sealed JET collet



drange	ER16	ER20	ER25	ER32	ER40
3-4	ER16 SEAL 3-4	ER20 SEAL 3-4	ER25 SEAL 3-4	ER32 SEAL 3-4	ER40 SEAL 3-4
4-5	4-5	4-5	4-5	4-5	4-5
5-6	5-6	5-6	5-6	5-6	5-6
6-7	6-7	6-7	6-7	6-7	6-7
7-8	7-8	7-8	7-8	7-8	7-8
8-9	8-9	8-9	8-9	8-9	8-9
9-10	9-10	9-10	9-10	9-10	9-10
10-11		10-11	10-11	10-11	10-11
11-12		11-12	11-12	11-12	11-12
12-13		12-13	12-13	12-13	12-13
13-14			13-14	13-14	13-14
14-15			14-15	14-15	14-15
15-16			15-16	15-16	15-16
16-17				16-17	16-17
17-18				17-18	17-18
18-19				18-19	18-19
19-20				19-20	19-20
20-21					20-21
21-22					21-22
22-23					22-23
23-24					23-24
24-25					24-25
25-26					25-26

EROH

ER collet for internal coolant

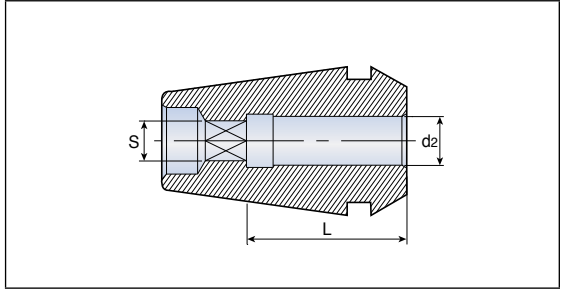


Designation	Dimension (mm)		
	d2range	D1	L
EROH 16	4.0-10.0	17	27.5
EROH 20	6.0-13.0	21	31.5
EROH 25	6.0-16.0	26	34.0
EROH 32	8.0-20.0	33	40.0
EROH 40	10.0-26.0	41	46.0

d2range	ER16	ER20	ER25	ER32	ER40
4	EROH 16-4				
5	EROH 16-5				
6	EROH 16-6	EROH 20-6	EROH 25-6		
7	EROH 16-7	EROH 20-7	EROH 25-7		
8	EROH 16-8	EROH 20-8	EROH 25-8	EROH 32-8	
9	EROH 16-9	EROH 20-9	EROH 25-9	EROH 32-9	
10	EROH 16-10	EROH 20-10	EROH 25-10	EROH 32-10	EROH 40-10
11		EROH 20-11	EROH 25-11	EROH 32-11	EROH 40-11
12		EROH 20-12	EROH 25-12	EROH 32-12	EROH 40-12
13		EROH 20-13	EROH 25-13	EROH 32-13	EROH 40-13
14			EROH 25-14	EROH 32-14	EROH 40-14
15			EROH 25-15	EROH 32-15	EROH 40-15
16			EROH 25-16	EROH 32-16	EROH 40-16
17				EROH 32-17	EROH 40-17
18				EROH 32-18	EROH 40-18
19				EROH 32-19	EROH 40-19
20				EROH 32-20	EROH 40-20
21					EROH 40-21
22					EROH 40-22
23					EROH 40-23
24					EROH 40-24
25					EROH 40-25
26					EROH 40-26

ER TAP

ER type tap collet

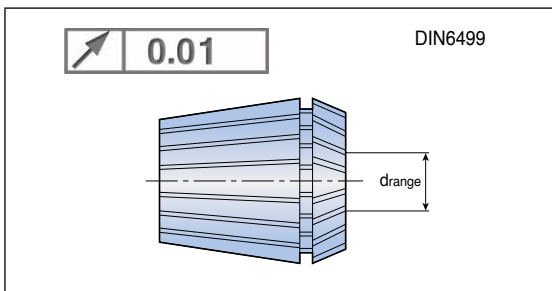
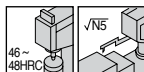


Tap size	Dimension (mm)			ER TAP 16	ER TAP 20	ER TAP 25	ER TAP 32	ER TAP 40
	L	d2	S					
M4	15	5.0	4.0	ER TAP 16-M4	ER TAP 20-M4	ER TAP 25-M4	ER TAP 32-M4	
M5	15	5.5	4.5	ER TAP 16-M5	ER TAP 20-M5	ER TAP 25-M5	ER TAP 32-M5	
M6	15	6.0	4.5	ER TAP 16-M6	ER TAP 20-M6	ER TAP 25-M6	ER TAP 32-M6	
M8	20	6.2	5.0	ER TAP 16-M8	ER TAP 20-M8	ER TAP 25-M8	ER TAP 32-M8	
M10	20	7.0	5.5	ER TAP 16-M10	ER TAP 20-M10	ER TAP 25-M10	ER TAP 32-M10	ER TAP 40-M10
M12	20	8.5	6.5		ER TAP 20-M12	ER TAP 25-M12	ER TAP 32-M12	ER TAP 40-M12
M14	25	10.5	8.0			ER TAP 25-M14	ER TAP 32-M14	ER TAP 40-M14
M16	25	12.5	10.0			ER TAP 25-M16	ER TAP 32-M16	ER TAP 40-M16
M18	30	14.0	11.0				ER TAP 32-M18	ER TAP 40-M18
M20	30	15.0	12.0				ER TAP 32-M20	ER TAP 40-M20
M22	30	17.0	13.0					ER TAP 40-M22
M24	35	19.0	15.0					ER TAP 40-M24
M27	35	20.0	15.0					ER TAP 40-M27

• Tap specification is based on JIS (DIN or ISO standard prepared by special quotation)

SET ER-SPR

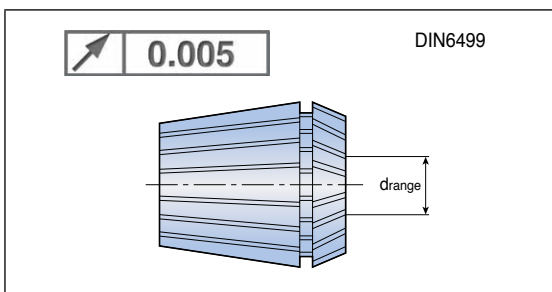
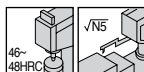
ER type collet sets - TaeguTec standard precision



Designation	Pieces / set	drange
SET ER11 SPR 7	7	0.5-7
ER16 SPR 10	10	0.5-10
ER20 SPR 12	12	1-13
ER25 SPR 15	15	1-16
ER32 SPR 18	18	2-20
ER40 SPR 23	23	3-26
ER50 SPR 12	12	10-34

SET ER-SPR-AA

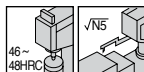
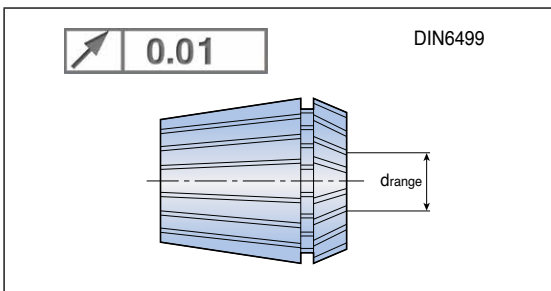
ER type collet sets - TaeguTec ultra precision "AA"



Designation	Pieces / set	drange
SET ER11 SPR 7AA	7	0.5-7
ER16 SPR 10AA	10	0.5-10
ER20 SPR 12AA	12	1-13
ER25 SPR 15AA	15	1-16
ER32 SPR 18AA	18	2-20
ER40 SPR 23AA	23	3-26

SET ER-SEAL

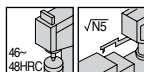
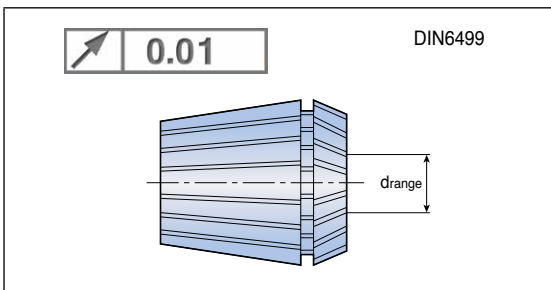
ER COOLIT - Sealed JET collet set - TaeguTec standard precision



Designation	Pieces / set	drange
SET ER16 SEAL 7	7	3-10
ER20 SEAL 10	10	3-13
ER25 SEAL 13	13	3-16
ER32 SEAL 17	17	3-20
ER40 SEAL 23	23	3-26

SET ER-SEAL-JET2

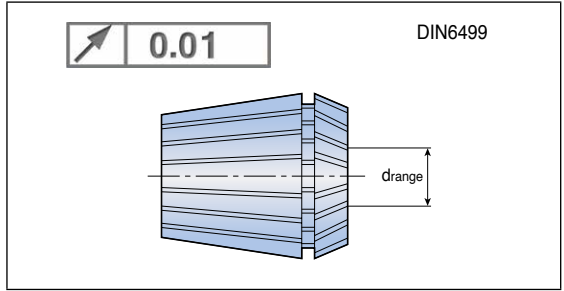
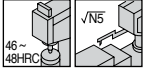
ER COOLIT - Sealed JET2 collet set - TaeguTec standard precision



Designation	Pieces / set	drange
SET ER16 SEAL 7JET2	7	3-10
ER20 SEAL 10JET2	10	3-13
ER25 SEAL 13JET2	13	3-16
ER32 SEAL 17JET2	17	3-20
ER40 SEAL 23JET2	23	3-26

