

MACHINE TOOL ACCESSORY



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INDUSTRIAL SUPPLY
bluestar



Company Profile

BLUESTAR has been always dedicating to the making of industrial products for our customers. We created BLUESTAR as a brand that has become synonymous with precision, quality and innovation, backed by our first-rate service and support.

Today, BLUESTAR offers four product categories: machine tool accessory, measuring tools, cutting tools and metal working machinery. All these four categories are based on strict quality control at every level of designing, producing and packaging.

Our commitment is to supplying products to our customers with best quality, reliable performance and first-level service. Owing to our distinguishing characteristics, we ensure that BLUESTAR is your best choice of industrial supplies.

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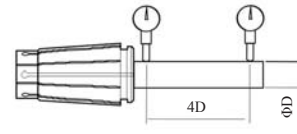
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■ Milling chuck series - SKS high speed collet

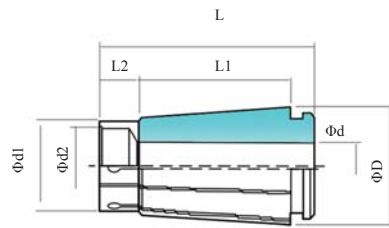
Specifications

- Hardness: HRC50+/-2
- 2 accuracy: 0.005mm, 0.010mm



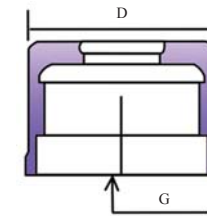
Run out accuracy	Class AA	Class A
	5μ	10μ

Model No.	D	d1	d2	L	L1	L2
SKS6	10.5	7.5	5.8	25	17	4
SKS10	15.6	11.8	10	30	21.3	5
SKS16	24.6	18.8	16	45	32	8
SKS25	35.6	28.8	25.4	57	43	8.5



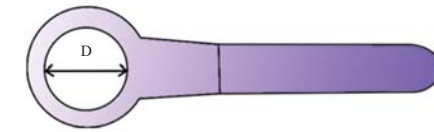
SKS6			SKS10			SKS16			SKS20			SKS25		
Model No.	Size	Range(mm)	Model No.	Size	Range(mm)	Model No.	Size	Range(mm)	Model No.	Size	Range(mm)	Model No.	Size	Range(mm)
D621010	SKS6-2.0	2-1.75	D621110	SKS10-2.0	2.0-1.75	D621210	SKS16-3.0	3.0-2.75	D621310	SKS20-3.0	3.0-2.75	D621410	SKS25-6.0	6.0-5.5
D621011	SKS6-2.25	2.25-2.0	D621111	SKS10-2.25	2.25-2.0	D621211	SKS16-3.5	3.5-3.0	D621311	SKS20-4.0	4.0-3.5	D621411	SKS25-8.0	8.0-7.5
D621012	SKS6-2.5	2.5-2.25	D621112	SKS10-2.5	2.5-2.25	D621212	SKS16-4.0	4.0-3.5	D621312	SKS20-5.0	5.0-4.5	D621412	SKS25-10.0	10.0-9.5
D621013	SKS6-2.75	2.75-2.5	D621113	SKS10-2.75	2.75-2.5	D621213	SKS16-4.5	4.5-4.0	D621313	SKS20-6.0	6.0-5.5	D621413	SKS25-12.0	12.0-11.5
D621014	SKS6-3.0	3-2.75	D621114	SKS10-3.0	3.0-2.75	D621214	SKS16-5.0	5.0-4.5	D621314	SKS20-8.0	8.0-7.5	D621414	SKS25-14.0	14.0-13.5
D621015	SKS6-3.5	3.5-3.0	D621115	SKS10-3.5	3.5-3.0	D621215	SKS16-5.5	5.5-5.0	D621315	SKS20-10.0	10.0-9.5	D621415	SKS25-16.0	16.0-15.5
D621016	SKS6-4.0	4-3.5	D621116	SKS10-4.0	4.0-3.5	D621216	SKS16-6.0	6.0-5.5	D621316	SKS20-12.0	12.0-11.5	D621416	SKS25-18.0	18.0-17.5
D621017	SKS6-4.5	4.5-4.0	D621117	SKS10-4.5	4.5-4.0	D621217	SKS16-6.5	6.5-6.0	D621317	SKS20-14.0	14.0-13.5	D621417	SKS25-20.0	20.0-19.5
D621018	SKS6-5.0	5-4.5	D621118	SKS10-5.0	5.0-4.5	D621218	SKS16-7.0	7.0-6.5	D621318	SKS20-16.0	16.0-15.5	D621418	SKS25-22.0	22.0-21.5
D621019	SKS6-5.5	5.5-5.0	D621119	SKS10-5.5	5.5-5.0	D621219	SKS16-7.5	7.5-7.0	D621319	SKS20-18.0	18-17.5	D621419	SKS25-24.0	24.0-23.5
D621020	SKS6-6.0	6-5.5	D621120	SKS10-6.0	6.0-5.5	D621220	SKS16-8.0	8.0-7.5	D621320	SKS20-20.0	20.0-19.5	D621420	SKS25-25.0	25.0-24.5
			D621121	SKS10-6.5	6.5-6.0	D621221	SKS16-8.5	8.5-8.0						
			D621122	SKS10-7.0	7.0-6.5	D621222	SKS16-9.0	9.0-8.5						
			D621123	SKS10-7.5	7.5-7.0	D621223	SKS16-9.5	9.5-9.0						
			D621124	SKS10-8.0	8.0-7.5	D621224	SKS16-10.0	10.0-9.5						
			D621125	SKS10-8.5	8.5-8.0	D621225	SKS16-10.5	10.5-10.0						
			D621126	SKS10-9.0	9.0-8.5	D621226	SKS16-11.0	11.0-10.5						
			D621127	SKS10-9.5	9.5-9.0	D621227	SKS16-11.5	11.5-11.0						
			D621128	SKS10-10.0	10.0-9.5	D621228	SKS16-12.0	12.0-11.5						
						D621229	SKS16-12.5	12.5-12.0						
						D621230	SKS16-13.0	13.0-12.5						
						D621231	SKS16-13.5	13.5-13.0						
						D621232	SKS16-14.0	14.0-13.5						
						D621233	SKS16-14.5	14.5-14.0						
						D621234	SKS16-15.0	15.0-14.5						
						D621235	SKS16-15.5	15.5-15.0						
						D621236	SKS16-16.0	16.0-15.5						

■ Milling chuck series - SKS nut



Order No.	Type	D	G
D741010	SK6-NUT	20	M15×1.0P
D741011	SK10-NUT	27	M22×1.0P
D741012	SK16-NUT	40	M32×1.5P
D741013	SK20-NUT	48	M40×1.0P
D741014	SK25-NUT	54	M45×1.5P

■ Milling chuck series - SKS spanner



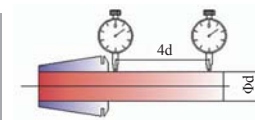
Order No.	Type	D
D781010	SK6	20
D781011	SK10	27
D781012	SK16	40
D781013	SK20	48
D781014	SK25	54

■ Milling chuck series - ER collets

Specifications

- Made of special elastic steel under excellent heat treatment and precise grinding process.
- This collet can clamp for a specific standard size and its next size.
- 3 accuracy: 0.005mm, 0.01mm, 0.015mm

Class	Run out
AA	≤0.005
A	≤0.01
G	≤0.015

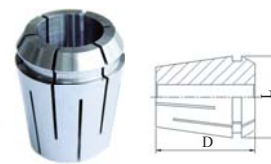


Type A



Type B

Coolant Collet



Type C

Coolant Collet

Type	ER8	ER11	ER16	ER20	ER25	ER32	ER40
Type A	D 8.45	11.5	17	21	26	33	41
	L 13.5	18	27	31	35	40	46
Type B			17	21	26	33	41
			27.5	31.5	34	40	46
Type C			17	21	26	33	41
			27.5	31.5	34	40	46

Size	Range	ER-8	ER-11	ER-16	ER-20	ER-25	ER-32	ER-40
		Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
1mm	1-0.5	D631010	D631110	D631210				
2mm	2-1	D631011	D631111	D631211	D631311	D631411		
3mm	3-2	D631012	D631112	D631212	D631312	D631412	D631512	
4mm	4-3	D631013	D631113	D631213	D631313	D631413	D631513	D631613
5mm	5-4	D631014	D631114	D631214	D631314	D631414	D631514	D631614
6mm	6-5		D631115	D631215	D631315	D631415	D631515	D631615
7mm	7-6		D631116	D631216	D631316	D631416	D631516	D631616
8mm	8-7			D631217	D631317	D631417	D631517	D631617
9mm	9-8			D631218	D631318	D631418	D631518	D631618
10mm	10-9			D631219	D631319	D631419	D631519	D631619
11mm	11-10				D631320	D631420	D631520	D631620
12mm	12-11				D631321	D631421	D631521	D631621
13mm	13-12				D631322	D631422	D631522	D631622

Size	Range	ER-25	ER-32	ER-40
		Model No.	Model No.	Model No.
14mm	14-13	D631423	D631523	D631623
15mm	15-14	D631424	D631524	D631624
16mm	16-15	D631425	D631525	D631625
17mm	17-16		D631526	D631626
18mm	18-17		D631527	D631627
19mm	19-18		D631528	D631628
20mm	20-19		D631529	D631629
21mm	21-20			D631630
22mm	22-21			D631631
23mm	23-22			D631632
24mm	24-23			D631633
25mm	25-24			D631634
26mm	26-25			D631635

■ Milling chuck series - ER collets

Size	Range	ER-8	ER-11	ER-16	ER-20	ER-25	ER-32	ER-40
		Model No.	Model No.	Model No.	Model No.	Model No.	Model No.	Model No.
1/32	.031-.016	D641010	D641110	D641210				
1/16	.062-.043	D641011	D641111	D641211	D641311	D641411		
3/32	.093-.054	D641012	D641112	D641212	D641312	D641412	D641512	
1/8	.125-.086	D641013	D641113	D641213	D641313	D641413	D641513	D641613
5/32	.156-.117	D641014	D641114	D641214	D641314	D641414	D641514	D641614
3/16	.187-.148	D641015	D641115	D641215	D641315	D641415	D641515	D641615
7/32	.218-.179		D641116	D641216	D641316	D641416	D641516	D641616
1/4	.250-.211		D641117	D641217	D641317	D641417	D641517	D641617
9/32	.281-.242		D641118	D641218	D641318	D641418	D641518	D641618
5/16	.312-.273			D641219	D641319	D641419	D641519	D641619
11/32	.343-.304			D641220	D641320	D641420	D641520	D641620
3/8	.375-.336			D641221	D641321	D641421	D641521	D641621
13/32	.406-.367				D641322	D641422	D641522	D641622
7/16	.437-.398				D641323	D641423	D641523	D641623
15/32	.468-.429				D641324	D641424	D641524	D641624
1/2	.500-.461				D641325	D641425	D641525	D641625

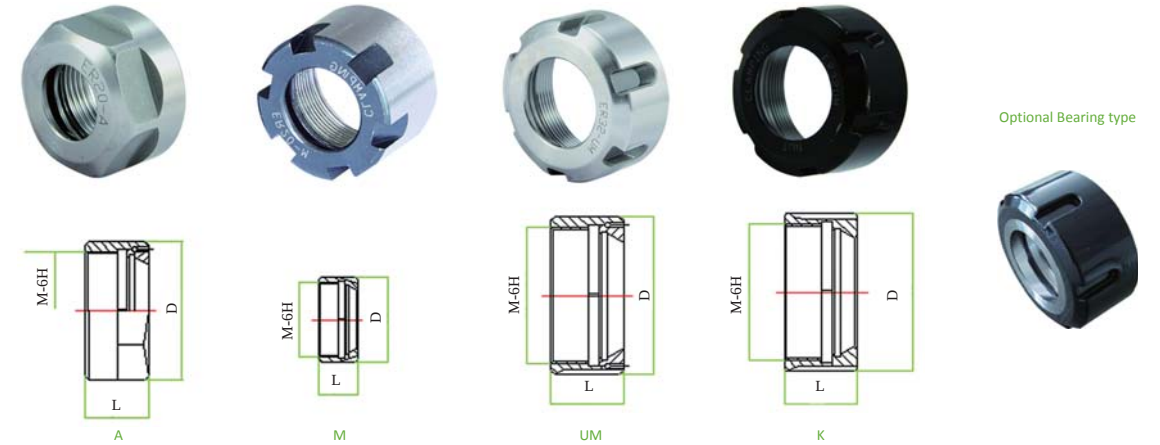
Size	Range	ER-25	ER-32	ER-40
		Model No.	Model No.	Model No.
17/32	.531-.492	D641426	D641526	D641626
9/16	.562-.523	D641427	D641527	D641627
19/32	.593-.554	D641428	D641528	D641628
5/8	.625-.586	D641429	D641529	D641629
21/32	.656-.617		D641530	D641630
11/16	.687-.648		D641531	D641631
23/32	.718-.679		D641532	D641632
3/4	.750-.711		D641533	D641633
25/32	.781-.742			D641634
13/16	.812-.773			D641635
27/32	.843-.804			D641636
7/8	.875-.836			D641637
29/32	.906-.867			D641638
15/16	.937-.898			D641639
31/32	.969-.930			D641640
1	1.000-.961			D641641

ER collet sets



Model No.	Type	Size	Pcs/set
D651010	ER8	1+0.5-5mm(1,1.5,2,2.5,3,3.5,4,4.5mm)	9PCS
		1/16-3/16(1/16,3/32,1/8,5/32,3/16)	5PCS
D651110	ER11	1-7mm(1,2,3,4,5,6,7mm)	7PCS
		1+0.5-7mm(1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7mm)	13PCS
		1/16-1/4(1/16,3/32,1/8,5/32,3/16,7/32,1/4)	7PCS
D651210	ER16	1-10mm(1,2,3,4,5,6,7,8,9,10mm)	10PCS
		3-10mm(3,4,5,6,7,8,9,10mm)	8PCS
		1/32-3/8(1/32,1/16,3/32,1/8,3/16,7/32,1/4,5/16,11/32,3/8)	10PCS
D651310	ER20	2-13mm(2,3,4,5,6,7,8,9,10,11,12,13mm)	12PCS
		1/16-1/2 (1/16,3/32,1/8,3/16,7/32,1/4,5/16,11/32,3/8,13/32,7/16,1/2)	12PCS
		2-16mm(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16mm)	15PCS
D651410	ER25	1/16-5/8(1/16,3/32,1/8,3/16,7/32,1/4,5/16,11/32,3/8,13/32,7/16,1/2,17/32,9/16,5/8)	15PCS
		3-20mm(3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20mm)	18PCS
D651510	ER32	1/16-25/32(1/16,3/32,1/8,3/16,7/32,1/4,5/16,11/32,3/8,13/32,7/16,1/2,17/32, 9/16,5/8 ,21/32,11/16,3/4,25/32)	18PCS
D651610	ER40	4-26mm (4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26mm)	23PCS
		1/16-1(1/16,3/32,1/8,3/16,7/32,1/4,5/16,11/32,3/8,13/32,7/16,1/2,17/32,9/16, 5/8, 21/32,11/16,3/4,25/32,13/16,27/32,7/8,15/16,31/32,1)	23PCS

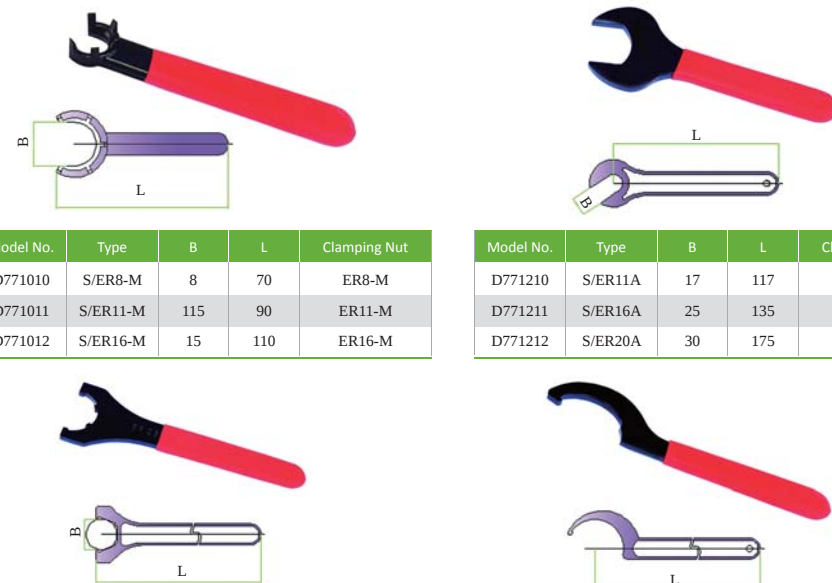
■ Milling chuck series - ER nut



Model No.	Type	D(mm)	d(mm)	L(mm)	M
D721010	ER11-A	19	17	11.3	M14×0.75
D721011	ER16-A	28	25	17.5	M22×1.5
D721012	ER20-A	34	28.5	19	M25×1.5
D721110	ER8-M	12		10.8	M10×0.75
D721111	ER11-M	16		12	M13×0.75
D721112	ER16-M	22		18	M19×1
D721113	ER20-M	28		19	M24×1
D721114	ER25-M	35		20	M30×1

Model No.	Type	D(mm)	d(mm)	L(mm)	M
D721210	ER25-UM	42	29	20	M32×1.5
D721211	ER32-UM	50	38.5	22.5	M40×1.5
D721212	ER40-UM	63	48.3	25.5	M50×1.5
D721213	ER50-UM	78	59	35.5	M64×2
D721310	ER25-K	42	29	22.5	M32×15
D721311	ER32-K	50	38.5	26	M40×1.5
D721312	ER40-K	63	48.3	29	M50×1.5
D721313	ER50-K	78	59	40	M64×2

■ Milling chuck series - ER spanner

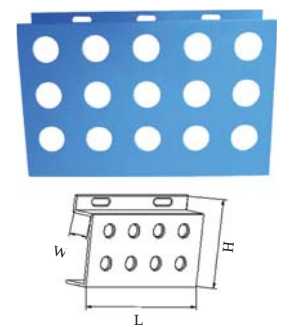


Model No.	Type	B	L	Clamping Nut
D771010	S/ER8-M	8	70	ER8-M
D771011	S/ER11-M	115	90	ER11-M
D771012	S/ER16-M	15	110	ER16-M

Model No.	Type	B	L	Clamping Nut
D771210	S/ER11A	17	117	ER11-A
D771211	S/ER16A	25	135	ER16-A
D771212	S/ER20A	30	175	ER20-A

Model No.	Type	B	L	Clamping Nut
D771110	S/ER25-UM	37	210	ER25-UM
D771111	S/ER32-UM	45	250	ER32-UM
D771112	S/ER40-UM	58	290	ER40-UM
D771113	S/ER50-UM	72	350	ER50-UM

Model No.	Type	B	L	Clamping Nut
D771310	S/ER25-K	38~42	168	ER25-K
D771311	S/ER32-K	45~52	190	ER32-K
D771312	S/ER40-K	55~63	210	ER40-K
D771313	S/ER50-K	78~85	240	ER50-K



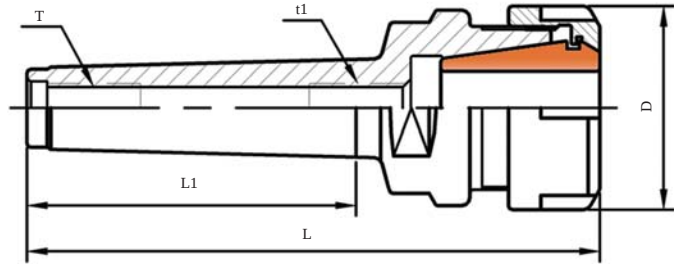
ER collet packs

Model No.	Type	Collets Holes
D761010	ER11	13
D761011	ER16	10
D761012	ER20	12
D761013	ER25	15
D761014	ER32	18
D761015	ER40	23

■ Milling chuck series - MT-ER collet chuck



Optional

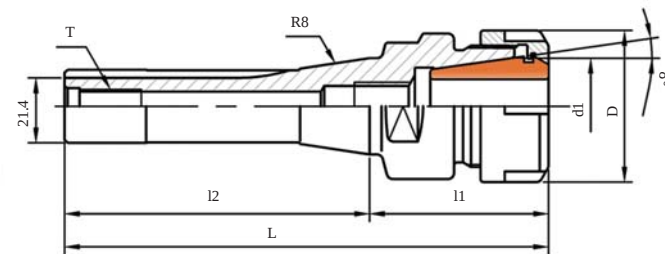


Order No.	Type	L	L1	D	t1	T	N.W.(kg)
D491010	MT2×ER20A-52	116	64	35	M10×1.5P	M10×1.5P-3/8" W16	0.45
D491011	MT2×ER25-55	119	64	42	M10×1.5P	M10×1.5P-3/8" W16	0.5
D491110	MT3×ER25-55	136	81	42	M12×1.75P	M12×1.75P-1/2" W12	0.6
D491111	MT3×ER32-60	141	81	50	M12×1.75P	M12×1.75P-1/2" W12	0.8
D491112	MT3×ER40-70	151	81	63	M12×1.75P	M12×1.75P-1/2" W12	1.3
D491210	MT4×ER30-60	162.5	102.5	50	M16×2.0P	M16×2.0P-5/8" W11	0.95
D491211	MT4×ER40-70	172.5	102.5	63	M16×2.0P	M16×2.0P-5/8" W11	1.5

■ Milling chuck series - R8-ER collet chuck

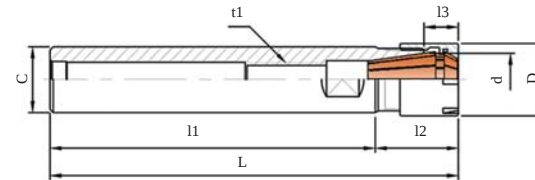


Optional



Order No.	Type	L	L1	D	t1	T	N.W.(kg)
D501010	R8×ER16A-38	135	38	28	M10×1.5P	7/16"×NF20	0.65
D501011	R8×ER32-65	162	60	50	M16×2.0P		0.90
D501012	R8×ER40-70	167	65	63	M16×2.0P		1.15

■ Milling chuck series - Straight shank ER collet chuck



Unit:mm

Order No.	Type	L	D		L2	N.W.(kg)
			A	M		
D511010	C16-ER11-50	72	19	16	22	0.15
D511011	C16-ER11-100	122	19	16	22	0.2
D511012	C16-ER11-150	172	19	16	22	0.25
D511100	C16-ER16-100	122	28	22	22	0.18
D511210	C20-ER16-50	82	28	22	32	0.18
D511211	C20-ER16-100	132	28	22	32	0.25
D511212	C20-ER16-150	182	28	22	32	0.35
D511213	C20-ER16-200	232	28	22	32	0.4
D511310	C25-ER16-100	122	28	22	22	0.35
D511311	C25-ER16-150	172	28	22	22	0.4
D511312	C25-ER16-200	232	28	22	32	0.45
D511410	C20-ER20-60	93	34	28	33	0.2
D511411	C20-ER20-120	153	34	28	33	0.28
D511412	C20-ER20-150	183	34	28	33	0.35
D511413	C20-ER20-200	235	34	28	35	0.4
D511510	C25-ER20-100	133	34	35	33	0.35
D511511	C25-ER20-150	183	34	35	33	0.4
D511512	C25-ER20-200	235	34	28	35	0.45

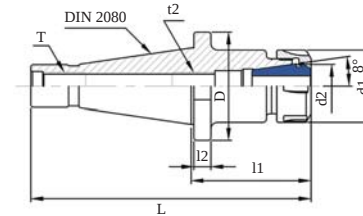
Unit:inch

Model No.	Type	d	D	T
D511610	S1/2-ER11-3.50	0.433	0.75	M6X1.0P
D511611	S1/2-ER11M-6.65	0.433	0.63	
D511612	S5/8-ER11M-6.67	0.433	0.63	
D511613	S5/8-ER11-3.50	0.433	0.75	M10X1.5P
D511710	S5/8-ER16-3.65	0.63	1.1	
D511711	S5/8-ER16M-7.10	0.63	0.87	
D511712	S5/8-ER16M-1.38	0.63	0.87	
D511713	S3/4-ER16M-1.38	0.63	0.87	
D511714	S3/4-ER16M-7.10	0.63	0.87	M10X1.5P
D511715	S3/4-ER16-2.50	0.63	1.1	
D511716	S3/4-ER16-4.00	0.63	1.1	
D511717	S3/4-ER16-6.00	0.63	1.1	
D511718	S3/4-ER16-3.65	0.63	1.1	
D511719	S1-ER16M-7.20	0.63	0.87	M12X1.75P
D511810	S3/4-ER20-2.50	0.787	1.34	
D511811	S3/4-ER20-4.00	0.787	1.34	
D511812	S3/4-ER20-6.00	0.787	1.34	M16X2P
D511813	S1-ER20-3.75	0.787	1.34	
D511814	S1-ER20M-7.20	0.787	1.1	
D511910	S1-ER25-6.10	0.984	1.65	M16X2P
D511911	S11/4-ER25-6.10	0.984	1.65	
D511912	S11/4-ER25M-7.25	0.984	1.38	
D511913	S3/4-ER25-2.00	0.984	1.65	
D511914	S3/4-ER25-4.00	0.984	1.65	
D511915	S1-ER25-2.01	0.984	1.65	M16X2P
D512010	S1-ER32-6.20	1.26	1.97	
D512011	S11/4-ER32-6.20	1.26	1.97	
D512012	S11/2-ER32-6.20	1.26	1.97	M20X2.5P
D512013	S1-ER32-2.03	1.26	1.97	
D512110	S1-ER40-2.56	1.574	2.48	

■ Milling chuck series - NT-ER collet chuck



Optional



Order No.	Type	L	D	L1	L2	d1	T	t2	N.W.(kg)
D421010	NT30×ER16A-43	111.4	50	43	8	28	M12×1.7 or 1/2"×W12	M10×1.5P	0.50
D421011	NT30×ER20A-45	113.4	50	45	8	34	M12×1.75P	M12×1.75P	0.60
D421012	NT30×ER25-55	123.4	50	55	8	42	M16×2.0P	M16×2.0P	0.65

Order No.	Type	L	D	L1	L2	d1	T	t2	N.W.(kg)
D421013	NT30×ER32-60	128.4	50	60	8	50	M12×1.7 or 1/2"×W12	M16×2.0P	0.80
D421014	NT30×ER40-75	143.4	50	75	8	63		M10×1.5P	0.90
D421110	NT40×ER16A-45	138.4	63	45	10	28		M10×1.5P	0.95
D421111	NT40×ER20A-45	138.4	63	45	10	34		M12×1.75P	1.20
D421112	NT40×ER25-55	148.4	63	55	10	42	M16×2.0P or 5/8"×W11	M16×2.0P	1.25
D421113	NT40×ER32-60	153.4	63	60	10	50		M16×2.0P	1.30
D421114	NT40×ER40-70	163.4	63	70	10	63		M16×2.0P	1.35
D421115	NT40×ER50-80	173.4	63	80	10	78		M24×2.0P	2.00
D421210	NT50×ER32-75	201.8	97.5	75	12	50		M16×2.0P	3.20
D421211	NT50×ER40-80	206.8	97.5	80	12	63	M24×3.0P or 1"×W24	M16×2.0P	3.40
D421212	NT50×ER50-80	206.8	97.5	80	12	78		M24×2.0P	3.70

■ Milling chuck series - NMTB-ER collet chuck



Order No.	Type	L	L1	d1	d2	T
D271010	NMTB30-ER16-2.00	4.687	2.00	1.10	0.63	M10×1.5P
D271011	NMTB30-ER32-2.50	5.187	2.50	1.97	1.26	M16×2P
D271012	NMTB30-ER40-3.50	6.187	3.50	2.48	1.574	M20×2.5P
D271110	NMTB40-ER11-2.50	6.187	2.50	0.43	0.75	M6×1.0P
D271111	NMTB40-ER11-2.75	6.437	2.75	0.43	0.75	M6×1.0P
D271112	NMTB40-ER11-3.00	6.687	3.00	0.43	0.75	M6×1.0P
D271113	NMTB40-ER11-4.00	7.687	4.00	0.43	0.75	M6×1.0P
D271114	NMTB40-ER16-2.25	5.937	2.25	0.63	1.1	M10×1.5P
D271115	NMTB40-ER16-2.50	6.187	2.50	0.63	1.1	M10×1.5P
D271116	NMTB40-ER16-2.62	6.307	2.62	0.63	1.1	M10×1.5P
D271117	NMTB40-ER16-2.88	6.567	2.88	0.63	1.1	M10×1.5P
D271118	NMTB40-ER16-3.12	6.807	3.12	0.63	1.1	M10×1.5P
D271119	NMTB40-ER16-3.50	7.187	3.50	0.63	1.1	M10×1.5P
D271120	NMTB40-ER16-4.00	7.687	4.00	0.63	1.1	M10×1.5P
D271121	NMTB40-ER20-2.50	6.187	2.50	1.34	0.787	M12×1.75P
D271122	NMTB40-ER20-2.55	6.237	2.55	1.34	0.787	M12×1.75P
D271123	NMTB40-ER20-3.12	6.807	3.12	1.34	0.787	M12×1.75P
D271124	NMTB40-ER20-4.00	7.687	4.00	1.34	0.787	M12×1.75P

Order No.	Type	L	L1	d1	d2	T
D271125	NMTB40-ER25-2.50	6.187	2.50	1.65	0.98	M16×2P
D271126	NMTB40-ER25-2.62	6.307	2.62	1.65	0.98	M16×2P
D271127	NMTB40-ER25-4.00	7.687	4.00	1.65	0.98	M16×2P
D271128	NMTB40-ER32-1.06	4.747	1.06	1.97	1.26	M16×2P
D271129	NMTB40-ER32-1.69	5.377	1.69	1.97	1.26	M16×2P
D271130	NMTB40-ER32-2.50	6.187	2.50	1.97	1.26	M16×2P
D271131	NMTB40-ER32-2.70	6.387	2.70	1.97	1.26	M16×2P
D271132	NMTB40-ER32-2.76	6.447	2.76	1.97	1.26	M16×2P
D271133	NMTB40-ER32-3.00	6.687	3.00	1.97	1.26	M16×2P
D271134	NMTB40-ER32-3.12	6.807	3.12	1.97	1.26	M16×2P
D271135	NMTB40-ER32-3.13	6.817	3.13	1.97	1.26	M16×2P
D271136	NMTB40-ER32-4.00	7.687	4.00	1.97	1.26	M16×2P
D271137	NMTB40-ER40-2.50	6.187	2.50	2.48	1.57	M20×2.5P
D271138	NMTB40-ER40-3.00	6.687	3.00	2.48	1.57	M20×2.5P
D271139	NMTB40-ER40-3.13	6.817	3.13	2.48	1.57	M20×2.5P
D271140	NMTB40-ER40-3.15	6.837	3.15	2.48	1.57	M20×2.5P
D271141	NMTB40-ER40-4.00	7.687	4.00	2.48	1.57	M20×2.5P
D271142	NMTB40-ER40-4.12	7.807	4.12	2.48	1.57	M20×2.5P

■ Milling chuck series - ER collet chuck set



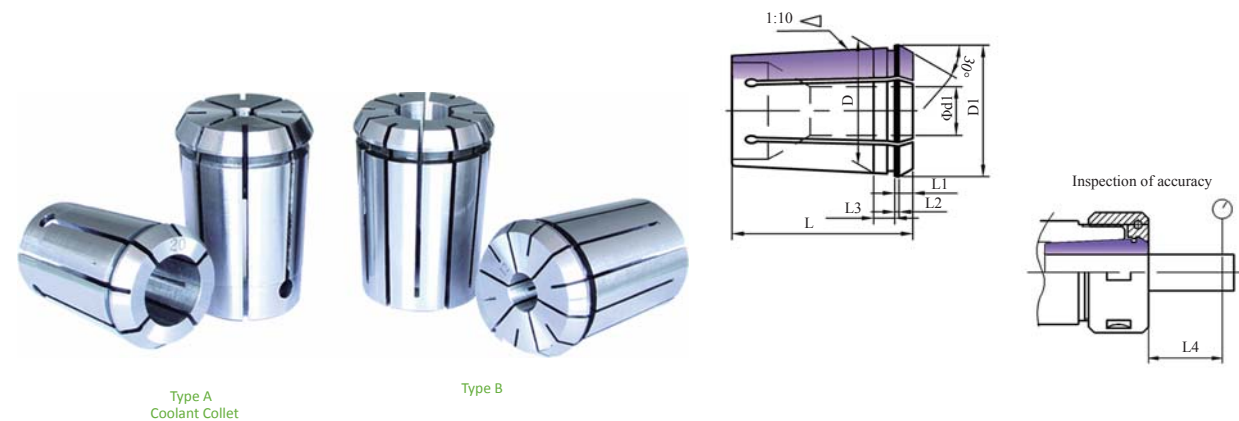
■ Milling chuck series - ER collet chuck set



Order No.	Type	Clamping range	Collet
D981010	NT30×ER11×7pcs	1-7mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7
D981011	NT40×ER11×7pcs	1-7mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7
D981012	NT30×ER11×13pcs	1+0.5-7mm	Φ1、Φ1.5、Φ2、Φ2.5、Φ3、Φ3.5、Φ4、Φ4.5、Φ5、Φ5.5、Φ6、Φ6.5、Φ7
D981013	NT40×ER11×13pcs	1+0.5-7mm	Φ1、Φ1.5、Φ2、Φ2.5、Φ3、Φ3.5、Φ4、Φ4.5、Φ5、Φ5.5、Φ6、Φ6.5、Φ7
D981110	NT30×ER16×10pcs	1-10mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D981111	NT40×ER16×10pcs	1-10mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D981112	NT30×ER16×8pcs	3-10mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D981113	NT40×ER16×8pcs	3-10mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D981210	NT30×ER20×12pcs	2-13mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D981211	NT40×ER20×12pcs	2-13mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D981212	NT30×ER20×10pcs	4-13mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D981213	NT40×ER20×10pcs	4-13mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D981310	NT30×ER25×15pcs	2-16mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D981311	NT40×ER25×15pcs	2-16mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D981312	NT30×ER25×13pcs	4-16mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D981313	NT40×ER25×13pcs	4-16mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D981314	NT30×ER25×5pcs	6-16mm	Φ6、Φ8、Φ10、Φ12、Φ16
D981315	NT40×ER25×5pcs	6-16mm	Φ6、Φ8、Φ10、Φ12、Φ16
D981316	NT30×ER25×6pcs	4-16mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16
D981317	NT40×ER25×6pcs	4-16mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16
D981410	NT30×ER32×18pcs	3-20mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20
D981411	NT40×ER32×18pcs	3-20mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20
D981412	NT30×ER32×11pcs	4-20mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20
D981413	NT40×ER32×11pcs	4-20mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20
D981414	NT30×ER32×6pcs	6-20mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D981415	NT40×ER32×6pcs	6-20mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D981510	NT40×ER40×23pcs	4-26mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20、Φ21、Φ22、Φ23、Φ24、Φ25、Φ26
D981511	NT40×ER40×15pcs	4-26mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20、Φ21、Φ22、Φ25、Φ26
D981512	NT40×ER40×7pcs	6-25mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20、Φ25

Order No.	Type	Clamping range	Collet
D991010	MT2×ER11×7pcs	1-7mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7
D991011	MT3×ER11×7pcs	1-7mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7
D991012	MT4×ER11×7pcs	1-7mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7
D991013	MT2×ER11×13pcs	1+0.5-7mm	Φ1、Φ1.5、Φ2、Φ2.5、Φ3、Φ3.5、Φ4、Φ4.5、Φ5、Φ5.5、Φ6、Φ6.5、Φ7
D991014	MT3×ER11×13pcs	1+0.5-7mm	Φ1、Φ1.5、Φ2、Φ2.5、Φ3、Φ3.5、Φ4、Φ4.5、Φ5、Φ5.5、Φ6、Φ6.5、Φ7
D991015	MT4×ER11×13pcs	1+0.5-7mm	Φ1、Φ1.5、Φ2、Φ2.5、Φ3、Φ3.5、Φ4、Φ4.5、Φ5、Φ5.5、Φ6、Φ6.5、Φ7
D991110	MT2×ER16×10pcs	1-10mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D991111	MT3×ER16×10pcs	1-10mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D991112	MT4×ER16×10pcs	1-10mm	Φ1、Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D991113	MT2×ER16×8pcs	3-10mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D991114	MT3×ER16×8pcs	3-10mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D991115	MT4×ER16×8pcs	3-10mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10
D991210	MT2×ER20×12pcs	2-13mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D991211	MT3×ER20×12pcs	2-13mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D991212	MT4×ER20×12pcs	2-13mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D991213	MT2×ER20×10pcs	4-13mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D991214	MT3×ER20×10pcs	4-13mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D991215	MT4×ER20×10pcs	4-13mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13
D991310	MT2×ER25×15pcs	2-16mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D991311	MT3×ER25×15pcs	2-16mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D991312	MT4×ER25×15pcs	2-16mm	Φ2、Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D991313	MT2×ER25×13pcs	4-16mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D991314	MT3×ER25×13pcs	4-16mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D991315	MT4×ER25×13pcs	4-16mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16
D991316	MT2×ER25×5pcs	6-16mm	Φ6、Φ8、Φ10、Φ12、Φ16
D991317	MT3×ER25×5pcs	6-16mm	Φ6、Φ8、Φ10、Φ12、Φ16
D991318	MT4×ER25×5pcs	6-16mm	Φ6、Φ8、Φ10、Φ12、Φ16
D991319	MT2×ER25×7pcs	4-16mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16
D991320	MT3×ER25×7pcs	4-16mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16
D991321	MT4×ER25×7pcs	4-16mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16
D991410	MT2×ER32×18pcs	3-20mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20
D991411	MT3×ER32×18pcs	3-20mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20
D991412	MT4×ER32×18pcs	3-20mm	Φ3、Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20
D991413	MT2×ER32×11pcs	4-20mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20
D991414	MT3×ER32×11pcs	4-20mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20
D991415	MT4×ER32×11pcs	4-20mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20
D991416	MT2×ER32×6pcs	6-20mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D991417	MT3×ER32×6pcs	6-20mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D991418	MT4×ER32×6pcs	6-20mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D991510	MT4×ER40×23pcs	4-26mm	Φ4、Φ5、Φ6、Φ7、Φ8、Φ9、Φ10、Φ11、Φ12、Φ13、Φ14、Φ15、Φ16、Φ17、Φ18、Φ19、Φ20、Φ21、Φ22、Φ23、Φ24、Φ25、Φ26
D981511	MT4×ER40×15pcs	4-26mm	Φ4、Φ5、Φ6、Φ8、Φ10、Φ12、Φ13、Φ15、Φ16、Φ18、Φ20、Φ21、Φ22、Φ25、Φ26
D991512	MT4×ER40×7pcs	6-25mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20、Φ25

■ Milling chuck series - EOC collet / OZ collet

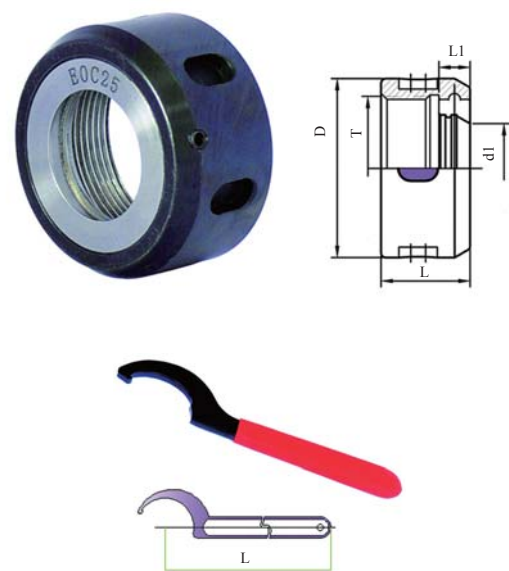


Order No.	Type	D	D1	d	L	L1	L2	L3
D681010	EOC6A(B)	10	11.5	1-6	21	3.5	0.5	4
D681011	EOC8A(B)	12.65	14.5	1-8	26	4	0.8	4.5
D681012	EOC10A(B)	15.15	17.2	1-10	30	4.5	0.8	4.5
D681013	EOC12A(B)	17.75	19.8	1-12	34	5	1.1	4.5
D681014	EOC16A(B)	22.65	25.5	2-16	40	5.5	1.2	5.5
D681015	EOC20A(B)	27.4	29.8	2-20	45	6	1.35	6
D681016	EOC25A(B)	32.9	35.05	2-25	52	6	1.4	6
D681017	EOC32A(B)	41.3	43.7	4-32	60	6	1.45	7.00
D681018	EOC40A(B)	49.7	52.2	6-40	68	6	1.45	8.00
D681019	EOC50A(B)	61.1	63.8	8-50	80	7	1.55	9.00

d	L4	Run out		d	L4	Run out	
		D	D1			D	D1
1.0~1.6	6	0.01	0.015	10.0~18.0	40	0.015	0.02
1.6~3.0	10			18.0~24.0	50		
3.0~7.0	16			24.0~30.0	60		
7.0~10.0	25			30.0~50.0	80	0.02	0.03

Order No.	Type	d(mm)	d(inch)
D681016	EOC25	3,4,5,6,7,8,9,10,11,12,13,14,15,16,18,20,25	1/8",3/16",1/4",5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1"
D681017	EOC32	4,6,8,10,12,16,20,25,32	3/16,1/4",5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1",11/8",11/4"

■ Milling chuck series - EOC nut & spanner



EOC nut

Order No.	Type	ΦD	Φd1	L	L1	T
D751010	EOC16	43	20.2	24	9	M33×1.5
D751011	EOC20	50		28		M42×2.0
D751012	EOC25	60	29.7	30	10.5	M48×2
D751013	EOC32	72	38.5	33.5	10.5	M60×2.5

EOC Spanner

Order No.	Type	B	L	Clamping Nut
D751014	S/EOC16-K	28~32	140	EOC16
D751015	S/EOC20-K	34~36	154	EOC20
D751016	S/EOC25-K	38~42	168	EOC25
D751017	S/EOC32-K	45~52	190	EOC32
D751018	S/EOC40-K	55~63	210	EOC40

■ Milling chuck series - EOC(OZ) collet chuck set



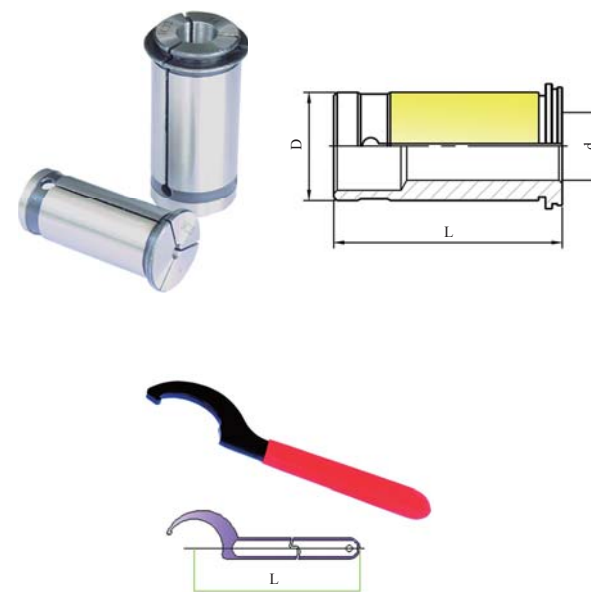
Order No.	Collets size EOC/OZ-25		Pieces	N.W.(kg)
	Taper	Collets		
D1021010	NT30	Inch 1/8"-1"15PCS 1/4"-1"7PCS	7	3.7
D1021011			15	5.2
D1021110	NT40	Inch 1/8"-1"15PCS 1/4"-1"7PCS	7	4
D1021111			15	5.5
D1021210	NT50	Metric 3mm-25mm 15pcs 6mm-25mm 7pcs	7	6.5
D1021211			15	8.5
D1021310	MT3	Metric 3mm-25mm 15pcs 6mm-25mm 7pcs	7	3.7
D1021311			15	5.2

Order No.	Collets size EOC/OZ-25		Pieces	N.W.(kg)
	Taper	Collets		
D1021410	MT4	Inch 1/8"-1"15PCS 1/4"-1"7PCS	7	3.9
D1021411			15	5.4
D1021510	MT5	Inch 1/8"-1"15PCS 1/4"-1"7PCS	7	4.7
D1021511			15	6.2
D1021610	R8	Metric 3mm-25mm 15pcs 6mm-25mm 7pcs	7	3.7
D1021611			15	5.2
D1021710	BT40	Metric 3mm-25mm 15pcs 6mm-25mm 7pcs	7	5.5
D1021711			15	6.5

■ Milling chuck series - C straight collet

Specifications

□ Run out accuracy: 0.015mm



Order No.	Type	D	d	L
D691110	C16	16	4,5,6,8,10	25
D691210	C20	20	6,8,10,12,16	52.5
D691310	C25	25	4,5,6,8,10,12,16	55
D691410	C32	32	6,8,10,12,16,20,25	65
D691411	C32	32	3,4,5,14,18,24,1/8",1/4",5/16",3/8",1/2",5/8",3/4",1"	65
D691510	C42	42	6,8,10,12,16,20,25,32	80
D691511	C42	42	1/4",5/16",3/8",1/2",5/8",3/4",1"	80

Straight collet spanner

Order No.	Type	B	L	Clamping collet
D751014	S/EOC16-K	28~32	140	C16
D751015	S/EOC20-K	34~36	154	C20
D751016	S/EOC25-K	38~42	168	C25
D751017	S/EOC32-K	45~52	190	C32
D751018	S/EOC40-K	55~63	210	C42

■ Milling chuck series - NT needle roller milling chuck

Heavy cutting,
Large clamping force

Optional
MLC Collet Spanner

DIN 2080

Order No.	Type	L	L1	L2	D	d1	d2	T
D481010	NT30×MLC20-75	143.4	75	70	50	20	55	M12X1.7
D481011	NT30×MLC20-90	158.4	90					
D481110	NT40×MLC20-80	173.4	80	70		20	55	
D481112	NT40×MLC20-135	228.4	135		63			M16X2.0
D481113	NT40×MLC32-90	183.4	90					
D481114	NT40×MLC32-105	198.4	105	75		32	73	
D481115	NT40×MLC32-135	228.4	135					
D481210	NT50×MLC20-105	231.8	105	70		20	55	
D481211	NT50×MLC20-150	276.8	150					
D481212	NT50×MLC32-110	236.8	110					
D481213	NT50×MLC32-135	261.8	135	75		32	73	M24X3.0
D481214	NT50×MLC32-165	291.8	165		100			
D481215	NT50×MLC32-200	326.8	200	90				
D481216	NT50×MLC42-110	236.8	110	125		42	95	
D481217	NT50×MLC42-130	256.8	130					
D481218	NT50×MLC42-165	291.8	165	90		42	95	

