



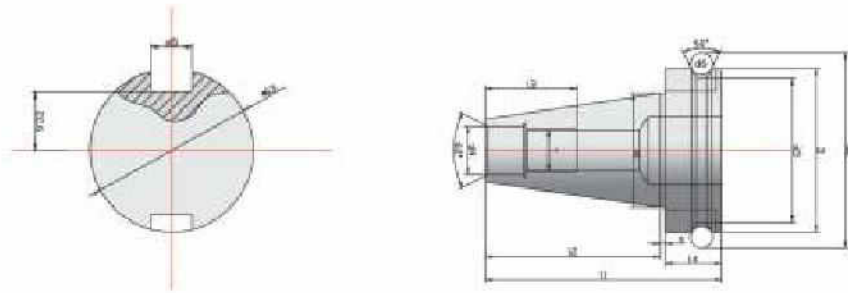
Product Catalogue

Tool Holder MAS 403 BT



Taper Standard

MAS 403



Model	D	d1	d2	d3	d4	d5	d6	l1	l2	l3	l4	a	T
BT30	46	31.75	56.14	38	12.5	16.1	8	70.4	48.4	24	20	2	M12 1.75P
BT40	63	44.45	75.679	53	17	16.1	10	92.4	65.4	30	25	2	M16 2.0P
BT50	100	69.85	119.02	83	25	25.7	15	139.8	101.8	45	35	3	M24 3.0P