SET ER-SPR-EM

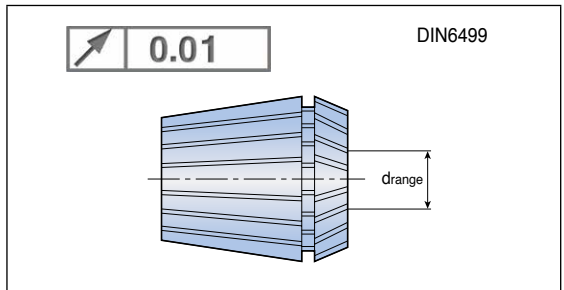
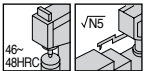
ER collet start set - TaeguTec standard precision



Designation	Pieces / set	ørange
SET ER16 SPR 8 EM	8	3, 4, 5, 6, 7, 8, 9, 10
ER20 SPR 5 EM	5	4, 6, 8, 10, 12
ER25 SPR 6 EM	6	4, 6, 8, 10, 12, 16
ER32 SPR 6 EM	6	6, 8, 10, 12, 16, 20
ER40 SPR 7 EM	7	6, 8, 10, 12, 16, 20, 25

SET ER-SEAL-EM

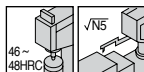
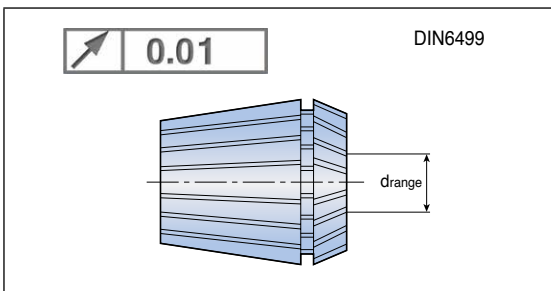
ER collet start set - TaeguTec standard precision



Designation	Pieces / set	ørange
SET ER16 SEAL 5 EM	5	4, 5, 6, 8, 10
ER20 SEAL 5 EM	5	4, 6, 8, 10, 12
ER25 SEAL 6 EM	6	4, 6, 8, 10, 12, 16
ER32 SEAL 6 EM	6	6, 8, 10, 12, 16, 20
ER40 SEAL 7 EM	7	6, 8, 10, 12, 16, 20, 25

SET ER-SEAL-EM JET2

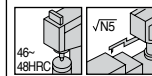
ER collet start set - TaeguTec standard precision



Designation	Pieces / set	drange
SET ER25 SEAL 6 EM JET2	6	4, 6, 8, 10, 12, 16
ER32 SEAL 6 EM JET2	6	6, 8, 10, 12, 16, 20
ER40 SEAL 7 EM JET2	7	6, 8, 10, 12, 16, 20, 25

KIT-ER

ER collet set - Taper shank



Designation	Pieces / set	drange
KIT DIN2080 30 18 ER32	18	2-20
DIN2080 40 18 ER32	18	2-20
DIN2080 40 23 ER40	23	3-26
DIN2080 50 23 ER40	23	3-26
MT3 18 ER32	18	2-20

- Each kit contains one collet chuck, a full set of ER collets and a wrench

KIT ST-ER M

ER collet chuck set - Straight shank



DIN6499

Designation	Pieces / set	Range
KIT ST 12x80 7 ER11 M	7	0.5-7
ST 16x50 7 ER11 MF	7	0.5-7
ST 16x100 7 ER11 M	7	0.5-7
ST 16x150 7 ER11 M	7	0.5-7
ST 12x80 10 ER16 M	10	0.5-10
ST 20x100 10 ER16 M	10	0.5-10
ST 20x150 10 ER16 M	10	0.5-10
ST 20x100 12 ER20 M	12	1-12
ST 20x150 12 ER20 M	12	1-12

- Each kit contains one collet chuck, a full set of ER collets and a wrench

KIT ST-ER

ER type collet chuck set - Straight shank



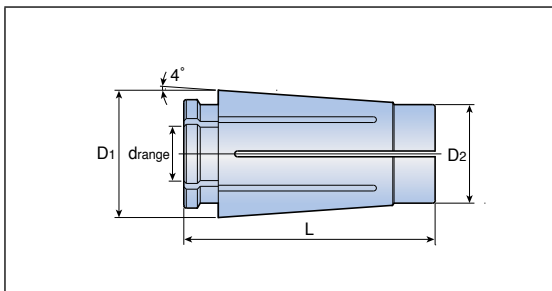
DIN6499

Designation	Pieces / set	Range
KIT ST 16x50 7 ER11 F	7	0.5-7
ST 20x50 7 ER11 F	7	0.5-7
ST 20x100 7 ER11	7	0.5-7
ST 20x150 7 ER11	10	0.5-10
ST 20x50 10 ER16 F	10	0.5-10
ST 20x100 10 ER16	10	0.5-10
ST 20x150 10 ER16	12	1-12
ST 20x50 12 ER20 F	12	1-12

- Each kit contains one collet chuck, a full set of ER collets and a wrench

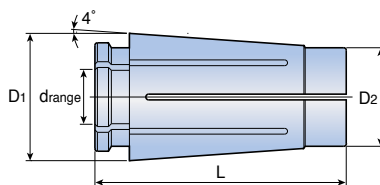
TSK

TSK collet



Designation	Dimension (mm)		
	D1	D2	L
TSK 06	10.4	7.5	25.0
TSK 10	15.5	12.0	30.6
TSK 16	24.6	18.8	45.0
TSK 25	35.7	28.8	57.0

drange	TSK 06	TSK 10	TSK 16	TSK 25
1.5-2.0	TSK 06-2.0	TSK 10-2.0		
2.0-2.5	TSK 06-2.5	TSK 10-2.5		
2.5-3.0	TSK 06-3.0	TSK 10-3.0	TSK 16-3.0	
3.0-3.5	TSK 06-3.5	TSK 10-3.5	TSK 16-3.5	
3.5-4.0	TSK 06-4.0	TSK 10-4.0	TSK 16-4.0	
4.0-4.5	TSK 06-4.5	TSK 10-4.5	TSK 16-4.5	
4.5-5.0	TSK 06-5.0	TSK 10-5.0	TSK 16-5.0	
5.0-5.5	TSK 06-5.5	TSK 10-5.5	TSK 16-5.5	
5.5-6.0	TSK 06-6.0	TSK 10-6.0	TSK 16-6.0	
6.0-6.5		TSK 10-6.5	TSK 16-6.5	
6.5-7.0		TSK 10-7.0	TSK 16-7.0	
7.0-7.5		TSK 10-7.5	TSK 16-7.5	
7.5-8.0		TSK 10-8.0	TSK 16-8.0	
8.0-8.5		TSK 10-8.5	TSK 16-8.5	
8.5-9.0		TSK 10-9.0	TSK 16-9.0	
9.0-9.5		TSK 10-9.5	TSK 16-9.5	
9.5-10.0		TSK 10-10.0	TSK 16-10.0	
10.0-10.5			TSK 16-10.5	
10.5-11.0			TSK 16-11.0	
11.0-11.5			TSK 16-11.5	
11.5-12.0			TSK 16-12.0	
12.0-12.5			TSK 16-12.5	
12.5-13.0			TSK 16-13.0	
13.0-13.5			TSK 16-13.5	
13.5-14.0			TSK 16-14.0	
14.0-14.5			TSK 16-14.5	
14.5-15.0			TSK 16-15.0	
15.0-15.5			TSK 16-15.5	
15.5-16.0			TSK 16-16.0	TSK 25-16.0
16.0-16.5				TSK 25-16.5
16.5-17.0				TSK 25-17.0

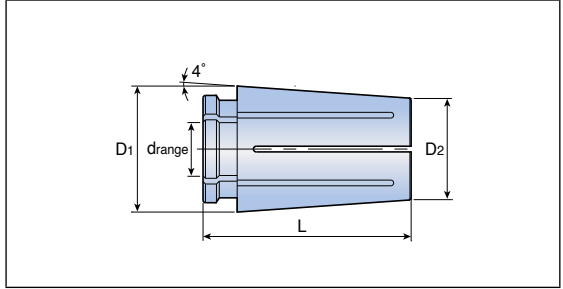


Designation	Dimension (mm)		
	D1	D2	L
TSK 06	10.4	7.5	25.0
TSK 10	15.5	12.0	30.6
TSK 16	24.6	18.8	45.0
TSK 25	35.7	28.8	57.0

drange	TSK 06	TSK 10	TSK 16	TSK 25
17.0-17.5				TSK 25-17.5
17.5-18.0				TSK 25-18.0
18.0-18.5				TSK 25-18.5
18.5-19.0				TSK 25-19.0
19.0-19.5				TSK 25-19.5
19.5-20.0				TSK 25-20.0
20.0-20.5				TSK 25-20.5
20.5-21.0				TSK 25-21.0
21.0-21.5				TSK 25-21.5
21.5-22.0				TSK 25-22.0
22.0-22.5				TSK 25-22.5
22.5-23.0				TSK 25-23.0
23.0-23.5				TSK 25-23.5
23.5-24.0				TSK 25-24.0
24.0-24.5				TSK 25-24.5
24.5-25.0				TSK 25-25.0