■ Milling chuck series - Morse taper shank milling chuck

Model No.	Type	d	D	L
MT3C2570	MT3-C25-70	25	58	70
MT4C2570	MT4-C25-70	25	58	70
MT4C3280	MT4-C32-80	32	68	80
MT5C3280	MT5-C32-80	32	68	80
MT5C4290	MT5-C42-90	42	84	90

■ Milling chuck series - Milling chuck set

Model No.	Type	Clamping range	Collet
D1011010	NT30×SC20×5		
D1011011	NT40×SC20×5	6-16mm	Φ6、Φ8、Φ10、Φ12、Φ16
D1011012	NT50×SC20×5		
D1011110	NT30×SC25×7		
D1011111	NT40×SC25×7	6-16mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D1011112	NT50×SC25×7		

Model No.	Type	Clamping range	Collet
D1011210	NT30×SC32×7	6-25mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20、Φ25
D1011211	NT40×SC32×7		
D1011212	NT50×SC32×7		
D1011310	NT30×SC42×8	6-32mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20、Φ25、Φ32
D1011311	NT40×SC42×8		
D1011312	NT50×SC42×8		
D1012110	MT30×SC25×7	4-20mm	Φ4、Φ6、Φ8、Φ10、Φ12、Φ16、Φ20
D1012111	MT40×SC25×7		
D1012112	MT50×SC25×7		
D1012210	MT30×SC32×7	6-25mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20、Φ25
D1012211	MT40×SC32×7		
D1012212	MT50×SC32×7		
D1012310	MT30×SC42×8	6-32mm	Φ6、Φ8、Φ10、Φ12、Φ16、Φ20、Φ25、Φ32
D1012311	MT40×SC42×8		
D1012312	MT50×SC42×8		

■ Milling chuck series - TG collets

Type	D	L	d	
			mm	in
TG75	27	46.9	1~20	1/16~25/32
TG100	35	60.5	1.5~25	1/16~1
TG150	50.8	76.2	2~40	3/32~1-9/16

TG75									
SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.
1/16"	D661010	13/64"	D661019	11/32"	D661028	31/64"	D661037	5/8"	D661046
5/64"	D661011	7/32"	D661020	23/64"	D661029	1/2"	D661038	41/64"	D661047
3/32"	D661012	15/64"	D661021	3/8"	D661030	33/64"	D661039	21/32"	D661048
7/64"	D661013	1/4"	D661022	25/64"	D661031	17/32"	D661040	43/64"	D661049
1/8"	D661014	17/64"	D661023	13/32"	D661032	35/64"	D661041	11/16"	D661050
9/64"	D661015	9/32"	D661024	27/64"	D661033	9/16"	D661042	45/64"	D661051
5/32"	D661016	19/64"	D661025	7/16"	D661034	37/64"	D661043	23/64"	D661052
11/64"	D661017	5/16"	D661026	29/64"	D661035	19/32"	D661044	47/64"	D661053
3/16"	D661018	21/64"	D661027	15/32"	D661036	39/64"	D661045	3/4"	D661054

TG100									
SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.
1/16"	D661110	17/64"	D661123	15/32"	D661136	43/64"	D661149	7/8"	D661162
5/64"	D661111	9/32"	D661124	31/64"	D661137	11/16"	D661150	57/64"	D661163
3/32"	D661112	19/64"	D661125	1/2"	D661138	45/64"	D661151	29/32"	D661164
7/64"	D661113	5/16"	D661126	33/64"	D661139	23/64"	D661152	59/64"	D661165
1/8"	D661114	21/64"	D661127	17/32"	D661140	47/64"	D661153	15/16"	D661166
9/64"	D661115	11/32"	D661128	35/64"	D661141	3/4"	D661154	61/64"	D661167
5/32"	D661116	23/64"	D661129	9/16"	D661142	49/64"	D661155	31/32"	D661168
11/64"	D661117	3/8"	D661130	37/64"	D661143	25/32"	D661156	63/64"	D661169
3/16"	D661118	25/64"	D661131	19/32"	D661144	51/64"	D661157	1"	D661170
13/64"	D661119	13/32"	D661132	39/64"	D661145	13/16"	D661158		
7/32"	D661120	27/64"	D661133	5/8"	D661146	53/64"	D661159		
15/64"	D661121	7/16"	D661134	41/64"	D661147	27/32"	D661160		
1/4"	D661122	29/64"	D661135	21/32"	D661148	55/64"	D661161		

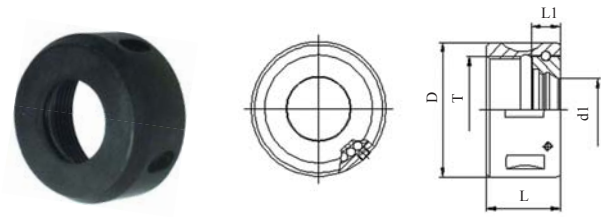
TG150									
SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.	SIZE(in)	Model No.
1/2"	D661210	45/64"	D661223	29/32"	D661236	1- 7/64"	D661249	1 -5/16"	D661262
33/64"	D661211	23/64"	D661224	59/64"	D661237	1 -1/8"	D661250	1 -21/64"	D661263
17/32"	D661212	47/64"	D661225	15/16"	D661238	1 -9/64"	D661251	1 -11/32"	D661264
35/64"	D661213	3/4"	D661226	61/64"	D661239	1 -5/32"	D661252	1 -23/64"	D661265
9/16"	D661214	49/64"	D661227	31/32"	D661240	1 -11/64"	D661253	1 -3/8"	D661266
37/64"	D661215	25/32"	D661228	63/64"	D661241	1 -3/16"	D661254	1 -25/64"	D661267
19/32"	D661216	51/64"	D661229	1"	D661242	1 -13/64"	D661255	1 -13/32"	D661268
39/64"	D661217	13/16"	D661230	1 -1/64"	D661243	1 -7/32"	D661256	1 -27/64"	D661269
5/8"	D661218	53/64"	D661231	1 -1/32"	D661244	1 -15/64"	D661257	1 -7/16"	D661270
41/64"	D661219	27/32"	D661232	1 -3/64"	D661245	1 -1/4"	D661258	1 -29/64"	D661271
21/32"	D661220	55/64"	D661233	1 -1/16"	D661246	1 -17/64"	D661259	1 -15/32"	D661272
43/64"	D661221	7/8"	D661234	1 -5/64"	D661247	1 -9/32"	D661260	1 -31/64"	D661273
11/16"	D661222	57/64"	D661235	1 -3/32"	D661248	1 -19/64"	D661261	1 -1/2"	D661274

Milling chuck series - TG collets

TG collet sets

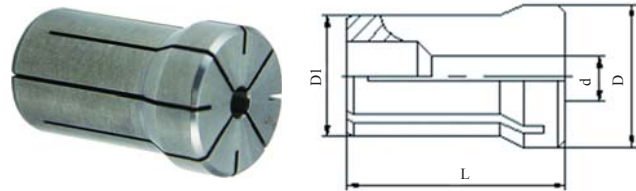
Model No.	Type	Pieces	ID Sizes
D671410	TG75 SETS	43	1/8"-3/4" by 64ths
D671411		22	1/8"-3/4" by 32ths
D671412		11	1/8"-3/4" by 16ths
D671510	TG100 SETS	59	3/32"-1" by 64ths
D671511		41	3/8"-1" by 64ths
D671512		30	3/32"-1" by 32ths
D671513		21	3/8"-1" by 32ths
D671514		15	1/8"-1" by 16ths
D671610	TG150 SETS	65	1/2"-1 1/2" by 64ths
D671611		33	1/2"-1 1/2" by 32ths
D671612		17	1/2"-1 1/2" by 16ths

TG nut



Order No.	Type	D	L	T	L1
D731010	TG-75	1.97	0.98	TW1-1/2"-12	0.32
D731011	TG-100	2.36	1.18	TW1-7/8"-12	0.41
D731012	TG-150	3.23	1.38	TW1-5/8"-12	0.41

Milling chuck series - DA collets



Type	D	D1	L	d	
				mm	in
DA100	19.5	16.5	36.5	2~12.5	1/16~1/2
DA180	26.045	22.08	41.7	2~18	1/16~45/64
DA200	13.6	11.43	30.4	1~8	3/64~5/16
DA300	9.5	7.62	25.4	1~6	1/32~15/64

DA100									
Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.
.	D671010	5/32"	D671017	17/64"	D671024	3/8"	D671031	31/64"	D671038
1/16"	D671011	11/64"	D671018	9/32"	D671025	25/64"	D671032	1/2"	D671039
5/64"	D671012	3/16"	D671019	19/64"	D671026	13/32"	D671033	33/64"	D671040
3/32"	D671013	13/64"	D671020	5/16"	D671027	27/64"	D671034	17/32"	D671041
7/64"	D671014	7/32"	D671021	21/64"	D671028	7/16"	D671035	35/64"	D671042
1/8"	D671015	15/64"	D671022	11/32"	D671029	29/64"	D671036	9/16"	D671043
9/64"	D671016	1/4"	D671023	23/64"	D671030	15/32"	D671037		

DA180									
Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.
3/64"	D671110	13/64"	D671120	23/64"	D671130	33/64"	D671140	43/64"	D671150
1/16"	D671111	7/32"	D671121	3/8"	D671131	17/32"	D671141	11/16"	D671151
5/64"	D671112	15/64"	D671122	25/64"	D671132	35/64"	D671142	45/64"	D671152
3/32"	D671113	1/4"	D671123	13/32"	D671133	9/16"	D671143	23/64"	D671153
7/64"	D671114	17/64"	D671124	27/64"	D671134	37/64"	D671144	47/64"	D671154
1/8"	D671115	9/32"	D671125	7/16"	D671135	19/32"	D671145	3/4"	D671155
9/64"	D671116	19/64"	D671126	29/64"	D671136	39/64"	D671146		
5/32"	D671117	5/16"	D671127	15/32"	D671137	5/8"	D671147		
11/64"	D671118	21/64"	D671128	31/64"	D671138	41/64"	D671148		
3/16"	D671119	11/32"	D671129	1/2"	D671139	21/32"	D671149		

Milling chuck series - DA collets

DA200									
Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.
3/64"	D671210	1/8"	D671215	13/64"	D671220	9/32"	D671225	23/64"	D671230
1/16"	D671211	9/64"	D671216	7/32"	D671221	19/64"	D671226	3/8"	D671231
5/64"	D671212	5/32"	D671217	15/64"	D671222	5/16"	D671227		
3/32"	D671213	11/64"	D671218	1/4"	D671223	21/64"	D671228		
7/64"	D671214	3/16"	D671219	17/64"	D671224	11/32"	D671229		

DA300									
Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.	Size(in)	Order No.
3/64"	D671310	3/32"	D671313	9/64"	D671316	3/16"	D671319	15/64"	D671322
1/16"	D671311	7/64"	D671314	5/32"	D671317	13/64"	D671320	1/4"	D671323
5/64"	D671312	1/8"	D671315	11/64"	D671318	7/32"	D671321		

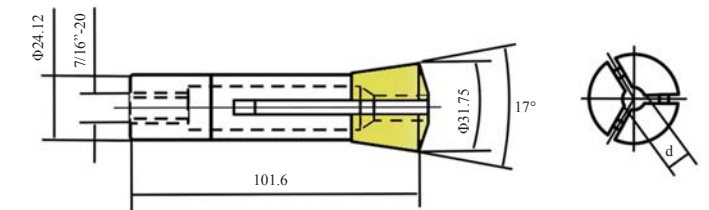
DA Collet Sets

Model No.	Type	Pieces	ID Sizes
D671710	DA100 SETS	8	1/8"-9/16" by 16ths
D671711		15	1/8"-9/16" by 32ths
D671712		21	1/4"-9/16" by 64ths
D671713		29	1/8"-9/16 by 64ths
D671714		33	1/16"-9/16 by 64ths

Model No.	Type	Pieces	ID Sizes
D671810	DA180 SETS	9	1/4"-3/4" by 16ths
D671811		17	1/4"-3/4" by 32ths
D671812		21	1/8"-3/4" by 32ths
D671813		33	1/4"-3/4 by 64ths
D671814		41	1/8"-3/4 by 64ths

Model No.	Type	Pieces	ID Sizes
D671910	DA200 SETS	9	1/8"-3/8" by 32ths
D671911		17	1/8"-3/8" by 64ths
D671912		21	1/16"-3/8" by 64ths
D672010	DA300 SETS	7	1/16"-1/4" by 32ths
D672011		14	3/64"-1/4" by 64ths

Collet series - R8 collets

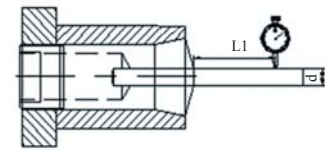
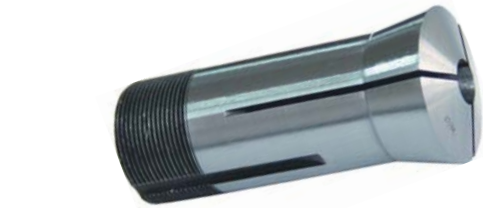


Order No.	d	Order No.	d	Order No.	d	Order No.	d
D701010	1	D701024	9	D701110	1/32"	D701124	15/32"
D701011	1.5	D701025	10	D701111	1/16"	D701125	1/2"
D701012	2	D701026	11	D701112	3/32"	D701126	17/32"
D701013	2.5	D701027	12	D701113	1/8"	D701127	9/16"
D701014	3	D701028	13	D701114	5/32"	D701128	19/32"
D701015	3.5	D701029	14	D701115	3/16"	D701129	5/8"
D701016	4	D701030	15	D701116	7/32"	D701130	21/32"
D701017	4.5	D701031	16	D701117	1/4"	D701131	11/16"
D701018	5	D701032	17	D701118	9/32"	D701132	23/32"
D701019	5.5	D701033	18	D701119	5/16"	D701133	3/4"
D701020	6	D701034	19	D701120	11/32"	D701134	25/32"
D701021	6.5	D701035	20	D701121	3/8"	D701135	13/16"
D701022	7	D701036	21	D701122	13/32"	D701136	27/32"
D701023	8	D701037	22	D701123	7/16"	D701137	7/8"

Collet series - 5C collets

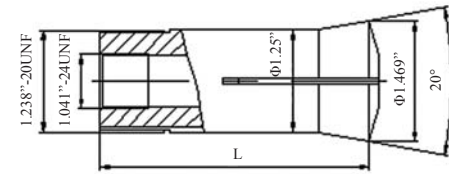
Specifications

□ There are 3 types of internal hole: Round, square and hex



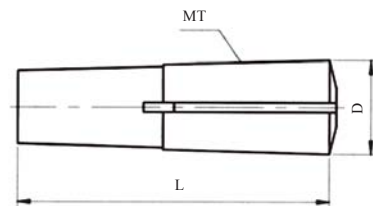
L	L1	d	TIR
0.25	1/32-1/16		
0.5	> 1/16-1/8		
1	> 1/8-3/8		0.0005"
1.5	> 3/8-5/8		
2	> 5/8-7/8		

Size(mm)	Model No.	Size(mm)	Model No.	Size(mm)	Model No.	Size(mm)	Model No.
1	D711111	8	D711108	15	D711115	22	D711122
2	D711112	9	D711109	16	D711116	23	D711123
3	D711113	10	D711110	17	D711117	24	D711124
4	D711114	11	D711111	18	D711118	25	D711125
5	D711115	12	D711112	19	D711119	26	D711126
6	D711116	13	D711113	20	D711120	27	D711127
7	D711117	14	D711114	21	D711121	28	D711128



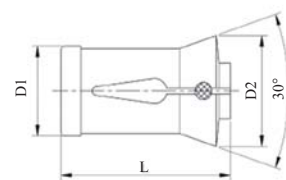
Size(in)	Model No.	Size(in)	Model No.	Size(in)	Model No.	Size(in)	Model No.
1/32"	D711010	5/16"	D711028	19/32"	D711046	7/8"	D711064
3/64"	D711011	21/64"	D711029	39/64"	D711047	57/64"	D711065
1/16"	D711012	11/32"	D711030	5/8"	D711048	29/32"	D711066
5/64"	D711013	23/64"	D711031	41/64"	D711049	59/64"	D711067
3/32"	D711014	3/8"	D711032	21/32"	D711050	15/16"	D711068
7/64"	D711015	25/64"	D711033	43/64"	D711051	61/64"	D711069
1/8"	D711016	13/32"	D711034	11/16"	D711052	31/32"	D711070
9/64"	D711017	27/64"	D711035	45/64"	D711053	63/64"	D711071
5/32"	D711018	7/16"	D711036	23/32"	D711054	1"	D711072
11/64"	D711019	29/64"	D711037	47/64"	D711055	1-1/64"	D711073
3/16"	D711020	15/32"	D711038	3/4"	D711056	1-1/32"	D711074
13/64"	D711021	31/64"	D711039	49/64"	D711057	1-3/64"	D711075
7/32"	D711022	1/2"	D711040	25/32"	D711058	1-1/16"	D711076
15/64"	D711023	33/64"	D711041	51/64"	D711059	1-5/64"	D711077
1/4"	D711024	17/32"	D711042	13/16"	D711060	1-3/32"	D711078
17/64"	D711025	35/64"	D711043	53/64"	D711061	1-7/64"	D711079
9/32"	D711026	9/16"	D711044	27/32"	D711062	1-1/8"	D711080
19/64"	D711027	37/64"	D711045	55/64"	D711063		

Collet series - MS taper collets



Model No.	Taper	d		D	L
		in	mm		
C-MS1-d	MS1	1/16"-5/16"	2,3,4,5,6,8	12.2	57
C-MS2-d	MS2	1/8"-1/2"	2,3,4,5,6,8,10,12	18	68
C-MS3-d	MS3	1/8"-3/4"	3,4,5,6,8,10,12,14,16,18	24.1	86
C-MS4-d	MS4	1/8"-1"	3,4,5,6,8,10,12,14,16,18,20,25	31.5	108

Collet series - Clamping collets



Model No.	D1	D2	L	Hole size
C-DIN6343-F17.5	17.5	22	51	13
C-DIN6343-F22	22	30	55	16
C-DIN6343-F28	28	38	70	22
C-DIN6343-F32	32	45	75	26
C-DIN6343-F35	35	48	80	30
C-DIN6343-F42	42	55	94	36
C-DIN6343-F48	48	60	94	42
C-DIN6343-F56	56	68	94	50
C-DIN6343-F66	66	84	110	60

Collet series - Sharpener collets



Model No.	Metric (mm)	Inch
C-S28	Φ3-Φ28	1/8-1-1/8

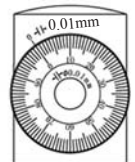
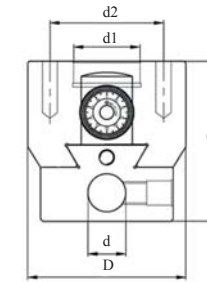
Boring head - NBH2084



Type:A



Type:B

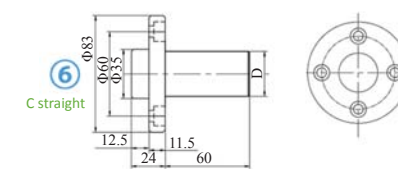
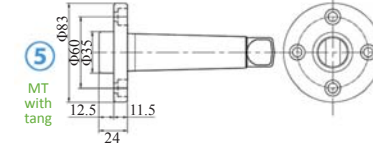
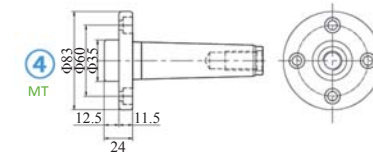
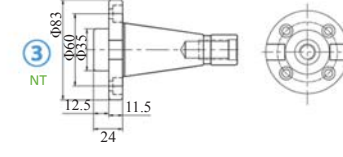
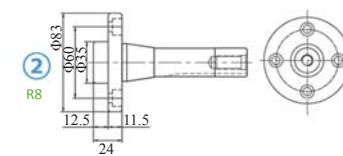
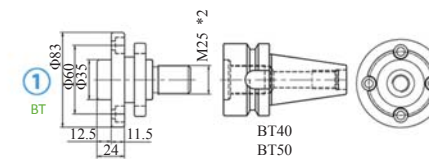


Graduation reading



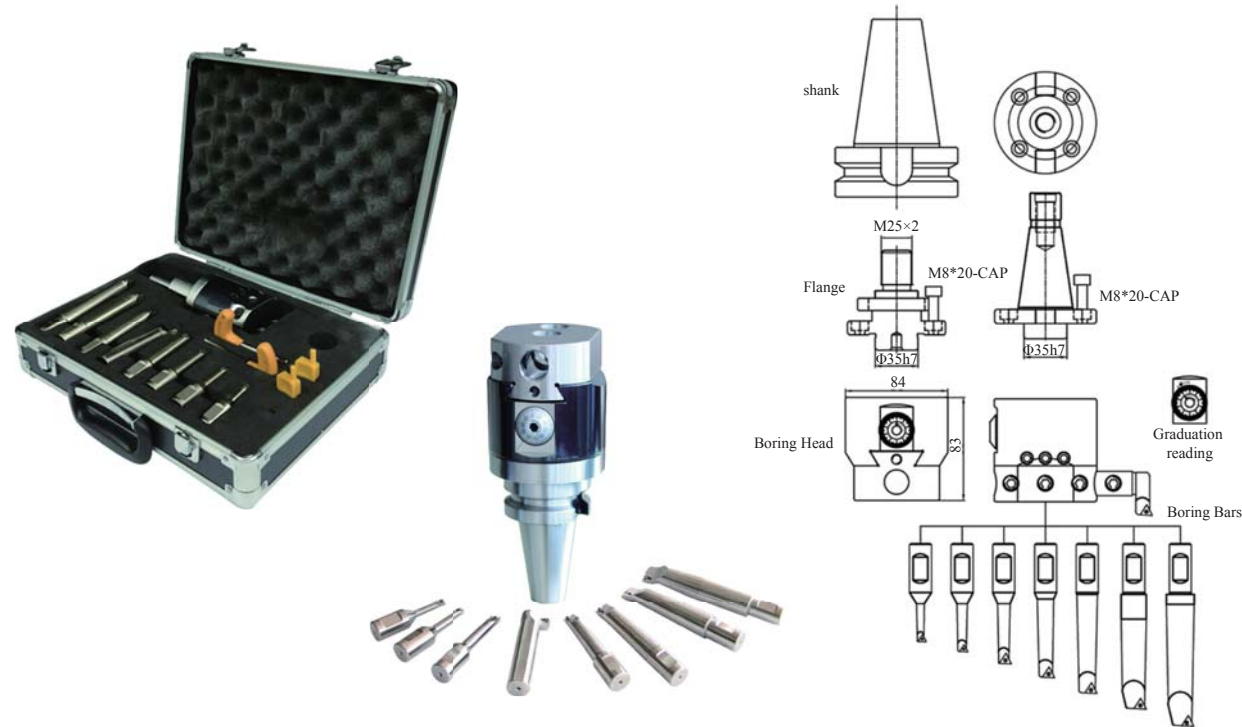
Order No.	Type	Size					Micro distance	Micro accuracy	Modular holder
		D	d	d1	d2	L			
D851010	NBH2084	84	20	35	60	83	28	0.01	NBH

Boring head shank for NBH2084



Order No.	Type	Specification
D861010	BT40	M16×P2.0
D861011	BT50	M20×P3.0
D861110	R8	7/16"-20UNF
D861210	NT30	1/2"-12UNC
D861211	NT30	M12×P1.75
D861212	NT40	5/8"-11UNC
D861213	NT40	M16×P2.0
D861214	NT50	1"-8UNC
D861215	NT50	M24×P3.0
D861310	MT3	1/2"-12UNC
D861311	MT3	M12×P1.75
D861312	MT4	5/8"-11UNC
D861313	MT4	M16×P2.0
D861314	MT5	1"-8UNC
D861315	MT5	M24×P3.0
D861410	MT3	TANGED
D861411	MT4	TANGED
D861412	MT5	TANGED
D861510	Φ20	20
D861511	Φ25	25
D861512	Φ32	32

■ Boring head set - NBH2084



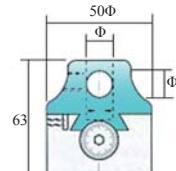
Order No.	Type	Speification
D871010	BT40-NBH2084	M16×P2.0
D871011	BT50-NBH2084	M20×P3.0
D871012	R8-NBH2084	7/16"-20UNC
D871013	NT30-NBH2084	1/2"-12UNC
D871014	NT30-NBH2084	M12×P1.75
D871015	NT40-NBH2084	5/8"-11UNC
D871016	NT40-NBH2084	M16×P2.0
D871017	NT50-NBH2084	1"-8UNC
D871018	NT50-NBH2084	M24×P3.0

Boring bar

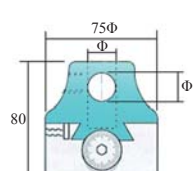
Type	Boring Range	Depth	Wrench
SBJ-2008-32	8-11	32	T6
SBJ-2010-40	10-13	40	T6
SBJ-2012-53	12-17	53	T6
SBJ-2016-68	16-21	68	T8
SBJ-2020-83	20-130	83	T8
SBJ-2025-96	25-135	96	T8
SBJ-2030-115	30-140	115	T8
SBJ-2020-L	120-280	84+BTL1	T8

Boring head

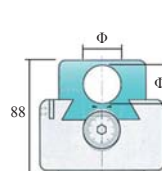
CH-BHC2



CH-BHC3

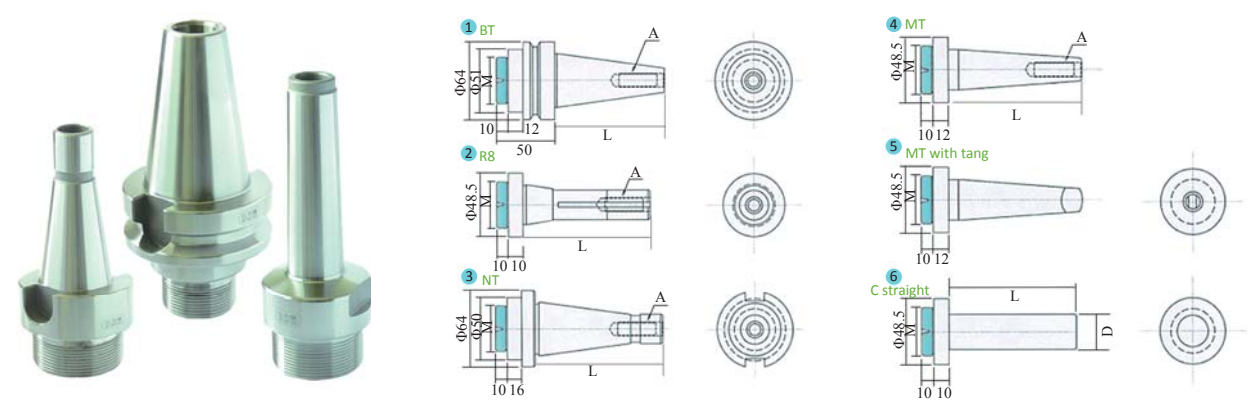


CH-BHC4



Order No.	Type	Actual size	Overall length	Boring bar hole size	Center dist between holes	Cross hole dia	Offset	N.W.(kg)
D881010	BHC2 inch	2"Dia	2-7/16"	1/2"	5/8"	1/2"	5/8"	0.7
D881011	BHC2 m/m	50	63	12	15	12	15	0.7
D881110	BHC3 inch	3"Dia	3-5/32"	3/4"	15/16"	3/4"	1"	2
D881111	BHC3 m/m	75	80	18	23	18	25	2
D881210	BHC4 inch	4"Dia	3-1/2"	1"	1-1/4"	1"	1"	4
D881211	BHC4 m/m	100	88	25	32	25	25	4

■ Boring head shank for BHC2-BHC4



Order No.	Type	L	L1	M
D891010	BT40	119.4	42	M16×2.0
D891011	BT50	116.8	53	M24×3.0
D891012	BT30	97.4	37	1-1/2"-18
D891013	BT40	119.4	42	1-1/2"-18
D891014	BT50	116.8	53	1-1/2"-18

Order No.	Type	L	L1	Speification	M
D891210	NT30	105	24.6	1/2"-12	1-1/2"-18
D891211	NT30	105	24.6	M12×1.75	1-1/2"-18
D891212	NT40	132	26.6	5/8"-11	1-1/2"-18
D891213	NT40	132	26.6	M16×2.0	1-1/2"-18
D891214	NT50	170	31.2	1"-8	1-1/2"-18
D891215	NT50	170	31.2	M24×3.0	1-1/2"-18

Order No.	Type	Speification	N.W.(kg)
D891410	MT2	TANGED	0.4
D891411	MT3	TANGED	0.5
D891412	MT4	TANGED	0.8
D891413	MT5	TANGED	1.8

Order No.	Model	L	M
D891110	R8	132	1-1/2"-18
D891111	R8	132	7/8"-20

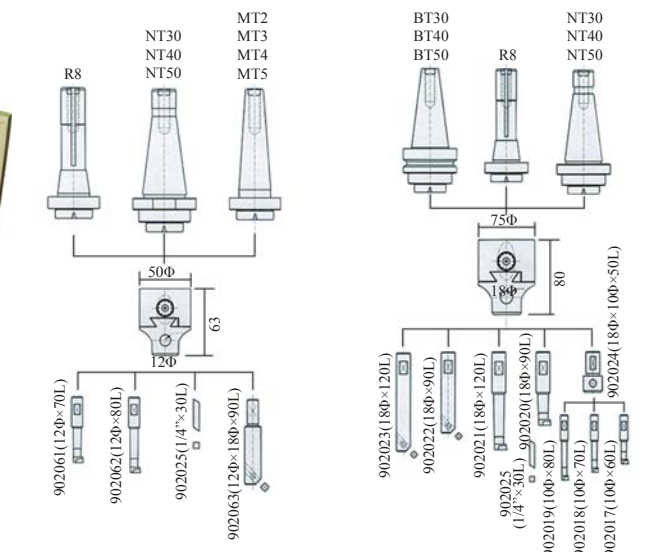
Order No.	Type	L	M	Speification
D891310	MT2	96	1-1/2"-18	3/8"-16
D891311	MT2	96	1-1/2"-18	M10×1.5
D891312	MT3	113	1-1/2"-18	3/8"-16
D891313	MT3	113	1-1/2"-18	1/2"-13
D891314	MT3	113	7/8"-20	1/2"-13
D891315	MT3	113	1-1/2"-18	1/2"-12
D891316	MT3	113	1-1/2"-18	M12×1.75
D891317	MT4	137	1-1/2"-18	5/8"-11
D891318	MT4	137	1-1/2"-18	M16×2.0
D891319	MT5	161.5	1-1/2"-18	1"-8
D891320	MT5	161.5	1-1/2"-18	M24×3.0

Order No.	Type	D	L	M
D891510	Φ20	20	60	1-1/2"-18
D891511	Φ25	25	60	1-1/2"-18
D891512	Φ32	32	60	1-1/2"-18

Boring head sets



Order No.	Type	Boring bar	boring shank	Minimum boring hole diameter	Maximum boring hole diameter	Maximum depth of boring
D901010	BHC2	9	straight shank, BT30, BT40, BT50, R8, NT30, NT40, NT50, MT2, MT3, MT4, MT5	10	150	50
D901110	BHC3	12		10	200	80
D901210	BHC4	6		10	300	85



■ Universal facing and boring head

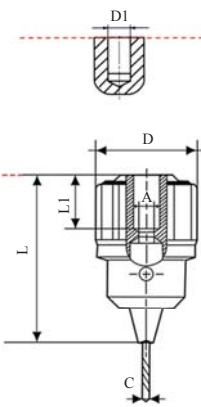
Specifications

- The Facing and Boring Head is a major accessory of the machine tools, such as jig boring machine, horizontal boring machine, milling machine, CNC machine, etc. It is possible to carry out such operation as facing, outside and inside diameter boring, boring step holes and inner and outside groove cutting etc.
- This product has the mechanism of manual fine feed, rapid adjustment, various velocities for radial automatic feed and overload protection. The shank which is fixed to the spindle of machine can be selected in accordance with the customers' requirement.



Model No.	F212A	F213A	F214A
Max facing and boring dia(mm)	150	350	450
Max stroke of slide(mm)	±15	±25	±50
Fine feed per graduation(mm)	0.005		
Manual feed per revolution(mm)	2	3	
Self-acting feed per revolution(mm)	0.02 0.04 0.06 0.08 0.10 0.12	0.03 0.06 0.09 0.12 0.15 0.18	
Dia of tool post holes in slide(mm)	18	22	
Max dia of slide(mm)	90	120	168
Height of head without shank(mm)	87.5	118	
Weight of head without shank(kg)	2.9	6.1	7.8
The length of sliding block(mm)	75	105	160
The width of sliding block(mm)	70	90	90
ID of bushing(mm)	4、8、12	8、10、12、14	

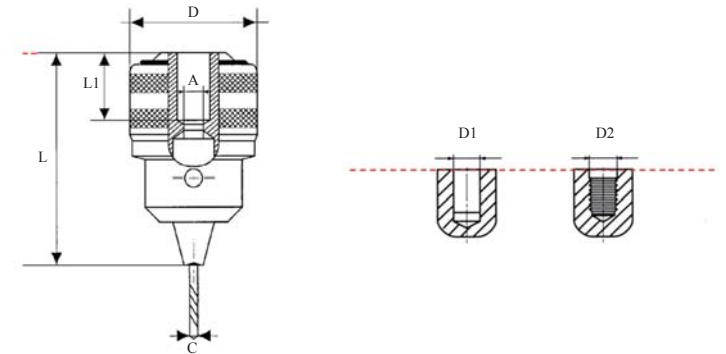
■ Key drill chuck (heavy duty)



Order No.	Type	Capacity		Taper mount	D(mm)	L(mm)	L1(mm)	g	Key
		mm	inch						
F071010	J216	0.6-6	1/64"-1/4"	B10(Φ10.094)	30	49	17.5	125	K2
F071110	J2110	1-10	1/32"-3/8"	B12(Φ12.065)	43	69	22	335	K4
F071210	J2113	1-13	1/32"-1/2"	B16(Φ15.733)	53	86	28	625	K5
F071211	J2113A	1-13	1/32"-1/2"	B18(Φ17.780)	53	86	36	625	K5
F071310	J2116	1-16	1/32"-5/8"	B18(Φ17.780)	57	93	36	818	K5
F071311	J2116A	1-16	1/32"-5/8"	B16(Φ15.733)	57	93	28	818	K5
F071410	J2120	5-20	13/64"-3/4"	B22(Φ21.793)	65	107	45	1214	K6

Order No.	Type	Capacity		Taper mount	D(mm)	L(mm)	L1(mm)	g	Key
		mm	inch						
F071510	J226	0.6-6	1/64"-1/4"	JT1(Φ9.754)	30	49	19.2	125	K2
F071610	J2210	1-10	1/32"-3/8"	JT2(Φ14.199)	43	69	26	335	K4
F071710	J2213	1-13	1/32"-1/2"	JT6(Φ17.170)	53	86	29	625	K5
F071711	J2213A	1-13	1/32"-1/2"	JT33(Φ15.850)	53	86	29	625	K5
F071810	J2216	1-16	1/32"-5/8"	JT3(Φ20.599)	57	93	35	818	K5
F071811	J2216A	1-16	1/32"-5/8"	JT6(Φ17.170)	57	93	29	818	K5
F071910	J2220	5-20	13/64"-3/4"	JT3(Φ20.599)	65	107	35	1214	K6

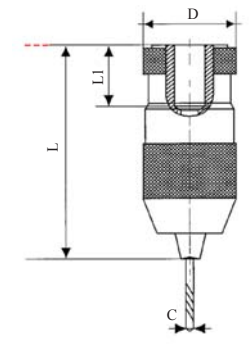
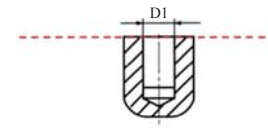
■ Key drill chuck (light duty)



Order No.	Type	C		D1		D2		D(mm)	L(mm)	L1(mm)	A(mm)	g	Key
		mm	"	Taper	Taper	mm	UNF						
F141010	J3506	0.8-6	1/32"-1/4"			M12×1.25		28	49.5	16	Φ5.5	95	K3
F141110	J3506A	0.8-6	1/32"-1/4"				3/8"-24UNF	28	49.5	16	Φ5.5	95	K3
F141111	J3510	1-10	1/32"-3/8"			M12×1.25		34	57	16	Φ5.5	180	K3
F141210	J3510A	1-10	1/32"-3/8"				1/2"-20UNF	34	57	16	Φ5.5	180	K3
F141310	J3510B	1-10	1/32"-3/8"				3/8"-24UNF	34	57	16	Φ5.5	180	K3
F141410	J3510H	1.5-10	1/32"-3/8"				3/8"-24UNF	33	57	16	Φ5.5	180	K3
F141411	J2510	1-10	1/32"-3/8"	B12(Φ12.065)				34	62	22		180	K3
F141510	J2610	1-10	1/32"-3/8"		JT2(Φ14.199)			34	62	26		180	K3
F141610	J3513	1.5-13	1/16"-1/2"			M12×1.25		43	73	16	Φ5.5	320	K4
F141611	J3513A	1.5-13	1/16"-1/2"				1/2"-20UNF	43	73	17.5	Φ5.5	320	K4
F141612	J3513B	1.5-13	1/16"-1/2"				3/8"-24UNF	43	73	16	Φ5.5	320	K4
F141710	J2513	1.5-13	1/16"-1/2"	B16(Φ15.733)				43	73	28		320	K4
F141711	J2513A	1.5-13	1/16"-1/2"	B12(Φ12.065)				43	73	22		320	K4
F141810	J2613	1.5-13	1/16"-1/2"		JT33(Φ15.85)			43	73	29		320	K4
F141811	J2613A	1.5-13	1/16"-1/2"		JT6(Φ17.170)			43	73	29		320	K4
F141812	J3516	3-16	1/16"-1/2"			M12×1.25		52	86	16	Φ6.5	584	K5
F141910	J3516A	3-16	1/8"-5/8"				1/2"-20UNF	52	86	17.5	Φ6.5	584	K5
F141911	J3516B	3-16	1/8"-5/8"				5/8"-16UNF	52	86	19	Φ6.5	584	K5
F141912	J3516C	3-16	1/8"-5/8"			M16×1.5		52	86	19	Φ6.5	584	K5
F142010	J2516	3-16	1/8"-5/8"	B16(Φ15.733)				52	86	28		584	K5
F142110	J2516A	3-16	1/8"-5/8"	B18(Φ17.780)	JT3(Φ20.599)			52	86	36		584	K5
F142111	J2616	3-16	1/8"-5/8"		JT3(Φ20.599)			52	86	35		584	K5
F142210	J2616A	3-16	1/8"-5/8"		JT6(Φ17.170)			52	86	29		584	K5

■ Heavy-duty keyless drill chuck

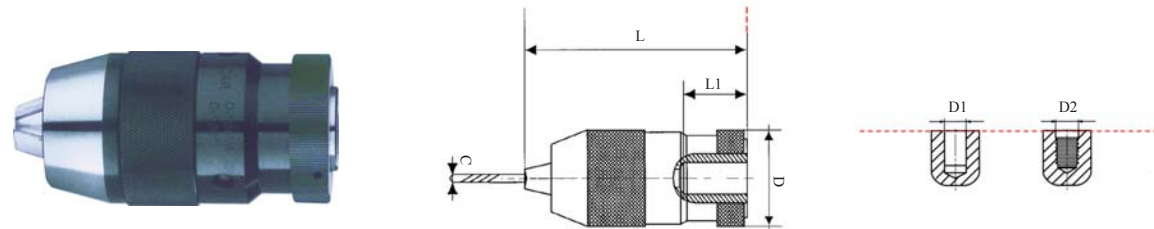
Optional



Heavy-duty keyless drill chuck

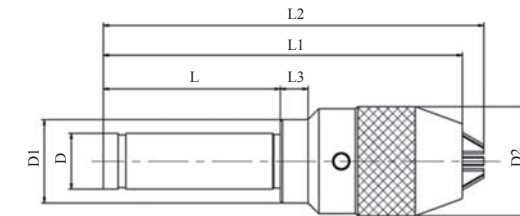
Order No.	Type	C		D1		D(mm)	L(mm)	L1(mm)	g
		mm	"	Taper	Taper				
F081010	J013	0.2-3	1/64"-1/8"	B6(Φ6.35)		24	45.1	41.5	100
F081110	J023	0.2-3	1/64"-1/8"		JT0(Φ6.35)	24	45.1	41.5	100
F081210	J014	0.2-4	1/64"-5/32"	B10(Φ10.094)		29	60.8	55	190
F081310	J024	0.2-4	1/64"-5/32"		JT1(Φ9.754)	29	60.8	55	190
F081410	J016	0.5-6	1/32"-1/4"	B10(Φ10.094)		31	64	17.5	320
F081510	J026	0.5-6	1/32"-1/4"		JT1(Φ9.754)	31	64	19.2	320
F081610	J0110	1-10	1/32"-3/8"	B12(Φ12.065)		42	91	22	400
F081710	J0210	1-10	1/32"-3/8"		JT2(Φ14.199)	42	91	26	400
F081810	J0113	1-13	1/16"-1/2"	B16(Φ15.733)		48	106	28	685
F081811	J0113A	1-13	1/16"-1/2"	B12(Φ12.065)		48	106	22	685
F081910	J0213	1-13	1/16"-1/2"		JT33(Φ15.85)	48	106	29	685
F081911	J0213A	1-13	1/16"-1/2"		JT6(Φ17.170)	48	106	29	685
F082010	J0116	1-16	1/8"-5/8"	B18(Φ17.780)		53	108	36	988
F082011	J0116A	1-16	1/8"-5/8"	B16(Φ15.733)		53	108	28	988
F082110	J0216	1-16	1/8"-5/8"		JT3(Φ20.599)	53	108	35	988
F082111	J0216A	1-16	1/8"-5/8"		JT6(Φ17.170)	53	108	29	988
F082210	J0120	5-20	3/16"-3/4"	B22(Φ21.793)		54	109	30	989
F082211	J0220	5-20	3/16"-3/4"		JT3(Φ20.599)	55	110	31	990

Light-duty keyless drill chuck



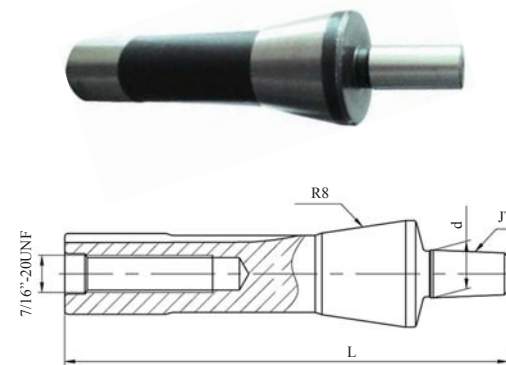
Order No.	Type	C		D1		D2	D(mm)	L(mm)	L1(mm)	g
		mm	"	Taper	Taper	UNF				
F091010	J036	0.5-6	1/32"-1/4"			3/8"-24UNF	31	64	16	320
F091110	J0510	1-10	1/32"-3/8"	B12(Φ12.065)			42	91	22	400
F091210	J0310A	1-10	1/32"-3/8"			1/2"-20UNF	42	86	17.5	400
F091211	J0310B	1-10	1/32"-3/8"			3/8"-24UNF	42	86	16	400
F091310	J0513	1-13	1/16"-1/2"	B16(Φ15.733)			44	97	28	600
F091311	J0513A	1-13	1/16"-1/2"	B12(Φ12.065)			44	97	22	600
F091410	J0613	1-13	1/16"-1/2"		JT33(Φ15.85)		44	97	29	600
F091411	J0613A	1-13	1/16"-1/2"		JT6(Φ17.170)		44	97	29	600
F091412	J0313A	1-13	1/16"-1/2"			1/2"-20UNF	44	90	17.5	600
F091413	J0313B	1-13	1/16"-1/2"			3/8"-24UNF	44	90	16	600
F091510	J0516	1-16	1/8"-5/8"	B18(Φ17.780)			48	102	36	965
F091511	J0516A	1-16	1/8"-5/8"	B16(Φ15.733)			48	102	28	965
F091610	J0616	1-16	1/8"-5/8"		JT3(Φ20.599)		48	102	35	965
F091511	J0616A	1-16	1/8"-5/8"		JT6(Φ17.170)		48	102	29	965
F091610	J0316	1-16	1/8"-5/8"			5/8"-16UN	48	102	19	965
F091611	J0316A	1-16	1/8"-5/8"			1/2"-20UNF	48	102	17.5	965

High precision APU keyless drill chucks



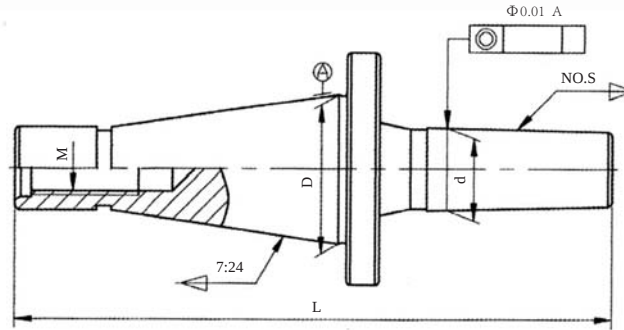
Order No.	Type	Capacity range		Dimension				
		mm	inch	D1	L1	L2	L	D
F171010	C20-13	1.0-13	1/32-1/2	51	143	155.5	60	20
F171011	C20-16	1.0-16	1/32-5/8	57	153	167.5	60	20
F171012	C25-13	1.0-13	1/32-1/2	51	162	174	80	25
F171013	C25-16	1.0-16	1/32-5/8	57	173	187.5	80	25
F171014	C32-13	1.0-13	1/32-1/2	51	162	174	80	32
F171015	C32-16	1.0-16	1/32-5/8	57	173	187.5	80	32
F171016	C42-13	1.0-13	1/32-1/2	51	162	174	80	42
F171017	C42-16	1.0-16	1/32-5/8	57	173	187.5	80	42
F171110	R8-10	1.0-10	1/32-3/8	43.5	161.5	170	102	31.75
F171111	R8-13	1.0-13	1/32-1/2	51	183.5	195	102	31.75
F171112	R8-16	1.0-16	1/32-5/8	57	195	210	102	31.75
F171410	MT2-08	1.0-8	1/32-5/16	36	122.5	131	63	17.780
F171411	MT2-10	1.0-10	1/32-3/8	43.5	136	145	63	17.780
F171412	MT2-13	1.0-13	1/32-1/2	51	140.5	152.5	63	17.78
F171413	MT3-13	1.0-13	1/32-1/2	51	182.5	195	99.5	23.825
F171414	MT3-16	1.0-16	1/32-5/8	57	208	219.5	99.5	23.825
F171415	MT4-13	1.0-13	1/32-1/2	51	207	218.5	125	31.542
F171416	MT4-16	1.0-16	1/32-5/8	56.5	219	234.5	125	31.542