Material: Alloyed case hardened steel, black-finished and precisely grinded

Taper tolerance: <AT3

Hardness: HRC 56-58

Carbon depth: 0.8mm±0.2mm

Max run out: <0.005mm

Surface Roughness: Ra<0.005mm

Cooling AD+B type can be made by request

When Order, please specify balancing G6.3 or G2.5

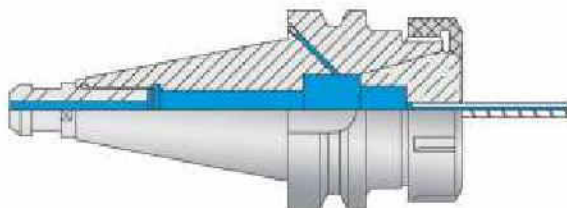
Shank body standard: MAS 403 and B6339

Cooling

Form A: without cooling supply

Form AD: central cooling supply

Form AD+B: central cooling and internal coolant through the collar



ER Collet Chuck DIN6499 - - - - - 1.03



Precision Milling Chuck - - - - - 1.05



OZ Collet Chuck DIN6391 - - - - - 1.06



TG Collet Chuck - - - - - 1.07



SK Collet Chuck - - - - - 1.08



FMB Face Mill Holder DIN6357 - - - - 1.09



FMA Face Mill Holder - - - - - 1.10



MTA Morse Taper Adapter DIN6383 - - - 1.11



MTB Morse Taper Adapter (with Drawbar) DIN6364 - - 1.12



Side Lock End Mill Holder DIN6359/1835B (Weldon) - - 1.13



End Mill Holder Whistle North DIN6359/1835E - - 1.15



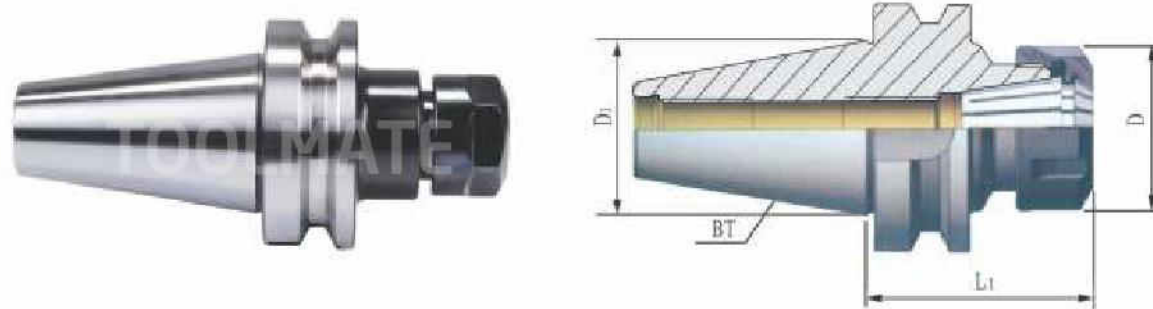
APU Drill Chuck Holder - - - - 1.16



Combi Shell Mill Holder DIN6358 - - - 1.17

ER Collet Chuck DIN6499

MAS 403



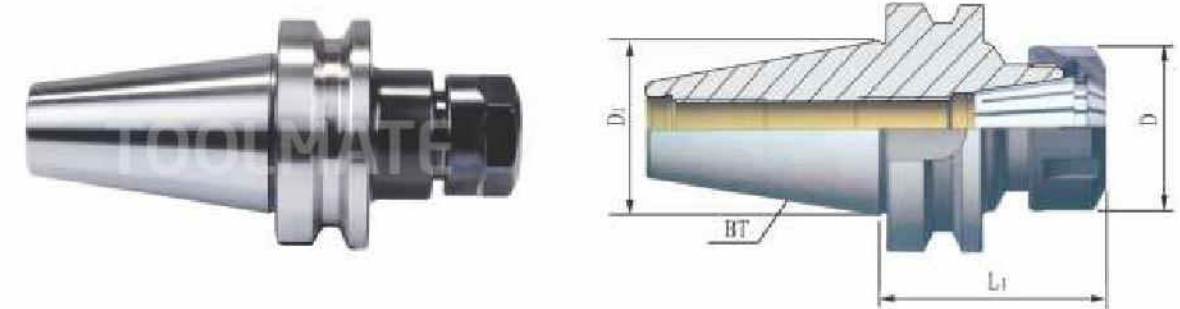
Model	D	D1	L1	Clamping Range	Wt(kg)
BT30xER20-70	35	31.75	70	0.5-13	0.55
BT30xER25-70	42	31.75	70	0.5-16	0.58
BT30xER32-70	50	31.75	70	1-20	0.85
BT30xER40-80	63	31.75	80	2-26	1.10
BT40xER16-70	32	44.45	70	0.5-10	1.14
BT40xER20-70	35	44.45	70	0.5-13	1.16
BT40xER20-100	35	44.45	100	0.5-13	1.38
BT40xER20-130	35	44.45	130	0.5-13	1.76
BT40xER25-70	42	44.45	70	0.5-16	1.22
BT40xER25-100	42	44.45	100	0.5-16	1.52
BT40xER25-130	42	44.45	130	0.5-16	1.90
BT40xER25-160	42	44.45	160	0.5-16	2.10
BT40xER32-70	50	44.45	70	1-20	1.30
BT40xER32-100	50	44.45	100	1-20	1.72
BT40xER32-130	50	44.45	130	1-20	2.05
BT40xER32-160	50	44.45	160	1-20	2.58
BT40xER40-80	63	44.45	80	2-26	1.45
BT40xER40-100	63	44.45	100	2-26	2.01
BT40xER40-160	63	44.45	160	2-26	3.29

Use: For clamping tools with straight shank in collets of DIN 6499



ER Collet Chuck DIN6499

MAS 403



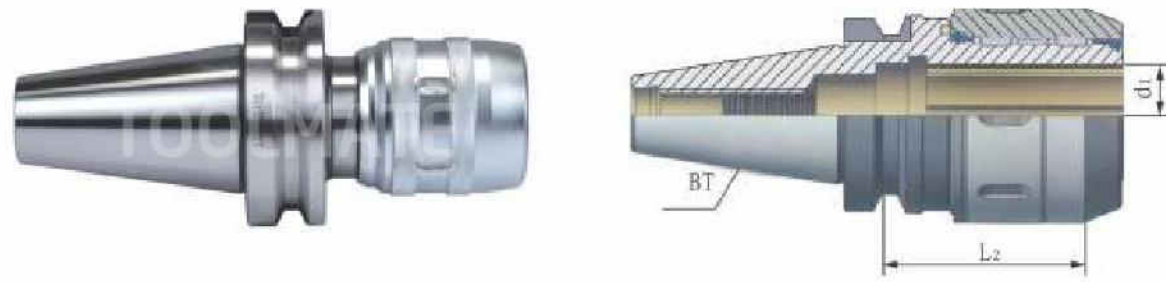
Model	D	D1	L1	Clamping Range	Wt(kg)
BT50xER16-70	28	69.85	70	0.5-10	3.64
BT50xER20-70	35	69.85	70	0.5-13	3.67
BT50xER20-100	35	69.85	100	0.5-13	3.84
BT50xER25-70	42	69.85	70	0.5-16	3.70
BT50xER25-100	42	69.85	100	0.5-16	4.54
BT50xER32-70	50	69.85	70	1-20	3.73
BT50xER32-100	50	69.85	100	1-20	5.20
BT50xER32-160	50	69.85	160	1-20	4.97
BT50xER32-200	50	69.85	200	1-20	5.48
BT50xER40-80	63	69.85	80	2-26	3.76
BT50xER40-100	63	69.85	100	2-26	4.44
BT50xER40-160	63	69.85	160	2-26	5.77
BT50xER40-200	63	69.85	200	2-26	6.66

Use: For clamping tools with straight shank in collets of DIN 6499



Precision Milling Chuck

MAS 403



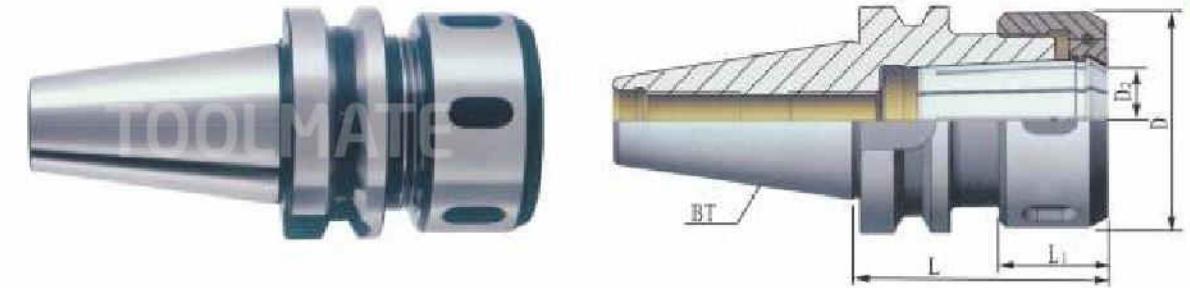
Model	d1	L2	Wt(kg)
BT30-SC20-75	20	75	1.8
BT30-SC20-90	20	90	2.0
BT40-SC20-80	20	80	2.4
BT40-SC20-100	20	100	2.5
BT40-SC20-135	20	135	2.8
BT40-SC32-90	32	90	2.6
BT40-SC32-105	32	105	2.8
BT40-SC32-135	32	135	3.0
BT50-SC20-105	20	105	4.5
BT50-SC20-150	20	150	4.9
BT50-SC32-110	32	110	5.2
BT50-SC32-135	32	135	5.9
BT50-SC32-165	32	165	6.6
BT50-SC32-200	32	200	8.0
BT50-SC42-110	42	110	6.0
BT50-SC42-130	42	130	6.5
BT50-SC42-165	42	165	7.4