TSKC

Internal coolant type collet for TSK chuck

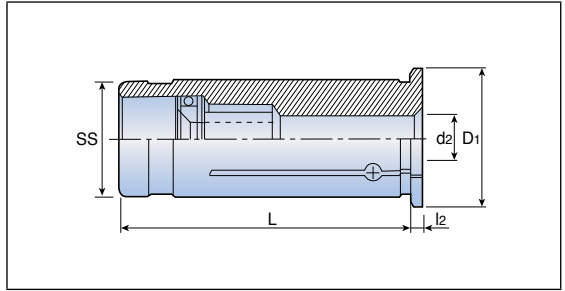


Designation	Dimension (mm)		
	D1	D2	L
TSK 06	10.4	8.00	21.0
TSK 10	15.5	12.50	25.6
TSK 16	24.6	20.12	37.0
TSK 25	35.7	29.70	48.5

drange	TSKC 06	TSKC 10	TSKC 16	TSKC 25
4	TSKC 06-4.0			
5	TSKC 06-5.0			
6	TSKC 06-6.0	TSKC 10-6.0		
7		TSKC 10-7.0		
8		TSKC 10-8.0	TSKC 16-8.0	
9		TSKC 10-9.0	TSKC 16-9.0	
10		TSKC 10-10.0	TSKC 16-10.0	
11			TSKC 16-11.0	
12			TSKC 16-12.0	
13			TSKC 16-13.0	
14			TSKC 16-14.0	
15			TSKC 16-15.0	
16			TSKC 16-16.0	TSKC 25-16.0
17				TSKC 25-17.0
18				TSKC 25-18.0
19				TSKC 25-19.0
20				TSKC 25-20.0
21				TSKC 25-21.0
22				TSKC 25-22.0
23				TSKC 25-23.0
24				TSKC 25-24.0
25				TSKC 25-25.0

THC

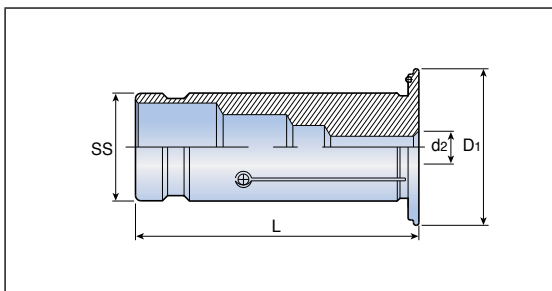
Straight collet for hydraulic chuck



Designation	Dimension (mm)				
	SS	d2	D1	L	l2
THC 12-3	12	3	16	46.5	2
12-4	12	4	16	46.5	2
12-5	12	5	16	46.5	2
12-6	12	6	16	46.5	2
12-7	12	7	16	46.5	2
12-8	12	8	16	46.5	2
12-9	12	9	16	46.5	2
20-3	20	3	24	50.5	2
20-4	20	4	24	50.5	2
20-5	20	5	24	50.5	2
20-6	20	6	24	50.5	2
20-7	20	7	24	50.5	2
20-8	20	8	24	50.5	2
20-9	20	9	24	50.5	2
20-10	20	10	24	50.5	2
20-11	20	11	24	50.5	2
20-12	20	12	24	50.5	2
20-13	20	13	24	50.5	2
20-14	20	14	24	50.5	2
20-15	20	15	24	50.5	2
20-16	20	16	24	50.5	2
20-17	20	17	24	50.5	2
32-6	32	6	36	60.5	3
32-8	32	8	36	60.5	3
32-10	32	10	36	60.5	3
32-12	32	12	36	60.5	3
32-14	32	14	36	60.5	3
32-16	32	16	36	60.5	3
32-18	32	18	36	60.5	3
32-20	32	20	36	60.5	3
32-25	32	25	36	60.5	3

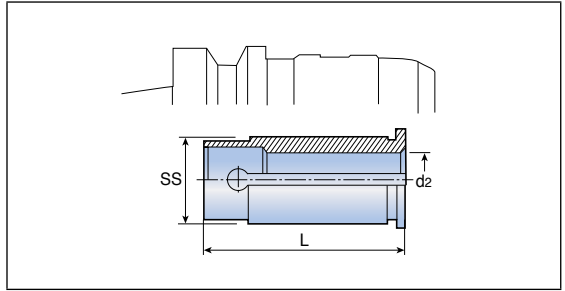
THC C

Straight collet of internal coolant type for hydraulic chuck



Designation	Dimension (mm)			
	SS	d2	D1	L
THC C12-3	12	3	19	47.0
C12-4	12	4	19	47.0
C12-5	12	5	19	47.0
C12-6	12	6	19	47.0
C12-7	12	7	19	47.0
C12-8	12	8	19	47.0
C20-3	20	3	29	52.5
C20-4	20	4	29	52.5
C20-5	20	5	29	52.5
C20-6	20	6	29	52.5
C20-7	20	7	29	52.5
C20-8	20	8	29	52.5
C20-9	20	9	29	52.5
C20-10	20	10	29	52.5
C20-11	20	11	29	52.5
C20-12	20	12	29	52.5
C20-13	20	13	29	52.5
C20-14	20	14	29	52.5
C20-15	20	15	29	52.5
C20-16	20	16	29	52.5
C20-17	20	17	29	52.5
C32-6	32	6	39	63.5
C32-8	32	8	39	63.5
C32-10	32	10	39	63.5
C32-12	32	12	39	63.5
C32-14	32	14	39	63.5
C32-16	32	16	39	63.5
C32-18	32	18	39	63.5
C32-20	32	20	39	63.5
C32-25	32	25	39	63.5

Straight collet for milling chuck



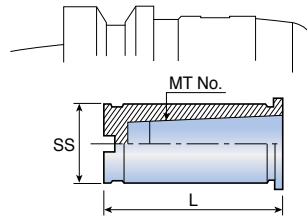
Designation	Dimension (mm)		
	SS	d2	L
CSR 20-4	20	4	50
20-6	20	6	50
20-8	20	8	50
20-10	20	10	50
20-12	20	12	50
20-16	20	16	50
25-4	25	4	60
25-6	25	6	60
25-8	25	8	60
25-10	25	10	60
25-12	25	12	60
25-16	25	16	60
25-20	25	20	60
32-4	32	4	65
32-6	32	6	65
32-8	32	8	65
32-10	32	10	65
32-12	32	12	65
32-16	32	16	65
32-20	32	20	65
32-25	32	25	65
42-4	42	4	75
42-6	42	6	75
42-8	42	8	75
42-10	42	10	75
42-12	42	12	75
42-16	42	16	75
42-20	42	20	75
42-25	42	25	75
42-32	42	32	75

CMR

Collet for milling chuck - Morse taper adapter for milling chuck



CMR type



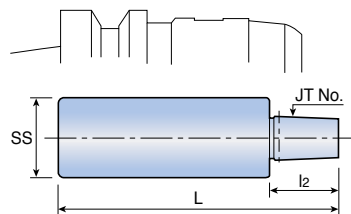
Designation	MT No.	Dimension (mm)		Application chuck
		SS	L	
CMR 32-1	1	32	58	TMC 32
32-2	2	32	71	TMC 32
32-3	3	32	89	TMC 32
42-1	1	42	58	TMC 42
42-2	2	42	71	TMC 42
42-3	3	42	89	TMC 42
42-4	4	42	111	TMC 42

CJA

Collet for milling chuck - Jacobs taper adapter for milling chuck

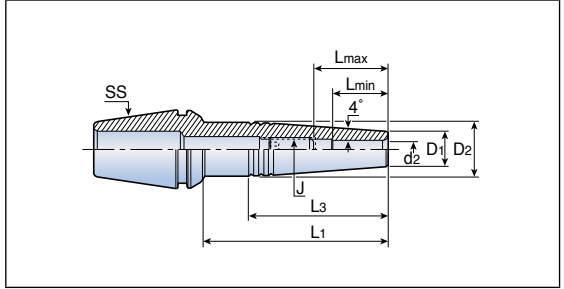
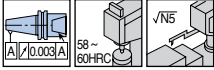


CJA type

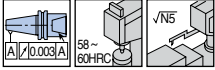
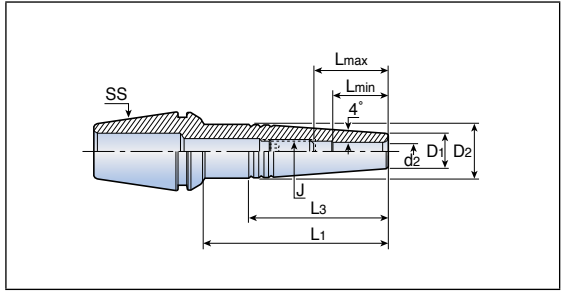


Designation	JT No.	Dimension (mm)			Application chuck
		SS	L	l ₂	
CJA 32-6	6	32	118	28	TMC 32
42-6	6	42	128	28	TMC 42