R8 drill chuck arbor



Order No.	Type	D(in)	D(mm)	NO.S	L(mm)	d(mm)
F191510	R8×B10	R8	24.1	B10	124	10.094
F191511	R8×B12			B12	128	12.065
F191512	R8×B16			B16	135	15.733
F191513	R8×B18			B18	143	17.78
F191514	R8×B22			B22	152	21.793
F191515	R8×J1			J1	122	9.754
F191516	R8×J2			J2	128	14.199
F191517	R8×J33			J33	132	15.85
F191518	R8×J6			J6	132	17.17
F191519	R8×J3			J3	137	20.599

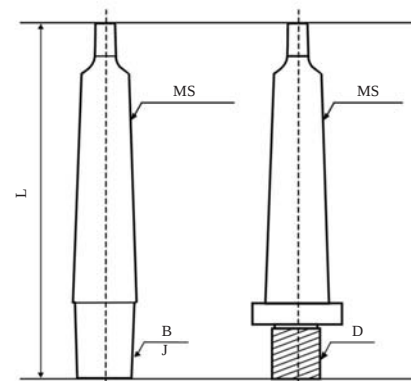
■ NT drill chuck arbors



Model No.	D	d	M
NT30-J0	31.75	6.35	M12
NT30-J1		9.754	
NT30-J2S		13.94	
NT30-J2		14.199	
NT30-J33		15.85	
NT30-J6		17.17	
NT30-J3	44.45	20.599	M16
NT30-J4		28.55	
NT30-J5		35.89	
NT40-J0		6.35	
NT40-J1		9.754	
NT40-J2S		13.94	
NT40-J2	44.45	14.199	M16
NT40-J33		15.85	
NT40-J6		17.17	
NT40-J3		20.599	
NT40-J4		28.55	
NT40-J5		35.89	
NT50-J1	69.85	9.754	M24
NT50-J2S		13.94	
NT50-J2		14.199	
NT50-J33		15.85	

Model No.	D	d	M
NT50-J6	69.85	17.17	M24
NT50-J3		20.599	
NT50-J4		28.55	
NT50-J5		35.89	
NT30-B10	31.75	10.094	M12
NT30-B12		12.065	
NT30-B16		15.733	
NT30-B18		17.78	
NT30-B22	44.45	21.793	M16
NT30-B24		23.825	
NT40-B10		10.094	
NT40-B12		12.065	
NT40-B16	44.45	15.733	M16
NT40-B18		17.78	
NT40-B22		21.793	
NT40-B24		23.825	
NT50-B10	69.85	10.094	M24
NT50-B12		12.065	
NT50-B16		15.733	
NT50-B18		17.78	
NT50-B22	69.85	21.793	M24
NT50-B24		23.825	

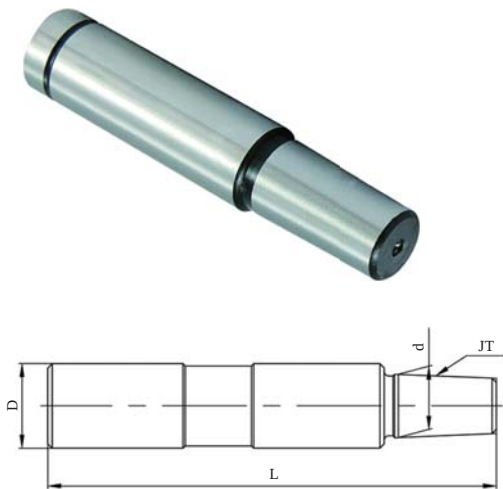
■ Morse taper drill chuck arbors with tang (or with draw bar)



■ Morse taper drill chuck arbors with tang (or with draw bar)

Order No.	MS(NO)	Type	B(DIN)	J(JACOBS)	D(UNF)	L(mm)	N.W.(g)
F181010	1	MS1×B10	B10			86	57
F181011		MS1×B12	B12			89	65
F181012		MS1×B16	B16			99	91
F181013		MS1×B18	B18			107	124
F181014		MS1×J0		J0		81	47
F181015		MS1×J1		J1		86.5	53
F181016		MS1×J2		J2		92	71
F181017		MS1×J33		J33		95	82
F181018		MS1×J6		J6		95	124
F181110	2	MS2×B10	B10			102	129
F181111		MS2×B12	B12			113	138
F181112		MS2×B16	B16			121	163
F181113		MS2×B18	B18			126	196
F181114		MS2×B22	B22			97	247
F181115		MS2×J0		J0		102	120
F181116		MS2×J1		J1		108	126
F181117		MS2×J2		J2		111	143
F181118		MS2×J33		J33		111	154
F181119		MS2×J6		J6		112	162
F181120		MS2×J3		J3		124	196
F181121		MS2×J4		J4		126.5	197
F181122		MS2×J5		J5		130	198
F181123		MS2× (3/8"-24)			3/8"-24UNF	105	130
F181124		MS2× (1/2"-20)			1/2"-20UNF	107	135
F181125		MS2× (5/8"-16)			5/8"-16UN	125	145
F181210	3	MS3×B12	B12			125	283
F181211		MS3×B16	B16			134	309
F181212		MS3×B18	B18			140	341
F181213		MS3×B22	B22			147	393
F181214		MS3×B24	B24			157	436
F181215		MS3×J1		J1		120.5	271
F181216		MS3×J2		J2		126	288
F181217		MS3×J33		J33		129	300
F181218		MS3×J6		J6		129	307
F181219		MS3×J3		J3		135	341
F181220		MS3×J4		J4		146	456
F181221		MS3×J5		J5		149	457
F181222		MS3×(3/8"-24)			3/8"-24UNF	124	285
F181223		MS3×(1/2"-20)			1/2"-20UNF	126	290
F181224		MS3×(5/8"-16)			5/8"-16UN	157	300
F181310	4	MS4×B16	B16			159	621
F181311		MS4×B18	B18			168	654
F181312		MS4×B22	B22			176	705
F181313		MS4×B24	B24			186	749
F181314		MS4×J2		J2		149	601
F181315		MS4×J33		J33		155	612
F181316		MS4×J6		J6		155	619
F181317		MS4×J3		J3		161	654
F181318		MS4×J4		J4		172	778
F181319		MS4×J5		J5		174	935
F181410	5	MS5×B16	B16			196	1505
F181411		MS5×B18	B18			205	1564
F181412		MS5×B22	B22			213.5	1615
F181413		MS5×B24	B24			221	1658
F181414		MS5×J33		J33		184	1563
F181415		MS5×J6		J6		184	1688
F181416		MS5×J3		J3		190	1845
F181417		MS5×J4		J4		201	1846
F181418		MS5×J5		J5		206	1847

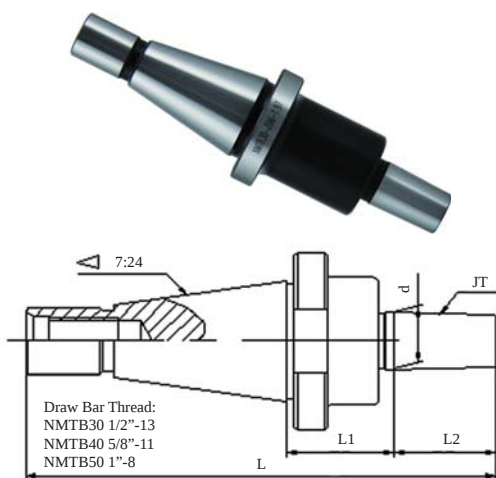
Straight shank drill chuck arbor



Order No.	Type	D(in)	D(mm)	NO.S	L(mm)	d(mm)
F191010	3/8"×J0	3/8"	9.525	J0	79	6.35
F191011	3/8"×J1			J1	84	9.754
F191110	1/2"×B10	1/2"	12.7	B10	82	10.094
F191111	1/2"×B12			B12	86	12.065
F191112	1/2"×B16			B16	92	15.733
F191113	1/2"×B18			B18	100	17.78
F191114	1/2"×B22			B22	109	21.793
F191115	1/2"×J0			J0	79	6.35
F191116	1/2"×J1			J1	84	9.754
F191117	1/2"×J2			J2	90	14.199
F191118	1/2"×J33			J33	93	15.85
F191119	1/2"×J6			J6	93	17.17
F191120	1/2"×J3			J3	98	20.599
F191121	1/2"×J4			J4	110	28.55

Order No.	Type	D(in)	D(mm)	NO.S	L(mm)	d(mm)
F191210	5/8"×B10	5/8"	15.87	B10	82	10.094
F191211	5/8"×B12			B12	86	12.065
F191212	5/8"×B16			B16	92	15.733
F191213	5/8"×B18			B18	100	17.78
F191214	5/8"×B22			B22	109	21.793
F191215	5/8"×B24			B24	119	23.825
F191216	5/8"×J1			J1	84	9.754
F191217	5/8"×J2			J2	90	14.199
F191218	5/8"×J33			J33	93	15.85
F191219	5/8"×J6			J6	93	17.17
F191220	5/8"×J3	3/4"	19.05	J33	98	20.599
F191221	5/8"×J4			J4	110	28.55
F191310	3/4"×B12			B12	100	12.065
F191311	3/4"×B16			B16	106	15.733
F191312	3/4"×B18			B18	114	17.78
F191313	3/4"×B22			B22	123	21.793
F191314	3/4"×B24			B24	133	23.825
F191315	3/4"×J1			J1	97	9.754
F191316	3/4"×J2			J2	104	14.199
F191317	3/4"×J33			J33	107	15.85
F191318	3/4"×J6	1"	25.4	J6	107	17.17
F191319	3/4"×J3			J3	112	20.599
F191320	3/4"×J4			J4	124	28.55
F191410	1"×B12			B12	100	12.065
F191411	1"×B16			B16	106	15.733
F191412	1"×B18			B18	114	17.78
F191413	1"×B22			B22	123	21.793
F191414	1"×B24			B24	133	23.825
F191415	1"×J2			J2	104	14.199
F191416	1"×J33			J33	107	15.85
F191417	1"×J6			J6	107	17.17
F191418	1"×J3			J3	112	20.599
F191419	1"×J4			J4	124	28.55

NMTB/JTA jacob's arbor



Order No.	Type	L	L1	d	L2
D301010	NMTB30-JTA1-1.59	4.933	1.59	0.384	0.656
D301011	NMTB30-JTA2-1.81	5.372	1.81	0.559	0.875
D301012	NMTB30-JTA3-2.19	6.097	2.19	0.811	1.22
D301013	NMTB30-JTA4-2.62	6.956	2.62	1.124	1.649
D301014	NMTB30-JTA6-1.97	5.657	1.97	0.676	1
D301015	NMTB30-JTA33-1.97	5.657	1.97	0.624	1
D301110	NMTB40-JTA2-1.88	6.442	1.88	0.559	0.875
D301111	NMTB40-JTA3-2.25	7.157	2.25	0.811	1.22
D301112	NMTB40-JTA4-2.69	8.026	2.69	1.124	1.649
D301113	NMTB40-JTA6-1.94	6.627	1.94	0.676	1
D301114	NMTB40-JTA33-1.94	6.627	1.94	0.624	1
D301210	NMTB50-JTA3-1.3	7.52	1.3	0.811	1.22

Tapping chuck series - Tapping collet

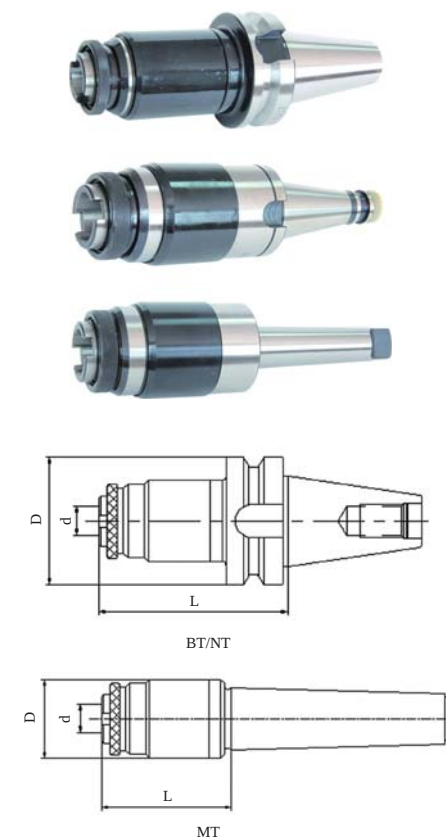


Specifications

□ ISO standard, JIS and DIN standard is optional.

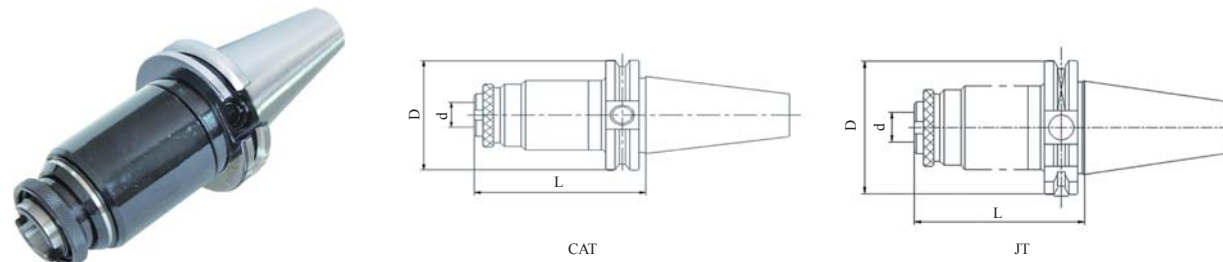
Order No.	Model	Type	D	D1	d	L	L1	W
D931010	G3	M3	36	19	3.15	55	17.5	2.5
D931011		M4			4			3.15
D931012		M5			5			4
D931013		M6-8			6.3			5
D931014		M10			8			6.3
D931015	G12	M12	58	30	9	82	30.5	7.1
D931110		M12			9			7.1
D931111		M14			11.2			9
D931112		M16			12.5			10
D931113		M18-20			14			11.2
D931114	G24	M22	84	45	16	118	40	12.5
D931115		M24			18			14
D931210		M24			18			14
D931211		M27-30			20			16
D931212		M33			22.4			18
D931213		M36			25			20
D931214		M39-42			28			22.4

Tapping chuck series - Tapping chuck



Order No.	Type	Tapping range	D	d	L	Collet
D921010	BT30-G3	M3-M12	46	19	87.6	G3
D921011	BT40-G3		63		92.6	
D921012	BT50-G3		100		97.2	
D921013	BT40-G12	M12-M24	63	30	134.6	G12
D921014	BT50-G12		100		142.2	
D921015	BT50-G24	M24-M42	100	45	174.2	G24
D921110	NT/NMTB30-G3	M3-M12	50	19	69.6	G3
D921111	NT/NMTB40-G3		63		82.6	
D921112	NT/NMTB50-G3		100		85.2	
D921113	NT/NMTB40-G12	M12-M24	63	30	124.6	G12
D921114	NT/NMTB50-G12		100		130.2	
D921115	NT/NMTB50-G24	M24-M42	100	45	162.2	G24
D921210	MTA/MTB2-G3	M3-M12	46	19	89	G3
D921211	MTA/MTB3-G3					
D921212	MTA/MTB4-G3					
D921213	MTA/MTB3-G12	M12-M24	66	30	120	G12
D921214	MTA/MTB4-G12					
D921215	MTA/MTB5-G12					
D921216	MTA/MTB5-G24	M24-M42	92	45	140	G24

■ Tapping chuck series - Tapping chuck



Order No.	Model No.	Tapping range	D	d	L	Collet
D921310	CAT40-G3	M3-M12 #6-10 1/4-1/2	63 2.48	19 0.74	92.6 3.64	G3
D921311	CAT50-G3	1/8NPT(LS※) 1/8NPT(SS※※)	100 3.93		97.2 3.82	
D921312	CAT40-G12	M12-M24 1/2-5/16	63 2.48	30 1.18	134.6 5.29	G12
D921313	CAT50-G12	1/8NPT(LS※) 1/4NPT 3/8NPT 1/2NPT	100 3.93		142.2 5.59	
D921314	CAT50-G24	M24-M42 5/16-1-3/4	100 3.93	45 1.77	174.2 6.85	G24
D921410	JT30-G3	M3-M12	46		87.6	
D921411	JT40-G3		63	19	92.6	G3
D921412	JT50-G3		100		97.2	
D921413	JT40-G12	M12-M24	63	30	134.6	G12
D921414	JT50-G12		100		142.2	
D921415	JT50-G24	M24-M42	100	45	174.2	G24

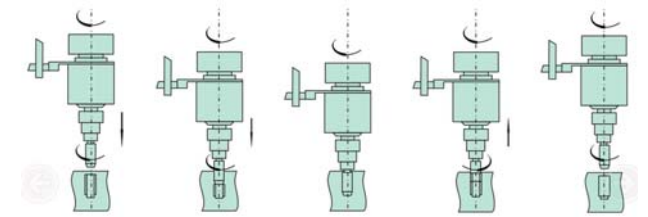
■ Tapping chuck series - Tapping chuck set



Order No.	Type	Tapping range	Collet
D941010	BT30×G3×7pcs	M3-M12	M3,M4, M5,M6, M8,M10,M12
D941011	BT40×G3×7pcs		
D941012	NT/NMTB30×G3×7pcs		
D941013	NT/NMTB40×G3×7pcs		
D941014	MTA/MTB3×G3×7pcs		
D941015	MTA/MTB3×G3×7pcs		
D941016	MTA/MTB4×G3×7pcs		

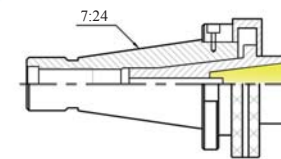
Order No.	Type	Tapping range	Collet
D941110	BT40×G12×7pcs	M12-M24	M12,M14, M16,M18, M20,M22,M24
D941111	BT50×G12×7pcs		
D941112	NT/NMTB40×G12×7pcs		
D941113	NT/NMTB50×G12×7pcs		
D941114	MTA/MTB3×G12×7pcs		
D941115	MTA/MTB4×G12×7pcs		
D941116	MTA/MTB5×G12×7pcs	M24-M42	M24,M27, M30,M33, M36,M39,M42
D941210	BT50×G24×7pcs		
D941211	NT/NMTB50×G24×7pcs		
D941212	MTA/MTB5×G24×7pcs		

■ Tapping chuck series - Reversing type tapping heads



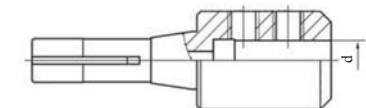
Order No.	Model	Capacity	Drill arbor	Rubberflex collet
D961010	JSN7	M2-M7	MS1 MS3	φ2.5-φ4.5 φ4.5-φ6.5
D961011	JSN12	M5-M12	MS3 MS4	φ2.5-φ7 φ7-φ10
D961012	JSN20	M8-M20	MS3 MS4	φ5.36-φ9 φ10.38-φ14 φ16(special orders)

■ Quick change milling chuck set



Order No.	Type	Accessories	Order No.	Type	Accessories
D951010	JXT16-40	1pcs NT quick-chage holder	D951011	JXT25-50	1pcs NT quick-chage holder
		1pcs milling chuck+8 milling collets (4,5,6,8,10,12,14,16mm)			1pcs milling chuck+9 milling collets (6,8,10,12,14,16,18,20,25mm)
		1pcs MT1 sleeve			1pcs MT1 sleeve
		1pcs MT2 sleeve			1pcs MT2 sleeve
		1pcs MT3 sleeve			1pcs MT3 sleeve
		1pcs B12 drill arbor with chuck			1pcs B16 drill arbor with chuck
		1pc mill arbor			1pc mill arbor
		1 spanner			1 spanner

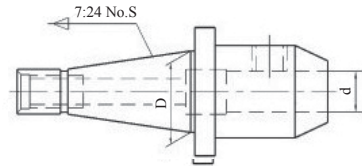
■ Mill arbor - R8 endmill holder



Model No.	d(mm)	Model No.	d(mm)
EMA-R8-4	4	EMA-R8-13	16
EMA-R8-5	5	EMA-R8-14	18
EMA-R8-6	6	EMA-R8-15	20
EMA-R8-7	7	EMA-R8-16	22
EMA-R8-8	8	EMA-R8-17	25
EMA-R8-9	9	EMA-R8-18	27
EMA-R8-10	10	EMA-R8-19	32
EMA-R8-11	12	EMA-R8-20	40
EMA-R8-12	14		

Model No.	d(in)	Model No.	d(in)
EMA-R8-101	3/16	EMA-R8-110	3/4
EMA-R8-102	1/4	EMA-R8-111	7/8
EMA-R8-103	5/16	EMA-R8-112	1
EMA-R8-104	3/8	EMA-R8-113	1-1/8
EMA-R8-105	7/16	EMA-R8-114	1-1/4
EMA-R8-106	1/2	EMA-R8-115	1-1/2
EMA-R8-107	9/16	EMA-R8-116	2
EMA-R8-108	5/8	EMA-R8-117	2-1/2
EMA-R8-109	11/16		

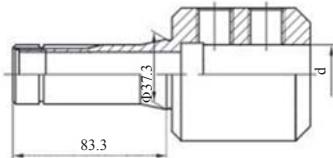
■ Mill arbor - NT emd mill holder



D(mm)	NT30	NT40	NT50	D(mm)	NT30	NT40	NT50
4	EMA-NT30-5	EMA-NT40-5	EMA-NT50-5	20	EMA-NT30-20	EMA-NT40-20	EMA-NT50-20
6	EMA-NT30-6	EMA-NT40-6	EMA-NT50-6	22	EMA-NT30-22	EMA-NT40-22	EMA-NT50-22
8	EMA-NT30-8	EMA-NT40-8	EMA-NT50-8	25	EMA-NT30-25	EMA-NT40-25	EMA-NT50-25
10	EMA-NT30-10	EMA-NT40-10	EMA-NT50-10	32	EMA-NT30-32	EMA-NT40-32	EMA-NT50-32
12	EMA-NT30-12	EMA-NT40-12	EMA-NT50-12	40	EMA-NT30-40	EMA-NT40-40	EMA-NT50-40
14	EMA-NT30-14	EMA-NT40-14	EMA-NT50-14	50	EMA-NT30-50	EMA-NT40-50	EMA-NT50-50
16	EMA-NT30-16	EMA-NT40-16	EMA-NT50-16	63	EMA-NT30-63	EMA-NT40-63	EMA-NT50-63
18	EMA-NT30-18	EMA-NT40-18	EMA-NT50-18				

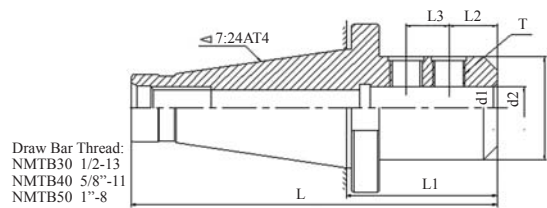
D(in)	NT30	NT40	NT50	D(in)	NT30	NT40	NT50
3/16	EMA-NT30-101	EMA-NT40-101	EMA-NT50-101	7/8	EMA-NT30-108	EMA-NT40-108	EMA-NT50-108
1/4	EMA-NT30-102	EMA-NT40-102	EMA-NT50-102	1	EMA-NT30-109	EMA-NT40-109	EMA-NT50-109
5/16	EMA-NT30-103	EMA-NT40-103	EMA-NT50-103	1-1/4	EMA-NT30-110	EMA-NT40-110	EMA-NT50-110
3/8	EMA-NT30-104	EMA-NT40-104	EMA-NT50-104	1-1/2	EMA-NT30-111	EMA-NT40-111	EMA-NT50-111
1/2	EMA-NT30-105	EMA-NT40-105	EMA-NT50-105	2	EMA-NT30-112	EMA-NT40-112	EMA-NT50-112
5/8	EMA-NT30-106	EMA-NT40-106	EMA-NT50-106	2-1/2	EMA-NT30-113	EMA-NT40-113	EMA-NT50-113
3/4	EMA-NT30-107	EMA-NT40-107	EMA-NT50-107				

■ Mill arbor - 5C endmill holder



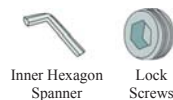
Model No.	d(mm)	Model No.	d(in)
EMA-5C-32	32	EMA-5C-101	1-1/4
EMA-5C-40	40	EMA-5C-102	1-1/2
EMA-5C-50	50	EMA-5C-103	2

■ Mill arbor - NMTB / SLN sidelock end mill holder



Draw Bar Thread:
NMTB30 1/2-13
NMTB40 5/8"-11
NMTB50 1"-8

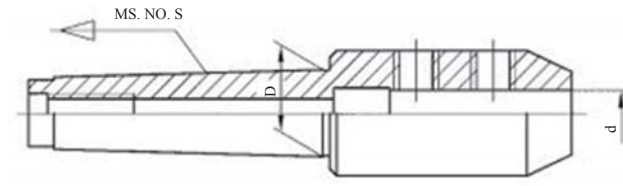
Optiona



Order No.	Type	L	L1	L2	L3	d1	T
D311010	NMTB30-SLN3/16-0.69	4.437	1.75	0.44	-	0.1875	3/16-24
D311011	NMTB30-SLN1/4-0.69	5.187	2.5	0.56	-	0.25	1/4-20
D311012	NMTB30-SLN5/16-1.00	5.187	2.5	0.75	-	0.3125	5/16-18
D311013	NMTB30-SLN3/8-1.00	4.437	1.75	0.75	-	0.375	3/8-16
D311014	NMTB30-SLN1/2-1.38	5.107	2.42	0.88	-	0.5	7/16-14
D311015	NMTB30-SLN5/8-1.81	5.107	2.42	0.94	-	0.625	1/2-13
D311016	NMTB30-SLN3/4-1.75	4.807	2.12	1	-	0.75	5/8-11
D311017	NMTB30-SLN7/8-2.00	5.187	2.5	1	-	0.875	5/8-11
D311018	NMTB30-SLN1-2.25	5.377	2.69	1.12	-	1	3/4-10
D311110	NMTB40-SLN3/16-0.69	5.997	2.31	0.44	-	0.1875	3/16-24
D311111	NMTB40-SLN1/4-0.69	6.187	2.5	0.56	-	0.25	1/4-20
D311112	NMTB40-SLN5/16-1.00	6.187	2.5	0.75	-	0.3125	5/16-18
D311113	NMTB40-SLN3/8-1.00	5.997	2.31	0.75	-	0.375	3/8-16
D311114	NMTB40-SLN1/2-1.38	5.997	2.31	0.88	-	0.5	7/16-14
D311115	NMTB40-SLN5/8-1.62	5.997	2.31	0.94	-	0.625	1/2-13
D311116	NMTB40-SLN3/4-1.88	5.997	2.31	1	-	0.75	5/8-11

Order No.	Type	L	L1	L2	L3	d1	T
D311117	NMTB40-SLN7/8-2.00	6.377	2.69	1	-	0.875	5/8-11
D311118	NMTB40-SLN1-2.00	6.377	2.69	1	-	1	3/4-10
D311119	NMTB40-SLN11/4-2.38	6.377	2.69	1.25	-	1.25	3/4-10
D311120	NMTB40-SLN11/2-2.95	7.637	3.95	1.12	1	1.5	3/4-10
D311210	NMTB50-SLN1/4-0.69	7.5	2.5	0.56	-	0.25	1/4-20
D311211	NMTB50-SLN5/16-1.00	7.5	2.5	0.75	-	0.3125	5/16-18
D311212	NMTB50-SLN3/8-1.00	7.75	2.75	0.75	-	0.375	3/8-16
D311213	NMTB50-SLN1/2-1.38	7.75	2.75	0.88	-	0.5	7/16-14
D311214	NMTB50-SLN5/8-1.62	7.75	2.75	0.94	-	0.625	1/2-13
D311215	NMTB50-SLN3/4-1.75	7.75	2.75	1	-	0.75	5/8-11
D311216	NMTB50-SLN7/8-2.00	8.12	3.12	1	0.81	0.875	5/8-11
D311217	NMTB50-SLN1-2.38	8.5	3.5	1.12	1	1	3/4-10
D311218	NMTB50-SLN1-1/4-2.62	8.5	3.5	1.12	1	1.25	3/4-10
D311219	NMTB50-SLN1-1/2-2.88	9	4	1.5	1	1.5	3/4-10
D311220	NMTB50-SLN2-3.75	9.5	4.5	1.38	1.12	2	1-14x7/8
D311221	NMTB50-SLN21/2-4.50	10	5	1.56	1.69	2.5	1-14x7/8

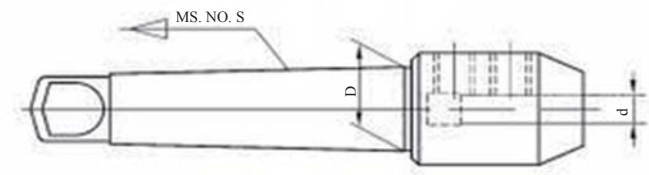
■ Mill arbor - Morse taper end mill holder with draw bar



D(mm)	MS1	MS2	MS3	MS4	MS5	MS6
4	EMA-MT1-01A	EMA-MT2-01A	EMA-MT3-01A	EMA-MT4-01A	EMA-MT5-01A	EMA-MT6-01A
6	EMA-MT1-02A	EMA-MT2-02A	EMA-MT3-02A	EMA-MT4-02A	EMA-MT5-02A	EMA-MT6-02A
8	EMA-MT1-03A	EMA-MT2-03A	EMA-MT3-03A	EMA-MT4-03A	EMA-MT5-03A	EMA-MT6-03A
10	EMA-MT1-04A	EMA-MT2-04A	EMA-MT3-04A	EMA-MT4-04A	EMA-MT5-04A	EMA-MT6-04A
12	EMA-MT1-05A	EMA-MT2-05A	EMA-MT3-05A	EMA-MT4-05A	EMA-MT5-05A	EMA-MT6-05A
14	EMA-MT1-06A	EMA-MT2-06A	EMA-MT3-06A	EMA-MT4-06A	EMA-MT5-06A	EMA-MT6-06A
16	EMA-MT1-07A	EMA-MT2-07A	EMA-MT3-07A	EMA-MT4-07A	EMA-MT5-07A	EMA-MT6-07A
18	EMA-MT1-08A	EMA-MT2-08A	EMA-MT3-08A	EMA-MT4-08A	EMA-MT5-08A	EMA-MT6-08A
20	EMA-MT1-09A	EMA-MT2-09A	EMA-MT3-09A	EMA-MT4-09A	EMA-MT5-09A	EMA-MT6-09A
22	EMA-MT1-10A	EMA-MT2-10A	EMA-MT3-10A	EMA-MT4-10A	EMA-MT5-10A	EMA-MT6-10A
25	EMA-MT1-11A	EMA-MT2-11A	EMA-MT3-11A	EMA-MT4-11A	EMA-MT5-11A	EMA-MT6-11A
32	EMA-MT1-12A	EMA-MT2-12A	EMA-MT3-12A	EMA-MT4-12A	EMA-MT5-12A	EMA-MT6-12A
40	EMA-MT1-13A	EMA-MT2-13A	EMA-MT3-13A	EMA-MT4-13A	EMA-MT5-13A	EMA-MT6-13A
50	EMA-MT1-14A	EMA-MT2-14A	EMA-MT3-14A	EMA-MT4-14A	EMA-MT5-14A	EMA-MT6-14A
63	EMA-MT1-15A	EMA-MT2-15A	EMA-MT3-15A	EMA-MT4-15A	EMA-MT5-15A	EMA-MT6-15A

D(in)	MS1	MS2	MS3	MS4	MS5	MS6
3/16	EMA-MT1-16A	EMA-MT2-16A	EMA-MT3-16A	EMA-MT4-16A	EMA-MT5-16A	EMA-MT6-16A
1/4	EMA-MT1-17A	EMA-MT2-17A	EMA-MT3-17A	EMA-MT4-17A	EMA-MT5-17A	EMA-MT6-17A
5/16	EMA-MT1-18A	EMA-MT2-18A	EMA-MT3-18A	EMA-MT4-18A	EMA-MT5-18A	EMA-MT6-18A
3/8	EMA-MT1-19A	EMA-MT2-19A	EMA-MT3-19A	EMA-MT4-19A	EMA-MT5-19A	EMA-MT6-19A
1/2	EMA-MT1-20A	EMA-MT2-20A	EMA-MT3-20A	EMA-MT4-20A	EMA-MT5-20A	EMA-MT6-20A
5/8	EMA-MT1-21A	EMA-MT2-21A	EMA-MT3-21A	EMA-MT4-21A	EMA-MT5-21A	EMA-MT6-21A
3/4	EMA-MT1-22A	EMA-MT2-22A	EMA-MT3-22A	EMA-MT4-22A	EMA-MT5-22A	EMA-MT6-22A
7/8	EMA-MT1-23A	EMA-MT2-23A	EMA-MT3-23A	EMA-MT4-23A	EMA-MT5-23A	EMA-MT6-23A
1	EMA-MT1-24A	EMA-MT2-24A	EMA-MT3-24A	EMA-MT4-24A	EMA-MT5-24A	EMA-MT6-24A
1-1/4	EMA-MT1-25A	EMA-MT2-25A	EMA-MT3-25A	EMA-MT4-25A	EMA-MT5-25A	EMA-MT6-25A
1-1/2	EMA-MT1-26A	EMA-MT2-26A	EMA-MT3-26A	EMA-MT4-26A	EMA-MT5-26A	EMA-MT6-26A
2	EMA-MT1-27A	EMA-MT2-27A	EMA-MT3-27A	EMA-MT4-27A	EMA-MT5-27A	EMA-MT6-27A
2-1/2	EMA-MT1-28A	EMA-MT2-28A	EMA-MT3-28A	EMA-MT4-28A	EMA-MT5-28A	EMA-MT6-28A

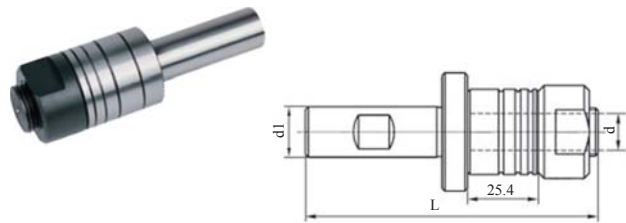
■ Mill arbor - Morse taper end mill holder with tang



D(mm)	MS1	MS2	MS3	MS4	MS5	MS6
4	EMA-MT1-01B	EMA-MT2-01B	EMA-MT3-01B	EMA-MT4-01B	EMA-MT5-01B	EMA-MT6-01B
6	EMA-MT1-02B	EMA-MT2-02B	EMA-MT3-02B	EMA-MT4-02B	EMA-MT5-02B	EMA-MT6-02B
8	EMA-MT1-03B	EMA-MT2-03B	EMA-MT3-03B	EMA-MT4-03B	EMA-MT5-03B	EMA-MT6-03B
10	EMA-MT1-04B	EMA-MT2-04B	EMA-MT3-04B	EMA-MT4-04B	EMA-MT5-04B	EMA-MT6-04B
12	EMA-MT1-05B	EMA-MT2-05B	EMA-MT3-05B	EMA-MT4-05B	EMA-MT5-05B	EMA-MT6-05B
14	EMA-MT1-06B	EMA-MT2-06B	EMA-MT3-06B	EMA-MT4-06B	EMA-MT5-06B	EMA-MT6-06B
16	EMA-MT1-07B	EMA-MT2-07B	EMA-MT3-07B	EMA-MT4-07B	EMA-MT5-07B	EMA-MT6-07B
18	EMA-MT1-08B	EMA-MT2-08B	EMA-MT3-08B	EMA-MT4-08B	EMA-MT5-08B	EMA-MT6-08B
20	EMA-MT1-09B	EMA-MT2-09B	EMA-MT3-09B	EMA-MT4-09B	EMA-MT5-09B	EMA-MT6-09B
22	EMA-MT1-10B	EMA-MT2-10B	EMA-MT3-10B	EMA-MT4-10B	EMA-MT5-10B	EMA-MT6-10B
25	EMA-MT1-11B	EMA-MT2-11B	EMA-MT3-11B	EMA-MT4-11B	EMA-MT5-11B	EMA-MT6-11B
32	EMA-MT1-12B	EMA-MT2-12B	EMA-MT3-12B	EMA-MT4-12B	EMA-MT5-12B	EMA-MT6-12B
40	EMA-MT1-13B	EMA-MT2-13B	EMA-MT3-13B	EMA-MT4-13B	EMA-MT5-13B	EMA-MT6-13B
50	EMA-MT1-14B	EMA-MT2-14B	EMA-MT3-14B	EMA-MT4-14B	EMA-MT5-14B	EMA-MT6-14B
63	EMA-MT1-15B	EMA-MT2-15B	EMA-MT3-15B	EMA-MT4-15B	EMA-MT5-15B	EMA-MT6-15B

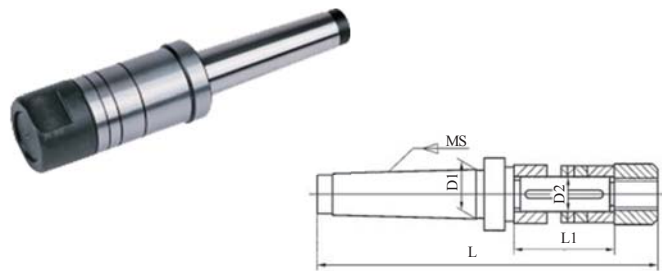
D(in)	MS1	MS2	MS3	MS4	MS5	MS6
3/16	EMA-MT1-16B	EMA-MT2-16B	EMA-MT3-16B	EMA-MT4-16B	EMA-MT5-16B	EMA-MT6-16B
1/4	EMA-MT1-17B	EMA-MT2-17B	EMA-MT3-17B	EMA-MT4-17B	EMA-MT5-17B	EMA-MT6-17B
5/16	EMA-MT1-18B	EMA-MT2-18B	EMA-MT3-18B	EMA-MT4-18B	EMA-MT5-18B	EMA-MT6-18B
3/8	EMA-MT1-19B	EMA-MT2-19B	EMA-MT3-19B	EMA-MT4-19B	EMA-MT5-19B	EMA-MT6-19B
1/2	EMA-MT1-20B	EMA-MT2-20B	EMA-MT3-20B	EMA-MT4-20B	EMA-MT5-20B	EMA-MT6-20B
5/8	EMA-MT1-21B	EMA-MT2-21B	EMA-MT3-21B	EMA-MT4-21B	EMA-MT5-21B	EMA-MT6-21B
3/4	EMA-MT1-22B	EMA-MT2-22B	EMA-MT3-22B	EMA-MT4-22B	EMA-MT5-22B	EMA-MT6-22B
7/8	EMA-MT1-23B	EMA-MT2-23B	EMA-MT3-23B	EMA-MT4-23B	EMA-MT5-23B	EMA-MT6-23B
1	EMA-MT1-24B	EMA-MT2-24B	EMA-MT3-24B	EMA-MT4-24B	EMA-MT5-24B	EMA-MT6-24B
1-1/4	EMA-MT1-25B	EMA-MT2-25B	EMA-MT3-25B	EMA-MT4-25B	EMA-MT5-25B	EMA-MT6-25B
1-1/2	EMA-MT1-26B	EMA-MT2-26B	EMA-MT3-26B	EMA-MT4-26B	EMA-MT5-26B	EMA-MT6-26B
2	EMA-MT1-27B	EMA-MT2-27B	EMA-MT3-27B	EMA-MT4-27B	EMA-MT5-27B	EMA-MT6-27B
2-1/2	EMA-MT1-28B	EMA-MT2-28B	EMA-MT3-28B	EMA-MT4-28B	EMA-MT5-28B	EMA-MT6-28B

■ Mill arbor - Straight shank milling machine arbors



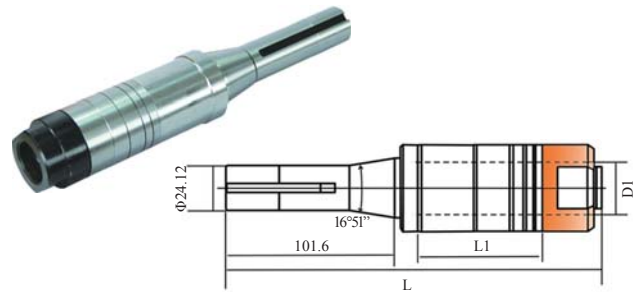
Model No.	d1	d	Model No.	d1	d
D561030	1/2"	1/2"	D561036	3/4"	1/2"
D561031		5/8"	D561037		5/8"
D561032		3/4"	D561038		3/4"
D561033		7/8"	D561039		7/8"
D561034		1"	D561040		1"
D561035		1-1/4"	D561041		1-1/4"

■ Mill arbor - Morse taper stub milling machine arbors



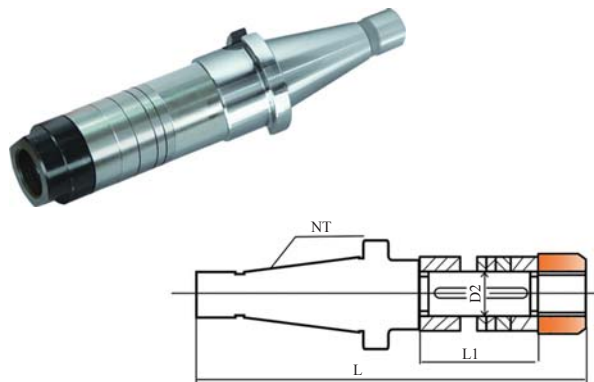
Model No.	Shank	D1	D2	Model No.	Shank	D1	D2
D561020	MS2	17.78	22	D561028	MS3	23.825	27
D561021			12.7	D561029			31.75
D561022			15.875	D561030			32
D561023	MS3	23.825	25.4	D561031	MS4	31.267	13
D561024			13	D561032			16
D561025			16	D561033			22
D561026			22	D561034			27
D561027			25.4	D561035			32

■ Mill arbor - R8 stub milling machine arbors



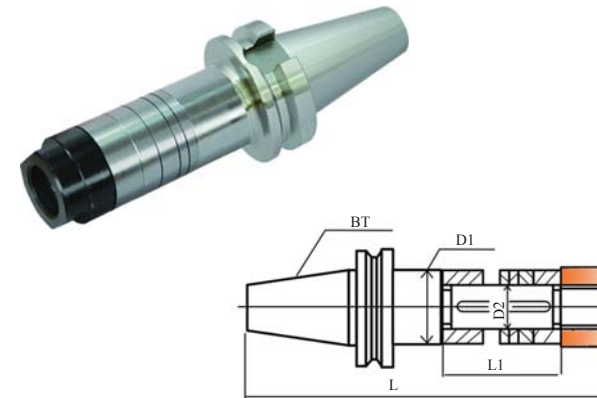
Model No.	Type	D1(mm)	L1(mm)	L(mm)
D551010	R8-13	13	63	199
D551011	R8-16	16	63	201
D551012	R8-22	22	63	206
D551013	R8-1"	25.4	50.8	193
D551014	R8-27	27	63	211
D551015	R8-1-1/4"	31.75	50.8	196
D551016	R8-32	32	63	215

■ Mill arbor - NT milling machine arbor



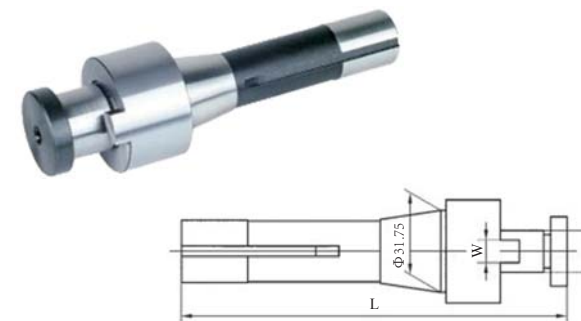
Order No.	Type	Shank	D2(mm)	L(mm)
D571010	NT30-13	NT30	13	199
D571011	NT30-16		16	201
D571012	NT30-22		22	206
D571013	NT30-1"		25.4	174
D571014	NT30-27		27	211
D571015	NT30-1-1/4"	NT40	31.75	177
D571016	NT30-32		32	215
D571110	NT40-13		13	227
D571111	NT40-16		16	229
D571112	NT40-22		22	234
D571113	NT40-27		27	239
D571114	NT40-32		32	243

■ Mill arbor - BT milling machine arbor



Order No.	Type	Shank	D2(mm)	L(mm)
D581010	BT30-13	BT30	13	179
D581011	BT30-16		16	181
D581012	BT30-22		22	186
D581013	BT30-1"		25.4	154
D581014	BT30-27		27	191
D581015	BT30-1-1/4"	BT40	31.75	157
D581016	BT30-32		32	195
D581110	BT40-13		13	200
D581111	BT40-16		16	202
D581112	BT40-22		22	207
D581113	BT40-27		27	212
D581114	BT40-32		32	216

■ Mill arbor - R8 shell end mill arbor



Model No.	d	W	L	Model No.	d	W	L
EMAS-R8-01	16mm	8	148	EMAS-R8-06	1/2"	6.35	150
EMAS-R8-02	22mm	10	155	EMAS-R8-07	3/4"	7.94	154
EMAS-R8-03	27mm	12	160	EMAS-R8-08	7/8"	8.7	155
EMAS-R8-04	32mm	14	166	EMAS-R8-09	1"	9.53	155
EMAS-R8-05	40mm	16	170	EMAS-R8-10	1-1/4"	12.7	156
				EMAS-R8-11	1-1/2"	15.88	163