Use: For mounting shank tools in collets; to use for high speed cutting and high precision milling



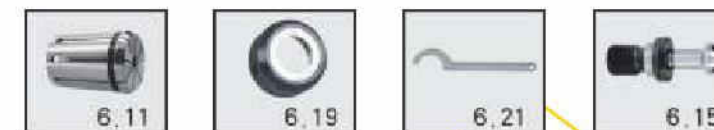
OZ Collet Chuck DIN6391

MAS 403



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

Use: For clamping tools with straight shank in collets of DIN6388



TG Collet Chuck

MAS 403

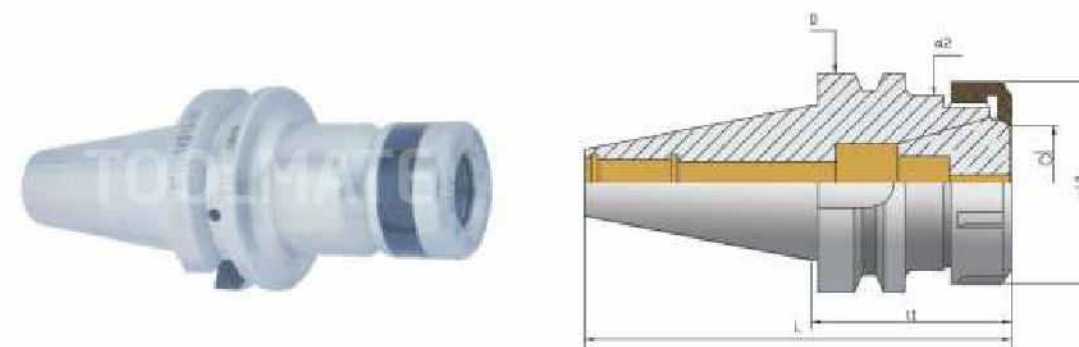


Model	L	l1	D	d1	t2	T	Wt(kg)
BT30 TG75-70	118.4	70	46	50	M16 2.0P	TW1-1/2"-12	1.10
BT30 TG75-100	148.4	100	46	50	M16 2.0P	TW1-1/2"-12	1.15
BT30 TG100-100	148.4	100	46	6	-	TW1-7/8"-12UN	1.20
BT40 TG100-70	135.4	70	63	60	M16 2.0P	TW1-7/8"-12UN	1.36
BT40 TG100-100	165.4	100	63	60	M16 2.0P	TW1-7/8"-12UN	1.90
BT40 TG100-120	185.4	120	63	60	M16 2.0P	TW1-7/8"-12UN	2.38
BT40 TG150-105	170.4	105	63	82	M24 2.0P	TW2-5/8"-12	2.70
BT40 TG150-120	185.4	120	63	82	M24 2.0P	TW2-5/8"-12	2.90
BT50 TG100-85	186.8	85	100	60	M24 2.0P	TW1-7/8"-12UN	3.40
BT50 TG100-100	201.8	100	100	60	M24 2.0P	TW1-7/8"-12UN	4.40
BT50 TG100-120	221.8	120	100	60	M24 2.0P	TW1-7/8"-12UN	5.10
BT50 TG150-90	191.8	90	100	82	M24 2.0P	TW2-5/8"-12	5.70
BT50 TG150-105	206.8	105	100	82	M24 2.0P	TW2-5/8"-12	6.10
BT50 TG150-120	221.8	120	100	82	M24 2.0P	TW2-5/8"-12	6.50



SK Collet Chuck

MAS 403

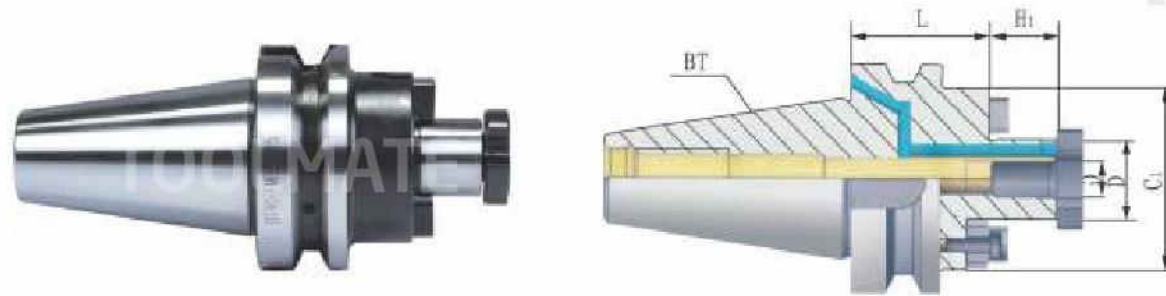


Model	L	D	d	d1	d2	Wt(kg)
BT30-SK6-45	93.4	46	9.946	18	18	0.49
BT30-SK6-60	108.4	46	9.946	18	18	0.90
BT30-SK10-45	93.4	46	14.981	30	27.6	0.80
BT30-SK10-60	108.4	46	14.981	30	27.6	0.56
BT30-SK10-90	138.4	46	14.981	30	27.6	0.58
BT30-SK16-60	108.4	46	23.939	40	52	0.59
BT40-SK6-90	155.4	63	9.946	18	32	1.16
BT40-SK6-120	185.4	63	9.946	18	32	1.21
BT40-SK10-90	155.4	63	14.981	30	40	1.29
BT40-SK10-120	185.4	63	14.981	30	40	1.42
BT40-SK16-90	155.4	63	23.939	40	52	1.40
BT40-SK16-120	185.4	63	23.939	40	52	1.71
BT40-SK25-90	155.4	63	35.029	55.1	55	1.49
BT40-SK25-120	185.4	63	35.029	55.1	55	1.80
BT50-SK6-90	191.8	100	9.946	18	32	4.00
BT50-SK6-120	221.8	100	9.946	18	32	4.20
BT50-SK10-105	206.8	100	14.981	30	40	3.99
BT50-SK10-150	251.8	100	14.981	30	40	4.60
BT50-SK10-165	266.8	100	14.981	30	40	4.30
BT50-SK16-105	206.8	100	23.939	40	52	4.15
BT50-SK16-150	251.8	100	23.939	40	52	4.70
BT50-SK16-165	266.8	100	23.939	40	52	4.50
BT50-SK25-105	206.8	100	35.029	55.1	55	4.50
BT50-SK25-150	251.8	100	35.029	55.1	55	4.80