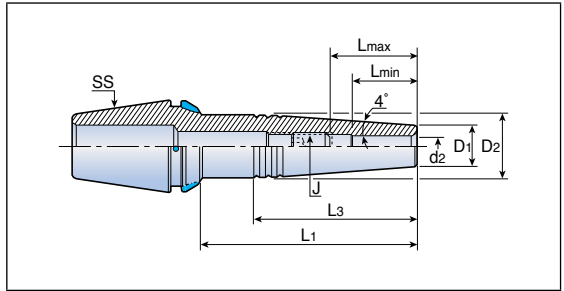
T-SHRINK ER collet DIN6499



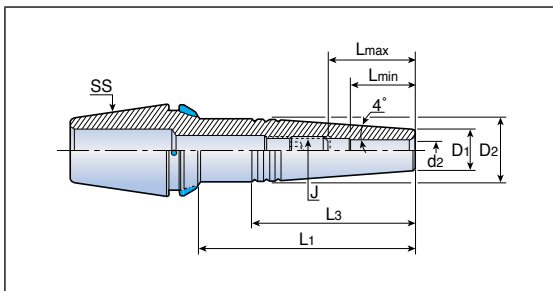
Designation	Dimension (mm)									
	SS	d2	D1	D2	Lmin	Lmax	L1	L3	J	Hex key
ER20 SRK 3x35	ER20	3	10	13.5	10	16	35	24.5	M6	3.0
SRK 3x60	ER20	3	10	13.5	10	16	60	24.5	M6	3.0
SRK 4x35	ER20	4	10	13.5	12	18	35	24.5	M6	3.0
SRK 4x60	ER20	4	10	13.5	12	18	60	24.5	M6	3.0
SRK 5x35	ER20	5	10	13.5	15	21	35	24.5	M6	3.0
SRK 5x60	ER20	5	10	13.5	15	21	60	24.5	M6	3.0
SRK 6x35	ER20	6	11	13.5	18	24	35	25.5	M8	4.0
SRK 6x60	ER20	6	11	13.5	18	24	60	29.5	M8	4.0
ER25 SRK 3x35	ER25	3	10	13.5	10	16	35	24.5	M6	3.0
SRK 3x60	ER25	3	10	16.3	10	16	60	44.5	M6	3.0
SRK 4x35	ER25	4	10	13.5	12	18	35	24.5	M6	3.0
SRK 4x60	ER25	4	10	16.3	12	18	60	44.5	M6	3.0
SRK 5x35	ER25	5	10	13.5	15	21	35	24.5	M6	3.0
SRK 5x60	ER25	5	10	16.3	15	21	60	44.5	M6	3.0
SRK 6x35	ER25	6	11	14.7	18	24	35	26.0	M8	4.0
SRK 6x60	ER25	6	11	17.3	18	24	60	44.5	M8	4.0
SRK 8x35	ER25	8	14	17.8	25	30	35	26.5	M10	5.0
SRK 8x60	ER25	8	14	17.9	25	31	60	39.5	M10	5.0



Designation	Dimension (mm)									
	SS	d2	D1	D2	Lmin	Lmax	L1	L3	J	Hex key
ER32 SRK 3x35	ER32	3	10	13.5	10	16	35	22.5	M6	3.0
SRK 3x60	ER32	3	10	16.3	10	16	60	44.5	M6	3.0
SRK 3x85	ER32	3	10	19.8	10	16	85	70.0	M6	3.0
SRK 4x35	ER32	4	10	13.5	12	18	35	23.5	M6	3.0
SRK 4x60	ER32	4	10	16.3	12	18	60	44.5	M6	3.0
SRK 4x85	ER32	4	10	19.8	12	18	85	70.0	M6	3.0
SRK 5x35	ER32	5	10	13.5	15	21	35	24.5	M6	3.0
SRK 5x60	ER32	5	10	16.3	15	21	60	44.5	M6	3.0
SRK 5x85	ER32	5	10	19.8	15	21	85	70.0	M6	3.0
SRK 6x35	ER32	6	11	14.7	18	24	35	25.5	M8	4.0
SRK 6x60	ER32	6	11	17.3	18	24	60	45.0	M8	4.0
SRK 6x85	ER32	6	11	20.8	18	26	85	69.5	M8	4.0
SRK 8x35	ER32	8	14	18.9	25	31	35	33.0	M10	5.0
SRK 8x60	ER32	8	14	20.4	25	31	60	45.0	M10	5.0
SRK 8x85	ER32	8	14	23.2	25	31	85	65.0	M10	5.0
SRK 10x35	ER32	10	16	20.8	30	35	35	34.0	M12	6.0
SRK 10x60	ER32	10	16	22.4	30	36	60	44.5	M12	6.0
SRK 10x85	ER32	10	16	23.0	30	36	85	49.5	M12	6.0
SRK 12x35	ER32	12	20	24.0	32	-	35	28.0	-	-
SRK 12x60	ER32	12	20	24.0	32	38	60	28.0	M14	6.0
SRK 12x85	ER32	12	20	24.0	32	38	85	28.0	M14	6.0

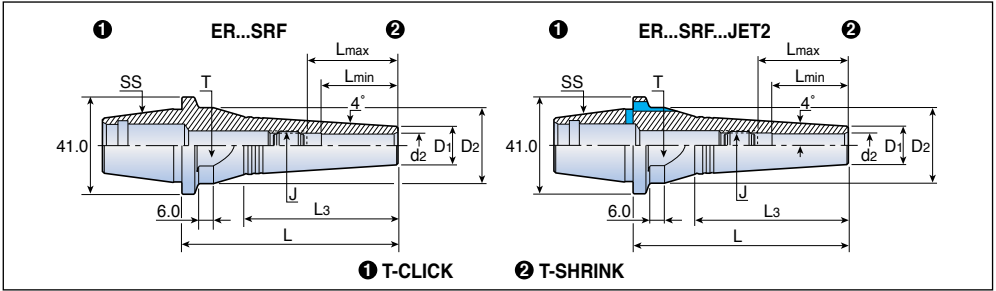


Designation	Dimension (mm)									
	SS	d2	D1	D2	Lmin	Lmax	L1	L3	J	Hex key
ER20 SRK 3x35 JET2	ER20	3	10	13.5	10	16	35	24.5	M6	3.0
SRK 4x35 JET2	ER20	4	10	13.5	12	18	35	24.5	M6	3.0
SRK 5x35 JET2	ER20	5	10	13.5	15	21	35	24.5	M6	3.0
SRK 6x35 JET2	ER20	6	11	13.5	18	24	35	25.5	M8	4.0
SRK 6x60 JET2	ER20	6	11	13.5	18	24	60	29.5	M8	4.0
ER25 SRK 3x35 JET2	ER25	3	10	13.5	10	16	35	24.5	M6	3.0
SRK 3x60 JET2	ER25	3	10	16.3	10	16	60	44.5	M6	3.0
SRK 4x35 JET2	ER25	4	10	13.5	12	18	35	24.5	M6	3.0
SRK 4x60 JET2	ER25	4	10	16.3	12	18	60	44.5	M6	3.0
SRK 5x35 JET2	ER25	5	10	13.5	15	21	35	24.5	M6	3.0
SRK 5x60 JET2	ER25	5	10	16.3	15	21	60	44.5	M6	3.0
SRK 6x35 JET2	ER25	6	11	14.7	18	24	35	26.0	M8	4.0
SRK 6x60 JET2	ER25	6	11	17.3	18	24	60	44.5	M8	4.0
SRK 8x35 JET2	ER25	8	14	17.8	25	30	35	26.5	M10	5.0
SRK 8x60 JET2	ER25	8	14	17.9	25	31	60	39.5	M10	5.0



Designation	Dimension (mm)									
	SS	d2	D1	D2	Lmin	Lmax	L1	L3	J	Hex key
ER32 SRK 3x35 JET2	ER32	3	10	13.5	10	16	35	22.5	M6	3.0
SRK 3x60 JET2	ER32	3	10	16.3	10	16	60	44.5	M6	3.0
SRK 3x85 JET2	ER32	3	10	19.8	10	16	85	70.0	M6	3.0
SRK 4x35 JET2	ER32	4	10	13.5	12	18	35	23.5	M6	3.0
SRK 4x60 JET2	ER32	4	10	16.3	12	18	60	44.5	M6	3.0
SRK 4x85 JET2	ER32	4	10	19.8	12	18	85	70.0	M6	3.0
SRK 5x35 JET2	ER32	5	10	13.5	15	21	35	24.5	M6	3.0
SRK 5x60 JET2	ER32	5	10	16.3	15	21	60	44.5	M6	3.0
SRK 5x85 JET2	ER32	5	10	19.8	15	21	85	70.0	M6	3.0
SRK 6x35 JET2	ER32	6	11	14.7	18	24	35	25.5	M8	4.0
SRK 6x60 JET2	ER32	6	11	17.3	18	24	60	45.0	M8	4.0
SRK 6x85 JET2	ER32	6	11	20.8	18	26	85	69.5	M8	4.0
SRK 8x35 JET2	ER32	8	14	18.8	25	31	35	33.0	M10	5.0
SRK 8x60 JET2	ER32	8	14	20.4	25	31	60	45.0	M10	5.0
SRK 8x85 JET2	ER32	8	14	23.2	25	31	85	65.0	M10	5.0
SRK 10x35 JET2	ER32	10	16	20.8	30	35	35	34.0	M12	6.0
SRK 10x60 JET2	ER32	10	16	22.4	30	36	60	44.5	M12	6.0
SRK 10x85 JET2	ER32	10	16	23.0	30	36	85	49.5	M12	6.0
SRK 12x35 JET2	ER32	12	20	24.0	32	-	35	28.0	-	-
SRK 12x60 JET2	ER32	12	20	24.0	32	38	60	28.0	M14	6.0
SRK 12x85 JET2	ER32	12	20	24.0	32	38	85	28.0	M14	6.0

ER collet

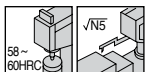
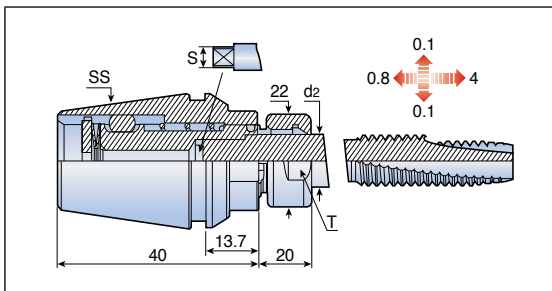