■ Mill arbor - Straight shank shell end mill arbor



Order No.	D	d	Order No.	D	d	Order No.	D	d	Order No.	D	d	Order No.	D	d	Order No.	D	d
EMAS-C-01	12	13	EMAS-C-11	20	27	EMAS-C-21	32	13	EMAS-C-31	40	27	EMAS-C-41	50	60	EMAS-C-51	1/2"	1"
EMAS-C-02	12	16	EMAS-C-12	20	32	EMAS-C-22	32	16	EMAS-C-32	40	32	EMAS-C-42	63	27	EMAS-C-52	1/2"	1-1/4"
EMAS-C-03	12	22	EMAS-C-13	20	40	EMAS-C-23	32	22	EMAS-C-33	40	40	EMAS-C-43	63	32	EMAS-C-53	1/2"	1-1/2"
EMAS-C-04	16	13	EMAS-C-14	25	13	EMAS-C-24	32	27	EMAS-C-34	40	50	EMAS-C-44	63	40	EMAS-C-54	3/4"	1/2"
EMAS-C-05	16	16	EMAS-C-15	25	16	EMAS-C-25	32	32	EMAS-C-35	40	60	EMAS-C-45	63	50	EMAS-C-55	3/4"	5/8"
EMAS-C-06	16	22	EMAS-C-16	25	22	EMAS-C-26	32	40	EMAS-C-36	50	22	EMAS-C-46	63	60	EMAS-C-56	3/4"	3/4"
EMAS-C-07	16	27	EMAS-C-17	25	27	EMAS-C-27	32	50	EMAS-C-37	50	27	EMAS-C-47	1/2"	1/2"	EMAS-C-57	3/4"	7/8"
EMAS-C-08	20	13	EMAS-C-18	25	32	EMAS-C-28	32	60	EMAS-C-38	50	32	EMAS-C-48	1/2"	5/8"	EMAS-C-58	3/4"	1"
EMAS-C-09	20	16	EMAS-C-19	25	40	EMAS-C-29	40	16	EMAS-C-39	50	40	EMAS-C-49	1/2"	3/4"	EMAS-C-59	3/4"	1-1/4"
EMAS-C-10	20	22	EMAS-C-20	25	50	EMAS-C-30	40	22	EMAS-C-40	50	50	EMAS-C-50	1/2"	7/8"	EMAS-C-60	3/4"	1-1/2"

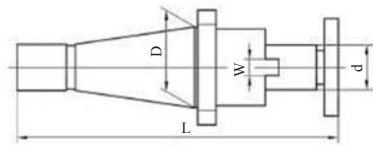
■ Mill arbor - Morse taper shell end mill arbors (draw bar type & tang type)



Order No.	D	d(mm)	Order No.	D	d(in)
EMAS-MS2-01	17.78	13	EMAS-MS2-25	17.78	1/2"
EMAS-MS2-02		16	EMAS-MS2-26		5/8"
EMAS-MS2-03		22	EMAS-MS2-27		3/4"
EMAS-MS2-04	23.825	27	EMAS-MS2-28	23.825	7/8"
EMAS-MS3-05		13	EMAS-MS3-29		1/2"
EMAS-MS3-06		16	EMAS-MS3-30		5/8"
EMAS-MS3-07		22	EMAS-MS3-31		3/4"
EMAS-MS3-08		27	EMAS-MS3-32		7/8"
EMAS-MS3-09		32	EMAS-MS3-33		1"
EMAS-MS3-10		40	EMAS-MS3-34		1-1/4"

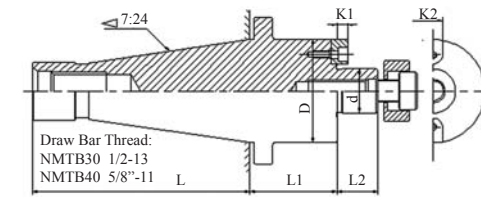
Order No.	D	d	Order No.	D	d
EMAS-MS4-11	31.267	13	EMAS-MS4-35	31.267	1/2"
EMAS-MS4-12		16	EMAS-MS4-36		5/8"
EMAS-MS4-13		22	EMAS-MS4-37		3/4"
EMAS-MS4-14		27	EMAS-MS4-38		7/8"
EMAS-MS4-15		32	EMAS-MS4-39		1"
EMAS-MS4-16	44.399	40	EMAS-MS4-40	44.399	1-1/4"
EMAS-MS4-17		50	EMAS-MS4-41		1-1/2"
EMAS-MS5-18		16	EMAS-MS5-42		1/2"
EMAS-MS5-19		22	EMAS-MS5-43		5/8"
EMAS-MS5-20		27	EMAS-MS5-44		3/4"
EMAS-MS5-21		32	EMAS-MS5-45		7/8"
EMAS-MS5-22		40	EMAS-MS5-46		1"
EMAS-MS5-23		50	EMAS-MS5-47		1-1/4"
EMAS-MS5-24		60	EMAS-MS5-48		1-1/2"
			EMAS-MS5-49		2"

■ Mill arbor - NT Shell end mill arbors



Model No.		D	d	w	L	d	w	L
EMAS-NT30-01	NT30	31.75	13	8	121	1/2	6.35	139.5
EMAS-NT30-02			16	8	126	5/8	7.14	140.5
EMAS-NT30-03			22	10	129	3/4	7.94	144
EMAS-NT30-04			27	12	134	7/8	8.7	145
EMAS-NT30-05			32	14	141	1	9.53	145
EMAS-NT30-06			40	16	150	1-1/4	12.7	146
EMAS-NT30-07	NT40	44.45	50	18	155	1-1/2	15.88	153
EMAS-NT30-08						2	19.05	180
EMAS-NT40-09			16	8	153	1/2	6.35	164.5
EMAS-NT40-10			22	10	156	5/8	7.14	165.5
EMAS-NT40-11			27	12	129	3/4	7.94	169
EMAS-NT40-12			32	14	178	7/8	8.7	170
EMAS-NT40-13	NT50	69.85	40	16	182	1	9.53	170
EMAS-NT40-14			50	18	187	1-1/4	12.7	171
EMAS-NT40-15			60	20	209	1-1/2	15.88	178
EMAS-NT40-16						2	19.05	205
EMAS-NT50-17			16	8	205	1/2	6.35	198
EMAS-NT50-18			22	10	208	5/8	7.14	199
EMAS-NT50-19	NT50	69.85	27	12	211	3/4	7.94	202
EMAS-NT50-20			32	14	215	7/8	8.7	203
EMAS-NT50-21			40	16	219	1	9.53	203
EMAS-NT50-22			50	18	224	1-1/4	12.7	204
EMAS-NT50-23			60	20	246	1-1/2	15.88	211.5
EMAS-NT50-24						2	19.05	238.5

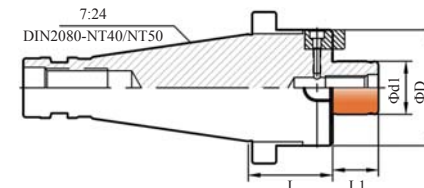
■ Mill arbor - NMTB/FMA face mill arbor



Optiona
Inner Hexagon Spanner

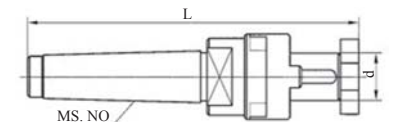
Model No.	Type	L	L1	L2	d	D	K1	K2
D281010	NMTB30-FMA3/4-1.31	2.687	1.31	0.688	0.75	1.75	0.178	0.312
D281011	NMTB30-FMA1-1.31	2.687	1.31	0.787	1	2	0.178	0.375
D281012	NMTB30-FMA11/4-1.44	2.687	1.44	0.866	1.25	2.56	0.263	0.5
D281110	NMTB40-FMA3/4-1.48	3.687	1.48	0.688	0.75	1.75	0.178	0.312
D281111	NMTB40-FMA1-1.5	3.687	1.5	0.787	1	2	0.178	0.375
D281112	NMTB40-FMA11/4-1.79	3.687	1.79	0.866	1.25	2.56	0.263	0.5
D281113	NMTB40-FMA11/2-1.73	3.687	1.73	1	1.5	3.15	0.35	0.625

■ Mill arbor - NMTB/FMA face mill arbor



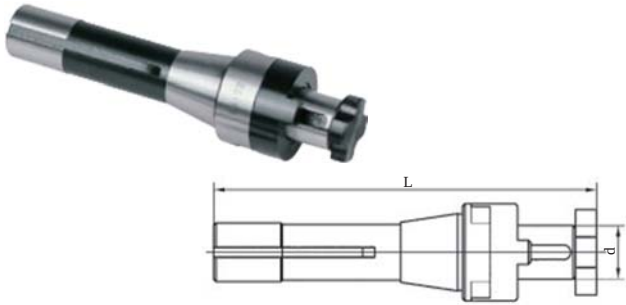
Model No.	Type	Φd1	ΦD	L1	L
D451010	NT40-FMB16-35	16	38	17	35
D451011	NT40-FMB22-35	22	48	19	35
D451012	NT40-FMB27-35	27	58	21	35
D451013	NT40-FMB32-50	32	78	24	50
D451014	NT40-FMB40-60	40	80	27	60
D451110	NT50-FMB16-45	16	38	17	45
D451111	NT50-FMB16-100	16	38	17	100
D451112	NT50-FMB22-45	22	48	19	45
D451113	NT50-FMB22-100	22	48	19	100
D451114	NT50-FMB27-45	27	58	21	45
D451115	NT50-FMB27-100	27	58	21	100
D451116	NT50-FMB32-45	32	78	24	45
D451117	NT50-FMB32-100	32	78	24	100
D451118	NT50-FMB40-60	40	80	27	60
D451119	NT50-FMB40-100	40	80	27	100

■ Mill arbor - Morse taper combi shell end mill arbors



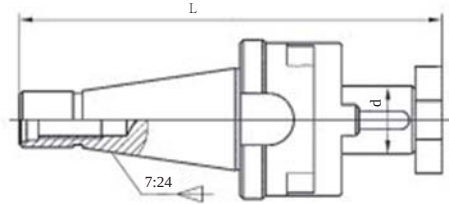
Model No.	shank	d	Model No.	shank	d
EMAC-MS2-01	MS2	13	EMAC-MS3-20	MS3	1/2"
EMAC-MS2-02		16	EMAC-MS3-21		5/8"
EMAC-MS2-03		22	EMAC-MS3-22		3/4"
EMAC-MS2-04		27	EMAC-MS3-23		7/8"
EMAC-MS3-05	MS3	13	EMAC-MS3-24	MS4	1"
EMAC-MS3-06		16	EMAC-MS3-25		1-1/4"
EMAC-MS3-07		22	EMAC-MS4-26		1/2"
EMAC-MS3-08	MS4	27	EMAC-MS4-27	MS5	5/8"
EMAC-MS3-09		32	EMAC-MS4-28		3/4"
EMAC-MS4-10		16	EMAC-MS4-29		7/8"
EMAC-MS4-11		22	EMAC-MS4-30		1"
EMAC-MS4-12	MS5	27	EMAC-MS4-31	MS5	1-1/4"
EMAC-MS4-13		32	EMAC-MS4-32		1-1/2"
EMAC-MS4-14		40	EMAC-MS4-33		2"
EMAC-MS5-15	MS5	22	EMAC-MS5-34	MS5	5/8"
EMAC-MS5-16		27	EMAC-MS5-35		3/4"
EMAC-MS5-17		32	EMAC-MS5-36		7/8"
EMAC-MS5-18		40	EMAC-MS5-37		1"
EMAC-MS5-19		50	EMAC-MS5-38		1-1/4"
			EMAC-MS5-39		1-1/2"
			EMAC-MS5-40		2"

■ Mill arbor - R8 combi shell end mill arbors



Model No.	d	Model No.	d
EMAC-R8-01	13	EMAC-R8-07	1/2"
EMAC-R8-02	16	EMAC-R8-08	5/8"
EMAC-R8-03	22	EMAC-R8-09	3/4"
EMAC-R8-04	27	EMAC-R8-10	1"
EMAC-R8-05	32	EMAC-R8-11	1-1/4"
EMAC-R8-06	40	EMAC-R8-12	1-1/2"

■ Mill arbor - NT combi shell end mill arbors



d	ISO30	ISO40	ISO50
13	EMAC-NT30-001	EMAC-NT40-001	EMAC-NT50-001
16	EMAC-NT30-002	EMAC-NT40-002	EMAC-NT50-002
22	EMAC-NT30-003	EMAC-NT40-003	EMAC-NT50-003
27	EMAC-NT30-004	EMAC-NT40-004	EMAC-NT50-004
32	EMAC-NT30-005	EMAC-NT40-005	EMAC-NT50-005
40	EMAC-NT30-006	EMAC-NT40-006	EMAC-NT50-006
50	EMAC-NT30-007	EMAC-NT40-007	EMAC-NT50-007

d	ISO30	ISO40	ISO50
1/2"	EMAC-NT30-008	EMAC-NT40-008	EMAC-NT50-008
5/8"	EMAC-NT30-009	EMAC-NT40-009	EMAC-NT50-009
3/4"	EMAC-NT30-010	EMAC-NT40-010	EMAC-NT50-010
7/8"	EMAC-NT30-011	EMAC-NT40-011	EMAC-NT50-011
1"	EMAC-NT30-012	EMAC-NT40-012	EMAC-NT50-012
1-1/4"	EMAC-NT30-013	EMAC-NT40-013	EMAC-NT50-013
1-1/2"	EMAC-NT30-014	EMAC-NT40-014	EMAC-NT50-014
2"	EMAC-NT30-015	EMAC-NT40-015	EMAC-NT50-015

■ Mill arbor - Accessories for comb shell end mill arbors



Screws

arbor Dia	thread	Model No.
13	M6	EMAC-AS01
16	M8	EMAC-AS02
22	M10	EMAC-AS03
27	M12	EMAC-AS04
32	M16	EMAC-AS05
40	M20	EMAC-AS06
50	M24	EMAC-AS07
60	M30	EMAC-AS08
1/2"	1/4-28	EMAC-AS09
3/4"	3/8-24	EMAC-AS10
1"	1/2-20	EMAC-AS11
1-1/4"	5/8-18	EMAC-AS12
1-1/2"	3/4-16	EMAC-AS13
2"	1-14	EMAC-AS14

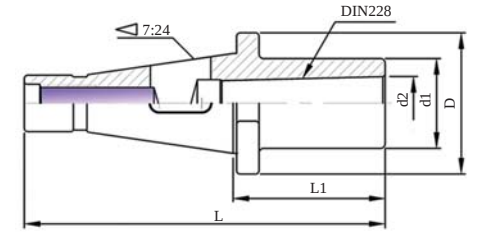
Spanners

arbor Dia	Model No.
13	EMAC-AP01
16	EMAC-AP02
22	EMAC-AP03
27	EMAC-AP04
32	EMAC-AP05
40	EMAC-AP06
50	EMAC-AP07
60	EMAC-AP08
1/2"	EMAC-AP09
3/4"	EMAC-AP10
1"	EMAC-AP11
1-1/4"	EMAC-AP12
1-1/2"	EMAC-AP13
2"	EMAC-AP14

Driver rings

arbor Dia	Model No.
13	EMAC-AD01
16	EMAC-AD02
22	EMAC-AD03
27	EMAC-AD04
32	EMAC-AD05
40	EMAC-AD06
50	EMAC-AD07
60	EMAC-AD08
1/2"	EMAC-AD09
3/4"	EMAC-AD10
1"	EMAC-AD11
1-1/4"	EMAC-AD12
1-1/2"	EMAC-AD13
2"	EMAC-AD14

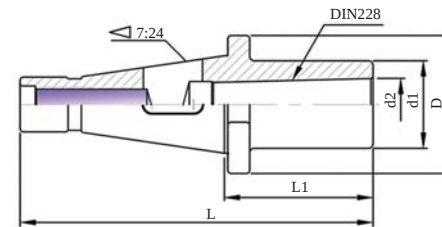
■ Adapter & sleeve - NT/MTA morse taper adapter (with tang)



Order No.	Type	MT. No.	d1(mm)	D(mm)	d2(mm)	L(mm)
D431010	NT30-MTA1-45	MT1	24	50	12.065	113.4
D431011	NT30-MTA2-60	MT2	30	50	17.78	128.4
D431012	NT30-MTA3-75	MT3	36	50	23.825	143.4
D431013	NT30-MTA4-95	MT4	48	50	31.267	163.4
D431110	NT40-MTA1-45	MT1	24	63	12.065	138.4
D431111	NT40-MTA2-60	MT2	30	63	17.78	153.4
D431112	NT40-MTA3-75	MT3	36	63	23.825	168.4

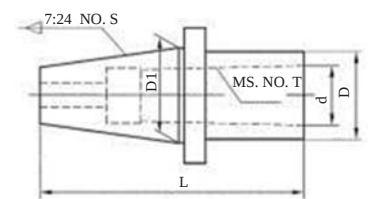
Order No.	Type	MT. No.	d1(mm)	D(mm)	d2(mm)	L(mm)
D431113	NT40-MTA4-95	MT4	48	63	31.267	188.4
D431114	NT40-MTA5-105	MT5	61	63	44.399	198.4
D431210	NT50-MTA1-45	MT1	25	97.5	12.065	171.8
D431211	NT50-MTA2-60	MT2	32	97.5	17.78	186.8
D431212	NT50-MTA3-65	MT3	40	97.5	23.825	191.8
D431213	NT50-MTA4-70	MT4	48	97.5	31.267	196.8
D431214	NT50-MTA5-105	MT5	61	97.5	44.399	231.8

■ Adapter & sleeve - NT/MTB morse taper adapter (draw bar type)



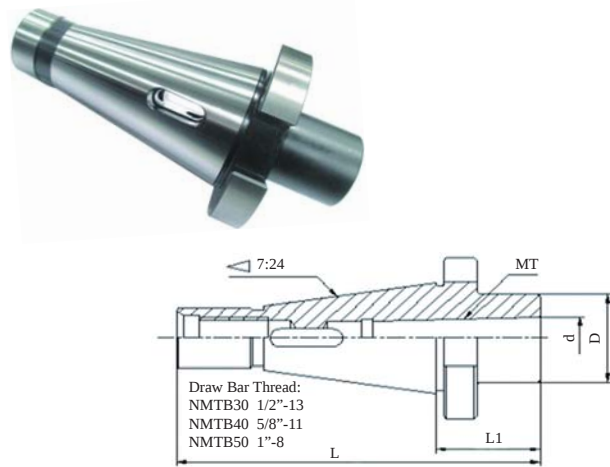
Order No.	Type	MT. No.	d1(mm)	D(mm)	d2(mm)	L1(mm)	L(mm)
D441010	NT30-MTB1-50	MT1	25	50	12.065	50	118.4
D441011	NT30-MTB2-50	MT2	32		17.78	50	118.4
D441012	NT30-MTB3-70	MT3	40		23.825	70	138.4
D441013	NT30-MTB4-145	MT4	48		31.267	145	213.4
D441110	NT40-MTB1-50	MT1	25	63	12.065	50	143.4
D441111	NT40-MTB2-50	MT2	32		17.78	50	143.4
D441112	NT40-MTB3-65	MT3	40		23.825	65	158.4
D441113	NT40-MTB4-95	MT4	48		31.267	95	188.4
D441114	NT40-MTB5-150	MT5	61	97.5	44.399	150	243.4
D441210	NT50-MTB1-45	MT1	25		12.065	45	171.8
D441211	NT50-MTB2-60	MT2	32		17.78	60	186.8
D441212	NT50-MTB3-65	MT3	40		23.825	65	191.8
D441213	NT50-MTB4-65	MT4	48		31.267	65	191.8
D441214	NT50-MTB5-105	MT5	61		44.399	105	231.8

■ Adapter & sleeve - NT/MT Morse taper adapter (end opening type)



Order No.	Type	MT. No.	D(mm)	D1(mm)	d(mm)	L(mm)
D441020	NT30-MT1-75	MT1	24	31.75	12.065	75
D441021	NT30-MT2-100	MT2	30		17.78	100
D441022	NT30-MT3-130	MT3	36		23.825	130
D441023	NT30-MT4-162.6	MT4	48		31.267	162.6
D441024	NT40-MT1-80	MT1	24	44.45	12.065	80
D441025	NT40-MT2-85	MT2	30		17.78	85
D441026	NT40-MT3-100	MT3	36		23.825	100
D441027	NT40-MT4-145	MT4	48		31.267	145
D441028	NT40-MT5-225	MT5	61	69.85	44.399	225
D441029	NT50-MT1-127	MT1	25		12.065	127
D441030	NT50-MT2-127	MT2	32		17.78	127
D441031	NT50-MT3-127	MT3	40		23.825	127
D441032	NT50-MT4-127	MT4	48		31.267	127
D441033	NT50-MT5-180	MT5	60		44.399	180

■ Adapter & sleeve - NMTB/MTA morse taper adapter(with tang)



□ Draw bar type is optional

Order No.	Type	L	L1	D	d
D291010	NMTB30-MTA1-1.00	3.687	1.00	1.000	0.475
D291011	NMTB30-MTA2-2.13	4.817	2.13	1.250	0.700
D291012	NMTB30-MTA3-2.81	5.497	2.81	1.563	0.938
D291110	NMTB40-MTA1-0.94	4.627	0.94	1.000	0.475
D291111	NMTB40-MTA2-2.06	5.747	2.06	1.250	0.700
D291112	NMTB40-MTA3-2.22	5.907	2.22	1.563	0.938
D291113	NMTB40-MTA4-3.06	6.747	3.06	1.940	1.231
D291210	NMTB50-MTA2-1.88	6.880	1.88	1.250	0.700
D291211	NMTB50-MTA3-2.38	7.380	2.38	1.563	0.938
D291212	NMTB50-MTA4-3.25	8.250	3.25	1.940	1.231
D291213	NMTB50-MTA5-4.61	9.610	4.61	2.750	1.748

■ Adapter & sleeve - NT/NT adapter



Order No.	NT	NT	D1(mm)	D(mm)	L (mm)
D441030	40	30	44.45	31.75	110
D441031	50	30	69.85	31.75	145
D441032	50	40	69.85	44.45	45

■ Adapter & sleeve - NT-NT adapter (with draw bar)



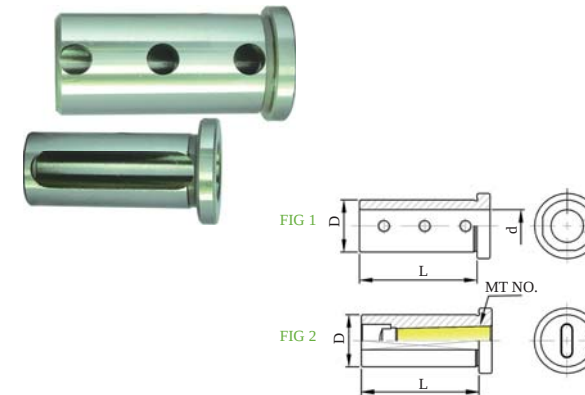
Order No.	NT	NT	D(mm)	d(mm)	D1(mm)	L1 (mm)
D441040	40	30	50	31.75	44.45	50
D441041	40	40	63	44.45	44.45	100
D441042	50	30	50	31.75	69.85	50
D441043	50	40	70	44.45	69.85	70
D441044	50	50	97	69.85	69.85	120

■ Adapter & sleeve - R8 to MT sleeves



Order No.	MT	D (mm)
D441050	1	12.065
D441051	2	17.78
D441052	3	23.825
D441053	4	31.267

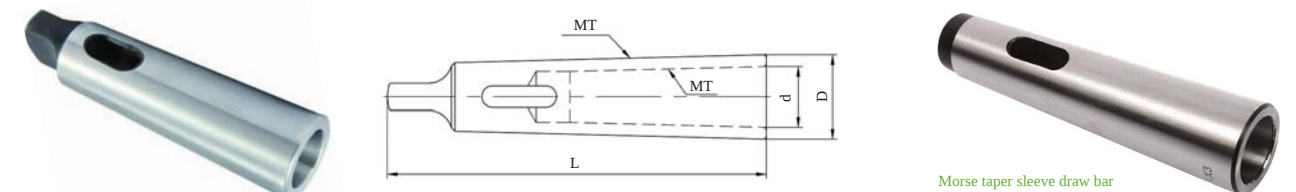
■ Adapter & sleeve - Oil-feed holder



Order No.	Type	FIG	ΦD	Φd	MT No.	L
D911010	V32-8	1	32	8	-	80
D911011	V32-10			10	-	
D911012	V32-12			12	-	
D911013	V32-16			16	-	
D911014	V32-20			20	-	
D911015	V32-25	2	32	25	-	80
D911016	V32-MTA1			-	1	
D911017	V32-MTA2			-	2	
D911018	V32-MTA3			-	3	

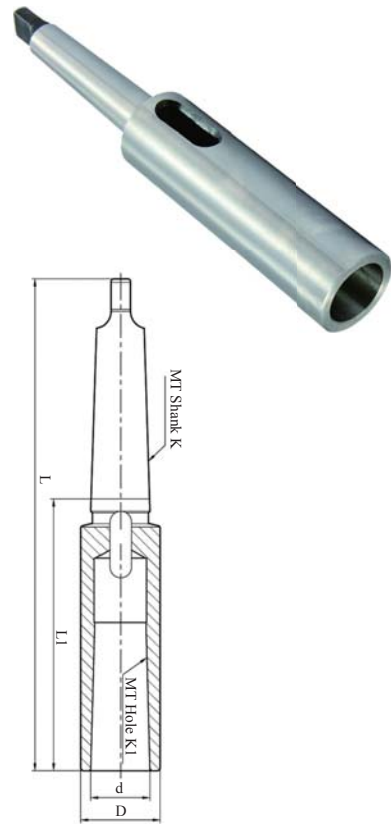
Order No.	Type	FIG	ΦD	Φd	MT No.	L
D911110	V40-8	1	40	8	-	80
D911111	V40-10			10	-	
D911112	V40-12			12	-	
D911113	V40-16			16	-	
D911114	V40-20			20	-	
D911115	V40-25	2	40	25	-	80
D911116	V40-32			32	-	
D911117	V40-MTA1			-	1	
D911118	V40-MTA2			-	2	
D911119	V40-MTA3			-	3	
D911120	V40-MTA4	1	50	-	4	80
D911210	V50-8			8	-	
D911211	V50-10			10	-	
D911212	V50-12			12	-	
D911213	V50-16			16	-	
D911214	V50-20	2	50	20	-	80
D911215	V50-25			25	-	
D911216	V50-32			32	-	
D911217	V50-40			40	-	
D911218	V50-MTA1			-	1	
D911219	V50-MTA2	-	2	80		
D911220	V50-MTA3	-	3			
D911221	V50-MTA4	-	4			

■ Adapter & sleeve - Morse taper sleeve with tang



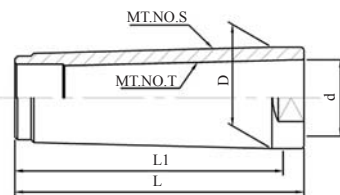
Model No.	Type	MT Shank K	MT Hole K1	D	d	L(mm)	N.W.(g)
F201010	S/T1-0	1	0	13	9.045	80	100
F201110	S/T2-1	2	1	18.6	12.065	92	100
F201210	S/T3-1	3	1	24.1	12.065	99	240
F201211	S/T3-2		2	24.7	17.78	112	120
F201310	S/T4-1	4	1	31.6	12.065	124	600
F201311	S/T4-2		2	17.78	17.78	140	500
F201312	S/T4-3		3	23.825	23.825	156	380
F201410	S/T5-1	5	1	44.7	12.065	171	1590
F201411	S/T5-2		2	17.78	17.78	187	1490
F201412	S/T5-3		3	23.825	23.825	203	1360
F201413	S/T5-4	6	4	45.5	31.267	218	950
F201510	S/T6-1		1	63.8	12.065	234	3840
F201511	S/T6-2		2	17.78	17.78	250	3730
F201512	S/T6-3		3	23.825	23.825	266	3850
F201513	S/T6-4		4	31.267	31.267	282	3120
F201514	S/T6-5		5	44.399	44.399	298	1950

■ Adapter & sleeve - Morse taper extension socket



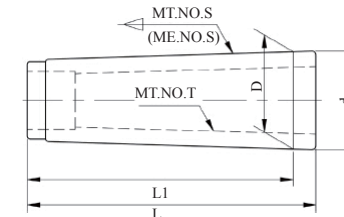
Order No.	Type	MT Shank K	MT Hole K1	D	d	L	N.W.(g)
F211010	S/T1-1L	1	1	20	12.065	145	190
F211011	S/T1-2L		2	30	17.78	160	400
F211012	S/T1-3L		3	36	23.825	181	400
F211110	S/T2-1L	2	1	20	12.065	160	290
F211111	S/T2-2L		2	30	17.78	175	500
F211112	S/T2-3L		3	36	23.825	196	600
F211113	S/T2-4L	3	4	48	31.267	221	1430
F211210	S/T3-1L		1	20	12.065	175	410
F211211	S/T3-2L		2	30	17.78	194	620
F211212	S/T3-3L	4	3	36	23.825	215	890
F211213	S/T3-4L		4	48	31.267	240	1550
F211214	S/T3-5L		5	63	44.399	275	2800
F211310	S/T4-1L	5	1	20	12.065	200	810
F211311	S/T4-2L		2	30	17.78	215	1000
F211312	S/T4-3L		3	36	23.825	240	1270
F211313	S/T4-4L	6	4	48	31.267	285	1930
F211314	S/T4-5L		5	63	44.399	300	3180
F211315	S/T4-6L		6	85	63.348	368	6500
F211410	S/T5-2L	7	2	30	17.78	247	2000
F211411	S/T5-3L		3	36	23.825	268	2270
F211412	S/T5-4L		4	48	31.267	300	2930
F211413	S/T5-5L	8	5	63	44.399	335	4180
F211414	S/T5-6L		6	85	63.348	403	6700
F211510	S/T6-2L	9	2	30	17.78	309	4250
F211511	S/T6-3L		3	36	23.825	330	4520
F211512	S/T6-4L		4	48	31.267	355	5180
F211513	S/T6-5L	10	5	63	44.399	390	6430

■ Adapter & sleeve - Morse taper sleeve



Order No.	Type	MS.NO.S	MS.NO.T	D(mm)	d(mm)	L(mm)	Accuracy(mm)	N.W.(kg)
F221010	2/1	2	1	18	12.065	70	0.015	0.10
F221110	3/1	3	1	24.1	12.065	80		0.24
F221111	3/2		2		17.780			0.12
F221210	4/1	4	1	31.6	12.065	90	0.02	0.63
F221211	4/2		2		17.180			0.50
F221212	4/3		3		23.825			0.38
F221310	5/2	5	2	44.7	17.780	110		1.49
F221311	5/3		3		23.825			1.36
F221312	5/4		4		31.267			0.95
F221410	6/3	6	3	63.8	23.825	130	0.025	3.58
F221411	6/4		4		31.267			3.12
F221412	6/5		5		44.399			1.95

■ Adapter & sleeve - Morse taper center sleeve



Order No.	Type	MS(NE). NO.S	MS.NO.T	L(mm)	L1(mm)	D(mm)	d(mm)
F231010	2/1	MS2	1	60	56	17.780	12.065
F231110	3/1	MS3	1	70	66	23.825	12.065
F231111	3/2		2				17.780
F231210	4/2	MS4	2	70	63.5	31.267	17.780
F231211	4/3		3				23.825
F231310	5/2	MS5	2	77	70.5	44.399	17.780
F231311	5/3		3				23.825
F231312	5/4	MS6	4	110	103.5	63.348	31.267
F231410	6/3		3				23.825
F231411	6/4	MS6	4	110	103.5	63.348	31.267
F231412	6/5		5				44.399

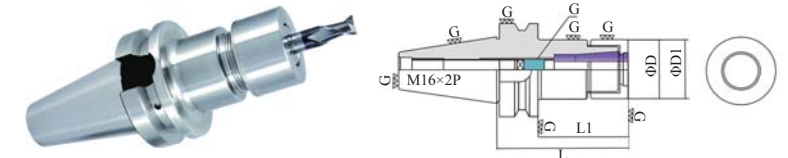
Order No.	Type	MS(NE). NO.S	MS.NO.T	L(mm)	L1(mm)	D(mm)	d(mm)
F231510	40/3	ME40	3	70		40	23.825
F231511	40/4		4				31.267
F231610	50/3	ME50	3	86		50	23.825
F231611	50/4		4				31.267
F231612	50/5	ME60	5	100		60	44.399
F231710	60/4		4				31.267
F231711	60/5	ME70	5	110		70	44.399
F231810	70/4		4				31.267
F231811	70/5	ME80	5	120		80	44.399
F231910	80/4		4				31.267
F231911	80/5	ME90	5	130		90	44.399
F231912	80/6		6				66.348
F232010	90/5	ME90	5	140		100	44.399
F232011	90/6		6				66.348

■ CNC tooling - BT/SK high speed collet chuck

Specifications

□ Max speed: 30000 r.p.m G2.5

Optional



Order No.	Type	D1	L1	L	Clamping Range
D011010	BT30-SK06-60	20	40	60	2-6
D011011	BT30-SK06-80	20	60	80	2-6
D011110	BT30-SK10-70	27	50	70	2-10
D011111	BT30-SK10-95	27	75	95	2-10
D011210	BT30-SK16-60	40	35	60	3-16
D011211	BT30-SK16-80	40	60	80	3-16
D011212	BT30-SK16-100	40	80	100	3-16
D011310	BT30-SK20-60	48	40	60	3-20
D011410	BT30-SK25-85	54	65	85	6-25.4
D011510	BT40-SK06-65	20	40	65	2-6
D011511	BT40-SK06-85	20	60	85	2-6
D011610	BT40-SK10-55	27	30	55	2-10
D011611	BT40-SK10-80	27	55	80	2-10
D011612	BT40-SK10-100	27	75	100	2-10
D011613	BT40-SK10-150	27	125	150	2-10
D011710	BT40-SK16-55	40	30	55	3-16
D011711	BT40-SK16-80	40	55	80	3-16
D011712	BT40-SK16-100	40	75	100	3-16
D011713	BT40-SK16-150	40	125	150	3-16
D011810	BT40-SK20-60	48	35	60	3-20

Order No.	Type	D1	L1	L	Clamping Range
D011811	BT40-SK20-90	48	65	90	3-20
D011812	BT40-SK20-120	48	95	120	3-20
D011910	BT40-SK25-70	54	45	70	6-25.4
D011911	BT40-SK25-95	54	70	95	6-25.4
D011912	BT40-SK25-110	54	85	110	6-25.4
D012010	BT50-SK06-70	20	35	70	2-6
D012011	BT50-SK06-100	20	65	100	2-6
D012110	BT50-SK10-100	27	65	100	2-10
D012111	BT50-SK10-130	27	95	130	2-10
D012112	BT50-SK10-150	27	115	150	2-10
D012210	BT50-SK16-100	40	65	100	3-16
D012211	BT50-SK16-130	40	95	130	3-16
D012212	BT50-SK16-150	40	115	150	3-16
D012310	BT50-SK20-105	48	70	105	3-20
D012311	BT50-SK20-135	48	100	135	3-20
D012312	BT50-SK20-165	48	130	165	3-20
D012410	BT50-SK25-100	54	65	100	6-25.4
D012411	BT50-SK25-130	54	95	130	6-25.4
D012412	BT50-SK25-150	54	115	150	6-25.4

■ CNC tooling - BT ER collet chuck

Optional

ER Collet

ER Nut

Spanner

Pull Studs

Balancing
in 2 planes

Balancing
in 1 planes

Order No.	Type	L1	L	D	d1	d2	T
D021010	BT30-ER16-60	60	108.4	31.75	16	28	M10×1.5P
D021011	BT30-ER16-70	70	118.4				
D021012	BT30-ER16-100	100	148.4				
D021013	BT30-ER16-120	120	168.4				
D021014	BT30-ER20-60	60	108.4		20	34	M12×1.75P
D021015	BT30-ER20-70	70	118.4				
D021016	BT30-ER20-100	100	148.4				
D021017	BT30-ER20-135	135	183.4				
D021018	BT30-ER25-60	60	108.4		25	42	M16×2.0P
D021019	BT30-ER25-70	70	118.4				
D021020	BT30-ER25-100	100	148.4				
D021021	BT30-ER25-135	135	183.4	32	50	M16×2.0P	
D021022	BT30-ER32-70	70	118.4				
D021023	BT30-ER32-100	100	148.4				
D021024	BT30-ER40-80	80	128.4	40	63	M20×2.0P	
D021110	BT40-ER16-60	60	125.4	44.45	16	28	M10×1.5P
D021111	BT40-ER16-70	70	135.4				
D021112	BT40-ER16-100	100	165.4				
D021113	BT40-ER16-120	120	185.4				
D021114	BT40-ER16-125	125	190.4		20	34	M12×1.75P
D021115	BT40-ER16-150	150	215.4				
D021116	BT40-ER20-70	70	135.4				
D021117	BT40-ER20-100	100	165.4				
D021118	BT40-ER20-135	135	200.4		25	42	M16×2.0P
D021119	BT40-ER20-150	150	215.4				
D021120	BT40-ER25-70	70	135.4				
D021121	BT40-ER25-100	100	165.4				
D021122	BT40-ER25-120	120	185.4		32	50	M16×2.0P
D021123	BT40-ER25-125	125	190.4				
D021124	BT40-ER25-150	150	215.4				
D021125	BT40-ER32-70	70	135.4				
D021126	BT40-ER32-100	100	165.4	40	63	M20×2.0P	
D021127	BT40-ER32-120	120	185.4				
D021128	BT40-ER32-150	150	215.4				
D021129	BT40-ER40-80	80	145.4				
D021130	BT40-ER40-100	100	165.4				
D021131	BT40-ER40-120	120	185.4				
D021132	BT40-ER40-150	150	215.4				

■ CNC tooling - BT ER collet chuck

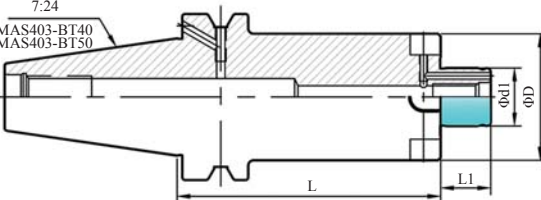
Order No.	Type	L1	L	D	d1	d2	T
D021210	BT50-ER16-70	70	171.8	69.85	16	28	M10×1.5P
D021211	BT50-ER16-90	90	191.8				
D021212	BT50-ER16-105	105	206.8				
D021213	BT50-ER16-135	135	236.8				
D021214	BT50-ER16-165	165	266.8				
D021215	BT50-ER20-70	70	171.8		20	34	M12×1.75P
D021216	BT50-ER20-90	90	191.8				
D021217	BT50-ER20-105	105	206.8				
D021218	BT50-ER20-135	135	236.8				
D021219	BT50-ER20-150	150	251.8				
D021220	BT50-ER20-165	165	266.8		25	42	M16×2.0P
D021221	BT50-ER20-200	200	301.8				
D021222	BT50-ER25-70	70	171.8				
D021223	BT50-ER25-105	105	206.8				
D021224	BT50-ER25-135	135	236.8				
D021225	BT50-ER25-165	165	266.8		32	50	M16×2.0P
D021226	BT50-ER32-70	70	171.8				
D021227	BT50-ER32-80	80	181.8				
D021228	BT50-ER32-100	100	201.8				
D021229	BT50-ER32-120	120	221.8				
D021230	BT50-ER32-150	150	251.8		40	63	M20×2.0P
D021231	BT50-ER32-200	200	301.8				
D021232	BT50-ER40-80	80	181.8				
D021233	BT50-ER40-100	100	201.8				
D021234	BT50-ER40-120	120	221.8				
D021235	BT50-ER40-135	135	236.8				
D021236	BT50-ER40-150	150	251.8				M24×2.0P

■ CNC tooling - BT/FMC face mill arbor with coolant



Optional



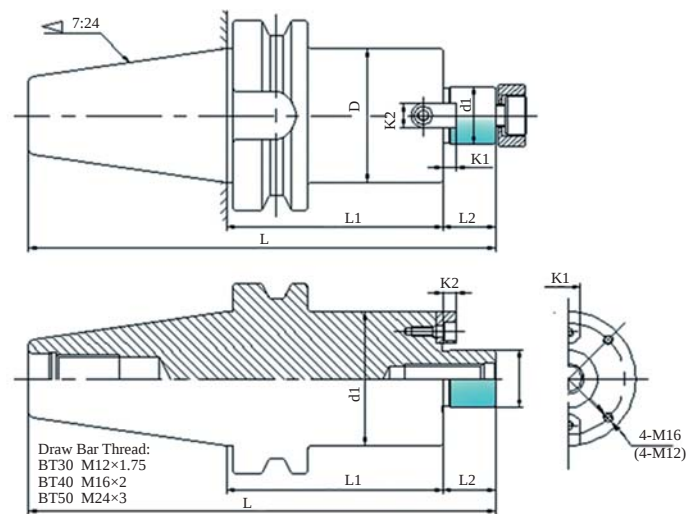


MAS403-BT40
MAS403-BT50

Order No.	Type	d1	D	L1	L
D051010	BT40-FMC16-35	16	38	17	35
D051011	BT40-FMC22-35	22	48	19	35
D051012	BT40-FMC27-35	27	58	21	35
D051013	BT40-FMC32-50	32	78	24	50
D051014	BT40-FMC40-60	40	80	27	60
D051110	BT50-FMC16-35	16	38	17	35
D051111	BT50-FMC22-55	22	48	19	55

Order No.	Type	d1	D	L1	L
D051112	BT50-FMC22-100	22	48	19	100
D051113	BT50-FMC27-55	27	58	21	55
D051114	BT50-FMC27-100	27	58	21	100
D051115	BT50-FMC32-50	32	78	24	55
D051116	BT50-FMC32-100	32	78	24	100
D051117	BT50-FMC40-55	40	80	27	55
D051118	BT50-FMC40-100	40	80	27	100

CNC tooling - BT/FMA face mill arbors

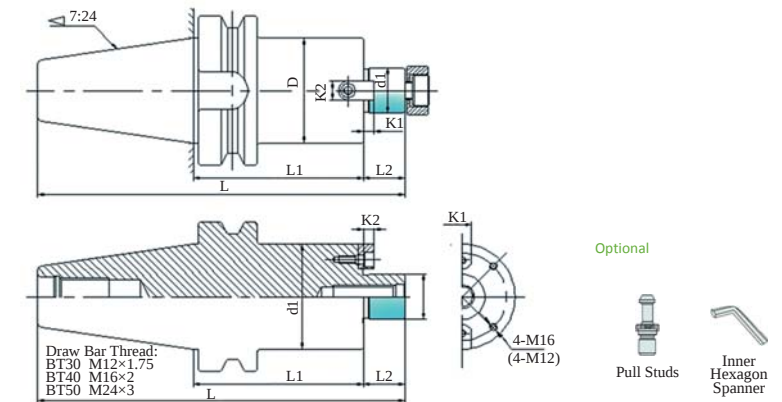


Optional



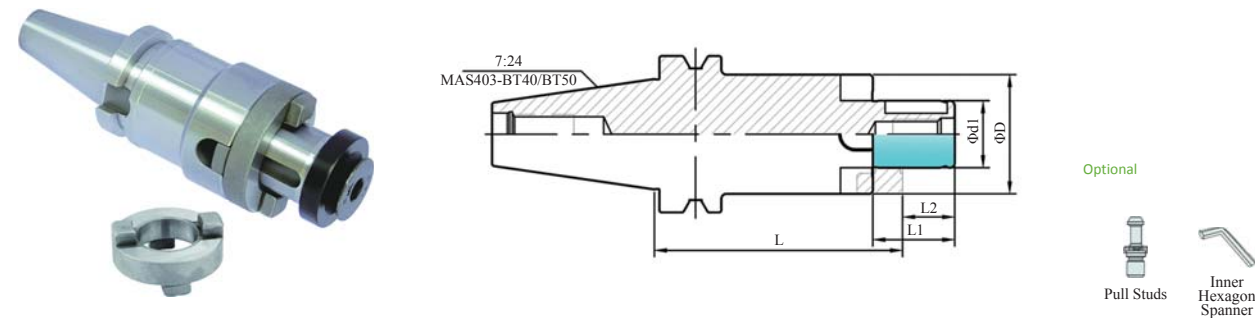
Order No.	Type	d1	L1	D	L	L2	K1	K2
D031010	BT30×FMA25.4-45	25.4	45	50	113.4			
D031011	BT30×FMA25.4-60		60		128.4	20	4.52	9.52
D031012	BT30×FMA31.75-45	31.75	45	60	115.4	22	6.7	12.7
D031110	BT40×FMA19.05-45	19.05	45	44.5	127.4	17	4.52	7.92
D031111	BT40×FMA19.05-101.6		101.6		184			
D031112	BT40×FMA25.4-45		45		130.4			
D031113	BT40×FMA25.4-60	25.4	60	50	145.4	20	4.52	9.52
D031114	BT40×FMA25.4-90		90		175.4			
D031115	BT40×FMA25.4-105		105		190.4			
D031116	BT40×FMA31.75-45		45		132.4			
D031117	BT40×FMA31.75-60		60		147.4			
D031118	BT40×FMA31.75-75	31.75	75	60	162.4	22	6.7	12.7
D031119	BT40×FMA31.75-90		90		177.4			
D031120	BT40×FMA31.75-127		127		214.4			
D031121	BT40×FMA38.10-60	38.1	60	80	150.4	25	8.87	15.87
D031122	BT40×FMA50.80-60	50.8	60	98	161.4	36	9.75	19.05
D031210	BT50×FMA25.4-45		45		166.8			
D031211	BT50×FMA25.4-90	25.4	90	50	211.8	20	4.52	9.52
D031212	BT50×FMA25.4-150		150		271.8			
D031213	BT50×FMA31.75-45		45		168.8			
D031214	BT50×FMA31.75-75	31.75	75	60	198.8	22	6.7	12.7
D031215	BT50×FMA31.75-105		105		228.8			
D031216	BT50×FMA38.10-45	38.1	45	80	171.8	25	8.87	15.87
D031217	BT50×FMA38.10-75		75		201.8			
D031218	BT50×FMA50.80-45		45		182.8			
D031219	BT50×FMA50.80-60	50.8	60	98	197.8	36	9.75	19.05
D031220	BT50×FMA50.80-75		75		212.8			
D031221	BT50×FMA47.62-75	47.62	75	128.75	208.8	32	12.5	25.4