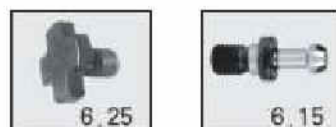
FMB Face Mill Holder DIN6357

MAS 403



Model	D	L	C1	H1	G
BT30-FMB22-45	22	45	56	18	M10
BT30-FMB27-45	27	45	64	20	M12
BT40-FMB22-45	22	45	48	18	M10
BT40-FMB22-90	22	90	48	18	M10
BT40-FMB27-45	27	45	60	20	M12
BT40-FMB27-60	27	60	60	20	M12
BT40-FMB27-90	27	90	60	20	M12
BT40-FMB32-45	32	45	63	21	M16
BT40-FMB32-60	32	60	63	21	M16
BT40-FMB40-45	40	45	68	23	M16
BT40-FMB40-60	40	60	68	23	M16
BT50-FMB22-45	22	45	48	18	M10
BT50-FMB22-75	22	75	48	18	M10
BT50-FMB27-45	27	45	65	20	M12
BT50-FMB27-75	27	75	65	20	M12
BT50-FMB27-90	27	90	65	20	M12
BT50-FMB32-45	32	45	73	21	M16
BT50-FMB32-75	32	75	73	21	M16
BT50-FMB40-45	40	45	85	23	M16
BT50-FMB40-75	40	75	85	23	M16
BT50-FMB40-105	40	105	85	23	M16

Use: For holding like shell mill cutters



FMB Face Mill Holder

MAS 403



Model	D1	L1	G	Cutter Dia.
BT30-FMA25.4-45	25.4	45	M12	76
BT30-FMA25.4-60	25.4	60	M12	76
BT40-FMA25.4-45	25.4	45	M12	76
BT40-FMA25.4-60	25.4	60	M12	76
BT40-FMA31.75-45	31.75	45	M12	102
BT40-FMA31.75-60	31.75	60	M12	102
BT40-FMA31.75-90	31.75	90	M12	102
BT40-FMA38.1-60	38.1	60	M16	127
BT40-FMA38.1-90	38.1	90	M16	127
BT50-FMA25.4-75	25.4	75	M12	76(80)
BT50-FMA25.4-105	25.4	105	M12	76(80)
BT50-FMA25.4-125	25.4	125	M12	76(80)
BT50-FMA25.4-150	25.4	150	M12	76(80)
BT50-FMA31.75-45	31.75	45	M12	100(102)
BT50-FMA31.75-75	31.75	75	M12	100(102)
BT50-FMA31.75-105	31.75	105	M12	100(102)
BT50-FMA31.75-125	31.75	125	M12	100(102)
BT50-FM131.75-150	31.75	150	M12	100(102)
BT50-FMA38.1-45	38.1	45	M16	125
BT50-FMA38.1-75	38.1	75	M16	125
BT50-FMA50.8-45	50.8	45	M16	152
BT50-FMA50.8-75	50.8	75	M16	152

Use: For holding like shell mill cutters



MTA Morse Taper Adapter DIN6383

MAS 403



Model	MT. No.	L	ØD	Wt(kg)
BT30-MTA1-45	1	45	25	0.43
BT30-MTA2-60	2	60	32	0.5
BT40-MTA1-45	1	45	25	1.02
BT40-MTA2-60	2	60	32	1.11
BT40-MTA3-75	3	75	40	1.15
BT40-MTA4-90	4	90	48	1.43
BT50-MTA1-45	1	45	25	3.6
BT50-MTA2-50	2	50	32	3.63
BT50-MTA2-60	2	60	32	3.64
BT50-MTA2-120	2	120	32	4.3
BT50-MTA3-65	3	65	40	3.7
BT50-MTA3-120	3	120	40	4.4
BT50-MTA3-135	3	135	40	4.46
BT50-MTA3-150	3	150	40	4.68
BT50-MTA4-85	4	85	48	3.75
BT50-MTA4-95	4	95	48	3.85
BT50-MTA5-105	5	105	63	5
BT50-MTA5-108	5	108	63	5.06

Use: For holding tools with Morse tapers and tang according to DIN228-1 form A



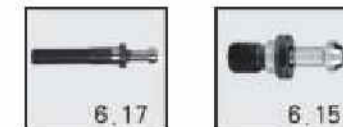
MTB Morse Taper Adapter (with Drawbar) DIN6364

MAS 403



Model	MT.No.	L	D	Wt(kg)
BT30-MTB1-45	1	45	25	0.55
BT30-MTB2-60	2	60	32	0.6
BT40-MTB1-45	1	45	25	1.05
BT40-MTB2-45	2	45	32	1.85
BT40-MTB3-75	3	75	40	1.9
BT40-MTB4-75	4	75	48	1.7
BT50-MTB1-45	1	45	25	4.1
BT50-MTB2-45	2	45	32	3.9
BT50-MTB3-60	3	60	40	3.9
BT50-MTB4-75	4	75	50	4.2
BT50-MTB5-120	5	120	70	4.3