Designation	Dimension (mm)								
	SS	d	D1	D2	L	Lmin	Lmax	L3	J
ER32 SRF 3x50	32 SRF	3	10	32	50	10	16	31.0	M6
SRF 3x85	32 SRF	3	10	32	85	10	16	60.5	M6
SRF 4x50	32 SRF	4	10	32	50	12	18	31.0	M6
SRF 4x85	32 SRF	4	10	32	85	12	18	60.5	M6
SRF 5x50	32 SRF	5	10	32	50	15	21	31.0	M6
SRF 5x85	32 SRF	5	10	32	85	15	21	60.5	M6
SRF 6x50	32 SRF	6	11	32	50	18	24	31.0	M8
SRF 6x85	32 SRF	6	11	32	85	18	24	60.5	M8
SRF 8x50	32 SRF	8	14	32	50	25	31	33.0	M10
SRF 8x85	32 SRF	8	14	32	85	25	31	60.5	M10
SRF 10x50	32 SRF	10	16	32	50	30	35	35.0	M12
SRF 10x85	32 SRF	10	16	32	85	30	36	60.5	M12
SRF 12x50	32 SRF	12	20	32	50	32	37	35.0	M14
SRF 12x85	32 SRF	12	20	32	85	32	38	50.0	M14
ER32 SRF 3x50 JET2	32 SRF	3	10	32	50	10	16	31.0	M6
SRF 3x85 JET2	32 SRF	3	10	32	85	10	16	60.5	M6
SRF 4x50 JET2	32 SRF	4	10	32	50	12	18	31.0	M6
SRF 4x85 JET2	32 SRF	4	10	32	85	12	18	60.5	M6
SRF 5x85 JET2	32 SRF	5	10	32	85	15	21	60.5	M6
SRF 6x50 JET2	32 SRF	6	11	32	50	18	24	31.0	M8
SRF 6x85 JET2	32 SRF	6	11	32	85	18	24	60.5	M8
SRF 8x50 JET2	32 SRF	8	14	32	50	25	31	33.0	M10
SRF 8x85 JET2	32 SRF	8	14	32	85	25	31	60.5	M10
SRF 10x50 JET2	32 SRF	10	16	32	50	30	35	35.0	M12
SRF 10x85 JET2	32 SRF	10	16	32	85	30	36	60.5	M12
SRF 12x50 JET2	32 SRF	12	20	32	50	32	37	35.0	M14
SRF 12x85 JET2	32 SRF	12	20	32	85	32	38	50.0	M14

• Tightening torque: 24 kg × m

GTIN ER

GTIN ER collet



GTIN ER 32 - DIN 371 / 352

Designation	Dimension (mm)					
	SS	d2	Tapmin	Tapmax	S	T
GTIN ER32 DIN 2.50x2.10	ER32	2.5	M1	M1.8	2.1	20
DIN 2.80x2.10	ER32	2.8	M2	M4	2.1	20
DIN 3.50x2.70	ER32	3.5	M3	M5	2.7	20
DIN 4.00x3.00	ER32	4.0	M3.5	M3.5	3.0	20
DIN 4.50x3.40	ER32	4.5	M4	M6	3.4	20
DIN 6.00x4.90	ER32	6.0	M5	M8	4.9	20
DIN 7.00x5.50	ER32	7.0	M7	M10	5.5	20
DIN 8.00x6.20	ER32	8.0	M8	M8	6.2	20
DIN 9.00x7.00	ER32	9.0	M12	M12	7.0	20
DIN 10.00x8.00	ER32	10.0	M10	M10	8.0	20
DIN 11.00x9.00	ER32	11.0	M14	M14	9.0	20
DIN 12.00x9.00	ER32	12.0	M16	M16	9.0	20

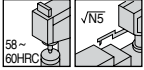
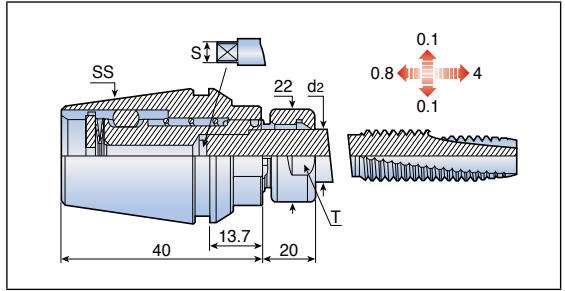
GTIN ER 32 - JIS

Designation	Dimension (mm)					
	SS	d2	Tapmin	Tapmax	S	T
GTIN ER32 JIS 3.00x2.50	ER32	3.0	M1	M2.6	2.5	20
JIS 4.00x3.20	ER32	4.0	M3	M3.5	3.2	20
JIS 5.00x4.00	ER32	5.0	M4	M4	4.0	20
JIS 6.00x4.50	ER32	6.0	M6	M6	4.5	20
JIS 6.20x5.00	ER32	6.2	M8	M8	5.0	20
JIS 7.00x5.50	ER32	7.0	M10	M10	5.5	20
JIS 8.50x6.50	ER32	8.5	M12	M12	6.5	20
JIS 10.50x8.00	ER32	10.5	M14	M14	8.0	20
JIS 12.50x10.00	ER32	12.5	M16	M16	10.0	20

- No coolant should be induced through the tap collet, as it will cause malfunctioning of the mechanism

GTIN ER

GTIN ER collet



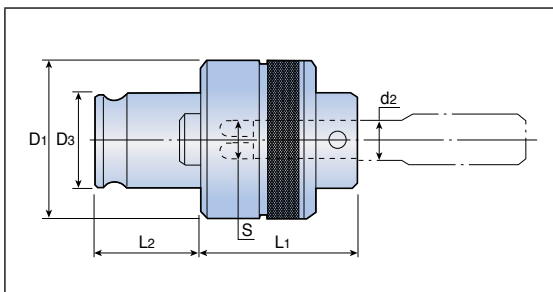
GTIN ER32 - ISO metric ISO 529/2283

Designation	Dimension (mm)					
	SS	d2	Tapmin	Tapmax	S	T
GTIN ER32 ISO 2.24x1.80	ER32	2.24	M3	M3	1.80	20
ISO 2.50x2.00	ER32	2.50	M3.5	M3.5	2.00	20
ISO 2.80x2.24	ER32	2.80	M2.2	M2.5	2.24	20
ISO 3.15x2.50	ER32	3.15	M3	M4	2.50	20
ISO 3.55x2.80	ER32	3.55	M3.5	M4.5	2.80	20
ISO 4.00x3.15	ER32	4.00	M4	M5	3.15	20
ISO 4.50x3.55	ER32	4.50	M6	M6	3.55	20
ISO 5.00x4.00	ER32	5.00	M5	M5	4.00	20
ISO 5.60x4.50	ER32	5.60	UNC#12-24	UNC (ONLY)	4.50	20
ISO 6.30x5.00	ER32	6.30	M6	M8	5.00	20
ISO 7.10x5.60	ER32	7.10	UNC#3/8-16	UNC (ONLY)	5.60	20
ISO 8.00x6.30	ER32	8.00	M8	M10	6.30	20
ISO 9.00x7.10	ER32	9.00	M12	M12	7.10	20
ISO 10.00x8.00	ER32	10.00	M10	M10	8.00	20
ISO 11.20x9.00	ER32	11.20	M14	M14	9.00	20
ISO 12.50x10.00	ER32	12.50	M16	M16	10.00	20

• No coolant should be induced through the tap collet, as it will cause malfunctioning of the mechanism

TA

Tap adapter



Designation	Dimension (mm)					
	d2	D1	D3	L1	L2	S
TA 1-M3	4.0	32	19	25	21.5	3.2
1-M4	5.0	32	19	25	21.5	4.0
1-M5	5.5	32	19	25	21.5	4.5
1-M6	6.0	32	19	25	21.5	4.5
1-M8	6.2	32	19	25	21.5	5.0
1-M10	7.0	32	19	25	21.5	5.5
1-M12	8.5	32	19	25	21.5	6.5
2-M6	6.0	50	31	33	35.5	4.5
2-M8	6.2	50	31	33	35.5	5.0
2-M10	7.0	50	31	33	35.5	5.5
2-M12	8.5	50	31	33	35.5	6.5
2-M14	10.5	50	31	33	35.5	8.0
2-M16	12.5	50	31	33	35.5	10.0
2-M18	14.0	50	31	33	35.5	11.0
2-M20	15.0	50	31	33	35.5	12.0
2-M22	17.0	50	31	33	35.5	13.0
2-M24	19.0	50	31	33	35.5	15.0
3-M18	14.0	72	48	45	55.5	11.0
3-M20	15.0	72	48	45	55.5	12.0
3-M22	17.0	72	48	45	55.5	13.0
3-M24	19.0	72	48	45	55.5	15.0
3-M27	20.0	72	48	45	55.5	15.0
3-M30	23.0	72	48	45	55.5	17.0
3-M33	25.0	72	48	45	55.5	19.0
3-M36	28.0	72	48	45	55.5	19.0
3-M38	19.0	72	48	45	55.5	21.0

• Based on JIS standard tap

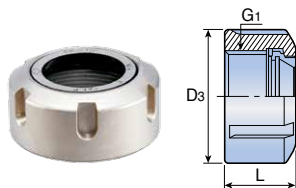
Accessories



[Contents](#)