CNC tooling - BT/FMB face mill arbor


D=40F
D=60


Order No.	Type	d1	L1	D	L	L2	K1	K2	N.W.(kg)
D041010	BT30×FMB22-45	22	45	48	111.4	18	4.8	10	0.85
D041011	BT30×FMB22-60		60		126.4				1.25
D041012	BT30×FMB27-45	27	45	60	113.4	20	5.8	12	1.20
D041013	BT30×FMB27-60		60		128.4				1.35
D041014	BT30×FMB32-45	32	45	78	115.4	22	6.8	14	1.35
D041110	BT40×FMB22-45		45		128.4				1.45
D041111	BT40×FMB22-60		60		143.4				1.70
D041112	BT40×FMB22-100	22	100	48	183.4	18	4.8	10	2.20
D041113	BT40×FMB22-150		150		233.4				3.10
D041114	BT40×FMB22-200		200		283.4				3.10
D041115	BT40×FMB27-45		45		130.4				1.60
D041116	BT40×FMB27-60	27	60	60	145.4	20	5.8	12	2.00
D041117	BT40×FMB27-90		90		175.4				2.30
D041118	BT40×FMB27-105		105		190.4				2.50
D041119	BT40×FMB32-45	32	45	78	132.4	22	6.8	14	1.75
D041120	BT40×FMB32-60		60		147.4				2.10
D041121	BT40×FMB40-60	40	60	80	150.4	25	8.3	16	2.80
D041210	BT50×FMB22-45		45		164.8				4.50
D041211	BT50×FMB22-90		90		209.8				5.10
D041212	BT50×FMB22-150		150	48	269.8				6.80
D041213	BT50×FMB22-200	22	200		319.8	18	4.8	10	7.00
D041214	BT50×FMB22-250		250		369.8				8.00
D041215	BT50×FMB22-300		300		419.8				9.20
D041216	BT50×FMB22-350		350		469.8				10.50
D041217	BT50×FMB22-400		400		519.8				11.50
D041218	BT50×FMB27-50		50		171.8				4.60
D041219	BT50×FMB27-90	27	90	60	211.8	20	5.8	12	5.40
D041220	BT50×FMB27-150		150		271.8				7.50
D041221	BT50×FMB27-200		200		321.8				9.50
D041222	BT50×FMB27-250		250		371.8				11.00
D041223	BT50×FMB32-50	32	50	78	173.8	22	6.8	14	5.70
D041224	BT50×FMB32-90		90		213.8				5.80
D041225	BT50×FMB40-50		50	89	176.8				5.20
D041226	BT50×FMB40-90	40	90	98	216.8	25	8.3	16	6.00
D041227	BT50×FMB40-105		105		231.8				7.20
D041228	BT50×FMB40F-75		75	110	202.8	26			6.00
D041229	BT50×FMB60-75	60	75	140	210.8	25	12.5	25.4	8.50

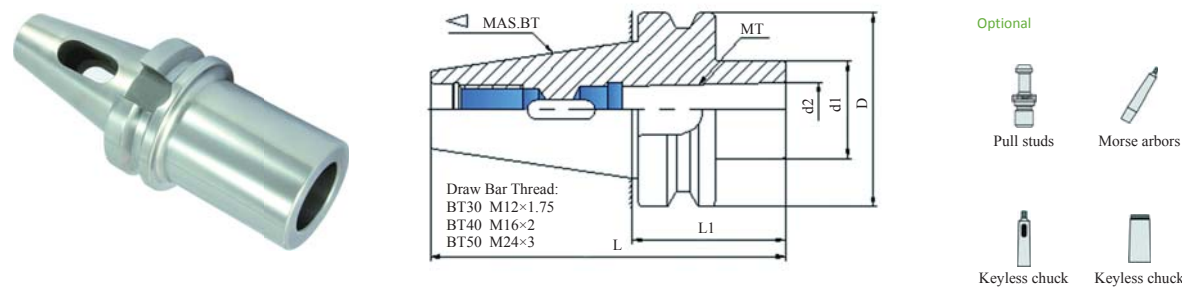
CNC tooling - BT CMA combi shell end mill arbor



Order No.	Type	d1	D	L1	L2	L
D061010	BT40-CMA16-55	16	32	27	17	55
D061011	BT40-CMA16-100	16	32	27	17	100
D061012	BT40-CMA22-55	22	40	31	19	55
D061013	BT40-CMA22-100	22	40	31	19	100
D061014	BT40-CMA27-55	27	48	33	21	55
D061015	BT40-CMA27-100	27	48	33	21	100
D061016	BT40-CMA32-60	32	58	38	24	60
D061017	BT40-CMA32-100	32	58	38	24	100
D061018	BT40-CMA40-60	40	70	41	27	60
D061019	BT40-CMA40-100	40	70	41	27	100

Order No.	Type	d1	D	L1	L2	L
D061110	BT50-CMA16-70	16	32	27	17	70
D061111	BT50-CMA16-100	16	32	27	17	100
D061112	BT50-CMA22-70	22	40	31	19	70
D061113	BT50-CMA22-100	22	40	31	19	100
D061114	BT50-CMA27-70	27	48	33	21	70
D061115	BT50-CMA27-100	27	48	33	21	100
D061116	BT50-CMA32-70	32	58	38	24	70
D061117	BT50-CMA32-100	32	58	38	24	100
D061118	BT50-CMA40-70	40	70	41	27	70
D061119	BT50-CMA40-100	40	70	41	27	100

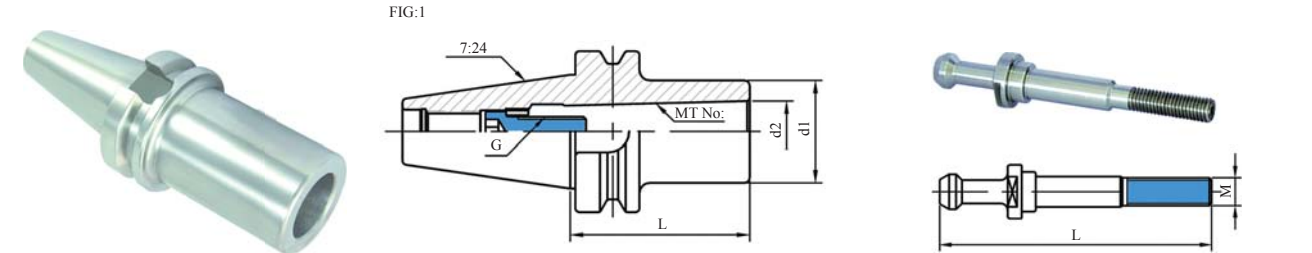
CNC tooling - BT MTA morse taper adapter



Order No.	Type	L	L1	D	d1	d2
D071010	BT30-MTA1-45	93.4	45	46	25	12.065
D071011	BT30-MTA1-105	153.4	105		32	17.78
D071110	BT30-MTA2-60	108.4	60		40	23.825
D071111	BT30-MTA2-120	168.4	120		25	12.065
D071210	BT30-MTA3-80	128.4	80	63	32	17.78
D071310	BT40-MTA1-45	110.4	45		40	23.825
D071311	BT40-MTA1-120	185.4	120		25	12.065
D071410	BT40-MTA2-50	115.4	50		32	17.78
D071411	BT40-MTA2-120	185.4	120	100	40	23.825
D071510	BT40-MTA3-70	135.4	70		48	31.207
D071511	BT40-MTA3-75	140.4	75		63	44.399
D071512	BT40-MTA3-135	200.4	135			
D071610	BT40-MTA4-95	160.4	95			
D071611	BT40-MTA4-165	230.4	165			

Order No.	Type	L	L1	D	d1	d2
D071710	BT50-MTA1-45	146.8	45	100	25	12.065
D071711	BT50-MTA1-120	221.8	120		32	17.78
D071712	BT50-MTA1-180	281.8	180		40	23.825
D071810	BT50-MTA2-60	161.8	60		48	31.267
D071811	BT50-MTA2-135	236.8	135	100	63	44.399
D071812	BT50-MTA2-180	281.8	180			
D071910	BT50-MTA3-65	166.8	65			
D071911	BT50-MTA3-150	251.8	150			
D071912	BT50-MTA3-180	281.8	180	100		
D072010	BT50-MTA4-95	196.8	95			
D072011	BT50-MTA4-180	281.8	180			
D072110	BT50-MTA5-105	206.8	105			

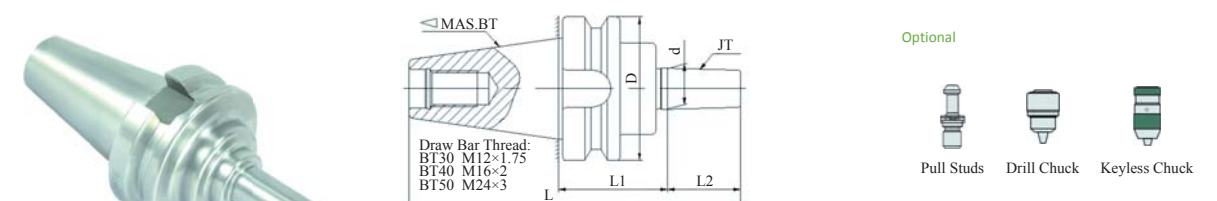
CNC tooling - BT MTB morse taper adapter



Order No.	Type	d2	L	d1	G	N.W.(kg)
D081010	BT30-MTB1-45	12.065	45	25	M6×25	0.55
D081011	BT30-MTB2-60	17.78	60	32	M10×62	0.60
D081110	BT40-MTB1-45	12.065	45	25	M6×25	1.05
D081111	BT40-MTB2-45	17.78	45	32	M10×35	1.85
D081112	BT40-MTB3-75	23.825	75	40	M12×45	1.30
D081113	BT40-MTB4-90	31.267	90	48	M16×45	1.60
D081210	BT50-MTB1-45	12.065	45	25	M6×35	3.80
D081211	BT50-MTB2-45	17.78	45	32	M10×35	3.90
D081212	BT50-MTB3-60	23.825	60	40	M12×45	3.90
D081213	BT50-MTB4-75	31.267	75	48	M16×45	4.20
D081214	BT50-MTB5-120	44.399	120	63	M20×50	4.30

Order No.	Type	M	L
D081310	MT3	M12	116
D081410	MT4	M16	120
D081510	MT5	M24	176

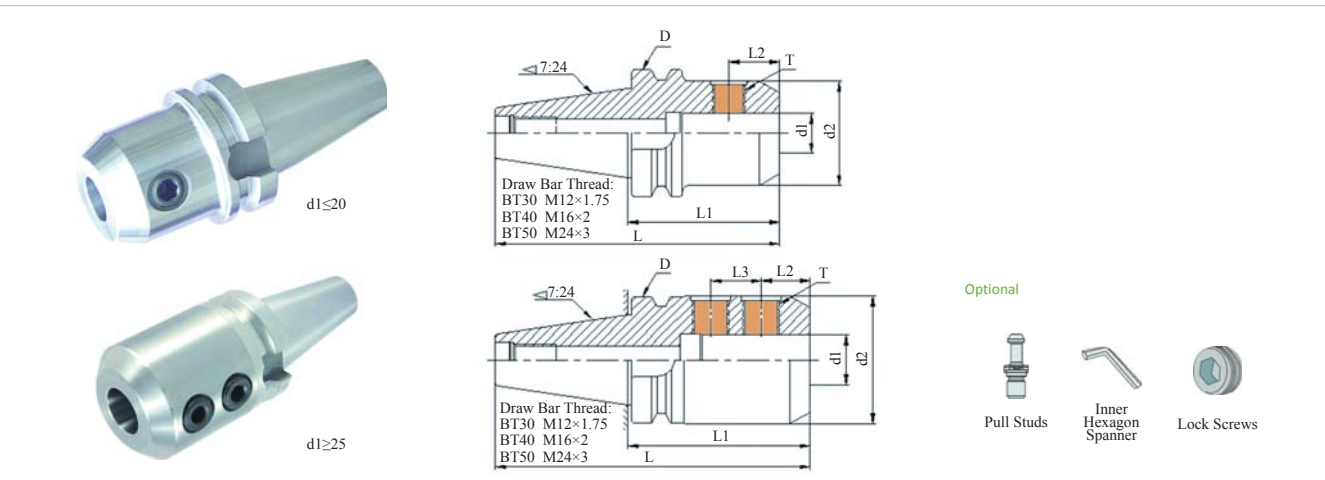
CNC tooling - BT jacobs taper arbor



Order No.	Type	L	L1	D	d	L2
D091010	BT30-B10-45	107.90	45	46	10.094	14.5
D091011	BT30-B12-45	111.90	45		12.065	18.5
D091012	BT30-B16-45	117.40	45		15.733	24
D091013	BT30-B18-45	125.40	45		17.785	32
D091110	BT40-B10-45	124.90	45	63	10.094	14.5
D091111	BT40-B12-45	128.00	45		12.065	18.5
D091112	BT40-B16-45	134.40	45		15.733	24
D091113	BT40-B18-45	142.40	45		17.785	32
D091114	BT40-B22-45	150.90	45	100	21.793	40.5
D091115	BT40-B24-45	160.90	45		23.825	50.5
D091210	BT50-B10-45	161.30	45		10.094	14.5
D091211	BT50-B12-45	165.30	45		12.065	18.5
D091212	BT50-B16-45	170.80	45	100	15.733	24
D091213	BT50-B18-45	178.80	45		17.785	32
D091214	BT50-B22-45	187.30	45		21.793	40.5
D091215	BT50-B24-45	197.30	45		23.825	50.5

Order No.	Type	L	L1	D	d	L2
D091310	BT30-JT2-30	100.625	30	46	14.199	22.225
D091311	BT30-JT2-45	116.625	45		14.199	22.225
D091312	BT30-JT3-30	109.375	30		20.599	30.957
D091313	BT30-JT3-45	118.80	45		15.850	25.4
D091314	BT30-JT6-30	103.80	30	63	17.17	25.4
D091315	BT30-JT6-45	118.80	45		17.170	25.4
D091410	BT40-JT2-45	132.625	45	100	14.199	22.225
D091411	BT40-JT3-45	141.357	45		20.599	30.957
D091412	BT40-JT3-30	120.80	30		15.85	25.4
D091413	BT40-JT3-45	135.80	45		15.850	25.4
D091414	BT40-JT6-30	120.80	30	100	17.17	25.4
D091415	BT40-JT6-45	135.80	45		17.170	25.4
D091416	BT40-JT6-105	195.80	105		17.170	25.4
D091510	BT50-JT2-45	169.025	45	100	14.199	22.225
D091511	BT50-JT3-45	177.757	45		20.599	30.957
D091512	BT50-JT3-30	172.20	45		15.850	25.4
D091513	BT50-JT6-45	172.20	45		17.170	25.4
D091514	BT50-JT6-105	232.20	105		17.170	25.4

■ CNC tooling - BT/SLN sidelock end mill holder



Draw Bar Thread:
BT30 M12×1.75
BT40 M16×2
BT50 M24×3

Optional
Pull Studs
Inner Hexagon Spanner
Lock Screws

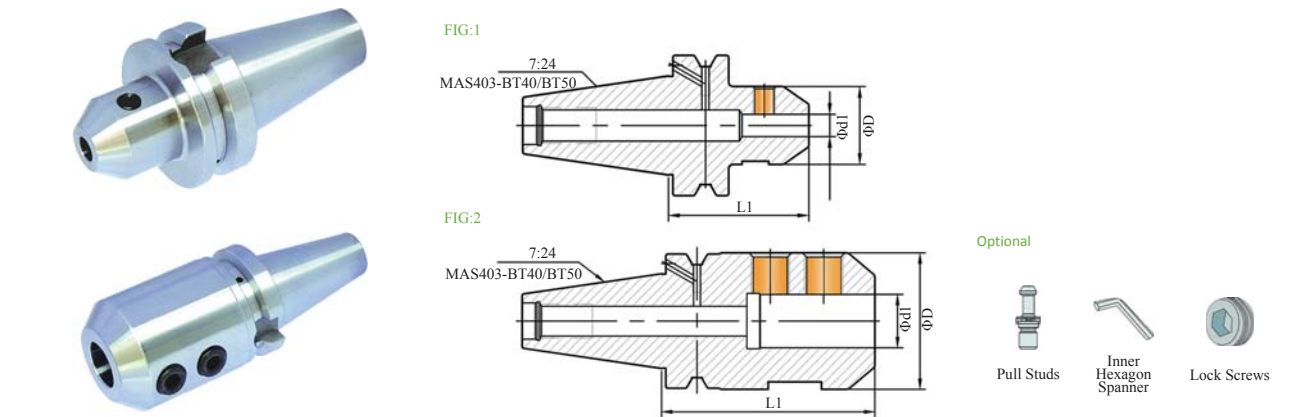
Model No.	Type	d1	L1	L	L2	L3	D	d2	T
D101010	BT30×SLN6-60	6	60	108.4	18	-	46	25	M6×1.0P
D101011	BT30×SLN8-60	8	60	108.4	18	-	46	28	M8×1.25P
D101012	BT30×SLN10-60	10	60	108.4	20	-	46	35	M10×1.5P
D101013	BT30×SLN12-60	12	60	108.4	22.5	-	46	42	M12×1.75P
D101014	BT30×SLN16-75	16	75	123.4	24	-	46	48	M14×2.0P
D101015	BT30×SLN20-75	20	75	123.4	25	-	46	52	M16×2.0P
D101016	BT30×SLN25-90	25	90	138.4	24	25	46	65	M18×2.0P
D101110	BT40×SLN6-50	6	50	115.4	18	-	63	25	M6×1.0P
D101111	BT40×SLN8-50	8	50	115.4	18	-	63	28	M8×1.25P
D101112	BT40×SLN10-63	10	63	128.4	20	-	63	35	M10×1.8P
D101113	BT40×SLN12-63	12	63	128.4	22.5	-	63	42	M12×1.75P
D101114	BT40×SLN16-63	16	63	128.4	24	-	63	48	M14×2.0P
D101115	BT40×SLN20-63	20	63	128.4	25	-	63	52	M16×2.0P
D101116	BT40×SLN25-100	25	100	165.4	24	25	63	65	M18×2.0P
D101117	BT40×SLN32-100	32	100	165.4	24	28	63	72	M20×2.0P
D101210	BT50×SLN6-63	6	63	164.8	18	-	100	25	M6×1.0P
D101211	BT50×SLN8-63	8	63	164.8	18	-	100	28	M8×1.250P
D101212	BT50×SLN10-63	10	63	164.8	20	-	100	35	M10×1.5P
D101213	BT50×SLN12-80	12	80	181.8	22.5	-	100	42	M12×1.75P
D101214	BT50×SLN16-80	16	80	181.8	24	-	100	48	M14×2.0P
D101215	BT50×SLN20-80	20	80	181.8	25	-	100	52	M16×2.0P
D101216	BT50×SLN25-100	25	100	201.8	24	25	100	65	M18×2.0P
D101217	BT50×SLN32-105	32	105	206.8	24	28	100	72	M20×2.0P
D101218	BT50×SLN40-115	40	115	216.8	30	32	100	90	M20×2.0P
D101219	BT50×SLN42-120	42	120	221.8	30	32	100	90	M20×2.0P

Model No.	Type	d1	L1	L	L2	L3	D	d2	T
D111010	BT30-EM1/8"-2.38"	1/8"	2.38"	4.286"	0.38"	-	1.81"	0.75"	3/16"-24
D111011	BT30-EM3/16"-2.38"	3/16"	2.38"	4.286"	0.38"	-	1.81"	0.75"	3/16"-24
D111012	BT30-EM1/4"-2.38"	1/4"	2.38"	4.286"	0.5"	-	1.81"	0.81"	1/4"-20
D111013	BT30-EM3/8"-2.38"	3/8"	2.38"	4.286"	0.75"	-	1.81"	1.38"	3/8"-16
D111014	BT30-EM1/2"-2.38"	1/2"	2.38"	4.286"	0.88"	-	1.81"	1.38"	7/16"-14
D111015	BT30-EM5/8"-2.38"	5/8"	2.38"	4.286"	0.94"	-	1.81"	1.44"	1/2"-13
D111016	BT30-EM3/4"-2.38"	3/4"	2.38"	4.286"	1"	-	1.81"	1.75"	5/8"-11
D111017	BT30-EM1"-2.75"	1"	2.75"	4.656"	1.12"	-	1.81"	2.38"	3/4"-10

■ CNC tooling - BT/SLN sidelock end mill holder

Model No.	Type	d1	L1	L	L2	L3	D	d2	T
D111110	BT40-EM3/8"-1.38"	3/8"	1.38"	3.955"	0.75"	-	2.48"	1"	3/8"-16
D111111	BT40-EM3/8"-2.25"	3/8"	2.25"	4.825"	0.75"	-	2.48"	1"	3/8"-16
D111112	BT40-EM3/8"-4.00"	3/8"	4"	6.575"	0.75"	-	2.48"	1"	3/8"-16
D111113	BT40-EM7/16"-2.62"	7/16"	2.62"	5.195"	0.75"	-	2.48"	1.25"	3/8"-16
D111114	BT40-EM1/2"-1.75"	1/2"	1.75"	4.325"	0.88"	-	2.48"	1.25"	7/16"-14
D111115	BT40-EM1/2"-2.25"	1/2"	2.25"	4.825"	0.88"	-	2.48"	1.25"	7/16"-14
D111116	BT40-EM1/2"-4.00"	1/2"	4"	6.575"	0.88"	-	2.48"	1.25"	7/16"-14
D111117	BT40-EM5/8"-1.75"	5/8"	1.75"	4.325"	0.88"	-	2.48"	1.5"	1/2"-13
D111118	BT40-EM5/8"-2.25"	5/8"	2.25"	4.825"	0.88"	-	2.48"	1.5"	1/2"-13
D111119	BT40-EM5/8"-6.00"	5/8"	6"	8.575"	0.88"	-	2.48"	1.5"	1/2"-13
D111120	BT40-EM3/4"-1.75"	3/4"	1.75"	4.325"	1"	-	2.48"	1.75"	5/8"-11
D111121	BT40-EM3/4"-3.38"	3/4"	3.38"	5.955"	1"	-	2.48"	1.75"	5/8"-11
D111122	BT40-EM3/4"-6.00"	3/4"	6"	8.575"	1"	-	2.48"	1.75"	5/8"-11
D111123	BT40-EM7/8"-3.75"	7/8"	3.75"	6.325"	1"	0.88"	2.48"	1.88"	5/8"-11
D111124	BT40-EM1"-1.75"	1"	1.75"	4.325"	1.12"	-	2.48"	2"	5/8"-11
D111125	BT40-EM1"-4.00"	1"	4"	6.575"	1.12"	1"	2.48"	2"	3/4"-10
D111126	BT40-EM1"-6.00"	1"	6"	8.575"	1.12"	1"	2.48"	2"	3/4"-10
D111127	BT40-EM1-1/4"-2.00"	1-1/4"	2"	4.575"	1.12"	-	2.48"	2.362"	5/8"-11
D111128	BT40-EM1-1/4"-4.00"	1-1/4"	4"	6.575"	1.12"	1.12"	2.48"	2.362"	3/4"-10
D111129	BT40-EM1-1/2"-4.00"	1-1/2"	4"	6.575"	1.12"	1"	2.48"	2.62"	3/4"-10

■ CNC tooling - BT/SLN side-lock end mill holder with coolant

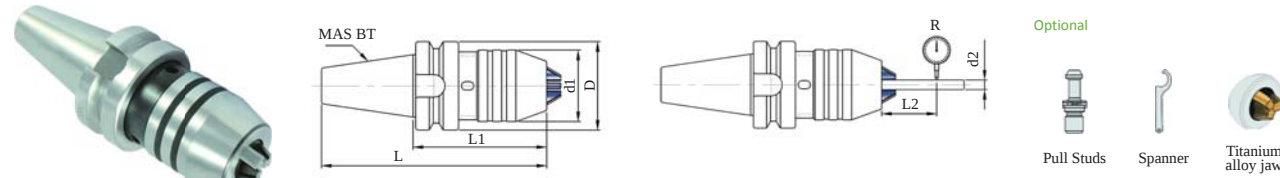


Optional
Pull Studs
Inner Hexagon Spanner
Lock Screws

Order No.	Type	Φd1	ΦD	L1	Fig
D121010	BT40-SLN06-50(B)	06	25	50	1
D121011	BT40-SLN08-50(B)	08	28	50	1
D121012	BT40-SLN10-63(B)	10	35	63	1
D121013	BT40-SLN12-63(B)	12	42	63	1
D121014	BT40-SLN14-63(B)	14	44	63	1
D121015	BT40-SLN16-63(B)	16	48	63	1
D121016	BT40-SLN18-63(B)	18	50	63	1
D121017	BT40-SLN20-63(B)	20	52	63	1
D121018	BT40-SLN25-90(B)	25	65	90	2
D121019	BT40-SLN32-100(B)	32	72	100	2

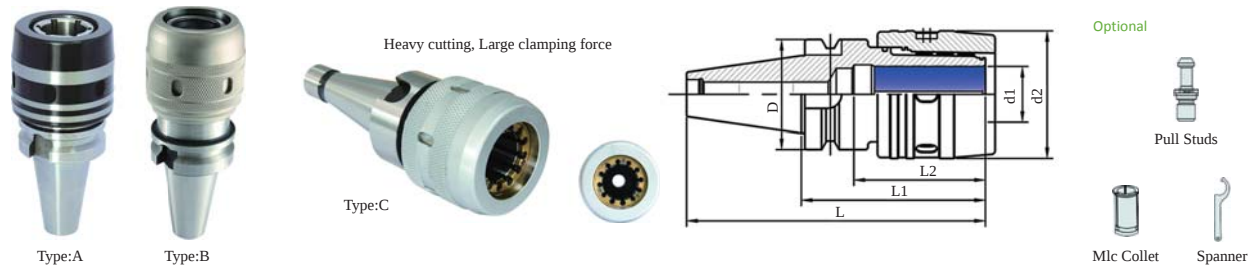
Order No.	Type	Φd1	ΦD	L1	Fig
D121110	BT50-SLN06-50(B)	06	25	50	1
D121111	BT50-SLN08-50(B)	08	28	50	1
D121112	BT50-SLN10-63(B)	10	35	63	1
D121113	BT50-SLN12-63(B)	12	42	63	1
D121114	BT50-SLN14-63(B)	14	44	63	1
D121115	BT50-SLN16-63(B)	16	48	63	1
D121116	BT50-SLN18-63(B)	18	50	63	1
D121117	BT50-SLN20-63(B)	20	52	63	1
D121118	BT50-SLN25-90(B)	25	65	90	2
D121119	BT50-SLN32-105(B)	32	72	105	2

CNC tooling - APU keyless drill chuck with BT shank



Order No.	Type	L1	L	L2	D	d1	d2	R	N.W.(kg)
D131010	BT30×SPU8-80	80	128.4	55	46	37	6	0.04	0.72
D131011	BT30×SPU13-110	110	158.4	75		50	13		1.85
D131012	BT30×SPU16-115	115	163.4	80		57	16		2.18
D131110	BT40×SPU8-85	85	150.4	55	63	37	6		1.46
D131111	BT40×SPU13-100	100	165.4	75		50	13		2.00
D131112	BT40×SPU13-130	130	195.4	75		50	13		2.33
D131113	BT40×SPU16-105	105	170.4	80	100	57	16		2.33
D131210	BT50×SPU8-90	90	191.8	55		37	6		4.16
D131211	BT50×SPU13-100	100	201.8	75		50	13		4.70
D131212	BT50×SPU13-180	180	281.8	75	100	50	13		5.80
D131213	BT50×SPU16-105	105	206.8	80		57	16		5.03
D131214	BT50×SPU16-130	130	231.8	80		57	16		4.80
D131215	BT50×SPU16-190	190	291.8	80		57	16		6.00

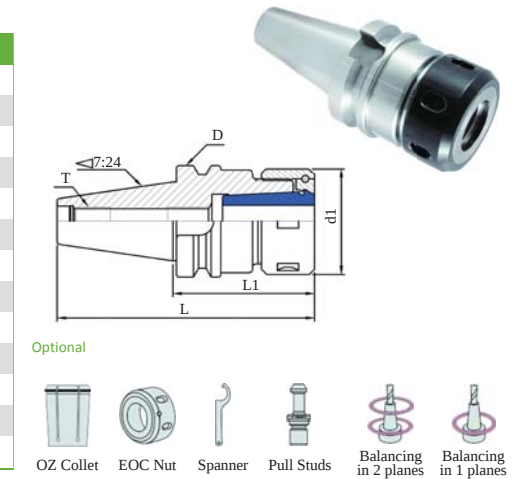
CNC tooling - BT milling chuck



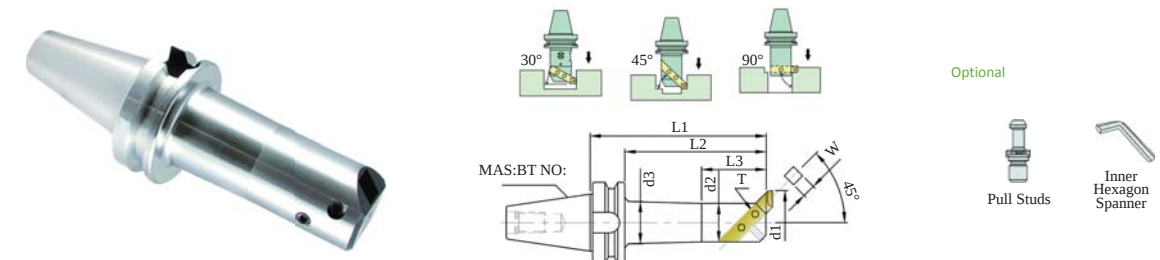
Order No.	Type	L	L1	L2	D	d1	d2	N.W.(kg)
D141010	BT30×MLC20-75	123.4	75	70	46	20	55	1.8
D141011	BT30×MLC20-90	138.4	90					2.0
D141110	BT40×MLC20-80	145.4	80					70
D141111	BT40×MLC20-100	165.4	100	2.5				
D141112	BT40×MLC20-135	200.4	135	2.8				
D141210	BT40×MLC32-90	155.4	90	75	100	32	73	2.6
D141211	BT40×MLC32-105	170.4	105					2.8
D141212	BT40×MLC32-135	200.4	135					3.0
D141310	BT50×MLC20-105	206.8	105	70	100	20	55	4.5
D141311	BT50×MLC20-150	251.8	150					4.9
D141410	BT50×MLC32-110	211.8	110					75
D141411	BT50×MLC32-135	236.8	135	5.9				
D141412	BT50×MLC32-165	266.8	165	6.6				
D141413	BT50×MLC32-200	301.8	200	90	100	42	95	7.3
D141510	BT50×MLC42-110	211.8	110	125				6.0
D141511	BT50×MLC42-130	231.8	130	90				42
D141512	BT50×MLC42-165	266.8	165		7.4			

CNC tooling - BT/EOC(OZ) collet chuck

Order No.	Type	L	L1	D	d1	T	N.W.(kg)
D151010	BT30×EOC25-70	118.4	70	46	60	M12×1.75P	1.00
D151110	BT40×EOC25-70	135.4	70	63	60	M16×2.0P	1.65
D151111	BT40×EOC25-100	165.4	100				2.25
D151112	BT40×EOC25-120	185.4	120				2.70
D151210	BT40×EOC32-90	155.4	90	63	72		2.00
D151211	BT40×EOC32-105	170.4	105				2.20
D151212	BT40×EOC32-120	185.4	120				2.45
D151310	BT50×EOC25-85	186.8	85	100	60	M24×2.0P	4.40
D151311	BT50×EOC25-100	201.8	100				4.80
D151312	BT50×EOC25-120	221.8	120				5.20
D151410	BT50×EOC32-90	191.8	90	100	72		4.60
D151411	BT50×EOC32-105	206.8	105				4.85
D151412	BT50×EOC32-120	221.8	120				5.35

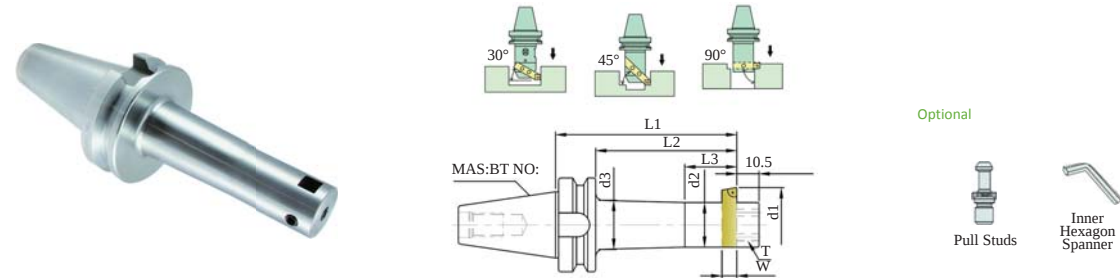


CNC tooling - BT 45° square cutter boring bar



Order No.	Type	d1		d2	d3	L2	L3	W	T	N.W.(kg)	
		Max	Min								
D161010	BT40×BSA25-120	38	25	20	22	90	35	8	M6	1.2	
D161011	BT40×BSA30-150	42	30	24	26	120	40			1.4	
D161012	BT40×BSA38-165	52	38	30	33	135	50	10	M8	1.7	
D161013	BT40×BSA42-165	56	42	34	37		50			2.0	
D161014	BT40×BSA50-165	65	50	40	44		65	13	2.3		
D161015	BT40×BSA62-180	90	62	50	56		80	16	2.4		
D161016	BT40×BSA72-180	110	72	60	-	150	95	19	M10	3.9	
D161017	BT40×BSA90-180	125	90	75	-		110			5.2	
D161110	BT50×BSA25-135	38	25	20	22	92	35	8	M6	4.2	
D161111	BT50×BSA30-165	42	30	24	26	122	40			4.4	
D161112	BT50×BSA38-180	52	38	30	33	137	50	10	M8	4.8	
D161113	BT50×BSA42-210	56	42	34	37	167	60			5.0	
D161114	BT50×BSA50-180	65	50	40	44	137	65	13	M10	5.4	
D161115	BT50×BSA50-240	65	50	40	44	197	65			5.7	
D161116	BT50×BSA62-195	90	62	50	56	152	80	16		6.2	
D161117	BT50×BSA62-270	90	62	50	56	227	80			7.6	
D161118	BT50×BSA72-195	110	72	60	66	152	95	19		7.0	
D161119	BT50×BSA72-285	110	72	60	66	242	95			9.3	
D161120	BT50×BSA90-210	125	90	75	80	167	110			9.2	
D161121	BT50×BSA90-300	125	90	75	80	257	110	25	M12	12.3	
D161122	BT50×BSA105-195	160	105	90	-	-	-				10.7
D161123	BT50×BSA105-285	160	105	90	94	-	130				15.0
D161124	BT50×BSA130-255	190	130	110	-	-	120				14.5

CNC tooling - BT 90° square cutter boring bar

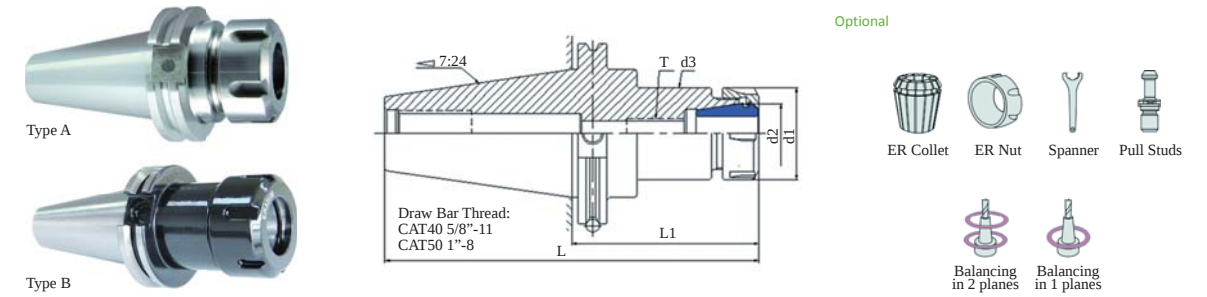


Order No.	Type	d1		d2	d3	L2	L3	W	T	N.W.(kg)
		Max	Min							
D171010	BT40×BSB25-120	52	25	20	22	90	35	8	M6	1.2
D171011	BT40×BSB38-150	70	38	30	33	120	55	10	M8	1.7
D171012	BT40×BSB50-165	90	50	40	44	135	70	13	M10	2.5
D171013	BT40×BSB62-180	115	62	50	56	150	80	16	M10	3.6
D171014	BT40×BSB90-180	150	90	75	-	150	115	19	M12	5.9
D171110	BT50×BSB25-135	52	25	20	22	92	35	8	M6	4.3
D171111	BT50×BSB38-180	70	38	30	32	137	55	10	M8	4.9
D171112	BT50×BSB50-180	90	50	40	44	137	70	8	M10	5.5
D171113	BT50×BSB50-240	90	50	40	44	197	70	10		5.8
D171114	BT50×BSB62-195	115	62	50	56	152	80	10		6.4
D171115	BT50×BSB62-270	115	62	50	56	227	80	10		7.8
D171116	BT50×BSB72-195	135	72	60	66	152	95	13	M12	7.3
D171117	BT50×BSB72-285	135	72	60	66	242	95	13		9.6
D171118	BT50×BSB90-210	150	90	75	80	167	115	13		9.7
D171119	BT50×BSB90-300	150	90	75	80	257	115	13		12.8
D171120	BT50×BSB105-195	190	105	90	90	-	-	16	M12	11.4
D171121	BT50×BSB105-285	190	105	90	94	-	135	16		15.7
D171122	BT50×BSB130-255	260	130	110	-	-	60	16		14.1

CNC tooling - CAT/ER collet chuck

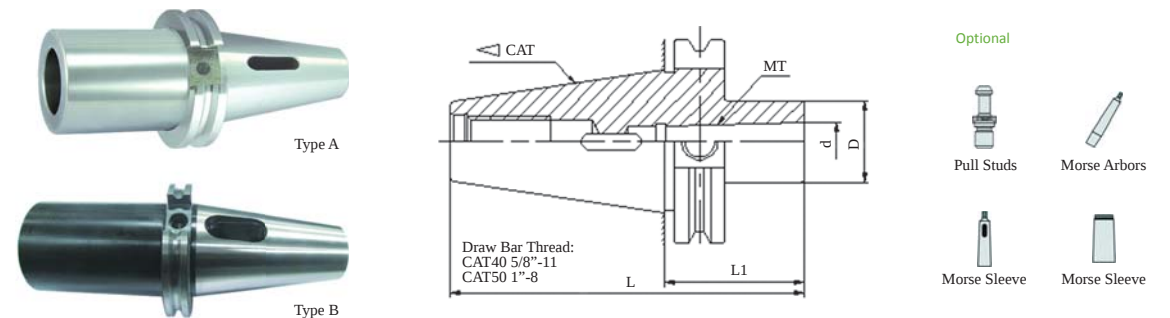
Order No.	Type	L	L1	d1	d2	d3	T	N.W.(kg)
D181010	CAT40×ER16-2.76"	5.447	2.76	1.102	0.63	1.75	M10×1.5P	1.05
D181011	CAT40×ER16-4"	6.687	4.00					1.35
D181012	CAT40×ER16-6"	8.687	6.00					1.65
D181013	CAT40×ER16-8"	10.687	8.00					1.85
D181014	CAT40×ER20-2.76"	5.447	2.76	1.339	0.788		M12×1.75P	1.25
D181015	CAT40×ER20-4"	6.687	4.00					1.65
D181016	CAT40×ER25-2.76"	5.447	2.76	1.654	0.984		M16×2.0P	1.35
D181017	CAT40×ER25-4"	6.687	4.00					1.70
D181018	CAT40×ER25-6"	8.687	6.00					2.25
D181019	CAT40×ER25-8"	10.687	8.00					2.55
D181020	CAT40×ER32-2.76"	5.447	2.76	1.969	1.26		M16×2.0P	1.25
D181021	CAT40×ER32-4"	6.687	4.00					1.75
D181022	CAT40×ER32-6"	8.687	6.00					2.15
D181023	CAT40×ER32-8"	10.687	8.00					2.65
D181024	CAT40×ER40-3.15"	5.837	3.15	2.48	1.575		M20×2.0P	1.80
D181025	CAT40×ER40-4"	6.687	4.00					2.05
D181026	CAT40×ER40-6"	8.687	6.00					3.30
D181027	CAT40×ER50-4"	6.687	4.00			3.07		1.969

CNC tooling - CAT/ER collet chuck (continued)



Order No.	Type	L	L1	d1	d2	d3	T	N.W.(kg)
D181110	CAT50×ER16-4"	8	4.00	1.102	0.63	2.75	M10×1.5P	4.10
D181111	CAT50×ER16-6"	10	6.00					4.28
D181112	CAT50×ER16-8"	12	8.00					4.40
D181113	CAT50×ER20-4"	8	4.00	1.339	0.788		M12×1.75P	4.20
D181114	CAT50×ER20-6"	10	6.00					4.45
D181115	CAT50×ER20-8"	12	8.00					4.60
D181116	CAT50×ER25-4"	8	4.00	1.654	0.984		M16×2.0P	4.15
D181117	CAT50×ER25-6"	10	6.00					4.50
D181118	CAT50×ER25-8"	12	8.00					4.70
D181119	CAT50×ER32-4"	8	4.00	1.969	1.26		M16×2.0P	4.35
D181120	CAT50×ER32-6"	10	6.00					4.60
D181121	CAT50×ER32-8"	12	8.00					4.90
D181122	CAT50×ER40-4"	8	4.00	2.48	1.575	M20×2.0P	4.25	
D181123	CAT50×ER40-6"	10	6.00				4.80	
D181124	CAT50×ER40-8"	12	8.00				5.10	
D181125	CAT50×ER50-4"	8	4.00	3.07	1.969	M24×2.0P	4.85	
D181126	CAT50×ER50-6"	10	6.00				5.55	
D181127	CAT50×ER50-8"	12	8.00				5.70	

CNC tooling - CAT/MTA morse taper adapters

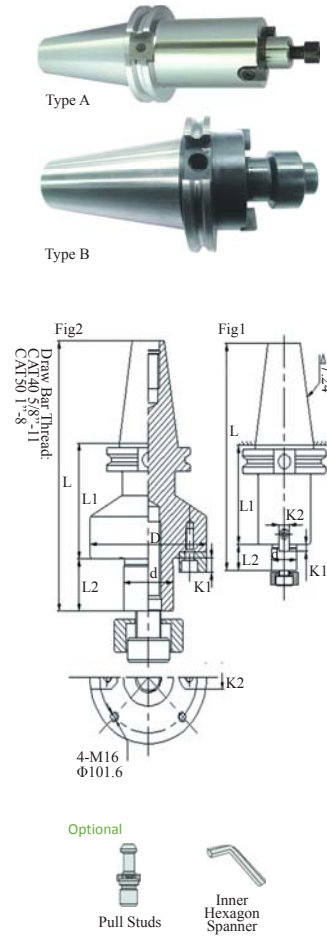


Order No.	Type	L	L1	D	d
D201010	CAT40×MTA1-1.60"	4.287	1.60	1.00	0.475
D201011	CAT40×MTA1-1.75"	4.437	1.75	1.00	0.475
D201012	CAT40×MTA2-2.00"	4.687	2.00	1.25	0.700
D201013	CAT40×MTA2-2.44"	5.127	2.44	1.25	0.700
D201014	CAT40×MTA3-2.75"	5.437	2.75	1.75	0.938
D201015	CAT40×MTA3-3.00"	5.687	3.00	1.75	0.938
D201016	CAT40×MTA4-3.75"	6.437	3.75	2.00	1.231

Order No.	Type	L	L1	D	d
D201110	CAT50×MTA4-3.38"	7.380	3.38	2.00	1.231
D201111	CAT50×MTA1-2.00"	6.000	2.00	1.00	0.475
D201112	CAT50×MTA2-2.00"	6.000	2.00	1.62	0.700
D201113	CAT50×MTA3-2.50"	6.500	2.50	1.62	0.938
D201114	CAT50×MTA4-3.30"	7.300	3.30	2.00	1.231
D201115	CAT50×MTA5-4.10"	8.100	4.10	2.75	1.748
D201116	CAT50×MTA5-4.62"	8.620	4.62	2.75	1.748

CNC tooling - CAT/FMA face mill arbors

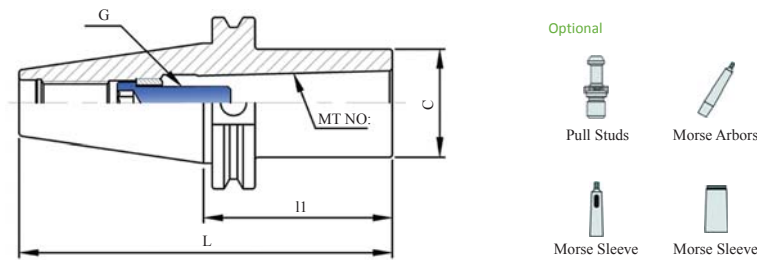
Order No.	Type	L	L1	L2	D	d	K1	K2
D191010	CAT40-FMA3/4"-1.38"	4.755	1.38	1.102	1.75	0.75	0.178	0.312
D191011	CAT40-FMA3/4"-1.5"	4.875	1.50		1.75	0.75	0.178	0.312
D191012	CAT40-FMA3/4"-4.00"	7.375	4.00		1.75	0.75	0.178	0.312
D191013	CAT40-FMA1"-1.5"	4.875	1.50		2.25	1.00	0.178	0.375
D191014	CAT40-FMA1"-2.06"	5.435	2.06		2.25	1.00	0.178	0.375
D191015	CAT40-FMA1"-4.00"	7.375	4.00		2.25	1.00	0.178	0.375
D191016	CAT40-FMA1-1/4"-1.62"	4.995	1.62	1.969	2.75	1.25	0.263	0.5
D191017	CAT40-FMA1-1/4"-2.21"	5.585	2.21		2.75	1.25	0.263	0.50
D191018	CAT40-FMA1-1/4"-4.00"	7.375	4.00		2.75	1.25	0.263	0.5
D191019	CAT40-FMA1-1/2"-2.21"	5.834	2.21		3.75	1.50	0.350	0.625
D191020	CAT40-FMA1-1/2"-2.40"	6.024	2.40		3.75	1.50	0.350	0.625
D191021	CAT40-FMA1-1/2"-4.00"	7.624	4.00		3.75	1.50	0.350	0.625
D191110	CAT50-FMA3/4"-1.50"	6.188	1.50	2.48	1.75	0.75	0.178	0.312
D191111	CAT50-FMA3/4"-3.50"	8.188	3.50		1.75	0.75	0.178	0.312
D191112	CAT50-FMA3/4"-5.50"	10.188	5.50		1.75	0.75	0.178	0.312
D191113	CAT50-FMA1"-2.00"	6.688	2.00		2.25	1.00	0.178	0.375
D191114	CAT50-FMA1"-4.00"	8.688	4.00		2.25	1.00	0.178	0.375
D191115	CAT50-FMA1"-6.00"	10.688	6.00		2.25	1.00	0.178	0.375
D191116	CAT50-FMA1-1/4"-1.50"	6.188	1.50	3.07	2.75	1.25	0.263	0.50
D191117	CAT50-FMA1-1/4"-3.50"	8.188	3.50		2.75	1.25	0.263	0.5
D191118	CAT50-FMA1-1/4"-5.50"	10.188	5.50		2.75	1.25	0.263	0.5
D191119	CAT50-FMA1-1/2"-2.40"	7.337	2.40		3.75	1.50	0.350	0.625
D191120	CAT50-FMA1-1/2"-4.00"	8.937	4.00		3.75	1.50	0.350	0.625
D191121	CAT50-FMA1-1/2"-6.00"	10.937	6.00		3.75	1.50	0.350	0.625
D191122	CAT50-FMA2"-2.40"	7.337	2.40	1.13	4.88	2.00	0.383	0.75
D191123	CAT50-FMA2"-4.00"	8.937	4.00		4.88	2.00	0.383	0.75
D191124	CAT50-FMA2"-6.00"	10.937	6.00		4.88	2.00	0.383	0.75
D191125	CAT50-FMA2-1/2"-2.40"	7.530	2.40		4.88	2.50	0.472	1
D191126	CAT50-FMA2-1/2"-4.00"	9.130	4.00		4.88	2.50	0.472	1