Use: For clamping tools with Morse tapers and drawbar thread according to DIN228-1 form B



Side Lock End Mill Holder DIN6359/1835B (Weldon)

MAS 403



Model	d1	d2	L1	Wt(kg)
BT30-SLA6-60	6	25	60	0.55
BT30-SLA8-60	8	28	60	0.60
BT30-SLA10-60	10	35	60	0.70
BT30-SLA12-60	12	42	60	0.75
BT30-SLA16-75	16	48	75	1.05
BT30-SLA20-75	20	52	75	1.10
BT30-SLA25-90	25	65	90	1.70
BT40-SLA6-50	6	25	50	1.10
BT40-SLA8-50	8	28	50	1.10
BT40-SLA10-63	10	35	63	1.25
BT40-SLA12-63	12	42	63	1.30
BT40-SLA16-63	16	48	63	1.40
BT40-SLA20-63	20	52	63	1.40
BT40-SLA25-100	25	65	100	2.50
BT40-SLA32-100	32	72	100	2.75

Use: For clamping cutters with straight shank and inclined flat of DIN1835-B



Side Lock End Mill Holder DIN6359/1835B (Weldon)

MAS 403



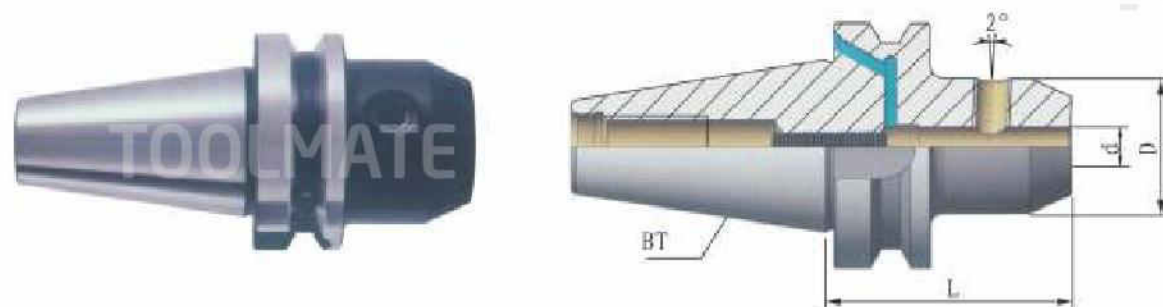
Model	d1	d2	L1	Wt(kg)
BT50-SLA6-63	6	25	63	3.80
BT50-SLA8-63	8	28	63	3.80
BT50-SLA10-63	10	35	63	3.90
BT50-SLA12-80	12	42	80	4.00
BT50-SLA16-80	16	48	80	4.40
BT50-SLA20-80	20	52	80	4.40
BT50-SLA25-100	25	65	100	5.10
BT50-SLA32-105	32	72	105	5.20
BT50-SLA40-115	40	90	115	6.60
BT50-SLA42-120	42	90	120	6.70

Use: For clamping cutters with straight shank and inclined flat of DIN1835-B



End Mill Holder Whistle North DIN6359/1835E

MAS 403



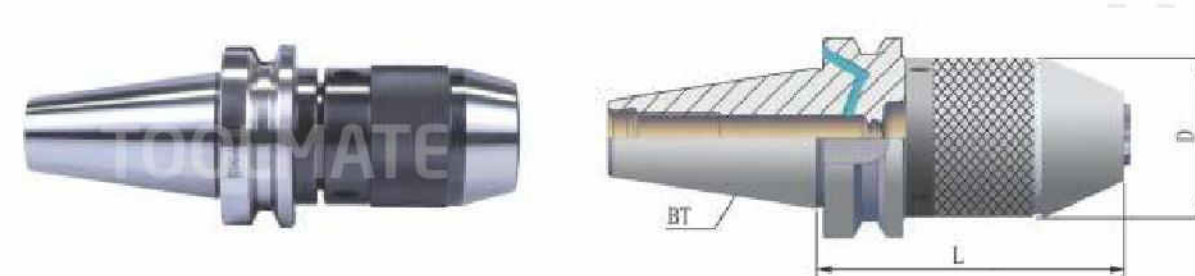
Model	d	D	L
BT40-SLB06-50	6	25	50
BT40-SLB08-50	8	28	50
BT40-SLB10-63	10	35	63
BT40-SLB12-63	12	42	63
BT40-SLB14-63	14	44	63
BT40-SLB16-63	16	48	63
BT40-SLB18-63	18	50	63
BT40-SLB20-63	20	52	63
BT40-SLB25-90	25	65	90
BT40-SLB32-100	32	72	100
BT40-SLB40-120	40	80	120
BT50-SLB06-63	6	25	63
BT50-SLB08-63	8	28	63
BT50-SLB10-63	10	35	63
BT50-SLB12-80	12	42	80
BT50-SLB14-80	14	44	80
BT50-SLB16-80	16	48	80
BT50-SLB18-80	18	50	80
BT50-SLB20-80	20	52	80
BT50-SLB25-100	25	65	100
BT50-SLB32-105	32	72	105
BT50-SLB40-110	40	80	110