NUT ER TOP

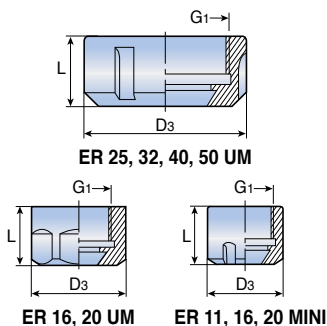
ER - Top™ clamping nut



Designation	Dimension (mm)		
	D3	L	G1
NUT ER16 TOP	28	17	M22x1.5
ER20 TOP	34	19	M25x1.5
ER25 TOP	42	20	M32x1.5
ER32 TOP	50	22	M40x1.5
ER40 TOP	63	25	M50x1.5

NUT ER MINI/UM

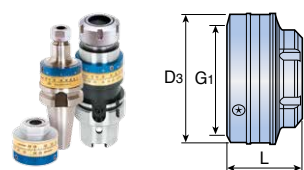
ER clamping nut



Designation	Dimension (mm)		
	D3	L	G1
NUT ER11 MINI	16	10.8	M13x0.75
ER11 UM	19	11.3	M14x0.75
ER16 MINI	22	18.0	M19x1.0
ER16 UM	28	17.0	M22x1.5
ER20 MINI	28	19.0	M24x1.0
ER20 UM	34	19.0	M25x1.5
ER25 MINI	35	20.0	M30x1.5
ER25 UM	42	20.0	M32x1.5
ER32 UM	50	22.0	M40x1.5
ER40 UM	63	25.0	M50x1.5
ER50 UM	78	55.0	M64x2.0

NUT ER TOP BIN

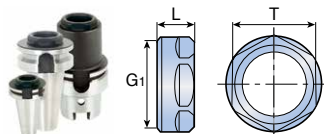
Balanceable ER top nut



Designation	Dimension (mm)		
	D3	L	G1
NUT ER16 TOP BIN	44	36.0	M22x1.5
ER20 TOP BIN	50	37.0	M25x1.5
ER25 TOP BIN	58	37.5	M32x1.5

NUT ER SHORT

T-SHORT nut



Designation	Dimension (mm)		
	T	L	G1
NUT ER20 SHORT	22	10.7	M25x1.5
ER32 SHORT	36	15.0	M40x1.5
ER40 SHORT	46	16.0	M50x1.5

TSKN

TSK clamping nut

Designation	Dimension (mm)		Fig.
	D ₃	G ₁	
TSKN 6	19.5	M15x1.0	1
10	27.5	M21.5x1.0	1
16	40.0	M32x1.5	2
25	55.0	M45x1.5	2

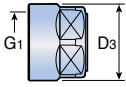


Fig.1

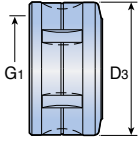


Fig.2

PS SK-DIN / PS CAT-ISO

Pull stud DIN69872 with JIS63398 retention knob / CAT-MAS G-mm

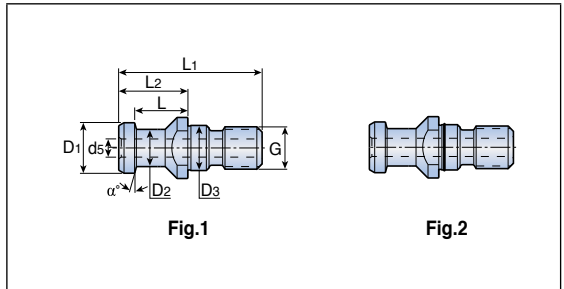
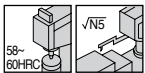


Fig.1

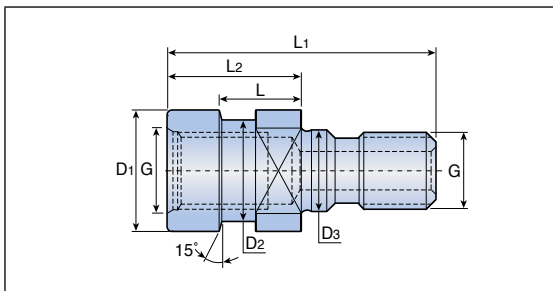
Fig.2

Designation	Dimension (mm)										Fig.
	G	D ₁	D ₂	D ₃	d ₅	L	L ₁	L ₂	α°		
PS SK30 15° M12 DIN	M12	13.00	9.0	13	-	19.00	44.0	24.00	15	1	
PS SK40 15° M16 DIN	M16	19.00	14.0	17	-	20.00	54.0	26.00	15	1	
15° M16 DIN O	M16	19.00	14.0	17	-	20.00	54.0	26.00	15	2	
15° M16 DIN B	M16	19.00	14.0	17	7.00	20.00	54.0	26.00	15	1	
15° M16 DIN OB	M16	19.00	14.0	17	7.00	20.00	54.0	26.00	15	2	
PS SK50 15° M24 DIN	M24	28.00	21.0	25	-	25.00	74.0	34.00	15	1	
15° M24 DIN O	M24	28.00	21.0	25	-	25.00	74.0	34.00	15	2	
15° M24 DIN B	M24	28.00	21.0	25	11.50	25.00	74.0	34.00	15	1	
PS CAT30 45° M12 ISO B	M12	13.35	9.3	13	4.75	8.13	34.0	11.80	45	1	
PS CAT40 45° M16 ISO B	M16	18.95	12.9	17	7.35	11.15	44.5	16.40	45	1	
PS CAT50 45° M24 ISO B	M24	29.10	19.6	25	8.00	17.95	65.5	25.55	45	1	

- Coolant holes only in items with a "B" suffix
- Fig. 2: With external O-ring

PS OTT BT/SK

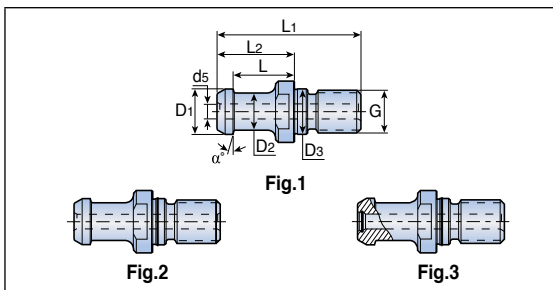
Pull stud OTT system



Designation	Dimension (mm)						
	G	D1	D2	D3	L	L1	L2
PS OTT BT40 M16	M16	25.0	21.1	17	16.60	56	28
BT50 M24	M24	39.3	32.0	24	13.35	65	25
SK40 M16	M16	25.0	21.1	17	13.60	53	25

PS BT-JIS/MAZAK

Pull stud BT-JIS 63398 / ANSI-metric for MAZAK machine

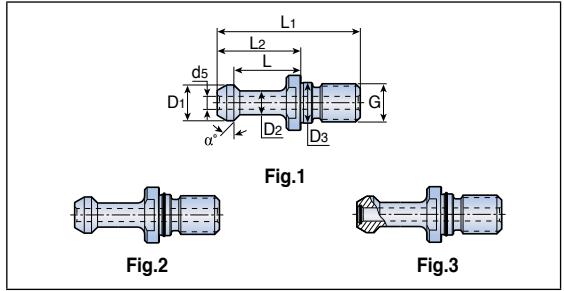


Designation	Dimension (mm)									Fig.
	G	D1	D2	D3	d5	L	L1	L2	α°	
PS BT30 15° M12 JIS B	M12	12.00	8.00	13	4.0	18.400	43.0	23.4	15	1
BT40 15° M16 JIS B	M16	19.00	14.00	17	5.5	23.000	54.0	29.0	15	1
BT40 15° M16 JIS O B	M16	19.00	14.00	17	5.5	23.000	54.0	29.0	15	2
BT40 15° M16 JIS O B O	M16	19.00	14.00	17	5.5	23.000	54.0	29.0	15	3
BT50 15° M24 JIS B	M24	28.00	21.00	25	8.0	25.000	74.0	34.0	15	1
BT50 15° M24 JIS O B	M24	28.00	21.00	25	8.0	25.000	74.0	34.0	15	2
BT50 15° M24 JIS O B O	M24	28.00	21.00	25	8.0	25.000	74.0	34.0	15	3
BT40 45° M16 MAZAK B	M16	18.79	12.45	17	7.0	14.026	44.1	19.1	45	1
BT50 45° M24 MAZAK B	M24	28.95	20.83	25	8.0	17.580	65.2	25.2	45	1

- Fig. 1: Coolant holes only in items with a "B" suffix
- Fig. 2: With external O-ring and coolant hole
- Fig. 3: With external and internal O-rings and coolant hole

PS BT-MAS

Pull stud BT-MAS-metric

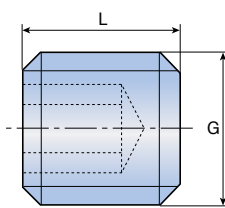


Designation	Dimension (mm)									Fig.	
	G	D1	D2	D3	d5	L	L1	L2	α°		
PS BT30	45 M12 MAS1	M12	11	7	12.5	-	18	43	23	45	1
	45 M12 MAS1 B	M12	11	7	12.5	3.0	18	43	23	45	1
	60 M12 MAS2	M12	11	7	12.5	-	18	43	23	30	1
PS BT40	45 M16 MAS1	M16	15	10	17.0	-	28	60	35	45	1
	45 M16 MAS1 B	M16	15	10	17.0	5.5	28	60	35	45	1
	60 M16 MAS2	M16	15	10	17.0	-	28	60	35	30	1
	60 M16 MAS2 B	M16	15	10	17.0	5.5	28	60	35	30	1
	90 M16 MAS3	M16	15	10	17.0	-	28	60	35	90	1
	90 M16 MAS3 B	M16	15	10	17.0	5.5	28	60	35	90	1
PS BT50	45 M24 MAS1	M24	23	17	25.0	-	35	85	45	45	1
	45 M24 MAS1 B	M24	23	17	25.0	6.0	35	85	45	45	1
	45 M24 MAS1 O B	M24	23	17	25.0	6.0	35	85	45	45	2
	45 M24 MAS1 O B O	M24	23	17	25.0	6.0	35	85	45	45	3
	60 M24 MAS2	M24	23	17	25.0	-	35	85	45	30	1
	60 M24 MAS2 B	M24	23	17	25.0	6.0	35	85	45	30	1
	90 M24 MAS3	M24	23	17	25.0	-	35	85	45	90	1
	90 M24 MAS3 B	M24	23	17	25.0	6.0	35	85	45	90	1