CNC tooling - CAT/MTB morse taper adapters

Order No.	Type	MT	L	C	G	N.W.(kg)
D211010	CAT30-MTB1-1.77	1	4.457	1	M6	0.55
D211011	CAT30-MTB2-2.36	2	5.05	1.25	M10	0.60
D211110	CAT40-MTB1-1.77	1	4.457	1	M6	1.05
D211111	CAT40-MTB2-1.77	2	4.457	1.25	M10	1.85
D211112	CAT40-MTB3-2.95	3	5.637	1.575	M12	1.30
D211113	CAT40-MTB4-3.54	4	6.227	1.875	M16	1.60

Order No.	Type	MT	L	C	G	N.W.(kg)
D211210	CAT50-MTB1-1.77	1	5.77	1	M6	3.80
D211211	CAT50-MTB2-1.77	2	5.77	1.25	M10	3.90
D211212	CAT50-MTB3-2.36	3	6.36	1.575	M12	3.90
D211213	CAT50-MTB4-2.95	4	6.95	2	M16	4.20
D211214	CAT50-MTB5-4.73	5	8.73	2.755	M24	4.30



CNC tooling - CAT jacobs taper arbor

Order No.	Type	L	L1	L2	D	d1
D221010	CAT40-JTA2-1.50"	5.062	1.5	0.875	2.5	0.559
D221011	CAT40-JTA2-1.57"	5.132	1.57	0.875		0.559
D221012	CAT40-JTA3-1.50"	5.407	1.5	1.22		0.811
D221013	CAT40-JTA4-1.50"	5.836	1.5	1.649		1.124
D221014	CAT40-JTA6-1.50"	5.187	1.5	1		0.676
D221015	CAT40-JTA6-1.57"	5.257	1.57	1		0.676
D221016	CAT40-JTA33-1.50"	5.187	1.5	1		0.624
D221017	CAT40-JTA33-1.57"	5.257	1.57	1		0.624

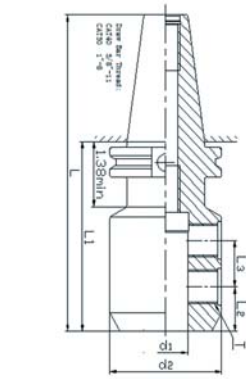
Order No.	Type	L	L1	L2	D	d1
D221110	CAT50-JTA2-1.50"	6.375	1.5	0.875	3.875	0.559
D221111	CAT50-JTA2-1.57"	6.445	1.57	0.875		0.559
D221112	CAT50-JTA3-1.50"	6.72	1.5	1.22		0.811
D221113	CAT50-JTA4-1.50"	7.149	1.5	1.649		1.124
D221114	CAT50-JTA6-1.50"	6.5	1.5	1		0.676
D221115	CAT50-JTA6-1.57"	6.570	1.57	1.000		0.676
D221116	CAT50-JTA33-1.50"	6.5	1.5	1		0.624
D221117	CAT50-JTA33-1.57"	6.570	1.57	1.000		0.624

CNC tooling - CAT / SLN end mill holder

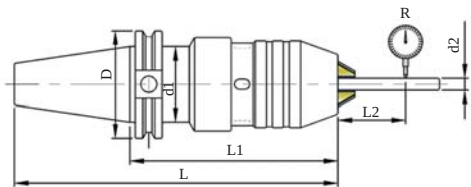
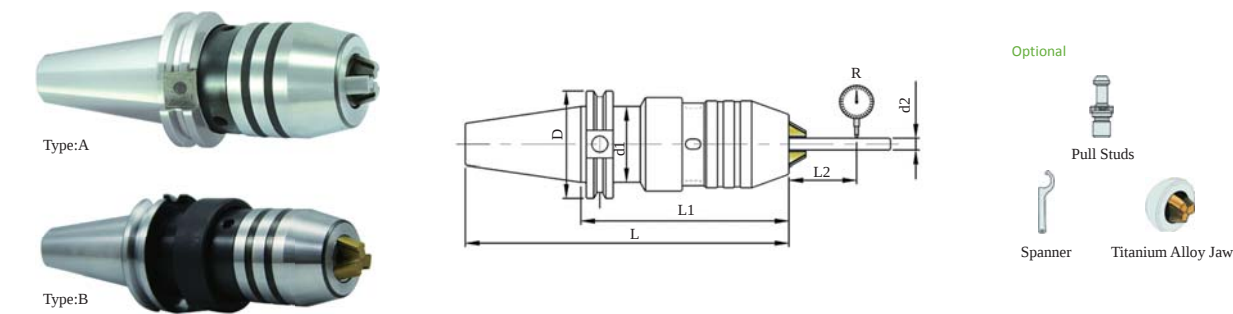
Order No.	Type	L	L1	L2	L3	d1	d2	T
D231010	CAT40-SLN1/8"-2.31"	4.997	2.31	0.370		1/8	0.79	3/16-24
D231011	CAT40-SLN1/8"-4.72"	7.407	4.72	0.370		1/8	0.787	3/16-24
D231012	CAT40-SLN3/16"-2.31"	4.997	2.31	0.562		3/16	0.984	1/4-20
D231013	CAT40-SLN3/16"-2.50"	5.187	2.50	0.562		3/16	0.984	1/4-20
D231014	CAT40-SLN3/16"-4.72"	7.407	4.72	0.562		3/16	0.984	1/4-20
D231015	CAT40-SLN1/4"-2.50"	5.187	2.50	0.630		1/4	1.38	1/4-20
D231016	CAT40-SLN1/4"-3.00"	5.687	3.00	0.630		1/4	1.38	1/4-20
D231017	CAT40-SLN5/16"-2.50"	5.187	2.50	0.630		5/16	1.38	5/16-18
D231018	CAT40-SLN5/16"-3.00"	5.687	3.00	0.630		5/16	1.38	5/16-18
D231019	CAT40-SLN5/16"-4.72"	7.407	4.72	0.630		5/16	1.38	5/16-18
D231020	CAT40-SLN3/8"-2.50"	5.187	2.50	0.750	1	3/8	1.535	3/8-16
D231021	CAT40-SLN3/8"-3.00"	5.687	3.00	0.750		3/8	1.535	3/8-16
D231022	CAT40-SLN1/2"-2.50"	5.187	2.50	0.875		1/2	1.75	7/16-14
D231023	CAT40-SLN1/2"-2.62"	5.307	2.62	0.875		1/2	1.75	7/16-14
D231024	CAT40-SLN1/2"-3.00"	5.687	3.00	0.875		1/2	1.75	7/16-14
D231025	CAT40-SLN9/16"-3.00"	5.687	3.00	0.875		9/16	1.75	7/16-14
D231026	CAT40-SLN5/8"-3.00"	5.687	3.00	0.937		5/8	1.85	1/2-13
D231027	CAT40-SLN5/8"-3.75"	6.437	3.75	0.937		5/8	1.85	1/2-13
D231028	CAT40-SLN3/4"-3.00"	5.687	3.00	1.000		3/4	1.929	5/8-11
D231029	CAT40-SLN3/4"-3.50"	6.187	3.50	1.000		3/4	1.929	5/8-11
D231030	CAT40-SLN3/4-3.75	6.437	3.75	1.000	1	3/4	1.929	5/8-11
D231031	CAT40-SLN7/8"-3.50"	6.187	3.50	1.063		7/8	2.36	5/8-11
D231032	CAT40-SLN1"-4.00"	6.687	4.00	1.125		1	2.56	3/4-10
D231033	CAT40-SLN1-1/4"-4.25"	6.937	4.25	1.125		1-1/4	2.56	3/4-10
D231034	CAT40-SLN1-1/4"-4.60"	7.287	4.60	1.125		1-1/4	2.56	3/4-10

■ CNC tooling - CAT / SLN end mill holder

Order No.	Type	L	L1	L2	L3	d1	d2	T
D231110	CAT50-SLN1/8"-4.00"	8	4.00	0.563	-	1/8	0.75	3/16-24
D231111	CAT50-SLN3/16"-4.00"	8	4.00	0.563		3/16	0.75	1/4-20
D231112	CAT50-SLN1/4"-2.50"	6.5	2.50	0.781		1/4	0.8125	1/4-20
D231113	CAT50-SLN1/4"-4.00"	8	4.00	0.781		1/4	0.8125	1/4-20
D231114	CAT50-SLN5/16"-4.00"	8	4.00	0.781		5/16	0.875	5/16-18
D231115	CAT50-SLN7/16"-4.00"	8	4.00	0.875		7/16	1.25	3/8-16
D231116	CAT50-SLN9/16"-4.00"	8	4.00	0.880		9/16	1.38	7/16-14
D231117	CAT50-SLN3/8"-2.50"	6.5	2.50	0.781		3/8	1	3/8-16
D231118	CAT50-SLN3/8"-4.00"	8	4.00	0.781		3/8	1	3/8-16
D231119	CAT50-SLN1/2"-2.63"	6.63	2.63	0.875		1/2	1.38	7/16-14
D231120	CAT50-SLN1/2"-4.00"	8	4.00	0.875	0.875	1/2	1.38	7/16-14
D231121	CAT50-SLN1/2"-4.62"	8.62	4.62	0.875		1/2	1.38	7/16-14
D231122	CAT50-SLN5/8"-3.00"	7	3.00	0.938		5/8	1.75	1/2-13
D231123	CAT50-SLN5/8"-3.75"	7.75	3.75	0.938		5/8	1.75	1/2-13
D231124	CAT50-SLN5/8"-4.00"	8	4.00	0.938		5/8	1.75	1/2-13
D231125	CAT50-SLN3/4"-3.75"	7.75	3.75	1.000		3/4	1.75	5/8-11
D231126	CAT50-SLN3/4"-4.00"	8	4.00	1.000		3/4	1.75	5/8-11
D231127	CAT50-SLN7/8"-3.75"	7.75	3.75	1.063		7/8	2.047	5/8-11
D231128	CAT50-SLN7/8"-4.00"	8	4.00	1.063		7/8	2.047	5/8-11
D231129	CAT50-SLN1"-4.00"	8	4.00	1.125	1	1	2.375	3/4-10
D231130	CAT50-SLN1-1/4"-4.00"	8	4.00	1.125		1-1/4	2.75	3/4-10
D231131	CAT50-SLN1-1/4"-4.60"	8.6	4.60	1.125		1-1/4	2.75	3/4-10
D231132	CAT50-SLN1-1/2"-4.00"	8	4.00	1.125		1-1/2	3.14	3/4-10
D231133	CAT50-SLN1-1/2"-4.25"	8.25	4.25	1.125		1-1/2	3.14	3/4-10
D231134	CAT50-SLN1-1/2"-4.60"	8.6	4.60	1.125		1-1/2	3.140	3/4-10
D231135	CAT50-SLN1-3/4"-4.00"	8	4.00	1.125		1-3/4	3.14	3/4-10
D231136	CAT50-SLN2"-5.63"	9.63	5.63	1.188	1.438	2	3.938	3/4-10
D231137	CAT50-SLN2"-6.00"	10	6.00	1.188		2	3.938	3/4-10

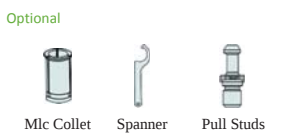
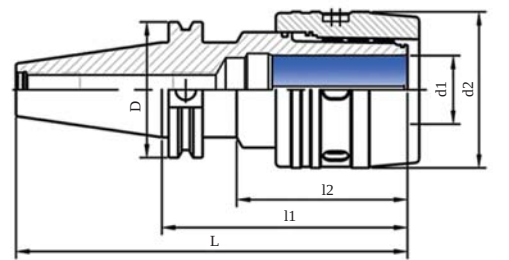
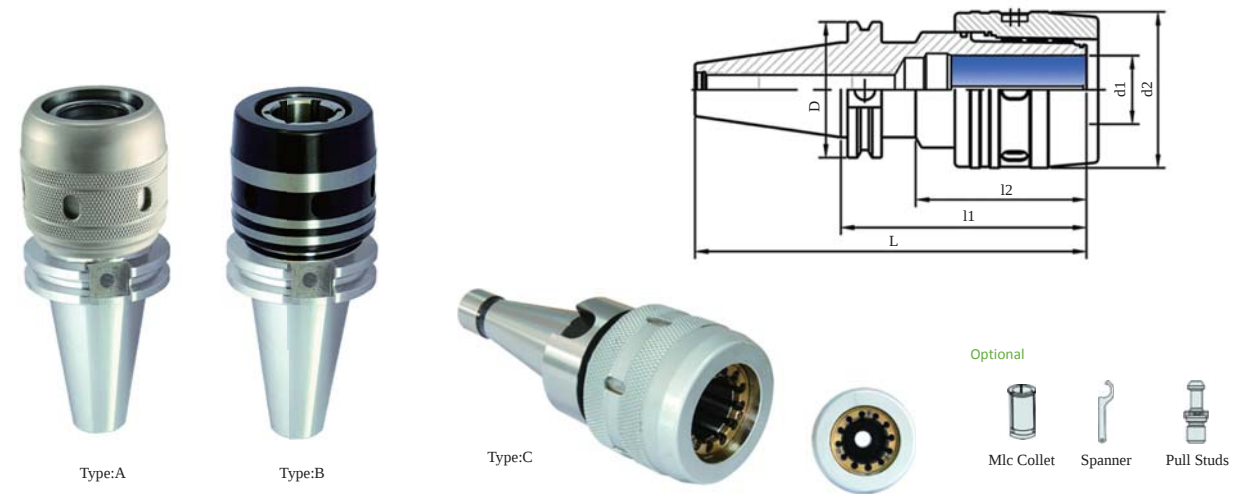


■ CNC tooling - APU keyless drill chuck with CAT shank



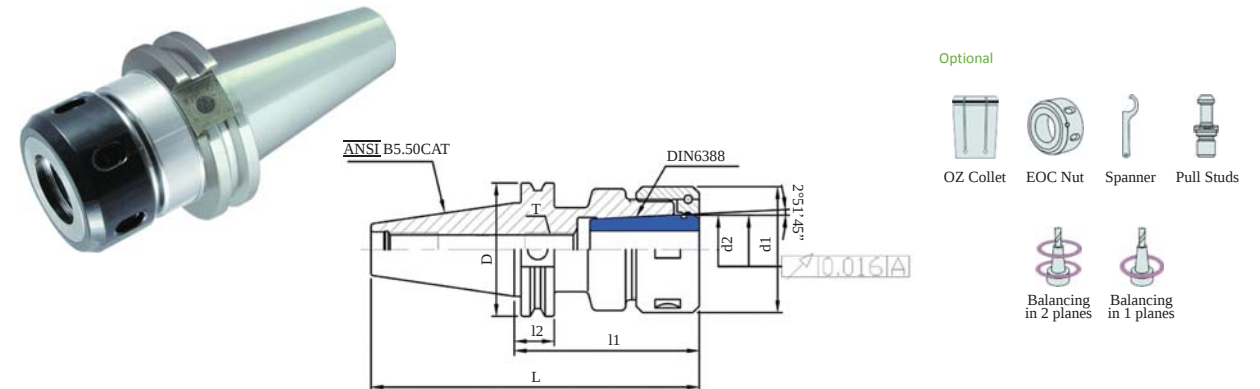
Order No.	Type	L	L2	D	d1	d2	R	N.W.(kg)
D241010	CAT40×SPU5/16-3.75"	6.44	2.16	2.5	1.65	0.240	0.04	1.85
D241011	CAT40×SPU1/2-4.75"	7.44	2.95		2.13	0.510		2.10
D241012	CAT40×SPU5/8-6"	8.69	3.15		2.44	0.51		2.95
D241110	CAT50×SPU5/16-4"	8	2.16		1.65	0.24		2.10
D241111	CAT50×SPU1/2-4.25"	8.25	2.95	3.875	2.13	0.51		2.85
D241112	CAT50×SPU5/8-4.5"	8.5	3.15		2.44	0.51		3.45

■ CNC tooling - CAT milling chuck



Order No.	Type	L	L1	L2	D	d1	d2	N.W.(kg)
D251010	CAT40×MLC3/4"-3.385"	6.07	3.385	2.56	2.5	0.75	2.17	1.9
D251011	CAT40×MLC3/4"-4.13"	6.82	4.13	2.56		0.75	2.17	2.1
D251012	CAT40×MLC1-1/4-4.53"	7.22	3.385	2.76		1.25	2.87	2.4
D251110	CAT50×MLC3/4"-4.13"	8.13	4.13	2.56	3.875	0.75	2.17	2.5
D251111	CAT50×MLC1-1/4"-4.13"	8.13	4.13	2.76		1.25	2.87	2.8

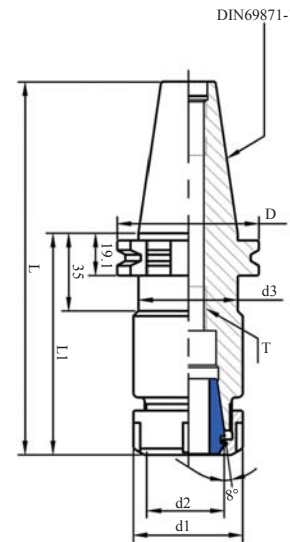
■ CNC tooling - CAT/EOC(OZ) collet chuck



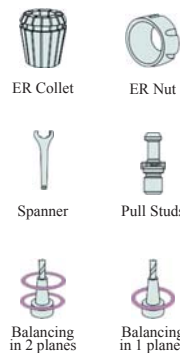
Order No.	Type	L	L2	D	d1	d2	T	N.W.(kg)			
D261010	CAT40×EOC25-3.15"	5.837	1.375	2.5	2.362	1.295	M16×2.0P	1.55			
D261011	CAT40×EOC25-4"	6.687			2.835	1.626	M20×2.0P	2.55			
D261012	CAT40×EOC32-3.15"	5.837						1.95			
D261013	CAT40×EOC32-4"	6.687			3.362	1.295	M16×2.0P	2.35			
D261110	CAT50×EOC25-3.15"	7.15	1.375	3.875				2.835	1.626	M20×2.0P	3.25
D261111	CAT50×EOC25-4"	8									5.30
D261112	CAT50×EOC25-6"	10						2.835	1.626	M20×2.0P	4.40
D261113	CAT50×EOC32-3.15"	7.15									5.70
D261114	CAT50×EOC32-4.70"	8.7						6.10			

■ CNC tooling - SK/ER coller chuck

Order No.	Type	L	D	d1	d2(ER)	d3(MAX)	T	N.W.(kg)
D321010	DAT30×ER11-80	127.8	50	19	11	45	M10×1.5P	0.60
D321011	DAT30×ER16-63	110.8		28	16			0.70
D321012	DAT30×ER16-120	167.8						0.85
D321013	DAT30×ER20-63	110.8		34	20		M12×1.75P	0.80
D321014	DAT30×ER20-120	167.8						1.05
D321015	DAT30×ER25-63	110.8		42	25		M16×2.0P	0.85
D321016	DAT30×ER32-63	110.8		50	32			0.90
D321110	DAT40×ER11-80	148.4	63.55	19	11	50	M10×1.5P	1.05
D321111	DAT40×ER11-125	193.4						1.15
D321112	DAT40×ER16-70	138.4						1.30
D321113	DAT40×ER16-100	168.4		28	16			1.40
D321114	DAT40×ER16-125	193.4						1.60
D321115	DAT40×ER16-150	218.4						1.65
D321116	DAT40×ER16-180	248.4						1.85
D321117	DAT40×ER20-70	138.4					M12×1.75P	1.40
D321118	DAT40×ER20-100	168.4		34	20			1.50
D321119	DAT40×ER20-135	203.4						1.95
D321120	DAT40×ER20-160	228.4						2.20
D321121	DAT40×ER25-70	138.4					M16×2.0P	1.60
D321122	DAT40×ER25-100	168.4		42	25			1.85
D321123	DAT40×ER25-150	218.4						2.25
D321124	DAT40×ER25-180	248.4						2.45
D321125	DAT40×ER25-200	268.4						2.55
D321126	DAT40×ER32-70	138.4						1.60
D321127	DAT40×ER32-100	168.4		50	32			2.00
D321128	DAT40×ER32-135	203.4						2.15
D321129	DAT40×ER32-150	218.4						2.65
D321130	DAT40×ER40-70	138.4					M20×2.0P	1.50
D321131	DAT40×ER40-100	168.4		63	40			2.00
D321132	DAT40×ER40-150	218.4						3.30
D321210	DAT50×ER16-100	201.75				M10×1.5P		3.20
D321211	DAT50×ER16-135	236.75		28	16			4.30
D321212	DAT50×ER16-160	261.75						4.50
D321213	DAT50×ER16-180	281.75					M12×1.75P	4.80
D321214	DAT50×ER20-100	201.75		34	20			3.40
D321215	DAT50×ER20-135	236.75						3.60
D321216	DAT50×ER20-160	261.75	97.5			M16×2.0P		3.80
D321217	DAT50×ER25-70	171.75						3.40
D321218	DAT50×ER25-100	201.75		42	25			4.15
D321219	DAT50×ER25-150	251.75						4.50
D321220	DAT50×ER25-200	301.75						4.70
D321221	DAT50×ER32-80	181.75						3.60
D321222	DAT50×ER32-120	221.75				M20×2.0P		4.60
D321223	DAT50×ER32-160	261.75		50	32			4.75
D321224	DAT50×ER32-200	301.75						4.90
D321225	DAT50×ER40-80	181.75						3.65
D321226	DAT50×ER40-120	221.75		63	40			4.80
D321227	DAT50×ER40-160	261.75						5.20
D321228	DAT50×ER40-200	301.75						5.40

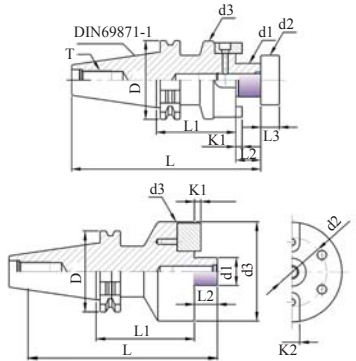


Optional

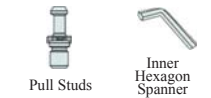


■ CNC tooling - SK/FMA(FMB) face mill arbors

Order No.	Type	L	I2	I3	d2	d3	K1	K2	N.W.(kg)
D331010	DAT40×FMA3/4"-1.5"	4.879	0.687	0.512	0.925	1.75	0.188	0.3125	1.50
D331011	DAT40×FMA1"-2.06"	5.439		0.63	1.240	1.969	0.188	0.375	2.40
D331012	DAT40×FMA1-1/4"-2.21"	5.589		0.63	1.614	2.362	0.25	0.50	2.60
D331013	DAT40×FMA1-1/2"-2.21"	5.835	0.938	0.807	1.752	2.953	0.349	0.625	2.70
D331110	DAT50×FMA3/4"-1.50"	6.187	0.687	0.512	0.925	1.766	0.188	0.3725	4.20
D331111	DAT50×FMA1"-2.00"	6.687		0.63	1.240	1.969	0.188	0.375	4.50
D331112	DAT50×FMA1-1/4"-1.50"	6.187		0.63	1.614	1.75	0.25	0.50	4.70
D331113	DAT50×FMA1-1/2"-2.40"	7.338	0.938	0.807	1.752	2.953	0.349	0.625	5.00
D331114	DAT50×FMA2"-2.40"			0.807	2.50	3.858	0.384	0.75	5.40

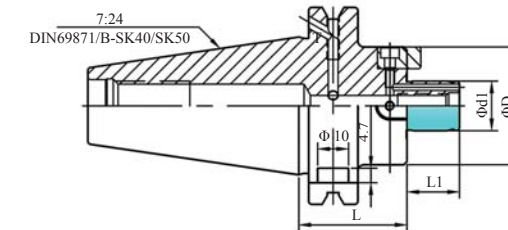


Optional



Order No.	Type	L	I2	I3	d2	d3	K1	K2	N.W.(kg)
D341010	DAT30×FMB22-35	100.8	18	14	26	47	4.8	10	1.00
D341011	DAT30×FMB27-35	102.8	20	16	31.5	58	5.8	12	1.05
D341110	DAT40×FMB22-35	121.4	18	14	26	47	4.8	10	1.20
D341111	DAT40×FMB27-60	148.4	20	16	31.5	58	5.8	12	1.80
D341112	DAT40×FMB32-60	150.4	22	16	41	66	6.8	14	2.30
D341113	DAT40×FMB40-60	153.4	25	20.5	48	82	8.3	16	2.80
D341210	DAT50×FMB22-35	154.75	18	14	26	47	4.8	10	3.40
D341211	DAT50×FMB27-35	156.75	20	16	31.5	58	5.8	12	3.50
D341212	DAT50×FMB32-35	158.75	22	16	41	66	6.8	14	3.70
D341213	DAT50×FMB40-50	176.75	25	20.5	48	82	8.3	16	4.70
D341214	DAT50×FMB50-60	191.75	30	25	68	95	9.7	19	5.80
D341310	DAT40×FMB40F-60	158.4	30	66.7	M12	89	8.3	15.9	2.9
D341410	DAT50×FMB40F-70	201.75	30	66.7	M12	89	8.3	15.9	5.5
D341411	DAT50×FMB60F-70	211.75	40	101.6	M16	129	12.5	25.4	5.7
D341510	DAT40×FS40-60	154.4	26	66.7	50	110	8.3	16	3.2
D341610	DAT50×FS40-70	197.75	26	66.7	50	110	8.3	16	5.7
D341611	DAT50×FS60-70	196.75	25	101.6	M16	140	12.5	25.4	5.5

■ CNC tooling - SK/FMC face mill arbors with coolant



Optional



Order No.	Type	Φd1	ΦD	L1	L
D601010	SK40-FMC16-35	16	38	17	35
D601011	SK40-FMC22-35	22	48	19	35
D601012	SK40-FMC27-35	27	58	21	35
D601013	SK40-FMC32-50	32	78	24	50
D601014	SK40-FMC40-60	40	80	27	60
D601110	SK50-FMC16-35	16	38	17	35
D601111	SK50-FMC22-55	22	48	19	55

Order No.	Type	Φd1	ΦD	L1	L
D601112	SK50-FMC22-100	22	48	19	100
D601113	SK50-FMC27-55	27	58	21	55
D601114	SK50-FMC27-100	27	58	21	100
D601115	SK50-FMC32-50	32	78	24	55
D601116	SK50-FMC32-100	32	78	24	100
D601117	SK50-FMC40-55	40	80	27	55
D601118	SK50-FMC40-100	40	80	27	100

CNC tooling - SK/CMA combi shell face mill arbor

Optional

Pull Studs
Inner Hexagon Spanner

Order No.	Type	Φd1	ΦD	L1	L2	L
D591010	SK40-CMA16-55	16	32	27	17	55
D591011	SK40-CMA16-100	16	32	27	17	100
D591012	SK40-CMA22-55	22	40	31	19	55
D591013	SK40-CMA22-100	22	40	31	19	100
D591014	SK40-CMA27-55	27	48	33	21	55
D591015	SK40-CMA27-100	27	48	33	21	100
D591016	SK40-CMA32-60	32	58	38	24	60
D591017	SK40-CMA32-100	32	58	38	24	100
D591018	SK40-CMA40-60	40	70	41	27	60
D591019	SK40-CMA40-100	40	70	41	27	100

Order No.	Type	Φd1	ΦD	L1	L2	L
D591110	SK50-CMA16-55	16	32	27	17	55
D591111	SK50-CMA16-100	16	32	27	17	100
D591112	SK50-CMA22-55	22	40	31	19	55
D591113	SK50-CMA22-100	22	40	31	19	100
D591114	SK50-CMA27-55	27	48	33	21	55
D591115	SK50-CMA27-100	27	48	33	21	100
D591116	SK50-CMA32-55	32	58	38	24	55
D591117	SK50-CMA32-100	32	58	38	24	100
D591118	SK50-CMA40-70	40	70	41	27	70
D591119	SK50-CMA40-100	40	70	41	27	100

CNC tooling - SK/MTA morse taper adapter

Optional

Pull Studs
Morse Arbors
Morse Sleeve

Order No.	Type	L	I1	D	d1	d2	N.W.(kg)
D351010	DAT30×MTA1-50	97.8	50	50	25	12.065	0.55
D351011	DAT30×MTA2-60	107.8	60	50	32	17.780	0.80
D351012	DAT30×MTA3-75	122.8	75	50	40	23.825	1.00
D351110	DAT40×MTA1-50	118.4	50	63.55	25	12.065	1.20
D351111	DAT40×MTA2-50	118.4	50	63.55	32	17.780	1.00
D351112	DAT40×MTA3-70	138.4	70	63.55	40	23.825	1.10

Order No.	Type	L	I1	D	d1	d2	N.W.(kg)
D351113	DAT40×MTA4-95	163.4	95	63.55	48	31.267	1.35
D351210	DAT50×MTA1-45	146.75	45	97.50	25	12.065	3.00
D351211	DAT50×MTA2-60	161.75	60	97.50	32	17.780	3.10
D351212	DAT50×MTA3-65	166.75	65	97.50	40	23.825	3.20
D351213	DAT50×MTA4-95	196.75	95	97.50	48	31.267	3.40
D351214	DAT50×MTA5-105	206.75	105	97.50	63	44.399	3.60

CNC tooling - SK/MTB morse taper adapter

Optional

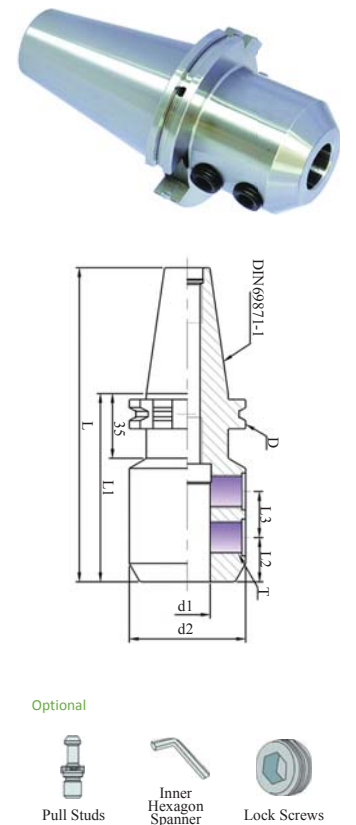
Pull Studs
Morse Arbors
Morse Sleeve

Order No.	Type	MT	L	d1	G	N.W.(kg)
D361010	DAT30-MTB1-45	1	92.8	25	M6	0.55
D361011	DAT30-MTB2-60	2	107.8	32	M10	0.60

Order No.	Type	MT	L	d1	G	N.W.(kg)
D361110	DAT40-MTB1-45	1	128.4	25	M6	1.05
D361111	DAT40-MTB2-45	2	128.4	32	M10	1.85
D361112	DAT40-MTB3-75	3	143.4	40	M12	1.30
D361113	DAT40-MTB4-90	4	158.4	48	M16	1.60
D361210	DAT50-MTB1-45	1	146.75	25	M6	3.80
D361211	DAT50-MTB2-45	2	146.75	32	M10	3.90
D361212	DAT50-MTB3-60	3	161.75	40	M12	3.90
D361213	DAT50-MTB4-75	4	176.75	50	M16	4.20
D361214	DAT50-MTB5-120	5	221.75	70	M24	4.30

CNC tooling - SK/SLN sidelock and mill holder

Order No.	Type	L	L2	L3	t1	d2	T	N.W.(kg)
D371010	DAT30×SLN6-50	97.8	18	-	M5	25	M6×1.0P	0.73
D371011	DAT30×SLN8-50	97.8	18	-	M6	28	M8×1.25P	0.80
D371012	DAT30×SLN10-50	97.8	20	-	M8	35	M10×1.5P	0.90
D371013	DAT30×SLN12-50	97.8	22.5	-	M10	42	M12×1.75P	0.90
D371014	DAT30×SLN16-63	110.8	24	-	M12	48	M14×2.0P	1.10
D371110	DAT40×SLN6-50	118.4	18	-	M5	25	M6×1.0P	0.85
D371111	DAT40×SLN8-50	118.4	18	-	M6	28	M8×1.25P	1.00
D371112	DAT40×SLN10-50	118.4	20	-	M8	35	M10×1.5P	1.10
D371113	DAT40×SLN12-50	118.4	22.5	-	M10	42	M10×1.75P	1.15
D371114	DAT40×SLN16-63	131.4	24	-	M12	48	M14×2.0P	1.40
D371115	DAT40×SLN20-63	131.4	25	-	M16	52	M16×2.0P	1.30
D371116	DAT40×SLN25-100	168.4	24	25	M20	65	M18×2.0P	2.40
D371117	DAT40×SLN32-100	168.4	24	28	M20	72	M20×2.0P	2.70
D371210	DAT50×SLN6-63	164.75	18	-	M5	25	M6×1.0P	3.10
D371211	DAT50×SLN8-63	164.75	18	-	M6	28	M8×1.25P	3.10
D371212	DAT50×SLN10-63	164.75	20	-	M8	35	M10×1.5P	3.30
D371213	DAT50×SLN12-63	164.75	22.5	-	M10	42	M12×1.75P	3.50
D371214	DAT50×SLN16-63	164.75	24	-	M12	48	M14×2.0P	3.45
D371215	DAT50×SLN20-63	164.75	25	-	M16	52	M16×2.0P	3.50
D371216	DAT50×SLN25-80	181.75	24	25	M20	65	M18×2.0P	4.20
D371217	DAT50×SLN32-100	201.75	24	25	M20	72	M20×2.0P	5.00
D371218	DAT50×SLN40-100	201.75	30	32	M20	90	M20×2.0P	5.60
D371219	DAT50×SLN42-100	201.75	30	32	M20	90	M20×2.0P	5.70
D371220	DAT50×SLN50-125	226.75	35	35	M20	100	M20×2.0P	5.90
D371221	DAT50×SLN63-150	251.75	40	40	M20	125	M20×2.0P	6.20
D371222	DAT50×SLN63-150	251.75	40	24	M20	125	M16×2.0P	6.20

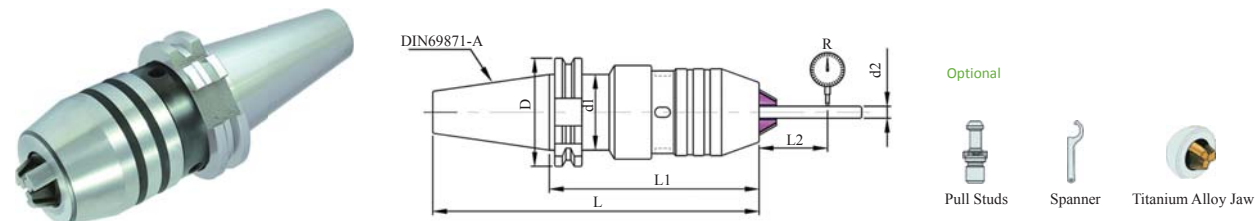


CNC tooling - SK/SLN sidelock end mill holder with coolant

Order No.	Type	Φd1	ΦD	L1	FIG
D611010	SK40-SLN06-50(B)	06	25	50	2
D611011	SK40-SLN08-50(B)	08	28	50	2
D611012	SK40-SLN10-63(B)	10	35	63	2
D611013	SK40-SLN12-63(B)	12	42	63	2
D611014	SK40-SLN14-63(B)	14	44	63	2
D611015	SK40-SLN16-63(B)	16	48	63	2
D611016	SK40-SLN18-63(B)	18	50	63	2
D611017	SK40-SLN20-63(B)	20	52	63	1
D611018	SK40-SLN25-90(B)	25	65	90	1
D611019	SK40-SLN32-100(B)	32	72	100	3

Order No.	Type	Φd1	ΦD	L1	FIG
D611110	SK50-SLN06-50(B)	6	25	50	2
D611111	SK50-SLN08-50(B)	8	28	50	2
D611112	SK50-SLN10-63(B)	10	35	63	2
D611113	SK50-SLN12-63(B)	12	42	63	2
D611114	SK50-SLN14-63(B)	14	44	63	2
D611115	SK50-SLN16-63(B)	16	48	63	2
D611116	SK50-SLN18-63(B)	18	50	63	2
D611117	SK50-SLN20-63(B)	20	52	63	2
D611118	SK50-SLN25-90(B)	25	65	90	3
D611119	SK50-SLN32-105(B)	32	72	105	3

CNC tooling - SK/APU keyless drill chuck with SK shank



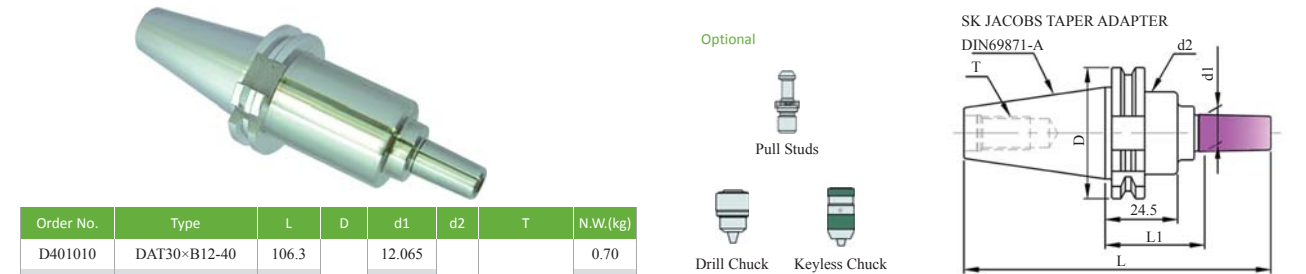
Order No.	Type	L1	L	L2	D	d1	d2	R	N.W.(kg)
D381010	DAT30×SPU8-80	80	127.8	55	50	37	8	0.04	0.60
D381011	DAT30×SPU13-120	120	167.8	75	50	50	13	0.04	1.45
D381012	DAT30×SPU16-125	125	172.8	80	50	57	16	0.04	1.78
D381110	DAT40×SPU8-75	75	143.4	55	63.55	37	8	0.04	1.46
D381111	DAT40×SPU13-100	100	168.4	75	63.55	50	13	0.04	2.00
D381112	DAT40×SPU16-115	105	173.4	80	63.55	57	16	0.04	2.33
D381310	DAT50×SPU8-75	75	176.75	55	97.50	37	8	0.04	3.86
D381311	DAT50×SPU13-100	100	201.75	75	97.50	50	13	0.04	4.40
D381312	DAT50×SPU16-105	105	206.75	80	97.50	57	16	0.04	4.73

CNC tooling - SK milling chuck



Order No.	Type	L	L1	L2	D	d1	d2	N.W.(kg)
D391010	DAT30×MLC20-85	132.80	85	70	50	20	55	1.9
D391011	DAT30×MLC20-100	147.80	100	70	50	20	55	2.1
D391110	DAT40×MLC20-85	153.40	85	70	63.55	20	55	2.4
D391111	DAT40×MLC20-100	168.40	100	70	63.55	20	55	2.5
D391112	DAT40×MLC20-135	203.40	135	70	63.55	20	55	2.8
D391113	DAT40×MLC32-105	173.40	105	75	63.55	32	73	2.7
D391210	DAT30×MLC32-135	203.40	135	75	63.55	32	73	3.0
D391310	DAT50×MLC20-105	206.75	105	70	97.50	20	55	4.5
D391311	DAT50×MLC20-150	251.75	150	70	97.50	20	55	4.9
D391312	DAT50×MLC32-110	211.75	110	75	97.50	32	73	5.2
D391313	DAT50×MLC32-135	236.75	135	75	97.50	32	73	5.9
D391314	DAT50×MLC42-110	211.75	110	90	97.50	95	95	6.0

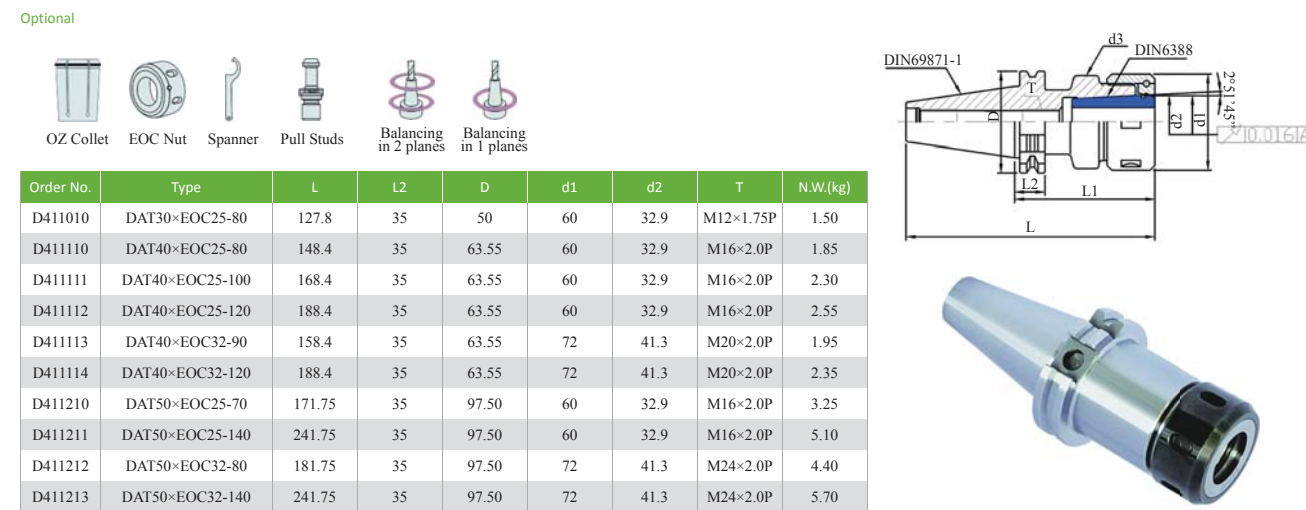
CNC tooling - SK jacobs taper arbor



Order No.	Type	L	D	d1	d2	T	N.W.(kg)
D401010	DAT30×B12-40	106.3		12.065			0.70
D401011	DAT30×B16-40	111.8	50	15.733	45	M12×1.75P	0.85
D401012	DAT30×JTA6-40	113.2		17.17			0.90
D401110	DAT40×B12-40	126.9		12.065			1.25
D401111	DAT40×B16-40	132.4	63.55	15.733	50	M16×2.0P	1.30
D401112	DAT40×B18-40	140.4		17.780			1.40
D401113	DAT40×JTA6-40	133.8		17.170			1.30

Order No.	Type	L	D	d1	d2	T	N.W.(kg)
D401210	DAT50×B12-40	160.25		12.065			3.10
D401211	DAT50×B16-40	165.75	97.5	15.733	80	M24×2.0P	3.20
D401212	DAT50×B18-40	173.75		17.780			3.30
D401213	DAT50×JTA6-40	165.75		17.170			3.40

CNC tooling - SK/EOC (OZ) collet chuck



Order No.	Type	L	L2	D	d1	d2	T	N.W.(kg)
D411010	DAT30×EOC25-80	127.8	35	50	60	32.9	M12×1.75P	1.50
D411110	DAT40×EOC25-80	148.4	35	63.55	60	32.9	M16×2.0P	1.85
D411111	DAT40×EOC25-100	168.4	35	63.55	60	32.9	M16×2.0P	2.30
D411112	DAT40×EOC25-120	188.4	35	63.55	60	32.9	M16×2.0P	2.55
D411113	DAT40×EOC32-90	158.4	35	63.55	72	41.3	M20×2.0P	1.95
D411114	DAT40×EOC32-120	188.4	35	63.55	72	41.3	M20×2.0P	2.35
D411210	DAT50×EOC25-70	171.75	35	97.50	60	32.9	M16×2.0P	3.25
D411211	DAT50×EOC25-140	241.75	35	97.50	60	32.9	M16×2.0P	5.10
D411212	DAT50×EOC32-80	181.75	35	97.50	72	41.3	M24×2.0P	4.40
D411213	DAT50×EOC32-140	241.75	35	97.50	72	41.3	M24×2.0P	5.70

CNC tooling - BT milling chuck set

Order No.	Type	Clamping range	Wrench
D1001010	BT30×SC20×5	6-16mm	Φ6, Φ8, Φ10, Φ12, Φ16
D1001011	BT40×SC20×5		
D1001012	BT50×SC20×5		
D1001110	BT30×SC25×7	4-20mm	Φ4, Φ6, Φ8, Φ10, Φ12, Φ16, Φ20
D1001111	BT40×SC25×7		
D1001112	BT50×SC25×7		
D1001210	BT30×SC32×7	6-25mm	Φ6, Φ8, Φ10, Φ12, Φ16, Φ20, Φ25
D1001211	BT40×SC32×7		
D1001212	BT50×SC32×7		
D1001310	BT30×SC42×8	6-32mm	Φ6, Φ8, Φ10, Φ12, Φ16, Φ20, Φ25, Φ32
D1001311	BT40×SC42×8		
D1001312	BT50×SC42×8		



■ CNC tooling - ER collet chuck set

□ we could supply different kind of ER collet set, such as BT-ER, CAT-ER and SK-ER.