Use: For clamping cutters with straight shank and inclined flat of DIN1835-E



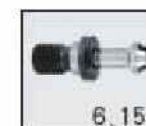
APU Drill Chuck Holder

MAS 403



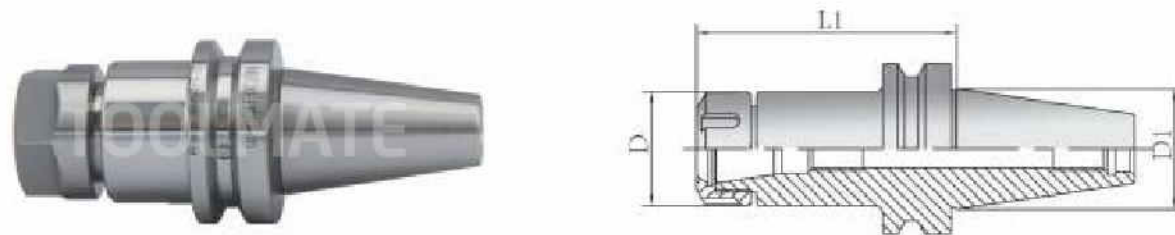
Model	Clamping Range	D	L	
			Min	Max
BT30-APU08-80	1-8	36.3	75	82
BT30-APU13-100	1-13	51.5	97	104.5
BT40-APU08-85	1-8	36.3	79	86.5
BT40-APU13-110	1-13	51.5	98	109
BT40-APU16-130	3-16	58	116	130
BT50-APU08-95	1-8	36.3	90	97.5
BT50-APU13-120	1-13	51.5	109	120
BT50-APU13-180	1-13	51.5	169	180
BT50-APU16-130	3-16	58	116	130
BT50-APU16-190	3-16	58	176	190

Use: For clamping tools with straight shank

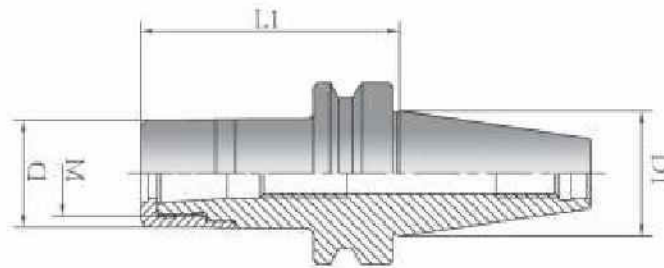


NBT Collet Chuck without Drive Slots

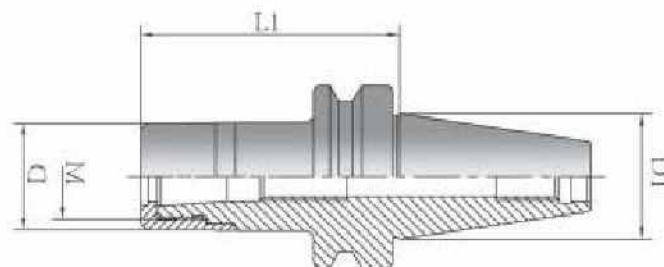
MAS 403



Model	D	D1	L1	Clamping Range	Wt(kg)
NBT30-ER16-60	28	31.75	60	0.5-10	0.52
NBT30-ER20-60	35	31.75	60	0.5-13	0.50
NBT30-ER25-60	42	31.75	60	0.5-16	0.58
NBT30-ER32-60	50	31.75	60	1-20	0.85



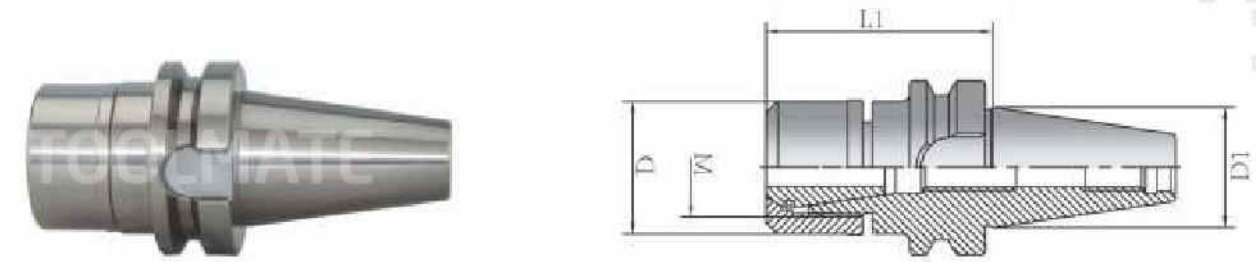
Model	D	D1	L1	Clamping Range	M
NBT30-SKS10-60	27.1	31.75	60	3-10	M21.5 1.0
NBT30-SKS16-60	40	31.75	60	3-16	M32 1.5



Model	D	D1	L1	Clamping Range	M
NBT30-GER16-60	25	31.75	60	3-10	M19 1.0
NBT30-GER20-60	30	31.75	60	3-13	M24 1.0
NBT30-GER25-60	35	31.75	60	3-16	M30 1.0

High Speed GER Collet Chuck

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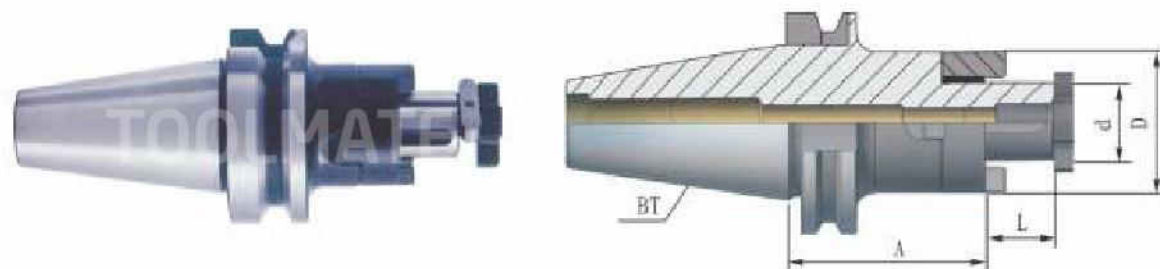
Model	Clamping Range	D1	D	L	M	Wt (kg)
BT30-GER16-60	1-10	31.75	30	60	22 1.5	0.5
BT30-GER16-90	1-10	31.75	30	90	22 1.5	0.6
BT30-GER20-60	1-13	31.75	35	60	26 1.5	0.5
BT30-GER20-90	1-13	31.75	35	90	26 1.5	0.6
BT30-GER25-60	1-16	31.75	40	60	32 1.5	0.7
BT30-GER25-90	1-16	31.75	40	90	32 1.5	0.8
BT30-GER32-75	2-20	31.75	48	75	40 1.5	1.0
BT30-GER32-90	2-20	31.75	48	90	40 1.5	1.0