- Fig. 1: Coolant holes only in items with a "B" suffix
- Fig. 2: With external O-ring and coolant hole
- Fig. 3: With external and internal O-rings and coolant hole

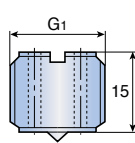
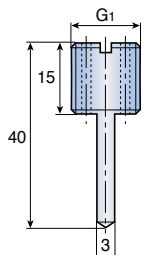
SR-DIN

Lock screw DIN1835 B/E for end mill holder

	Designation	Dimension (mm)		
		G	L	Used for shanks
	SR M6x10 DIN 1835-B	M6	10	6
	M8x10 DIN 1835-B	M8	10	8
	M10x12 DIN 1835-B	M10	12	10
	M12x16 DIN 1835-B	M12	16	12,14
	M14x16 DIN 1835-B	M14	16	16
	M16x16 DIN 1835-B	M16	16	20
	M18x2x20 DIN 1835-B	M18x2	20	25
	M20x2x20 DIN 1835-B	M20x2	20	32, 40
	M24x2x25 DIN 1835-B	M24x2	25	50

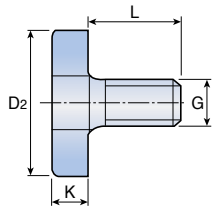
PRESET ER-JET

Preset screw with oil hole for ER collet

		Designation	Dimension (mm)	Fig.
			G1	
		PRESET ER-JET 8x1.25	M8x1.25	1
		10x1.5	M10x1.5	1
		12x1.75	M12x1.75	1
		12x1.75L	M12x1.75	2
		16x2	M16x2	1
		16x2L	M16x2	2
		18x1.5	M18x1.5	1
		18x1.5L	M18x1.5	2
		22x1.5	M22x1.5	1
		22x1.5L	M22x1.5	2
		28x1.5	M28x1.5	1

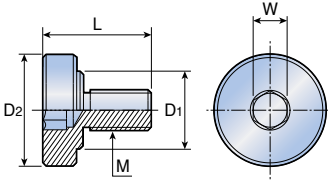
M-CLAMP SCREW SEM

Lock screw DIN6367 for face mill arbor

	Designation	Dimension (mm)				
		S.M.C	G	D2	K	L
	M8 CLAMP SCREW SEM 16	16	M8	20	6	16
	M10 CLAMP SCREW SEM 22	22	M10	28	7	18
	M12 CLAMP SCREW SEM 27	27	M12	35	8	22
	M16 CLAMP SCREW SEM 32	32	M16	42	9	26
	M20 CLAMP SCREW SEM 40	40	M20	52	10	30
	M24 CLAMP SCREW SEM 50	50	M24	63	12	36

MBA M

Lock screw for FMA



Designation	Dimension (mm)				
	M	D ₂	D ₁	L	W
MBA M8	M8x1.25	20	15	24	6
M10	M10x1.5	28	18	28	8
M12	M12x1.75	33	23	32	10
M16	M16x2.0	40	23	40	14
M20	M20x2.5	50	27	50	17
M24	M24x3.0	65	37	60	19

• Wrench for MBA screw: L-W □□

WRENCH M-SEMC

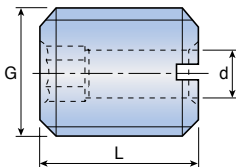
Wrench DIN6368 for combi shell end mill holder



Designation	Dimension (mm)		
	S.M.C	H	L
WRENCH M8 SEMC 16	16	20	180
M10 SEMC 22	22	25	200
M12 SEMC 27	27	32	225
M16 SEMC 32	32	36	250
M20 SEMC 40	40	40	280
M24 SEMC 50	50	50	315

PRESET SCREW

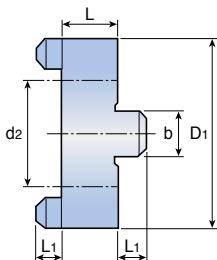
SRKIN thermal shrink collets



Designation	Dimension (mm)					
	G	L	d	Used for shanks	Hey key	
PRESET SCREW M5x20 B	M5	20	2.1	EM E / SRKIN	2.5	
M6x20 B	M6	20	2.5	EM E / SRKIN	3.0	
M8x20 B	M8	20	3.5	EM E / SRKIN	4.0	
M10x18 B	M10	18	4.5	EM E / SRKIN	5.0	
M12x18 B	M12	18	5.5	EM E / SRKIN	6.0	
M16x20 B	M16	20	7.5	EM E / SRKIN	6.0	
M16x25 B	M16	25	7.5	SRKIN	6.0	
M20x20 B	M20	20	6.0	EM E	6.0	

D-RING SEMC

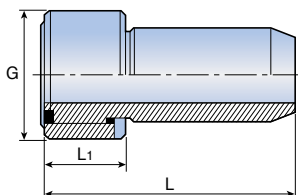
Driving ring DIN6366/1 for combi shell end mill holder



Designation	Dimension (mm)				
	b	d2	D1	L	L1
16 D · RING SEMC	8	16	32	10	5.0
22 D · RING SEMC	10	22	40	12	5.6
27 D · RING SEMC	12	27	48	12	6.3
32 D · RING SEMC	14	32	58	14	7.0
40 D · RING SEMC	16	40	70	14	8.0
50 D · RING SEMC	18	50	90	16	9.0

COOLING TUBE HSK A

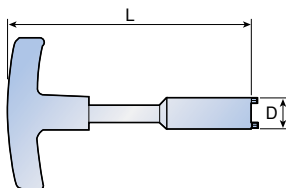
HSK A cooling tube



Designation	Dimension (mm)		
	L	L1	G
COOLING TUBE HSK A 50	32.7	9.5	M16x1
HSK A 63	36.0	11.5	M18x1
HSK A 80	36.6	13.5	M20x1.5
HSK A 100	43.6	15.5	M20x1.5

WRENCH COOL TUBE HSK A

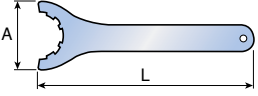

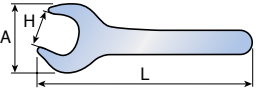
HSK A cooling tube wrench



Designation	Dimension (mm)	
	D	L
WRENCH COOL TUBE HSK A 50	15.0	120
HSK A 63	17.0	122
HSK A 83	18.5	186
HSK A 100	22.0	141

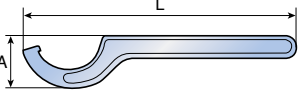
WRENCH ER-MINI/SHORT/CLICKIN

ER wrench

DIN6499	Designation	Dimension (mm)		
		A	H	L
 <p>Wrench ER 25, 32, 40, 50</p>	WRENCH ER11 MINI	16.8	-	95
	ER11	32.0	17	95
	ER16 MINI	22.5	-	117
 <p>Wrench ER 11, 16, 20, 25 MINI</p>	ER16	42.8	25	143
	ER20 MINI	28.0	-	128
	ER20	53.5	30	172
	ER25 MINI	29.0	-	120
	ER25	70.0	-	207
 <p>Wrench ER 11, 16, 20, SHORT, CLICKIN</p>	ER32	78.0	-	255
	ER40	95.0	-	285
	ER50	110.0	-	350
	ER32 SHORT	75.0	36	303
	ER40 SHORT	94.0	46	378
	ER32 CLICKIN 27	57.0	27	239
	ER32 CLICKIN 32	67.0	32	273


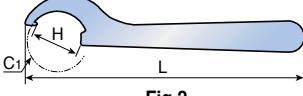
SPANNER TMC

TMC milling chuck wrench

	Designation	Dimension (mm)	
		L	A
	SPANNER TMC 20	84.1	15.8
	TMC 25	94.3	18.1
	TMC 32	109.1	21.7
	TMC 42	108.0	23.2

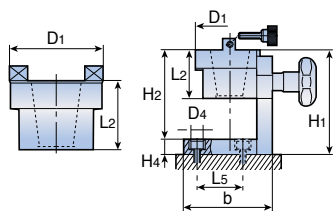
TSKS

TSK slim chuck wrench

	Designation	Dimension (mm)			Fig.
		H	L	C1	
 <p>Fig.1</p>	TSKS - 6	18.0	174	-	1
	10	25.4	177	-	1
	16	39.0	225	40	2
	25	52.0	228	55	2
 <p>Fig.2</p>					

TOOL CLAMP-ROTARY/FIX

Tool clamp fixture - ISO, DIN69871, BT MAS-403



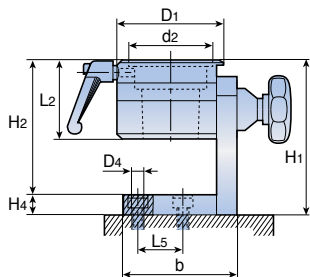
FIX

ROTARY

Designation	Dimension (mm)								
	CSI	b	D1	D4	L2	H1	H2	H4	L5
TOOL CLAMP 30 ROTARY	ROTARY	104	70	12.5	56	128	109	19	40
40 ROTARY	ROTARY	104	82	12.5	56	128	109	19	40
50 ROTARY	ROTARY	104	103	12.5	71	170	151	19	85
30 FIX	FIX	-	82	-	58	-	-	-	-
40 FIX	FIX	-	82	-	58	-	-	-	-
50 FIX	FIX	-	103	-	71	-	-	-	-