Order No.	Type	Clamping range	Wrench
D971010	BT30×ER11×7	1-7mm	Φ1, Φ2, Φ3, Φ4, Φ5, Φ6, Φ7
D971011	BT40×ER11×7		
D971012	BT50×ER11×7		
D971013	BT30×ER11×13		
D971014	BT40×ER11×13		
D971015	BT50×ER11×13	1+0.5-7mm	Φ1, Φ1.5, Φ2, Φ2.5, Φ3, Φ3.5, Φ4, Φ4.5, Φ5, Φ5.5, Φ6, Φ6.5, Φ7
D971110	BT30×ER16×10	1-10mm	Φ1, Φ2, Φ3, Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10
D971111	BT40×ER16×10		
D971112	BT50×ER16×10		
D971113	BT30×ER16×8	3-10mm	Φ3, Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10
D971114	BT40×ER16×8		
D971115	BT50×ER16×8		
D971210	BT30×ER20×12	2-13mm	Φ2, Φ3, Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10, Φ11, Φ12, Φ13
D971211	BT40×ER20×12		
D971212	BT50×ER20×12		
D971213	BT30×ER20×10	4-13mm	Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10, Φ11, Φ12, Φ13
D971214	BT40×ER20×10		
D971215	BT50×ER20×10		
D971310	BT30×ER25×15	2-16mm	Φ2, Φ3, Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10, Φ11, Φ12, Φ13, Φ14, Φ15, Φ16
D971311	BT40×ER25×15		
D971312	BT50×ER25×15		
D971313	BT30×ER25×13	4-16mm	Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10, Φ11, Φ12, Φ13, Φ14, Φ15, Φ16
D971314	BT40×ER25×13		
D971315	BT50×ER25×13		



Order No.	Type	Clamping range	Wrench
D971316	BT30×ER25×5	6-16mm	Φ6, Φ8, Φ10, Φ12, Φ16
D971317	BT40×ER25×5		
D971318	BT50×ER25×5	4-16mm	Φ4, Φ6, Φ8, Φ10, Φ12, Φ16
D971319	BT30×ER25×7		
D971320	BT40×ER25×7		
D971321	BT50×ER25×7	3-20mm	Φ3, Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10, Φ11, Φ12, Φ13, Φ14, Φ15, Φ16, Φ17, Φ18, Φ19, Φ20
D971410	BT30×ER32×18		
D971411	BT40×ER32×18	4-20mm	Φ4, Φ5, Φ6, Φ8, Φ10, Φ12, Φ13, Φ15, Φ16, Φ18, Φ20
D971412	BT50×ER32×18		
D971413	BT30×ER32×11	6-20mm	Φ6, Φ8, Φ10, Φ12, Φ16, Φ20
D971414	BT40×ER32×11		
D971415	BT50×ER32×11	4-26mm	Φ4, Φ5, Φ6, Φ7, Φ8, Φ9, Φ10, Φ11, Φ12, Φ13, Φ14, Φ15, Φ16, Φ17, Φ18, Φ19, Φ20, Φ21, Φ22, Φ23, Φ24, Φ25, Φ26
D971416	BT30×ER32×6		
D971417	BT40×ER32×6	4-26mm	Φ4, Φ5, Φ6, Φ8, Φ10, Φ12, Φ13, Φ15, Φ16, Φ18, Φ20, Φ21, Φ22, Φ25, Φ26
D971418	BT50×ER32×6		
D971510	BT40×ER40×23	6-25mm	Φ6, Φ8, Φ10, Φ12, Φ16, Φ20, Φ25
D971511	BT50×ER40×23		
D971512	BT40×ER40×15	6-25mm	Φ6, Φ8, Φ10, Φ12, Φ16, Φ20, Φ25
D971513	BT50×ER40×15		
D971514	BT40×ER40×7	6-25mm	Φ6, Φ8, Φ10, Φ12, Φ16, Φ20, Φ25
D971515	BT50×ER40×7		

Order No.	Type	Clamping range	Wrench
D971611	CAT30×ER11×7pc	1/16-1/4	1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4
D971612	CAT40×ER11×7pc		
D971613	CAT50×ER11×7pc		
D971614	CAT30×ER16×10pc	1/32-3/8	1/32, 1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8
D971615	CAT40×ER16×10pc		
D971616	CAT50×ER16×10pc		
D971617	CAT30×ER20×12pc	1/16-1/2	1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2
D971618	CAT40×ER20×12pc		
D971619	CAT50×ER20×12pc		
D971620	CAT30×ER25×15pc	1/16-5/8	1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8
D971621	CAT40×ER25×15pc		
D971622	CAT50×ER25×15pc		
D971623	CAT30×ER32×18pc	1/16-25/32	1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32
D971624	CAT40×ER32×18pc		
D971625	CAT50×ER32×18pc		
D971626	CAT40×ER40×23pc	1/16-1	1/16, 3/32, 1/8, 3/16, 7/32, 1/4, 5/16, 11/32, 3/8, 13/32, 7/16, 1/2, 17/32, 9/16, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 27/32, 7/8, 15/16, 31/32, 1
D971627	CAT50×ER40×23pc		

■ CNC tooling - Pull studs/retention knobs



MAS BT-30,40,50

Order No.	Type	a°	L	L1	L2	D	d1	d2	d3	M
D791010	BT30×45°	45	43	23	18	16.5	11	7	12.5	M12
D791011	BT30×60°	60	43	23	18	16.5	11	7	12.5	M12
D791012	BT30×90°	90	43	23	18	16.5	11	7	12.5	M12
D791110	BT40×45°	45	60	35	28	23	15	10	17	M16
D791111	BT40×60°	60	60	35	28	23	15	10	17	M16
D791112	BT40×90°	90	60	35	28	23	15	10	17	M16
D791210	BT50×45°	45	85	45	35	38	23	17	25	M24
D791211	BT50×60°	60	85	45	35	38	23	17	25	M24
D791212	BT50×90°	90	85	45	35	38	23	17	25	M24

With through hole for internal coolant

Order No.	Type	a°	L	L1	L2	D	d1	d2	d3	d4	M
D791310	BT40×45°	45	60	35	28	23	15	10	17	4	M16
D791311	BT40×60°	60	60	35	28	23	15	10	17	4	M16
D791312	BT40×90°	90	60	35	28	23	15	10	17	4	M16
D791410	BT50×45°	45	85	45	35	38	23	17	25	7	M24
D791411	BT50×60°	60	85	45	35	38	23	17	25	7	M24
D791412	BT50×90°	90	85	45	35	38	23	17	25	7	M24

With through hole for internal coolant

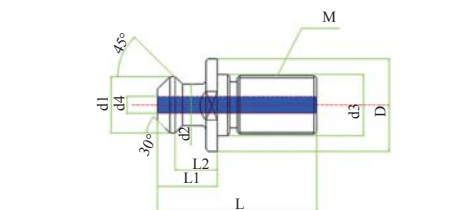
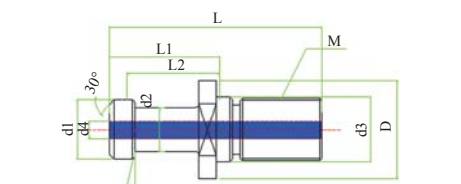
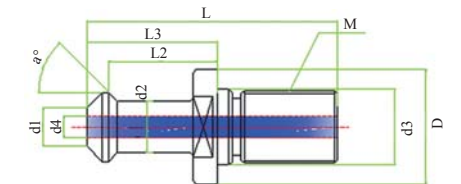
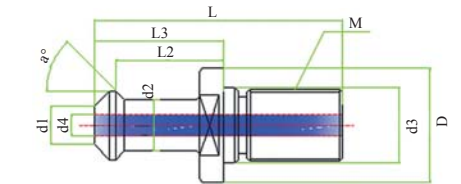
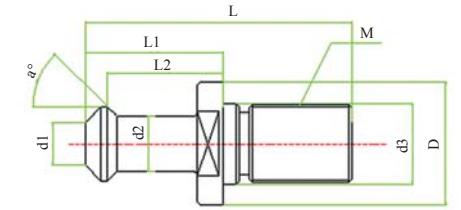
Order No.	Type	L	L1	L2	D	d1	d2	d3	d4	M
D791510	DIN30-A	44	24	19	17	13	9	13	-	M12
D791610	DIN40-A	54	26	20	23	19	14	17	7	M16
D791611	DIN40-A-L	54	29	23	23	19	14	17	7	M16
D791710	DIN50-A	74	34	25	36	28	21	25	11.5	M24

ISO-A TYPE FOR ISO/DIS 7388/2/A

Order No.	Type	L	L1	L2	D	d1	d2	d3	d4	M
D791810	ISO40-A	54	26	20	23	19	14	17	7	M16
D791910	ISO50-A	74	34	25	36	28	21	25	11.55	M24

ISO-B TYPE FOR ISO/DIS 7388/2/B

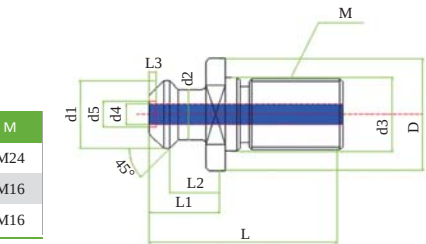
Order No.	Type	L	L1	L2	D	d1	d2	d3	d4	M
D792010	ISO40-B	44.5	16.4	11.15	22.5	18.95	12.95	17	7.35	M16
D792110	ISO50-B	65.5	25.5	17.95	37	29.1	19.6	25	11.55	M24



CNC tooling - Pull studs/retention knobs

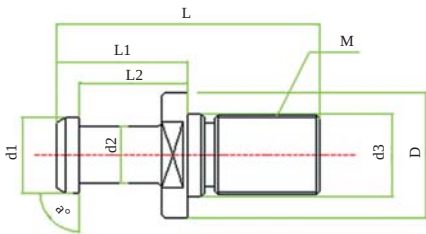
Mazak For Mazak Machine

Order No.	Type	L	L1	L2	L3	D	d1	d2	d3	d4	d5	M
D792210	MAZAK BT50	65.2	25.2	17.58	1.8	37	28.95	20.83	25	10	16	M24
D792310	MAZAK BT40	44.1	19.1	14	-	22	18.8	12.45	17	7	-	M16
D792410	MAZAK CAT40	41.1	16.1	11	-	22	18.8	12.45	17	7	-	M16



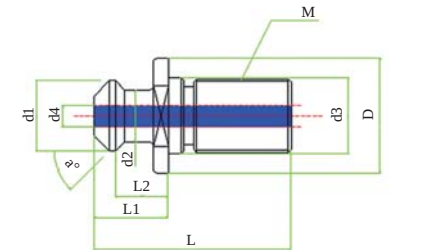
Mitsui For Mitsui Machine

Order No.	Type	a"	L	L1	L2	D	d1	d2	d3	M
D792510	MITSUMI BT40	90	50	25	18	23	15	10	17	M16
D792610	MITSUMI BT50	90	71	31	23	36	24	18	25	M24



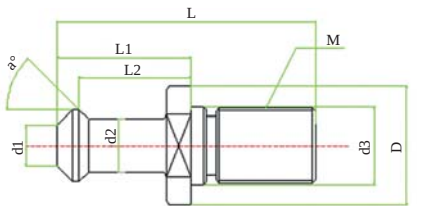
Cat For Mitsui Machine

Order No.	Type	a"	L	L1	L2	D	d1	d2	d3	M
D792710	CAT40	45	38.1	16.2	11.2	23.8	18.8	12.4	7.1	5/8"
D792810	CAT50	45	58.4	25.4	17.8	36	28.9	20.8	11.8	1"



Cat-bt For Mitsui Machine

Order No.	Type	a"	L	L1	L2	D	d1	d2	d3	M
D792910	CAT40×45°	45	57	32	25	23	15	10	-	5/8"
D792911	CAT40×60°	60	57	32	25	23	15	10	-	5/8"
D792912	CAT40×90°	90	57	32	25	23	15	10	-	5/8"
D793010	CAT50×45°	45	78.6	45	35.2	38	23	17	-	1"
D793011	CAT50×60°	60	78.6	45	35.2	38	23	17	-	1"
D793012	CAT50×90°	90	78.6	45	35.2	38	23	17	-	1"
D793110	CAT40×45°M	45	57	32	25	23	15	10	17	M16
D793111	CAT40×60°M	60	57	32	25	23	15	10	17	M16
D793112	CAT40×90°M	90	57	32	25	23	15	10	17	M16



Tool cart - Tool trolley

Specifications

- ☐ The NC tool trolley uses high quality caster wheel, so it has a strong load and resistant ability.
- ☐ It is suitable for the store and transportation of all kinds of tools and holders.
- ☐ The 4 side lines of tools socket could be placed horizontally and inclined.

Order No.	Type	Slope	N.W.(kg)
D841010	BT30	#30	3.90
D841011	BT40	#40	4.20
D841012	BT50	#50	11.60



Tool cart



Specifications

- ☐ Intergrated ergonomic handle within worktop
- ☐ Optimized storage--compatible with the modular storage system
- ☐ Central locking with two reversible keys providing security
- ☐ Anti-shock protection on all four corners
- ☐ Porous side panel for hanging more tools

Model No.	TC326
Product size	780×465×820mm
Size with castor	780×465×970mm
3 big drawer size	545×395×125mm
3 small drawer size	545×395×45mm
G.W/N.W	60/58kgs



Intergrated ergonomic handle within worktop



Porous side panel for hanging more tools



Drawer release mechanism incorporated within the handle, to prevent accidental drawer opening



Specifications

- ☐ Front centralized safety lock
- ☐ Fully retractable drawers, easier to take or replace the tool
- ☐ 5mm non slip ruber mat
- ☐ Ball bearing slide
- ☐ Mist body, scratch-resistant, easy to arrange

Model No.	TC32
Product size	660×460×850mm
Size with castor	660×460×970mm
big drawer size	510×410×140mm
small drawer size	510×410×60mm
G.W/N.W	64/61kgs



Side is equipped with a small lattice, convenient to put nut and small objects



The strengthen rubber casters, 2 swivel with brake and fixed casters



ABS plastic lid



Durable drawer: strong ball bearing slide, 80kg maxinum loading for each drawer



High quality aluminium handle



One piece of slip mat for each drawer



Mobile design: 5" casters and 2 with brake, easy to move and stop

Model No.	TC309-1	TC309-2	TC309-3
Drawer numbers	5 drawers	6 drawers	7 drawers
Product size	700×480×850mm	700×480×850mm	700×480×850mm
Size with castor	700×480×1010mm	700×480×1010mm	700×480×1010mm
big drawer size	565×400×145mm	565×400×145mm	565×400×145mm
small drawer size	565×400×65mm	565×400×65mm	565×400×65mm
G.W/N.W	69/63kgs	71.5/66.5kgs	75/69.5kgs

Tool locking device



Order No.	Type	Slope	N.W.(kg)
D831010	BT30	#30	3.90
D831011	BT40	#40	4.20
D831012	BT50	#50	11.60
D831110	CAT30	#30	3.90
D831111	CAT40	#40	4.20
D831112	CAT50	#50	11.60

Edge finder - Electronic edge finder

Specifications

- ☐ Touch point LED indication
- ☐ Made from high quality alloy steel
- ☐ Hardened and precision ground



Model No.	Range	Concentricity
543-001	96.5×20×10mm	0.01mm
543-002	120×18×10mm	0.01mm

Edge finder - Mechanical edge finder

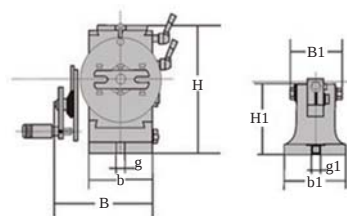
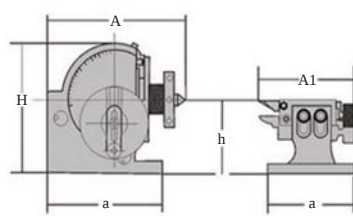
Specifications

- ☐ Made from high quality alloy steel
- ☐ Easy to use, quick and accurate



Model No.	Range	Concentricity
544-001	89.5×9.5×10(4)mm	0.005mm
544-002	82.5×9.5×10mm	0.005mm
544-003	89×10×10(4)mm	0.005mm
544-004	89.5×9.5×10(6)mm	0.005mm
544-005	82.5×10×10mm	0.005mm

Dividing head and rotary table - Semi-universal dividing head



Item No.	Model	A	B	H	h	a	b	g	Taper of center	Diameter of Spindle hole
MMA-BS0	BS-0	204	140	173	100	166	90	16	MT2	18
		8.03"	5.51"	6.81"	3.93"	6.53"	3.54"	0.63"	B&S No.7	
MMA-BS1	BS-1	242	175	220	128	206	113	16	MT3	20
		9.52"	6.89"	8.66"	5.04"	8.11"	4.45"	0.63"	B&S No.9	

Tail stock

Model	A1	B1	H1	h	a1	b1	g1
BS-0	175	87	107	100	130	92	16
	6.89"	3.42"	4.21"	3.93"	5.12"	3.62"	0.63"
BS-1	183	87	137	128	158	110	16
	7.2"	3.42"	5.39"	5.04"	6.22"	4.33"	0.63"

Dividing head and rotary table - Semi-universal dividing head

Standard accessories

DIVIDING PLATE A B C

- ☐ Worm gear reduction ration 1:40



unit:mm

Number of holes	Plate A	15	16	17	18	19	20
	Plate B	21	23	27	29	31	33
	Plate C	37	39	41	43	47	49

Optional accessories

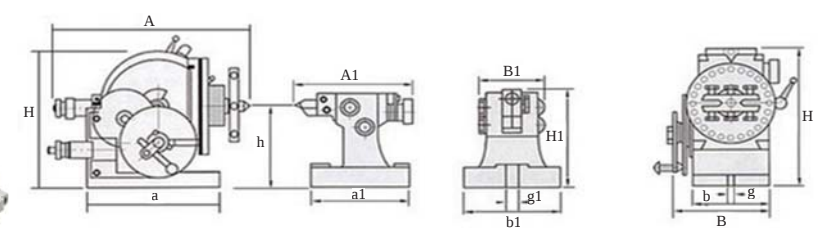
3-JAW CHUCK

- ☐ 4" or 5" 3-jaw chuck for BS-0
- ☐ 5" or 6" 3-jaw chuck for BS-1
- ☐ 6" or 7" or 8" 3-jaw chuck for BS-2



Dividing head and rotary table - Universal dividing head

BS-2



BS-2A



Standard accessory for BS-2



Standard accessory for BS-2A



Optional accessories

3-JAW CHUCK

- ☐ 4" or 5" 3-jaw chuck for BS-0
- ☐ 5" or 6" 3-jaw chuck for BS-1
- ☐ 6" or 7" or 8" 3-jaw chuck for BS-2



- ☐ BS-2A comes with a tail stock, a set of dividing plate, a set of carrier clamp, a 3 jaw plate, a center.
- ☐ BS-2A body structure is same as BS-2 without changing gear arbor or bracket.

Universal index B&S No.2(head-stock)

Item No.	Model	A	B	H	h	a	b	g	Work hole taper
MMA-BS2	BS-2	370	280	236	133	212	134	16	MT4
		14.57"	11.02"	9.29"	5.24"	8.35"	5.28"	0.63"	B&S NO.10
MMA-BS2A	BS-2A	264	210	236	133	212	134	16	MT4
		10.39"	8.26"	9.29"	5.24"	8.35"	5.28"	0.63"	B&S NO.10

Universal index B&S No.2(tail-stock)

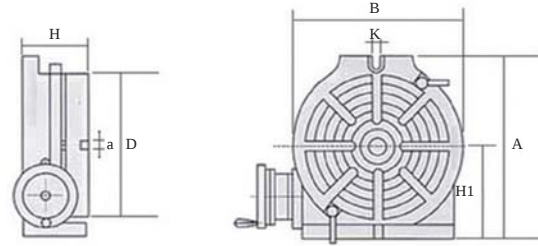
Model	A1	B1	H1	h	a1	b1	g1
BS-2	183	90	156	133	175	122	16
	7.2"	3.42"	6.14"	5.24"	6.89"	4.8"	0.63"
BS-2A	183	90	156	133	175	122	16
	7.2"	3.54"	6.14"	5.24"	6.89"	4.8"	0.63"

■ Dividing head and rotary table - Horizontal/vertical rotary table

HV-6



Mini Rotary table
HV-4



Optional accessory



unit:mm

Item No.	Model	Table		Base dimension			Width of T-Slot		Bolt slots	Center sleeve	Worm gear ratio	N.W.(kg)
		D	H	H1	A	B	e	Type				
8	8	90	80	65	115	95	10		12	MT1	36:1	6.5
		3.54"	3.14"	2.56"	4.52"	3.54"	0.39"		0.47"			14.3
10	10	110	87	85	145	115	12		12	MT2	72:1	9
		4.33"	3.42"	3.35"	5.71"	4.53"	0.47"		0.47"			19.84
8	8	150	85	100	200	160	12		16	MT2	90:1	12
		5.91"	3.35"	3.93"	7.87"	6.29"	0.47"		0.63"			26.4
10	10	200	105	135	265	220	14		16	MT3		31
		7.87"	4.13"	5.31"	10.43"	8.66"	0.55"		0.63"			66
8	8	250	118	165	325	280	14		16	MT3		47
		9.84"	4.63"	6.49"	12.79"	11.02"	0.55"		0.63"			99
10	10	300	135	195	391	330	16		16	MT4		76
		11.81"	5.31"	7.68"	15.39"	12.99"	0.63"		0.63"			182.6
8	8	350	135	230	450	390	16		16	MT4		95
		13.78"	5.31"	9.05"	17.71"	15.35"	0.63"		0.63"			209
10	10	400	145	262	505	436	16		18	MT4		135
		15.74"	5.7"	10.31"	19.88"	17.16"	0.63"		0.71"			297

■ Dividing head and rotary table - Tail stock



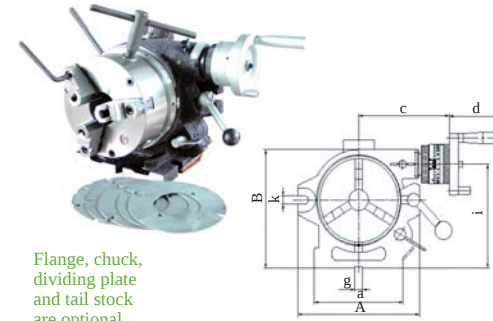
TS-1.2.3



TS-4.5.0

Item No.	MMA-TS0A	MMA-TS0	MMA-TS1	MMA-TS2	MMA-TS3	MMA-TS4	MMA-TS5
Model	TS-0A	TS-0	TS-1	TS-2	TS-3	TS-4	TS-5
Suit for model	HV-3 HV-4	HV-4	HV-6	HV-8, HV-10, HV-12	HV-14 HV-16	CS-6	CS-8
Max center height	85mm/3.34"	110mm/4.3"	131mm/5.15"	210mm/8.26"	300mm/11.81"	145mm/5.7"	200mm/7.9"
Min center height	65mm/2.55"	75mm/3"	97mm/3.81"	130mm/5.12"	210mm/8.27"	115mm/4.5"	130mm/5.1"
Weight	3.5kg	3.9kg	13kg	18kg	21kg	18kg	18kg

■ Dividing head and rotary table - Horizontal/vertical super indexing spacers



Flange, chuck, dividing plate and tail stock are optional

Model	Chuck			Face plate		
	Outer dia	Thru hole dia	Inner jaw	Outer jaw	Outer dia	Thickness
CS-6	160	160	3~55	55~145	205	40
	6.3"	6.3"	0.12~2.17"	2.17~5.71"	8.07"	1.57"
CS-8	200	200	4~85	65~200	254	42
	7.87"	7.87"	0.16~3.35"	2.56~7.87"	10"	1.65"

unit:mm/in

Model	Guide block	Turret hole dia	A	B	C	a	b	c
CS-6	16	50	250	238	207	182	140	186
	0.63"	1.97"	9.84"	9.37"	8.15"	7.17"	5.5"	7.32"
CS-8	16	63	320	294	235.5	230	160	213
	0.63"	2.48"	12.6"	11.57"	9.27"	9.06"	6.3"	8.39"

Model	d	e	f	g	h	i	j	k	N.W.(kg)
CS-6	93	112	65	16	122	191	80	16	48
	3.66"	4.41"	2.56"	0.63"	4.8"	7.52"	3.15"	0.63"	105
CS-8	93	126.5	75	16	155	234.67	95	20	74
	3.66"	4.99"	2.95"	0.63"	6.1"	9.24"	3.74"	0.79"	162

■ Dividing head and rotary table - Dividing plates



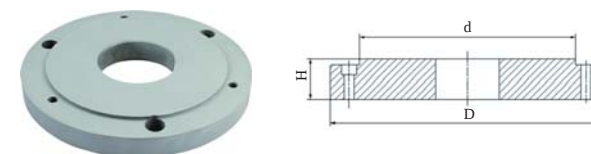
DP1



DP2

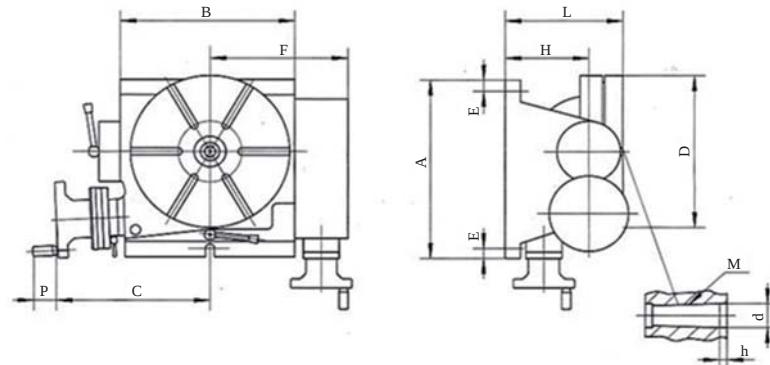
Order No.	Model	Turret hole dia	Number of holes	b	N.W.(kg)
MMA-DP1	DP1	A	15,16,17,18,19,20	HV4, HV6	2.7
		B	21,23,27,29,31,33		
		C	37,39,41,43,47,49		
MMA-DP2	DP2	A	A1 26,30,34,38,41,44,47,51,57 A2 28,32,37,39,43,46,49,53,59	HV8, HV10, HV12, HV14, HV16 CS-6", 8"	4.8
		B	B1 61,67,71,77,81,87,91,97 B2 63,69,73,79,83,89,93,99		

■ Dividing head and rotary table - Flange



Order No.	Type	D	d	H	Used of Model
MMA-FLT0/5C	FLT-0/5C	138	100	20	HV6,8
MMA-FLT1/6C	FLT-1/6C	170	130	21	HV8,10
MMA-FLT2/8C	FLT-2/8C	195	155	24	HV10,12,14

Dividing head and rotary table - Tilting rotary table



Specifications

- ☐ Tilting range from 0 - 90 degrees from the horizontal to vertical position and locked
- ☐ Optional dividing plates with divisions 2-66, divisible of 2,3 &5 from 67-132
- ☐ 90-1 ratio
- ☐ 1' readout on the hand wheel
- ☐ 2' Min reading of the tilting vernier
- ☐ Dividing head, flange, chuck and tail stock are all optional.

Item No.	A	B	C	D	E	F	H	L	M	P	d	h
MMA-T160	255mm	172mm	168mm	160mm	11mm	138mm	100mm	160mm	MT2	40mm	25mm	6mm
MMA-T200	296mm	213mm	186mm	200mm	14mm	175.5mm	120mm	180mm	MT3	40mm	30mm	6mm
MMA-T250	310mm	252mm	235mm	250mm	14mm	199mm	140mm	205mm	MT3	40mm	30mm	6mm
MMA-T320	380mm	322mm	252mm	320mm	16mm	241mm	175mm	255mm	MT4	40mm	40mm	10mm
MMA-T400	500mm	400mm	306mm	400mm	16mm	295mm	217mm	320mm	MT4	50mm	40mm	10mm

Angle plate and slide table - Cross slide table with swivel base



Model No.	Table size (mm)	X travel (mm)	Y travel (mm)
MMA-ST01	225×175	105	90
MMA-ST02	330×220	190	100
MMA-ST03	425×240	225	150
MMA-ST04	600×240	400	150

Angle plate and slide table - Cross slide table

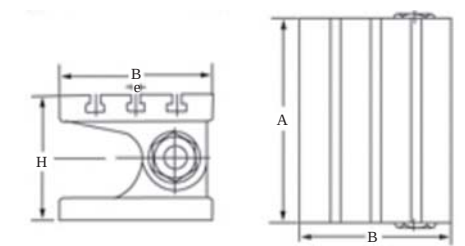


Model No.	Table size (mm)	X travel (mm)	Y travel (mm)
MMA-FT01	185×100	80	50
MMA-FT02	225×175	105	90
MMA-FT03	330×220	190	100
MMA-FT04	425×240	225	150
MMA-FT05	600×240	400	150
MMA-FT06	730×210	500	210

Angle plate and slide table - Swivel angle plates

Specifications

- ☐ Adjustable from horizontal to vertical 90°
- ☐ 2 screw lock setting. Saves setup time
- ☐ Machined "T" slots

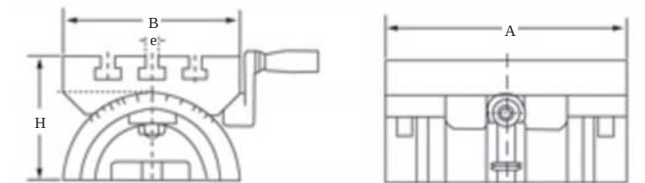


Model No.	Table size			T-slot e
	A	B	H	
MMA-SP01	6"/150mm	5"/130mm	116	10
MMA-SP02	8"/200mm	6"/150mm	120	10
MMA-SP03	10"/250mm	8"/200mm	165	12
MMA-SP04	12"/350mm	10"/255mm	190	14

Angle plate and slide table - Tilting tables

Specifications

- ☐ Perfect for setting work at any angle during milling of other operations
- ☐ 2 screw lock setting. Saves setup time
- ☐ Range -45° to +45°. Graduated in degrees for setting purpose

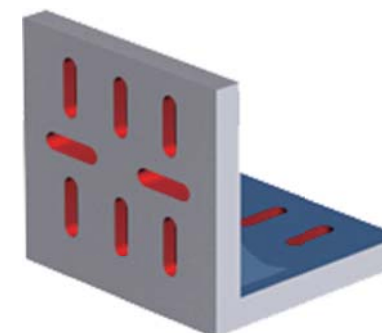


Model No.	Table size			T-slot e
	A	B	H	
MMA-TT01	7"/180mm	5"/130mm	91	10
MMA-TT02	10"/250mm	7"/178mm	133	12
MMA-TT03	12"/300mm	9-3/16"/240mm	164	12
MMA-TT04	15"/380mm	10-1/4" / 260mm	185	16
MMA-TT05	24"/600mm	12"/300mm	205	16

Angle plate and slide table - Slotted angle plates

Specifications

- ☐ Made of high tensile cast iron properly seasoned against distortion
- ☐ Webbed style accurately machined, square parallel on outside faces and ends



Model No.	Size
MMA-AP200	200×200
MMA-AP300	300×200
MMA-AP301	300×300
MMA-AP400	400×300
MMA-AP401	400×400
MMA-AP500	500×400
MMA-AP501	500×500
MMA-AP800	800×600

Magnifying worklight - Magnifier lamp



L071/L071E



L072/L072E

Model No.	Lens material	Lens size	Diopter	Holder type	Switch	Light	Voltage	Power	Life of LED/lamp	Luminance
L071/L071E	Acrylic (Fresnel)	7"	3 diopter and 5 diopter for choice	Stand type	switching power	80pcs LED / T5 22W fluorescent lamp	100V-240V / 110V-120V or 220V-240V	6.5W/22W	20000h/5000h	1000Lux/ 1100Lux
L072/L072E				Table clamp	electronic ballast					

Magnifying worklight - Flexible conduit incandescent light



Model No.	Voltage	Power	Bulb
JC11-1	24-220V	60W	24-230V, 25-60W

Magnifying worklight - Flexible conduit halogen light with magnet holder

Specifications

- Lamp-chimney adopts PBT enhanced engineering plastic, heat-resisting, impactresistre
- Halogen bulb has long working life time



Model No.	Voltage	Power	Bulb
JC34B	24V	25W	24V, 25W

Magnifying worklight - Halogen light IP65

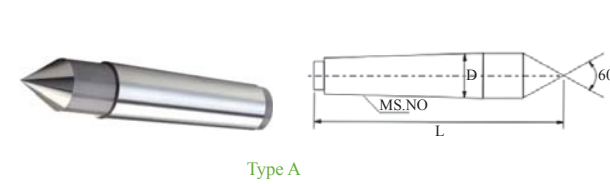


Specifications

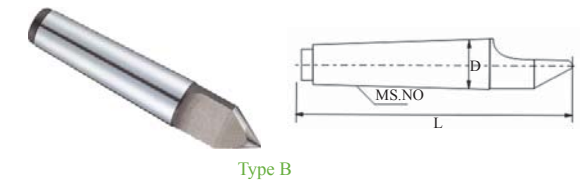
- Lights have grating structure, avoiding the influence of dazzle light
- Water-proof,dust-proof and moisture resistive
- Halogen bulb has long working life time

Model No.	Voltage	Power	Bulb
JC36A	24V	25W	24V,25W
JC36B	24V	25W	24V,25W
JC36C	24V	25W	24V,25W

Lathe accessory - Dead center/half-notched center



Type A

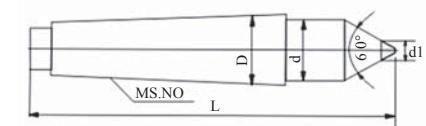


Type B

Model No.	Taper	D(mm)	L(mm)	Accuracy(mm)
LA-CDMT1 (A/B)	MT1	12.065	80	0.005
LA-CDMT2 (A/B)	MT2	17.780	100	0.005
LA-CDMT3 (A/B)	MT3	23.825	125	0.005

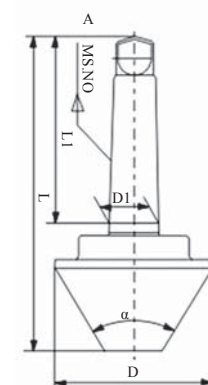
Model No.	Taper	D(mm)	L(mm)	Accuracy(mm)
LA-CDMT4 (A/B)	MT4	31.267	160	0.005
LA-CDMT5 (A/B)	MT5	44.399	200	0.005
LA-CDMT6 (A/B)	MT6	63.348	270	0.005

Lathe accessory - Carbide dead center



Model No.	Taper	D(mm)	L(mm)	d(mm)	d1(mm)	Accuracy(mm)
LA-CDCMT1	MT1	12.065	80	12.2	8	0.005
LA-CDCMT2	MT2	17.780	100	18	8	0.005
LA-CDCMT3	MT3	23.825	125	24.1	12	0.005
LA-CDCMT4	MT4	31.267	160	31.6	15	0.005
LA-CDCMT5	MT5	44.399	200	44.7	18	0.005
LA-CDCMT6	MT6	63.348	270	63.8	24	0.005

Lathe accessory - Bull nose center

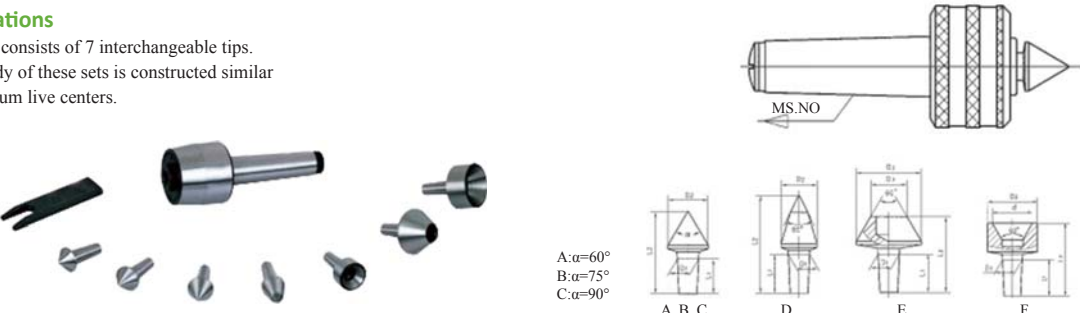


Model No.	Taper	L	L1	D	D1	d	Φ	Accuracy(mm)
LA-CBN61.9	MT2	121	64	61.9	17.780	12.7	70°	0.005
LA-CBN62	MT2	121	64	62	17.780	12.7	75°	0.005
LA-CBN80	MT2	130	64	80	17.780	15	75°	0.005
LA-CBN85	MT2	130	64	85	17.780	15	75°	0.005
LA-CBN80	MT3	146	81	80	23.825	15	75°	0.005
LA-CBN100	MT3	155	81	100	23.825	25	75°	0.005
LA-CBN110	MT3	159	81	110	23.825	25	75°	0.005
LA-CBN120	MT3	168	81	120	23.825	32	75°	0.005
LA-CBN80	MT4	170	102.5	80	31.267	15	75°	0.005
LA-CBN110	MT4	182	102.5	110	31.267	25	75°	0.005
LA-CBN120	MT4	190	102.5	120	31.267	32	75°	0.005
LA-CBN160	MT4	200	102.5	160	31.267	54	75°	0.008
LA-CBN200	MT4	218	102.5	200	31.267	70	75°	0.008
LA-CBN80	MT5	199	129.5	80	44.399	15	75°	0.005
LA-CBN100	MT5	206	129.5	100	44.399	25	75°	0.005
LA-CBN120	MT5	216	129.5	120	44.399	32	75°	0.005
LA-CBN150	MT5	238	129.5	150	44.399	35	75°	0.008
LA-CBN160	MT5	230	129.5	160	44.399	54	75°	0.008
LA-CBN200	MT5	246	129.5	200	44.399	70	75°	0.008
LA-CBN250	MT5	268	129.5	250	44.399	90	75°	0.01

Lathe accessory - Medium-duty interchangeable tip live center sets

Specifications

- The set consists of 7 interchangeable tips.
- The body of these sets is constructed similar to medium live centers.



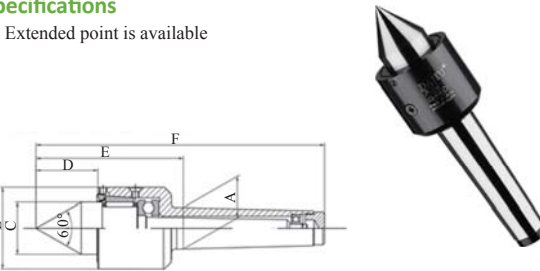
Model No.	Taper	D1	L1	A		B		C		D	
				D2	L2	D2	L2	D2	L2	D2	L2
LA-CMPMT2	MT2	10	20	16	39	16	35.5	16	33	16	46
LA-CMPMT3	MT3	12	24	20	48	20	43.5	20	40.5	18	56
LA-CMPMT4	MT4	15	30	28	61.5	28	55.5	28	51.5	26	73
LA-CMPMT5	MT5	20	40	36	80	36	72.45	36	66.8	36	101
LA-CMPMT6	MT6	30	55	55	117	55	113	55	108	50	138

Model No.	E			F			G			Weight(kg)
	D2	D3	L2	D2	L2	d	D2	L2	d	
LA-CMPMT2	25	10	40	16	36	10	20	39	16	0.95
LA-CMPMT3	35	15	50	22	42	18	35	48	30	1.87
LA-CMPMT4	55	30	61.5	40	55	35	55	60	48	2.42
LA-CMPMT5	70	41	78	60	81	50	70	85	61	4.12
LA-CMPMT6	90	50	107.5	75	110	60	90	116	75	7.83

Lathe accessory - Super rolling live center

Specifications

- Extended point is available



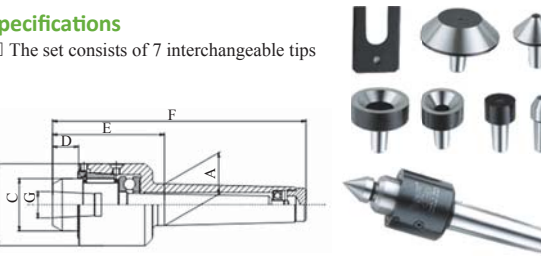
Model No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)
LA-CSMT2	MT2	17.780	36	22	26	61.5
LA-CSMT3	MT3	23.825	47	30	35	84.5
LA-CSMT4	MT4	31.267	55	35	40	94
LA-CSMT5	MT5	44.399	70	45	51	116.5
LA-CSMT6	MT6	63.348	90	60	65	139

Model No.	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CSMT2	125.5	300	5500	0.005
LA-CSMT3	165.5	400	4500	0.005
LA-CSMT4	196.5	1200	4000	0.005
LA-CSMT5	246	2000	3000	0.005
LA-CSMT6	321	4000	2000	0.01

Lathe accessory - Super rolling interchangeable live center set

Specifications

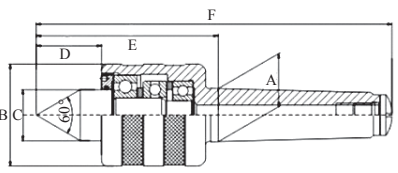
- The set consists of 7 interchangeable tips



Model No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)
LA-CSMT2S	MT2	17.780	36	22	10.5	68.5
LA-CSMT3S	MT3	23.825	47	30	15	93
LA-CSMT4S	MT4	31.267	55	35	16	104
LA-CSMT5S	MT5	44.399	70	45	20	134.5
LA-CSMT6S	MT6	63.348	90	60	23	139

Model No.	F(mm)	G(Φ:mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CSMT2S	110	10	300	5500	0.01
LA-CSMT3S	145	15	400	4500	0.01
LA-CSMT4S	172	20	1200	4000	0.01
LA-CSMT5S	216	25	2000	3000	0.02
LA-CSMT6S	282	30	4000	2000	0.02

Lathe accessory - Medium-duty live center

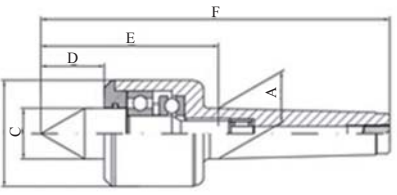



Item No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CNMT1	MT1	12.065	34	13	19	63	117	40	4000	0.005
LA-CNMT2	MT2	17.780	45	24	31	87	151	120	3500	0.005
LA-CNMT3	MT3	23.825	52	26	34	94	175	300	3000	0.005
LA-CNMT4	MT4	31.267	60	30	38.5	107	210	500	2500	0.008
LA-CNMT5	MT5	44.399	77	44	50	130	260	800	2000	0.008
LA-CNMT6	MT6	63.348	125	74	74.5	188	370	2000	1200	0.015

Lathe accessory - Precision light-duty live center

Specifications

- There are three different noses available: carbide nose, extended long nose and CNC lathe nose



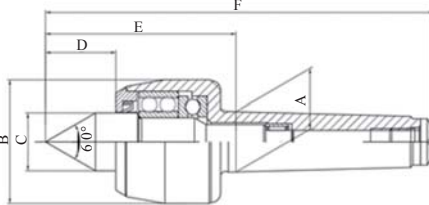


Item No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CPLMT1	MT1	12.065	34	14	19	58	111.5	50	4000	0.005
LA-CPLMT2	MT2	17.78	45	20	26.5	74	138	150	3500	0.005
LA-CPLMT3	MT3	23.825	50	24	30	84	165	300	3000	0.005
LA-CPLMT4	MT4	31.267	62	28	35.5	96	198.5	450	2500	0.005
LA-CPLMT5	MT5	44.399	76	38	46	115.5	245	800	2000	0.005
LA-CPLMT6	MT6	63.348	96	50	66	155	337	1000	1500	0.008

Lathe accessory - Precision medium-duty live center

Specifications

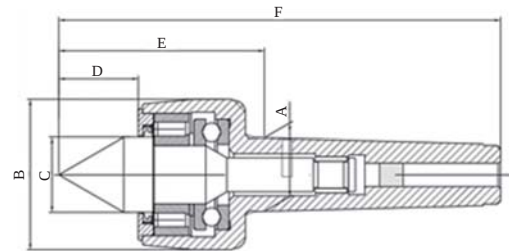
- There are three different noses available: carbide nose, extended long nose and CNC lathe nose





Item No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CPMMT2	MT2	17.78	47	24	29.4	78	143.5	180	5000	0.005
LA-CPMMT3	MT3	23.825	59	26	31.6	90	172	400	4000	0.005
LA-CPMMT4	MT4	31.267	64	30	36.6	100	202	600	3500	0.005
LA-CPMMT5	MT5	44.399	78	38	45.3	110	249	1200	2500	0.005
LA-CPMMT6	MT6	63.348	106	54	60	152	334	1500	2000	0.005

Lathe accessory - Precision heavy-duty live center



Item No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CPHMT3	MT3	23.825	59	26	28	78	159	600	3000	0.005
LA-CPHMT4	MT4	31.267	64	32	33	88	190	1000	2500	0.005
LA-CPHMT5	MT5	44.399	88	44	52	110	240	2000	2000	0.005
LA-CPHMT6	MT6	63.348	140	72	78	170	252	3000	1200	0.01

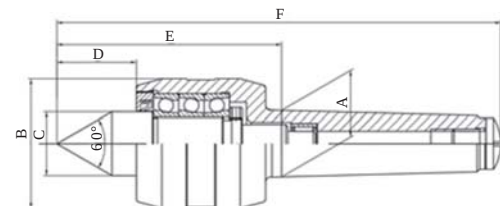
Lathe accessory - High-speed live center

Specifications

- There are three different noses available: carbide nose, extended long nose and CNC lathe nose

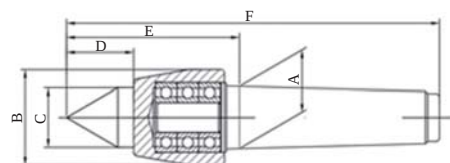


Carbide nose Extended nose CNC lathe nose



Item No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CHMT3	MT3	23.825	48	24	29.5	85	166	250	6000	0.005
LA-CHMT4	MT4	31.267	61	30	37.5	106.5	209	400	5000	0.005
LA-CHMT5	MT5	44.399	72	38	46	124.5	254	800	4000	0.005

Lathe accessory - Versa-turn live center



Item No.	Taper	A(Φ:mm)	B(Φ:mm)	C(Φ:mm)	D(mm)	E(mm)	F(mm)	Max load(kg)	Max speed(rpm)	Accuracy(mm)
LA-CVMT1	MT1	12.065	32	22	27	56.5	110	40	4000	0.005
LA-CVMT2	MT2	17.78	39	28	33.5	72.5	136.5	120	3500	0.005
LA-CVMT3	MT3	23.825	46	32	37.5	83.5	164.5	250	3000	0.005
LA-CVMT4	MT4	31.267	52	40	45.5	95	197.5	350	2500	0.005
LA-CVMT5	MT5	44.399	69	50	58.5	113.5	251.5	500	2000	0.005

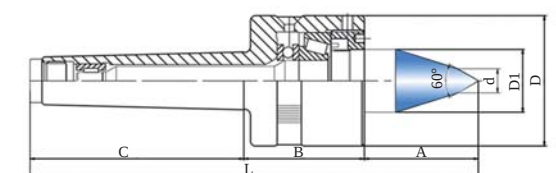
Lathe accessory - Heavy-load live center

Specifications

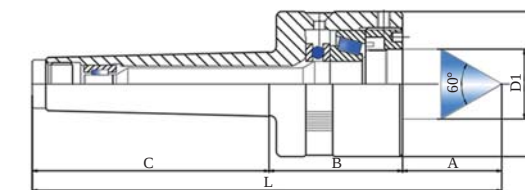
- Applicable to medium and heavy load
- Use the combination of taper roller bearing, thrust bearing and needle bearing
- Unique waterproof design



Long nose live centers are suitable for small workpieces.