BT40-GER16-70	1-10	44.45	30	70	22 1.5	1.0
BT40-GER16-100	1-10	44.45	30	100	22 1.5	1.2
BT40-GER20-70	1-13	44.45	35	70	26 1.5	1.0
BT40-GER20-100	1-13	44.45	35	100	26 1.5	1.2
BT40-GER25-70	1-16	44.45	40	70	32 1.5	1.5
BT40-GER25-100	1-16	44.45	40	100	32 1.5	1.7
BT40-GER32-70	2-20	44.45	48	70	40 1.5	1.8
BT40-GER32-100	2-20	44.45	48	100	40 1.5	1.9

BT50-GER16-100	1-10	69.85	30	100	22 1.5	4.3
BT50-GER20-100	1-13	69.85	35	100	26 1.5	4.3
BT50-GER25-100	1-16	69.85	40	100	32 1.5	4.5
BT50-GER32-100	2-20	69.85	48	100	40 1.5	5.2

Combi Shell Mill Holder DIN6358

MAS 403



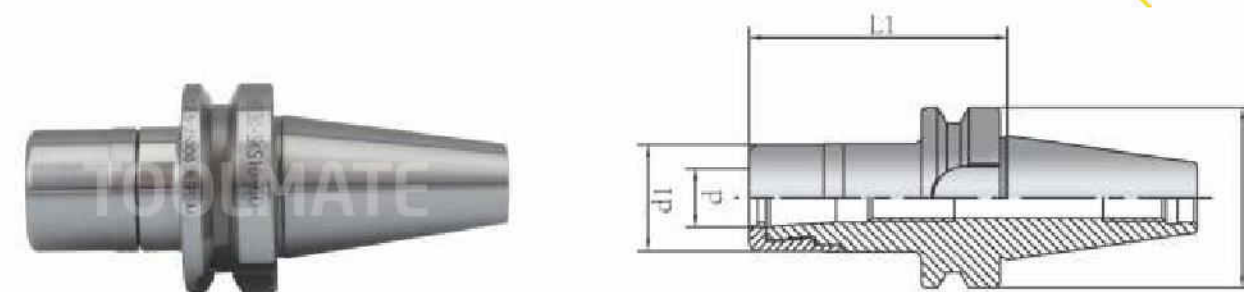
Model	d	D	L	A
BT30-SEMC16-45	16	32	17	45
BT30-SEMC22-47	22	40	19	47
BT30-SEMC27-49	27	48	21	49
BT40-SEMC16-55	16	32	17	55
BT40-SEMC16-100	16	32	17	100
BT40-SEMC22-55	22	40	19	55
BT40-SEMC22-100	22	40	19	100
BT40-SEMC27-55	27	48	21	55
BT40-SEMC27-100	27	48	21	100
BT40-SEMC32-60	32	58	24	60
BT40-SEMC32-100	32	58	24	100
BT40-SEMC40-60	40	70	27	60
BT40-SEMC40-100	40	70	27	100
BT50-SEMC16-70	16	32	17	70
BT50-SEMC22-70	22	40	19	70
BT50-SEMC27-70	27	48	21	70
BT50-SEMC32-70	32	58	24	70
BT50-SEMC40-70	40	70	27	70

Use: For clamping shell mill DIN841 and DIN1880 as well as angular milling cutter DIN842 and cutter DIN1830



High Speed SKS Collet Chuck

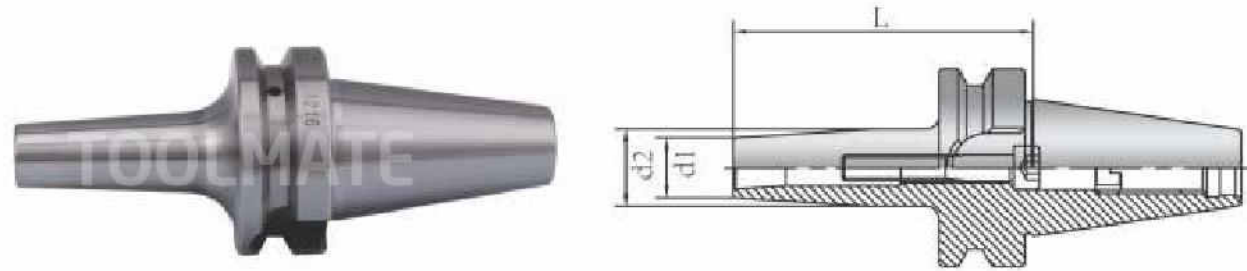
MAS 403



Model	L1	D	d	d1	Wt (kg)
BT30-SKS10-45	45	46	14.981	30	0.8
BT30-SKS10-60	60	46	14.981	30	0.56
BT30-SKS10-90	90	46	14.981	30	0.58
BT30-SKS16-60	60	46	23.939	40	0.59
BT30-SKS16-90	90	46	23.939	40	0.59
BT40-SKS10-90	90	63	14.981	30	1.3
BT40-SKS10-120	120	63	14.981	30	1.65
BT40-SKS16-90	90	63	23.939	40	1.4
BT40-SKS16-120	120	63	23.939	40	1.71
BT40-SKS25-90	90	63	35.029	55.1	1.49
BT40-SKS25-120	120	63	35.029	55.1	1.8
BT50-SKS16-105	105	100	23.939	40	4.15
BT50-SKS16-150	150	100	23.939	40	4.7
BT50-SKS16-165	165	100	23.939	40	4.5
BT50-SKS25-105	105	100	35.029	55.1	4.5
BT50-SKS25-150	150	100	35.029	55.1	4.8