MULTI CLAMP-E/F, A/C

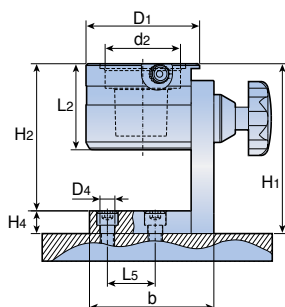
Tool clamp fixture rotary - For HSK shank



Designation	Dimension (mm)									
	CSI	b	d2	D1	D4	L2	L5	H1	H2	H4
MULTI CLAMP 40E/F	40	144	40	113.2	12.5	40	40	133	114	19
50E/F	50	144	50	113.2	12.5	40	40	133	114	19
63E/F	63	144	63	113.2	12.5	40	40	133	114	19
50 A/C	50	104	50	82.0	12.5	40	40	142	123	19
63 A/C	63	104	63	95.0	12.5	40	40	142	123	19
100 A/C	100	144	100	130.0	12.5	85	85	178	159	19

MULTI CLAMP C

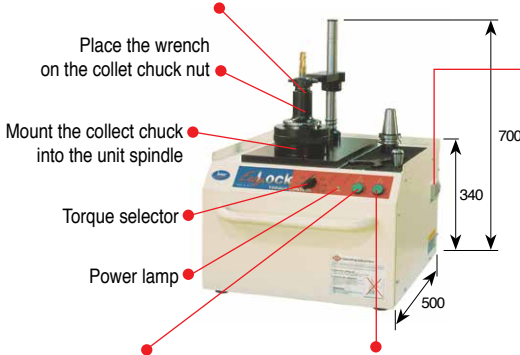
C-ADAPTER rotary clamp



Designation	Dimension (mm)									
	SS	b	d2	D1	D4	L2	L5	H1	H2	H4
MULTI CLAMP C6	63	104	63	95	12.5	72	40	142	123	19

EASYLOCK T.C EU

Choose the correct wrench size.
Mount it on the wrench holder.



Ensure that main poser switch is on and that the power supply cable is connected

To unclamp -
Push and hold in the "unclmap" button until the collect chuck is totally open

To clamp -
Push and hold in the "clmap" button until the collect chuck is totally open

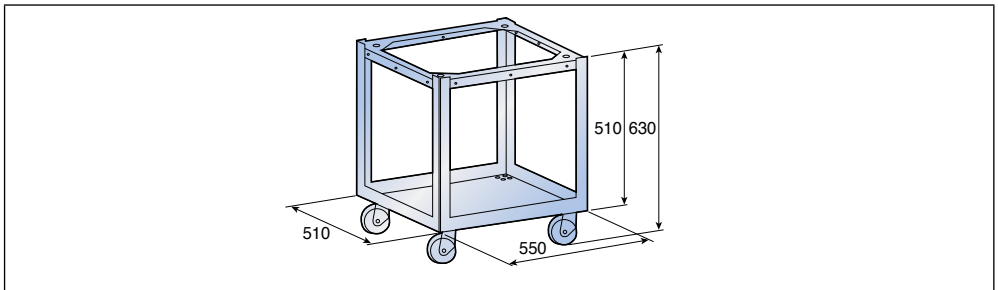
Specifications

- Motor : Phase 200/240V, 50/60HZ(1HP)
- Spindle : Taper #40, 50
HSK 63, 100
- Weight : Table model - 85kg
Trolley (Optional) - 15kg

Note: Assemble the collect and cutting tools. By hand, place the nut onto the collect chuck.

Designation	TaeguTec No.	Accssories	
		Standard	Optional
EASYLOCK T.C EU	4651108	TP50 AD 40 EASY	EASY LOCK TROLLEY
		WRENCH ER16 EASY LOCK	TP40 AD 30 EASY
		WRENCH ER20 EASY LOCK	TP50 AD HSK 63 EASY
		WRENCH ER25 EASY LOCK	TP50 AD HSK 100 EASY
		WRENCH ER32 EASY LOCK	
		WRENCH ER40 EASY LOCK	WRENCH ER50 EASY LOCK
			WRENCH TG100 OPEN EASY

EASYLOCK TROLLEY

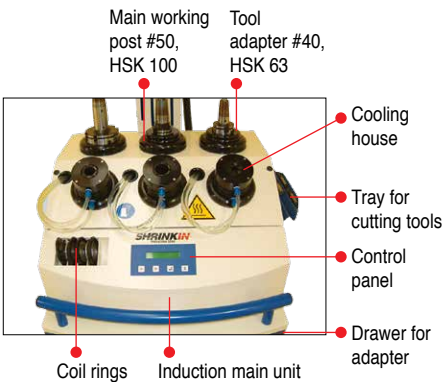


Designation	TaeguTec No.
EASYLOCK TROLLEY	4651109

Induction heating unit



Technical specifications		
Clamping range	3-32mm	Carbide tool shank
Clamping range	6-32mm	
Main power supply	3x380 - 500V 50/60Hz	
Nominal power	13kW	
Nominal current	16 AMP	
Cooling unit power supply	220V 50Hz	
Nominal power	0.5kW	
Max. tool length	440mm (From gauge line)	
Max. dia. clamping chuck	52mm	
Effective induction field length	45mm	
Expansion time	5-12 seconds	
Cooling time	50-90 seconds	
Weight	150kg	
Overall dimensions	170x73x60cm	



INDUCTION starter unit
4654106 IND SHRINK START UNIT EUR

- One working post without cooling unit

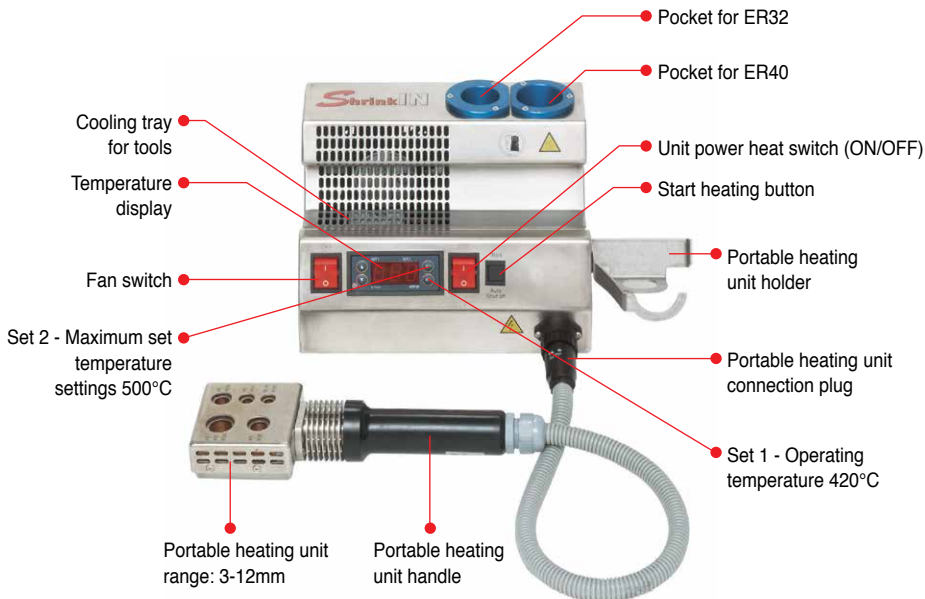
TaeguTec No.	Designation	Includes
4652264	IND SHRINKIN UNIT EUR	Induction unit, cooling unit, trolley, three tool adapters

Cooling sleeves		Used for
IND COOLING COLLET 6-8		SRKIN
10-12		SRKIN
14-16		SRKIN
18-20		SRKIN
ER 3-5		SRK
ER 6		SRK
ER 8		SRK
ER 10		SRK
ER 12		SRK

Optional tool adapter for HSK	
IND 32 HSK TOOL ADAPTER	
40 HSK TOOL ADAPTER	
50 HSK TOOL ADAPTER ⁽¹⁾	
63 HSK TOOL ADAPTER	
80 HSK TOOL ADAPTER	

• ⁽¹⁾ For taper #30

► Thermal heating unit



■ T-SHRINK thermal electric unit

TaeguTec No.	Designation
4651950	SHRINKIN UNIT V2 EUR

220V 50/60 HZ

- Unit includes heating handle 220V V2.0
- Available for ER...SRK, ER...SRF collet

■ Portable heating unit handle

TaeguTec No.	Designation
4651952	HEATING HANDLE 220V V2

► T-SHRINK / ER32 collet set and kit

■ ER32 T-SHRINK set 6 collets (4-12)

Designation	Collet size
SET ER32 SRK S 6 EUR	4, 5, 6, 8, 10, 12
SRK M 6 EUR	4, 5, 6, 8, 10, 12
SRK L 6 EUR	4, 5, 6, 8, 10, 12



■ T-SHRINK thermal electric unit kit with ER32 T-SHRINK 6 pieces collet set (4-12)

Designation	Power supply	Collet size
KIT SHRINKIN S V2 EUR	220V 50/60 HZ	4, 5, 6, 8, 10, 12
M V2 EUR	220V 50/60 HZ	4, 5, 6, 8, 10, 12