MX Collet Chuck

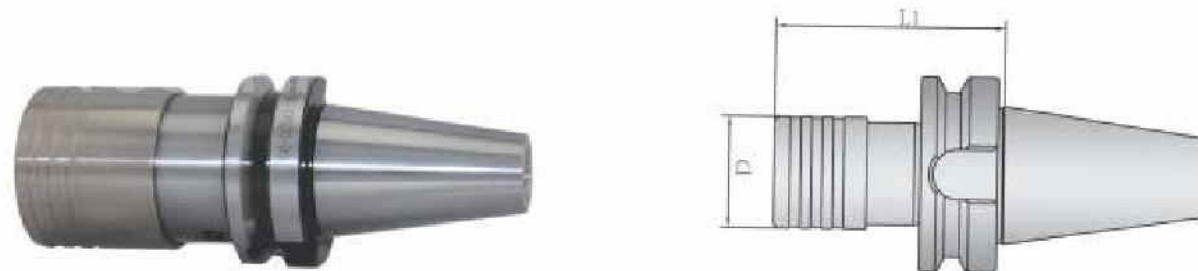
MAS 403



Model	Clamping Range	L	L1	D	Collet
BT30-MX8-90	2-8	90	36	20	MX8
BT30-MX12-105	4-12	105	35	30	MX12
BT40-MX8-85	2-8	85	36	20	MX8
BT40-MX8-120	2-8	120	43	20	MX8
BT40-MX12-90	4-12	90	35	30	MX12
BT50-MX8-105	2-8	105	40	20	MX8
BT50-MX8-135	2-8	135	43	20	MX8
BT50-MX8-165	2-8	165	43	20	MX8
BT50-MX12-105	4-12	105	35	30	MX12

Quick Chane Tapping Chuck with Legeh Compensation

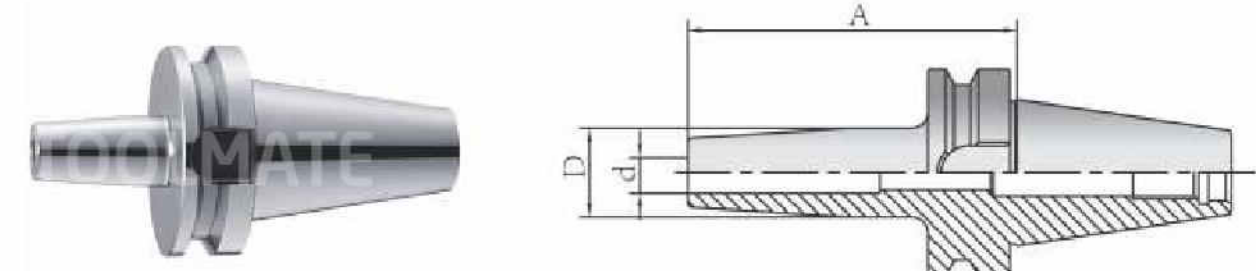
MAS 403



Model	Tapping Range	Stretch	Shrink	D	L1
BT30-TC312-70	M3-M12	7.5	7.5	36	70
BT40-TC312-70	M3-M12	7.5	7.5	36	70
BT40-TC820-95	M8-M20	10	10	56	95
BT40-TC1433-142	M14-M33	17.5	17.5	78	142
BT50-TC312-85	M3-M12	7.5	7.5	36	85
BT50-TC820-105	M8-M20	10	10	56	105
BT50-TC1433-145	M14-M33	17.5	17.5	78	145

Shrink Chuck

MAS 403



Model	d	A	D	D1	I1	I2
BT30-SRC10-90	10	90	24	32	41	10
BT30-SRC12-90	12	90	24	32	47	10
BT30-SRC14-90	14	90	27	34	47	10
BT30-SRC16-90	16	90	27	34	50	10
BT30-SRC18-90	18	90	33	42	50	10
BT30-SRC20-90	20	90	33	42	52	10
BT40-SRC6-90	6	90	21	27	36	10
BT40-SRC8-90	8	90	21	27	36	10
BT40-SRC10-90	10	90	24	32	41	10
BT40-SRC12-90	12	90	24	32	47	10
BT40-SRC14-90	14	90	27	34	47	10
BT40-SRC16-90	16	90	27	34	50	10
BT40-SRC18-90	18	90	33	42	50	10
BT40-SRC20-90	20	90	33	42	52	10
BT40-SRC25-100	25	100	44	53	58	10
BT40-SRC32-100	32	100	44	53	58	10
BT50-SRC4-100	4	100	14	22	20	5
BT50-SRC5-100	5	100	16	22	20	5
BT50-SRC6-100	6	100	21	27	36	10
BT50-SRC8-100	8	100	21	27	36	10
BT50-SRC10-100	10	100	24	32	41	10
BT50-SRC12-100	12	100	24	32	47	10
BT50-SRC14-100	14	100	27	34	47	10
BT50-SRC16-100	16	100	27	34	50	10
BT50-SRC18-110	18	110	33	42	50	10
BT50-SRC20-110	20	110	33	42	52	10
BT50-SRC25-120	25	120	44	53	58	10
BT50-SRC32-120	32	120	44	53	62	10