Type B



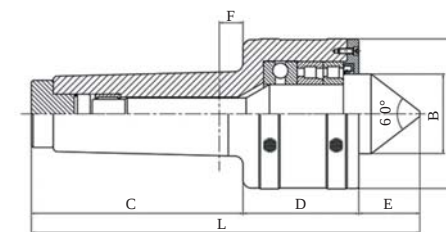
Type A

Item No.	Type	A	B	C	D	D1	d	L	Accuracy(mm)	MAX Radial Load(kg)	MAX R.P.M
B081010	NCR-MT2-A	31	41	68	46	21	-	140	0.005	400	6000
B081011	NCR-MT3-A	37	52	86	54	26	-	175	0.005	600	5000
B081012	NCR-MT4-A	44	64.5	107	68	32	-	215.5	0.005	1000	4500
B081013	NCR-MT5-A	50	72	135	84	42	-	237	0.005	2500	3500
B081014	NCR-MT6-A	75	101	190	120	63	-	366	0.008	5000	1500
B081015	NCR-MT7-A	106	130	254	155	78	-	490			
B081110	NCR-MT2-B	38.5	41	68	46	21	-	147.5	0.005	400	6000
B081111	NCR-MT3-B	47	52	86	54	26	-	185	0.005	600	5000
B081112	NCR-MT4-B	54	64.5	107	68	32	-	225.5	0.005	1000	4500
B081113	NCR-MT5-B	62	72	135	84	42	-	149	0.005	2500	3500
B081114	NCR-MT6-B	89	101	190	120	63	-	380	0.008	5000	1500
B081115	NCR-MT7-B	120	130	254	155	78	-	504			

Lathe accessory - Heavy-load live center (3-5T)

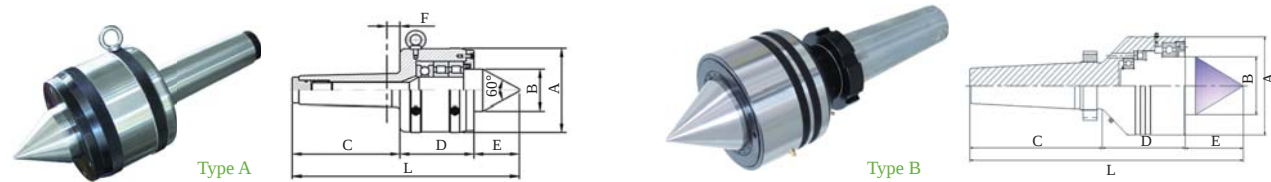
Specifications

- Uses the Korean big load top design structure, three sets of cylindrical roller bearing
- Accuracy<0.015mm Dynamic load :3-5tons



Item No.	Type	A	B	C	D	E	F	L	W.P Weight	Max R.P.M	Weight	MAX Run Out
B131010	MT4	66 2 10/16	32 1 4/16	108 4 4/16	52 2 1/16	40 1 9/16	8 5/16	200 7 14/16	650 1,430	3000.000	1.8 4.07	0.003 0.0001
B131110	MT5	93 3 11/16	40 1 9/16	136 5 3/8	70 2 3/4	43.7 1 11/16	8 5/16	249.7 9 13/16	2,000 4,400	2000.000	4.3 9.46	0.003 0.0001
B131210	MT6	127 5	60 2 3/8	189 7 7/16	92.7 3 5/8	61.5 2 7/16	10 3/8	343.3 13 7/13	4,000 8,800	1000.000	12.5 24.5	0.005 0.0002

Lathe accessory - Super-load live center (10-15T)

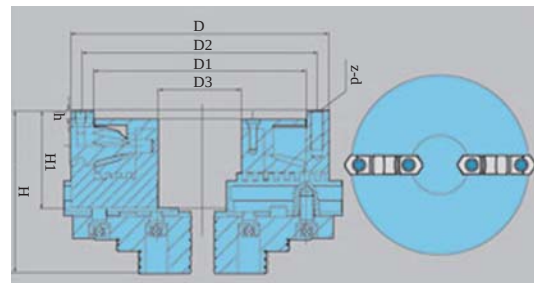


Item No.	Type	Taper	A	B	C	D	E	F	L	W.P Weight	Max R.P.M	Weight	MAX Run Out
B141010	MT6	1/19.18	160	80	179	133	82	10	453	8000	1000	25	0.01
B141110	HS80	1/10	170	100	239	150	105	49	495	10,000	650	35	0.005
			6 3/4	4	9 7/16	5 15/16	4 1/8	1 15/16	19 1/2	22,000		77	0.0002
B141210	HS100	1/10	198	110	250	157	101.5	10	508.5	15,000	500	48.3	0.005
			7 3/4	4 5/16	9 7/8	6 3/16	4	3/8	20	33,000		106.3	0.0002

Lathe accessory - 2-jaw self-centering lathe chuck

Specifications

- ☐ High precision short cylindrical centering mounting
- ☐ All kinds of jaws can be provided
- ☐ The jaws are two-piece ones and the top jaws are soft ones
- ☐ Direct mounting is optional



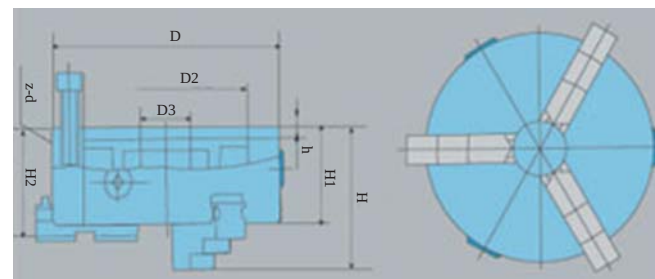
Model No.	Size	D1	D2	D3	H	H1	h	Z-d
LA-K10-125	125	95	108	30	97	58	4	3-M8
LA-K10-130	130	100	115	30	99	60	3.5	3-M8
LA-K10-160	160	130	142	40	115	65	5	3-M8
LA-K10-200	200	165	180	65	132	75	5	3-M10

Model No.	Size	D1	D2	D3	H	H1	h	Z-d
LA-K10-250	250	206	226	80	146	80	5	3-M12
LA-K10-325	325	272	296	100	184	96	12	3-M16
LA-K10-380	380	325	350	135	186	98	6	3-M16

Lathe accessory - 3-jaw self-centering lathe chuck - backplate mount

Specifications

- ☐ Short cylindrical center mounting
- ☐ Model LA-K11 chucks are provided with one-piece jaws (which include a set of internal and external jaws)
- ☐ All kinds of soft jaws are optional
- ☐ Chucks mounted from front is optional



Item No.	Size	D1	D2	D3	H	H1	H2	h	Z-d	Max. input torque	Max.speed	Net.WT
LA-K11-80	80	55	66	16	66	50	-	3.5	3-M6	40	4000	1.9
LA-K11-100	100	72	84	22	74.5	55	-	3.5	3-M8	60	3500	3.2
LA-K11-125	125	95	108	30	84	58	-	4	3-M8	100	3000	5
LA-K11-130	130	100	115	30	86	60	-	3.5	3-M8	100	3000	5.6
LA-K11-160	160	130	142	40	95	65	-	5	3-M8	160	2500	8.8
LA-K11-165	165	130	145	40	96.5	66.5	-	4.5	3-M8	250	2500	9.5

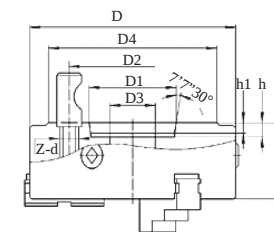
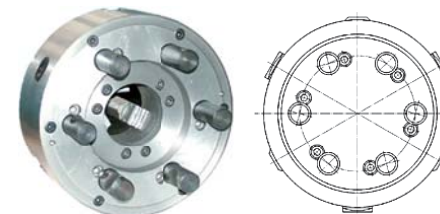
Lathe accessory - 3-jaw self-centering lathe chuck - backplate mount (continued)

Item No.	Size	D1	D2	D3	H	H1	H2	h	Z-d	Max. input torque	Max.speed	Net.WT
LA-K11-190	190	155	172	55	105	75	-	5	3-M10	250	2000	13.8
LA-K11-200	200	165	180	65	109	75	-	5	3-M10	250	2000	15.5
LA-K11-240	240	195	215	70	120	80	-	8	3-M12	320	2000	24
LA-K11-250	250	206	226	80	120	80	-	5	3-M12	320	1600	25.7
LA-K11-315	315	260	285	100	147	90	-	6	3-M16	400	1200	47
LA-K11-320	320	270	290	100	152.5	95	-	11	3-M16	400	1200	47.5
LA-K11-325	325	272	296	100	153.5	96	-	12	3-M16	400	1200	49
LA-K11-380	380	325	350	135	155.7	98	-	6	3-M16	500	1000	65

Lathe accessory - 3-jaw self-centring lathe chuck-camlock direct mount(form D)

Specifications

- ☐ Direct mounting with stud and camlock
- ☐ Other direct mounting form is optional

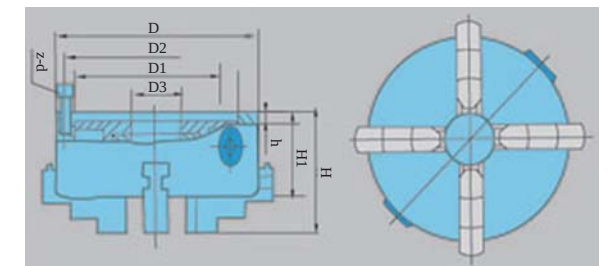


Item No.	Size	Mount taper	D1	D2	D3	D4	H	h	h1	Z-d
LA-K11-125D3	125	D1-3	53.975	71	25	92	63	13	10	3-M10x1
LA-K11-125D4	125	D1-4	63.513	83	25	117	63	13	10	3-M10x1
LA-K11-160D3	160	D1-3	53.975	71	40	92	76	13	10	3-M10x1
LA-K11-160D4	160	D1-4	63.513	83	40	117	70	13	10	3-M10x1
LA-K11-160D5	160	D1-5	82.563	105	40	146	73	15	12	6-M12x1
LA-K11-200D4	200	D1-4	63.513	83	50	117	86	13	10	6-M12x1
LA-K11-200D5	200	D1-5	82.563	105	50	146	86	15	12	6-M12x1
LA-K11-200D6	200	D1-6	106.376	133	50	131	86	16	13	6-M16x1.5
LA-K11-250D5	250	D1-5	82.563	105	70	146	95	15	12	6-M12x1.5
LA-K11-250D6	250	D1-6	106.375	133	70	181	98	16	13	6-M15x1.5
LA-K11-250D8	250	D1-8	139.719	171	80	225	98	18	14	6-M20x1.5
LA-K11-325D6	325	D1-6	106.375	133	100	181	103.5	16	13	6-M16x1.5
LA-K11-325D8	325	D1-8	139.719	171	102	225	103.5	18	14	6-M20x1.5
LA-K11-325D11	325	D1-11	196.869	235	105	298	103.5	20	16	6-M22x1.5
LA-K11-380D8	380	D1-8	139.719	171	130	225	118	18	14	6-M20x1.5
LA-K11-380D11	380	D1-11	196.869	235	135	298	118	20	16	6-M22x1.5

Lathe accessory - 4-jaw self-centring lathe chuck - backplate mount

Specifications

- ☐ Short cylindrical center mounting
- ☐ Model LA-K12 chucks are provided with one-piece jaws(which include a set of internal and external jaws)3
- ☐ Chucks mounted from front is optional



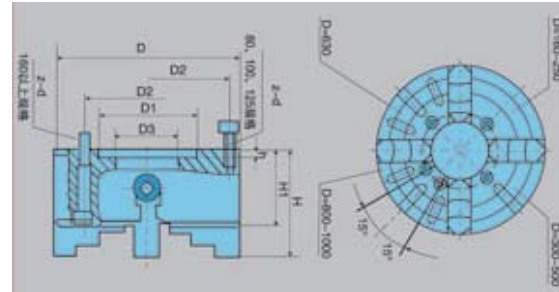
Model No.	Size	D1	D2	D3	H	H1	h	Z-d
LA-K12-80	80	55	66	16	66	50	3.5	4-M6
LA-K12-100	100	72	84	22	73	53.5	3.5	3-M8
LA-K12-125	125	95	108	30	84	58	4	3-M8
LA-K12-130	130	100	115	30	86	60	3.5	3-M8
LA-K12-160	160	130	142	40	95	65	5	3-M8
LA-K12-165	165	130	145	40	96.5	66.5	4.5	3-M8

Model No.	Size	D1	D2	D3	H	H1	h	Z-d
LA-K12-190	190	155	172.0	55	105	75	5	3-M10
LA-K12-200	200	165	180.0	65	109	75	5	3-M10
LA-K12-240	240	195	180	70	120	80	8	3-M12
LA-K12-250	250	206	215.0	80	120	80	5	3-M12
LA-K12-325	325	272	296	100	153.5	96	12	3-M16
LA-K12-380	380	325	350	135	155.5	98	6	3-M16

Lathe accessory - 4-jaw independent lathe chucks-back plate mount

Specifications

- High precision short cylindrical centering mounting
- Adjusted independently to center

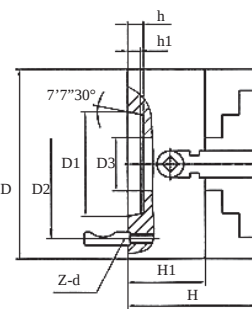


Item No.	Size	D1	D2	D3	H	H1	h	Z-d	Max. speed
LA-K72-80	80	55	66	22	56	42	3.5	4-M6	4000
LA-K72-100	100	72	84	25	54	54	3.5	4-M8	3500
LA-K72-125	125	95	108	30	78	56	4.5	4-M8	3000
LA-K72-160	160	65	95	45	93	75	5	4-M10	2500
LA-K72-200	200	80	112	56	107	80	6	4-M10	2000
LA-K72-250	250	110	130	75	120	90	6	4-M12	1600
LA-K72-300	300	152	130	75	134	90	6	4-M12	1200
LA-K72-320	320	140	165	95	134	90	6	4-M16	1200
LA-K72-350	350	130	168	95	134	90	6	4-M16	1200
LA-K72-400	400	160	185	125	143	95	8	4-M16	1000
LA-K72-450	450	180	205	140	147	100	8	4-M16	900
LA-K72-500	500	200	236	160	161	106	8	4-M20	800
LA-K72-630	630	220	258	180	180	118	10	4-M20	600
LA-K72-800	800	250	300	210	202	132	12	4-M20	500
LA-K72-1000	1000	320	370	260	230	150	15	4-M20	400

Lathe accessory - 4-jaw independent lathe chucks(direct camlock mount form D)

Specifications

- Direct mounting with stud and camlock
- Other direct mounting form is optional

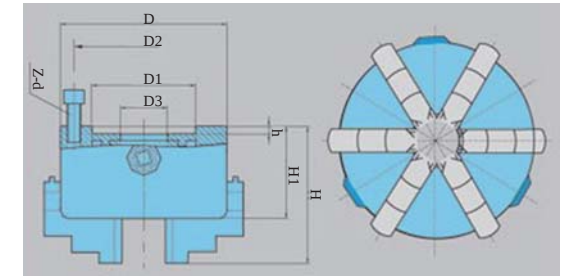


Model No.	Size	Mount taper	D	D1	D2	H	H1	h	h1	Z-d
LA-K72-160D3	160	3	53.975	70.6	45	93	65	13	10	3-M10X1
LA-K72-200D3	200	3	53.975	70.6	51	107	75		10	3-M10X1
LA-K72-200D4	200	4	63.513	82.6	56	107	75	13	10	3-M10X1
LA-K72-250D4	250	4	63.513	82.6	61	120	80		10	3-M10X1
LA-K72-320D4	320 350	4	82.563	104.8	61	134	90		10	3-M10X1
LA-K72-200D5	200	5	82.563	104.8	56	107	75	15	12	6-M10X1
LA-K72-250D5	250	5	82.563	104.8	75	120	80	15	12	6-M12X1
LA-K72-320D5	320 350	5	82.563	104.8	75	134	86		12	6-M12X1
LA-K72-400D5	400	5	82.563	104.8	75	143	90		12	6-M12X1
LA-K72-250D6	250	6	106.375	133.4	75	161	95	16	13	6-M16X1.5
LA-K72-320D6	320 350	6	106.375	133.4	95	120	80	16	13	6-M16X1.5
LA-K72-400D6	400	6	106.375	133.4	95	134	90	16	13	6-M16X1.5
LA-K72-500D6	500	6	106.375	133.4	103	161	106		13	6-M16X1.5
LA-K72-320D8	320 350	8	139.719	171.4	95	134	90	18	14	6-M20X1.5
LA-K72-400D8	400	8	139.719	171.4	125	143	95	18	14	6-M20X1.5
LA-K72-500D8	500	8	139.719	171.4	135	161	106		14	6-M20X1.5
LA-K72-400D11	400	11	196.869	235	125	143	95	20	16	6-M22X1.5
LA-K72-500D11	500	11	196.869	235	160	161	105	20	16	6-M22X1.5
LA-K72-630D11	630	11	196.869	235	180	180	118	20	16	6-M22X1.5
LA-K72-500D15	500	15	285.775	330.2	160	161	106	21	17	6-M24X1.5
LA-K72-630D15	630	15	285.775	330.2	180	180	118	21	17	6-M24X1.5

Lathe accessory - 6-jaw self-centring lathe chucks-backplate mount

Specifications

- Short cylindrical center mounting
- LA-K13 chucks are matched with stepped jaws
- Suitable for clamping and machining the thin-walled components
- Especially suitable for machining all kinds of cutting tools with handles



Item No.	Size	D	D1	D2	D3	H	H1	h	Z-d
LA-K13-100	4"	100	72	84	26	73	53.5	3.5	3-M8
LA-K13-130	5"	130	100	115	35	86	60	3.5	3-M8
LA-K13-165	6"	165	130	145	42	96.5	66.5	4.5	3-M8
LA-K13-200	8"	200	165	180	65	109	75	5	3-M10
LA-K13-252	10"	252	206	226	80	120	80	5	3-M12

Lathe accessory - 3-jaw shank type self-centering chucks



5C shank



MT mounting shank

Chuck dia	5C shank	R8 shank	MT2 shank
3"	LA-KB3C	LA-KB3R	LA-KB3T
4"	LA-KB4C	LA-KB4R	LA-KB4T
5"	LA-KB5C	LA-KB5R	
6"	LA-KB6C	LA-KB6R	

Lathe accessory - 40-position quick change tool posts(Europe style)

- Basic body and tool holder are made of high-quality steel which is hardened and ground. The tool holder is clamped against the basic body by an eccentric bolt.
- The system allows a repeat accuracy of 0.01mm with 40 possible angular positions of the tool holder.
- This accuracy is even guaranteed after numerous tool changes. The basic sizes, type A to D suit to various ranges of lathe.

5-piece sets



Model No.	Each set includes(5pcs/set)	N.W./kg
TOOA0	1 pcs tool post 540-000(A0), 3pcs 540-010(A0D12x50) and 1 pcs 540-020(A0B12x50)	1.13
TOOA1	1 pcs tool post 540-100(A1), 3pcs 540-115(A1D20x90) and 1 pcs 540-122(A1B20x90)	3.60
TOOE5	1 pcs tool post 540-200(B5), 3pcs 540-211(E5D20x100) and 1 pcs 540-220(E5B30x100)	7.50
TOOB2	1 pcs tool post 540-300(B2), 3pcs 540-311(B2D25x120) and 1 pcs 540-320(B2B32x130)	11.80
TOOC3	1 pcs tool post 540-400(C3), 3pcs 540-411(C3D32x150) and 1 pcs 540-422(C3B40x160)	23.70
TOOD1	1 pcs tool post 540-500(D1), 3pcs 540-511(D1D40x180) and 1 pcs 540-520(D1B50x180)	50.00

40-position tool post



Model No.	Series	Lathe swing(mm)	Height of cutting edge range(mm)
540-000	A0	120-220	D12 18.5-26.5
540-100	A1	150-300	D16 25.5-36.5 D20 29.5-40.5
540-200	E5	200-400	D20 32-49 D25 37-52
540-300	B2	300-500	D25 38-58 D32 46-57
540-400	C3	400-700	D32 47.5-87.5 D40 55.5-91.5 D45 61-91
540-500	D1	600-1000	D40 60-96 D50 72-102 D63 85-105

Lathe accessory - 40-position quick change tool posts(Europe style)

turning and facing holder "d"



Model No.	Series	H(mm)	L(mm)
540-010	A0D	12	50
540-111	A1D	16	75
540-112	A1D	16	80

Model No.	Series	H(mm)	L(mm)
540-113	A1D	16	90
540-114	A1D	20	75
540-110	A1D	20	80
540-115	A1D	20	90
540-211	E5D	20	100
540-212	E5D	25	100
540-213	E5D	12	100
540-214	E5D	16	100
540-311	B2D	25	120
540-312	B2D	25	140

Model No.	Series	H(mm)	L(mm)
540-313	B2D	32	120
540-314	B2D	32	140
540-411	C3D	32	150
540-412	C3D	32	170
540-413	C3D	40	150
540-414	C3D	40	170
540-415	C3D	45	170
540-511	D1D	40	180
540-512	D1D	50	180
540-513	D1D	63	180

boring bar holder"b"



Model No.	Series	Φd max(mm)	L(mm)
540-020	A0B	12	50
540-121	A1B	16	80
540-120	A1B	18	80
540-122	A1B	20	90
540-220	E5B	30	100

Model No.	Series	Φd max(mm)	L(mm)
540-320	B2B	32	130
540-421	C3B	32	160
540-422	C3B	40	160
540-520	D1B	50	180
540-521	D1B	63	180

drilling & boring bar holder"s"



Model No.	Series	Φd max(mm)	L(mm)
540-030	A0S	15	50
540-130	A1S	30	80
540-131	A1S	20	90
540-231	E5S	30	100

Model No.	Series	Φd max(mm)	L(mm)
540-232	E5S	40	100
540-330	B2S	40	120
540-431	C3S	40	150
540-432	C3S	50	150
540-530	D1S	63	180

cut-off tool holder"a"



Model No.	Series	Φd max(mm)	L(mm)
540-030	A0S	15	50
540-130	A1S	30	80
540-131	A1S	20	90
540-231	E5S	30	100

Model No.	Series	Φd max(mm)	L(mm)
540-232	E5S	40	100
540-330	B2S	40	120
540-431	C3S	40	150
540-432	C3S	50	150
540-530	D1S	63	180

m.t.bushing"l"



Model No.	Series	Φd(mm)	L(mm)	MK
540-151	A1L	30	80	1
540-152	A1L	30	90	2
540-251	E5L	30	96	2
540-252	E5L	40	114	3
540-350	B2L	40	120	2
540-351	B2L	40	120	3

Model No.	Series	Φd(mm)	L(mm)	MK
540-352	B2L	40	140	4
540-451	C3L	40	140	3
540-452	C3L	40	150	4
540-453	C3L	50	150	4
540-454	C3L	50	150	3
540-455	C3L	50	150	5
540-550	D1L	63	185	5

Lathe accessory - Quick change tool post (USA style)

The quick-changing tool post is a major spare part of the ordinary lathes. It is composed of the cutter-cartridge body and the toolholder for various cutting tools which can replace the square tools table for processing works like cylindrical facing, end facing, cutting, knurling, drilling, boring and reaming,etc. The height of tools can be regulated and positioned relative to the center line of machine spindle. It features external tool-mounting, tool-matching, quick tool-changing(with 3 to 5 seconds), great precision in positioning and great hardness etc.

piston type tool post sets(6-piece sets)



Model No.	Lathe swing(in.)	Each Set Includes
251-100	12	Each 1pc of 250-100、250-101、250-102、250-104、250-107、250-110
251-200	10-15	Each 1pc of 250-200、250-201、250-202、250-204、250-207、250-210
251-300	13-18	Each 1pc of 250-300、250-301、250-302、250-304、250-307、250-310
251-400	14-20	Each 1pc of 250-400、250-401、250-402、250-404、250-407、250-410

wedge type tool post sets(6-piece sets)



Model No.	Lathe swing(in.)	Each Set Includes
251-111	12	Each 1pc of 250-111、250-101、250-102、250-104、250-107、250-110
251-222	10-15	Each 1pc of 250-222、250-201、250-202、250-204、250-207、250-210
251-333	13-18	Each 1pc of 250-333、250-301、250-302、250-304、250-307、250-310
251-444	14-20	Each 1pc of 250-444、250-401、250-402、250-404、250-407、250-410
251-555	17-48	Each 1pc of 250-555、250-501、250-502、250-504、250-507、250-510

piston quick change tool post



Model No.	Lathe Swing		A		B	
	inch	mm	inch	mm	inch	mm
250-100	12	304	2 1/2	63.5	2 1/4	57.15
250-200	10-15	254-381	3	76.2	2 3/4	69.85
250-300	13-18	330-457	3 3/8	85.725	3	76.2
250-400	14-20	355-508	4	101.6	3 5/8	92.075

Model No.	C		D	E		Holder Code
	inch	mm		inch	mm	
250-100	3 3/4	95.25	M14×1.5	1 7/16	36.512	250-1xx
250-200	4 3/8	111.125	M16×1.5	1 5/8	41.275	250-2xx
250-300	4 7/8	126.825	M20×2	1 7/8	47.625	250-3xx
250-400	6	152.4	M22×2	2 1/8	53.975	250-4xx

Lathe accessory - Quick change tool post (USA style)

wedge quick change tool post



Model No.	Lathe Swing		A		B	
	inch	mm	inch	mm	inch	mm
250-111	12	304	2 1/2	63.5	2 1/4	57.15
250-222	10-15	254-381	3	76.2	2 3/4	69.85
250-333	13-18	330-457	3 1/2	88.9	3	76.2
250-444	14-20	355-508	4	101.6	3 5/8	92.075
250-555	17-48	432-1219	5	127	4 5/8	117.47

Model No.	C		D	E		Holder Code
	inch	mm		inch	mm	
250-111	3 3/4	95.25	M14×1.5	1 3/8	34.925	250-1xx
250-222	4 3/8	111.125	M16×1.5	1 9/16	39.68	250-2xx
250-333	4 7/8	126.825	M20×2	1 29/32	48.42	250-3xx
250-444	6	152.4	M22×2	2 1/8	53.975	250-4xx
250-555	7 3/8	187.32	M24×2	2 11/16	68.26	250-5xx

turning and facing holder



Model No.	A		B		C		D	
	inch	mm	inch	mm	inch	mm	inch	mm
250-101	15/16	23.81	1/2	12.70	7/16	11.11	1 1/2	38.10
250-201	1 1/8	28.57	5/8	15.87	1/2	12.70	1 3/4	44.45
250-301	1 7/16	36.51	3/4	19.05	5/8	15.87	2 1/8	53.97
250-401	1 11/16	42.86	1	25.40	3/4	19.05	2 1/2	63.50
250-501	3 3/16	55.56	1 1/4	31.75	1	25.40	3 1/8	79.37

boring,turning and facing holder



Model No.	A		B		C		D		d	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
250-102	15/16	23.81	1/2	12.70	7/16	11.11	1 1/2	38.10	7/16	11.11
250-202	1 1/8	28.57	5/8	15.87	1/2	12.70	1 3/4	44.45	1/2	12.70
250-302	1 7/16	36.51	3/4	19.05	5/8	15.87	2 1/8	53.97	5/8	15.87
250-402	1 11/16	42.86	1	25.40	3/4	19.05	2 1/2	63.50	3/4	19.05
250-502	3 3/16	55.56	1 1/4	31.75	1	25.40	3 1/8	79.37	1 1/8	28.57

heavy duty boring bar holder



Model No.	A		B		C		D	
	inch	mm	inch	mm	inch	mm	inch	mm
250-104	3/4	19.05	1 1/2	38.10	3/4	19.05	5/8	15.87
250-204	7/8	22.22	1 3/4	44.45	1	25.40	3/4	19.05
250-304	1	25.40	2	50.80	1	25.40	3/4	19.05
250-404	1 1/4	31.75	2 1/2	63.50	1 1/4	31.75	1	25.40
250-504	1 9/16	39.68	3 1/8	79.37	1 1/2	38.10	1 1/4	31.75
250-141	7/8	22.22	1 3/4	44.45	1	25.40	3/4	19.05
250-241	1	25.40	2	50.80	1 1/4	31.75	1	25.40
250-341	1 1/8	28.57	2 1/4	57.15	1 1/4	31.75	1	25.40
250-441	1 3/8	28.75	2 3/4	57.15	1 1/2	31.75	1 1/4	25.40

Lathe accessory - Quick change tool post (USA style)

morse taper holder for drilling

Drills with carriage by using power feed instead of tail-stock.
It permits drilling,boring,and reaming,etc.



Model No.	A		B		M.T
	inch	mm	inch	mm	
250-105	3/4	19.50	1 1/2	38.10	2"
250-205	7/8	22.225	1 3/4	44.45	2"
250-305	1	25.40	2	50.80	3"
250-405	1 1/4	31.75	2 1/2	63.50	3"
250-153	3/4	19.50	1 1/2	38.10	3"
250-253	7/8	22.225	1 3/4	44.45	3"
250-353	1 1/16	26.98	2 1/8	53.97	4"
250-453	1 3/16	30.16	2 3/8	60.32	4"

universal parting blade tool holder

Equipped with T-cut blades. Enable you to cut off close to chuck.



Model No.	A		B		D	
	inch	mm	inch	mm	inch	mm
250-107	3/16	4.76	1/2	12.70	1 1/2	38 1/9
250-207	3/16	4.76	11/16	17.46	1 3/4	44.45
250-307	3/16	4.76	3/4	19.05	2	50.8
250-407	1/4	6.35	7/8	22.23	2 1/2	63.5
250-507	1 1/4	6.35	1 3/16	30.16	2 3/4	69.85

knurling,turning&facing holder

Equipped with knurls and square tools,
enable you to knurl,face,bore,etc.



Model No.	A		B		C		E		E1	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
250-110	7/8	22.22	2 1/2	63.50	1 9/16	39.68	1/2	12.70	3/8	9.53
250-210	1	25.40	2 5/8	66.67	1 3/4	44.45	5/8	15.87	1/2	12.70
250-310	1 3/16	30.16	3 1/8	79.37	2	50.80	3/4	19.05	1/2	12.70
250-410	1 7/16	36.51	3 3/4	95.25	2 1/2	63.50	1	25.40	3/4	19.05
250-510	1 7/8	47.62	4 1/2	114.30	3 1/8	79.37	1 1/4	31.75	1	25.40

Lathe accessory - Quick change tool posts(Italy style)

5-piece sets



Model No.	Each Set Includes
500-M	1PCS 501-M、 3PCS 502-M AND 1PCS 503-M
500-AR-AP	1PCS 501-AR-AP、 3PCS 502-AR-AP AND 1PCS 503-AR-AP
500-A	1PCS 501-A、 3PCS 502-A AND 1PCS 503-A
500-BR-BP	1PCS 501-BR-BP、 3PCS 502-BR-BP AND 1PCS 503-BR-BP
500-B	1PCS 501-B、 3PCS 502-B AND 1PCS 503-B
500-C	1PCS 501-C、 3PCS 502-C AND 1PCS 503-C
500-D	1PCS 501-D、 3PCS 502-D AND 1PCS 503-D

Lathe accessory - Quick change tool posts(Italy style)

quick change tool post



Model No.	Centre Height(mm)
501-M	120
501-AR-AP	140
501-A	170
501-BR-BP	200
501-B	230
501-C	280
501-D	350

toolholder tool bits



Model No.	Max Square and Rectangular Tools T(mm)
502-M	16
502-AR-AP	16
502-A	20
502-BR-BP	25
502-B	32
502-C	32
502-D	40

toolholder for round shanks



Model No.	Max Holding Dia.(mm)
503-M	14
503-AR-AP	16
503-A	18
503-BR-BP	20
503-B	24
503-C	26
503-D	35

toolholder morse taper shank



Model No.	Taper Hole
504-M	1MT
504-AR-AP	1MT
504-A	2MT
504-BR-BP	3MT
504-B	3MT
504-C	4MT
504-D	5MT

heavy duty boring bar holder



Model No.	Max Holding Dia.(mm)
540-M	18
540-AR-AP	20
540-A	25
540-BR-BP	32
540-B	40
540-C	50
540-D	60

heavy duty boring bar holder



Model No.	Parting Blade
550-M	15×4×3
550-AR-AP	18×4×3
550-A	20×6×5
550-BR-BP	20×6×5
550-B	25×6×5
550-C	30×6×5
550-D	35×8×7

Lathe accessory - Quick change tool posts(Italy style)

tool holder accessories



Model No.	CH	Model No.	L	Model No.	L	Model No.	Φ
515-M	7	505-M	66	506-M	20	508-M	7
515-AR-AP	8	505-AR-AP	81	506-AR-AP	26	508-AR-AP	8
515-A	8	505-A	90	506-A	30	508-A	10
515-BR-BP	10	505-BR-BP	108	506-BR-BP	37	508-BR-BP	10
515-B	10	505-B	125	506-B	42	508-B	12
515-C	12	505-C	140.5	506-C	48	508-C	14
515-D	14	505-D	156	506-D	50	508-D	14

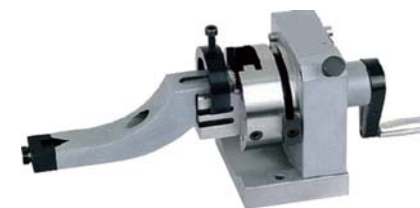
Grinding machine accessory - Punch former(two-way)

Punch former is applicable on surface grinder or universal grinder for grinding round, radius and multi-angle points of punches and for precisely EDM electrode. With its radius dresser arm,it is able to dress wheels to different straight and arc profiles.



Model No.	GM-P1
Center height	80mm
Clamping diameter in V-slot	4-30mm
Travel of V-block	25mm
Transversal travel of slide	±12.5mm
Quantity of tooth	24
Max radius when dressing arc	Convex:R50mm Concave:R100mm
Outside size	360x116x145mm

Grinding machine accessory - Punch former(one-way)



Model No.	GM-P2
Center height	80mm
Clamping diameter in V-slot	4-30mm
Travel of V-block	25mm
Quantity of tooth	24
Max wheel diameter	200mm
Max radius when dressing arc	Convex:R50mm Concave:R100mm

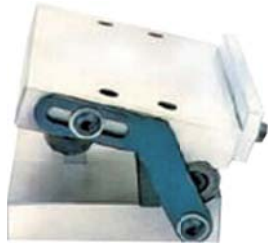
Grinding machine accessory - 3-jaws punch former



It is attached with 3jaws which can hold workpieces quickly and conveniently. It can also adjust center of 3 jaws. It is suitable to produced in batch.

Model No.	GM-P3
3 jaws chuck hole diameter	16mm
Min clamping diameter	2mm
Max clamping diameter	70mm

Grinding machine accessory - Sine plate for punch former

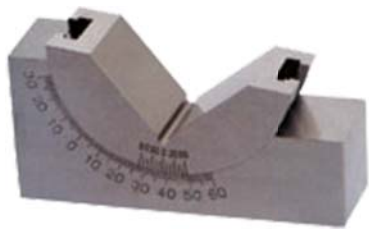


Model No.	
GM-P5	Sine plate is applied on GM-P1,GM-P2,GM-P3,GM-P4 punch former to make sine angles the workpiece need.

Grinding machine accessory - Adjustable angle block

Specifications

- 90° angle block adjustable through 0° to 60°
- With locking facility



Model No.	Range	Size
542-101	0-60°	75×25×33mm
542-102	0-60°	102×30×46mm
542-103	0-60°	102×46×46mm

Grinding machine accessory - Radius and angle dresser

Specifications

- No height gage or set-up aids required
- Radius is set on the grinder by measuring over the two pins or by inserting a gage block, for direct reading
- Inside or outside radius is determined by using either the left hand or right hand pins



Model No.	Max dia of grinding wheel	Inserting hole diamond dresser	Overall length	Mounting base	Height of center	Wt(kg)
GM-D1	300mm	9.525mm	387mm	134×105mm	86.36mm	13

Grinding machine accessory - Universal wheel dresser

Specifications

- It is adaptable on surface grinder and universal tool grinder for dressing grinding wheels into various cross sections of straight or arc shapes
- To dress convex arc surface: $H=L+R$
- To dress concave arc surface: $H=L-R$
- H.- Distance between outer generation lines of two location pins
- R.-Radius of the arc surface to be dressed
- L.-Distance from tip of diamond cutter to base plate

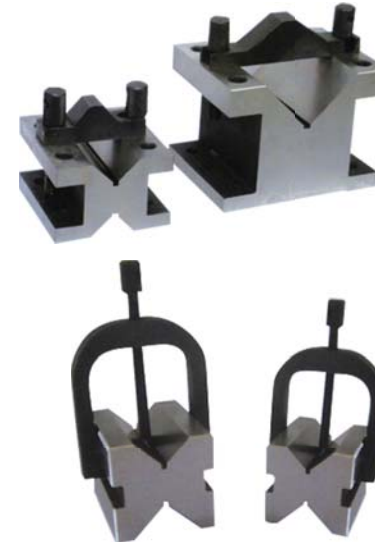


Model No.	Height of center	Measuring quasi-pin dia	Max swing distance of diamond cutter	Max wheel diameter	Max size of arc may be dressed	Rating accuracy or Turret index	Max translation of feed	Feed per division of handle scale	Over all dimension	Weight
GM-D2	165mm	10mm	±20mm	200mm	±40mm	5'	20mm	0.02mm	160×106×180mm	5kg

Grinding machine accessory - V-blocks and clamps

Specifications

- V-blocks are parallel, square and centered within 0.002"
- Completely hardened and ground tool steel
- Wooden case
- Hardness: HRC52-58



Model No.	Size (LxWxH)	Model No.	Size (LxWxH)
GAMV-01A	1-3/8"×1-3/8"×1-3/16"	GAMV-05A	35×35×30mm
GAMV-02A	2-3/8"×2-3/8"×2"	GAMV-06A	60×60×50mm
GAMV-03A	4-1/8"×4-1/8"×3-1/16"	GAMV-07A	100×75×75mm
GAMV-04A	3×4×3"	GAMV-08A	105×105×78mm

Model No.	Size (LxWxH)	Model No.	Size (LxWxH)
GAMV-01B	40×30×50mm	GAMV-05B	41×32×32mm
GAMV-02B	35×35×45mm	GAMV-06B	1-3/8"×1-5/8"×1-3/4"
GAMV-03B	50×40×50mm	GAMV-07B	2-1/2"×2-3/4"×2"
GAMV-04B	41×35×44mm	GAMV-08B	1-5/8"×1-3/4"×2-3/4"

Grinding machine accessory - Toolmakers' V-block and clamp

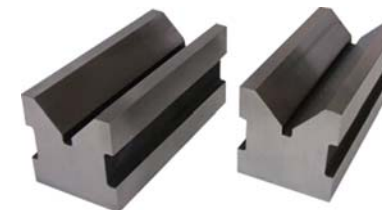
Specifications

- All surfaces are parallel and square are within .0002"
- Top 90degree V-Groove central, parallel and square with all surface within .0003"
- Side 90degree V-Groove on Base central, parallel and square with all surfaces within .00015"
- Harden steel ground
- Hardness: HRC50-55

Model No.	Size (LxWxH)
GAMV-01C	3-1/2" × 1-7/8" × 1-7/8"



Grinding machine accessory - Toolmakers' V-block and clamp



Model No.	Size (LxWxH)	Model No.	Size (LxWxH)
GAMV-01D	100×40×30mm	GAMV-04D	250×85×60mm
GAMV-02D	150×50×40mm	GAMV-05D	300×100×70mm
GAMV-03D	200×70×50mm		

Grinding machine accessory - 4V V-blocks



Model No.	Size (LxWxH)	Model No.	Size (LxWxH)
GAMV-01E	60×120×100mm	GAMV-05E	75×75×50mm
GAMV-02E	75×150×130mm	GAMV-06E	100×80×60mm
GAMV-03E	90×200×170mm	GAMV-07E	150×100×60mm
GAMV-04E	60×60×50mm	GAMV-08E	200×150×80mm

Grinding machine accessory - Precision non-magnetic M type V-block

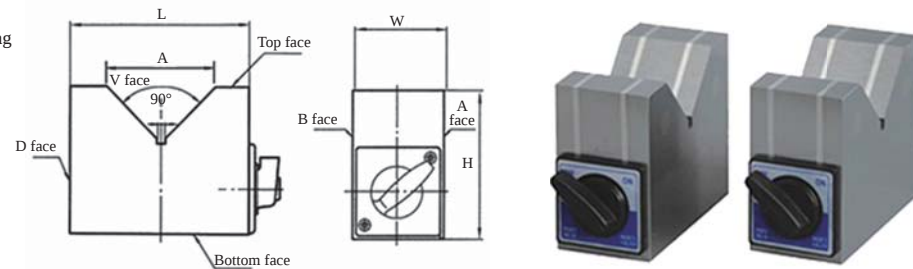


Model No.	L	H	W	E	F	G
GAMV-01F	50	24	19	24	17	13
GAMV-02F	75	35	24	37	24	16
GAMV-03F	100	52	33	50	30	20
GAMV-04F	125	69	44	63	37	26
GAMV-05F	150	80	50	75	45	30
GAMV-06F	175	90	62	87	50	35
GAMV-07F	200	110	70	100	60	40

Grinding machine accessory - Magnetic V-block

Specifications

- Holding cylindrical workpieces for grinding
- Precision ground flat, square and parallel to 0.001"/0.02mm
- Sold in pairs

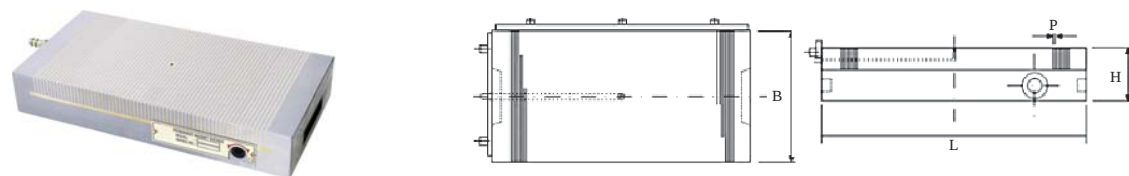


Model No.	Magnetic Force	Applicable Diameter	L	W	H	a
GAMV-01G	15kg	50	70	40	50	34
GAMV-02G	20kg	80	100	50	80	60
GAMV-03G	23kg	125	150	50	100	100

Grinding machine accessory - Special chuck for E.D.M.

Specifications

- It uses oil to flush the oil pore, so that it could rinse the dirty mass and make the work pieces be caught more tightly. It is the ideal clamping device for E.D.M machine.

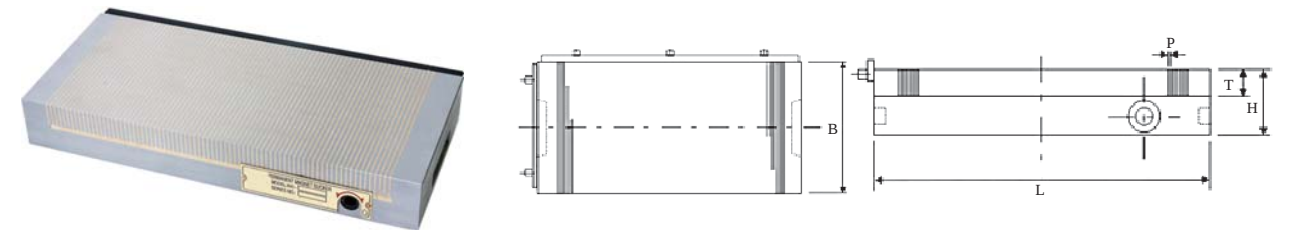


Model No.	L (mm)	B (mm)	H (mm)	Magnetic(N/cm ²)	Pole	Weight(kg)
GA-CE1530	300	150	48	80	0.5+1.5 or 1+3	16.8
GA-CE1535	350	150	48			19.6
GA-CE1540	400	150	52			23.8
GA-CE2040	400	200	52			31.8

Grinding machine accessory - Permanent magnetic chuck

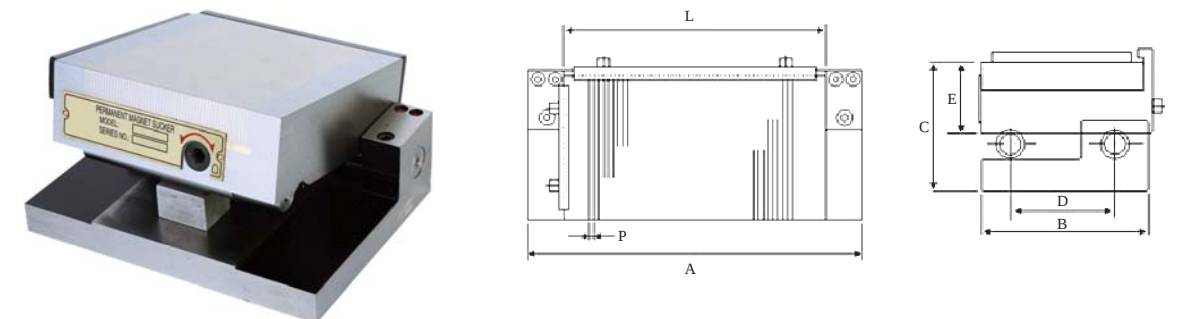
Specifications

- Magnetic force ON/OFF switch
- The fine-pitched magnetic poles make it ideally suitable for small and thin work pieces



Model No.	L	B	H	T	P	Magnetic(N/cm ²)	Weight(kg)
GA-C1010	100	100	45	18	0.5+1.5 or 1+3 or 0.5+1	140 or 120 or 100 or 80	3.6
GA-C7016	160	70	45	18			4
GA-C1515	150	150	48	20			8
GA-C1520	200		48				11
GA-C1525	250		48				13.8
GA-C1530	300		48				16.8
GA-C1535	350		48				19.6
GA-C1540	400		53				23.8
GA-C1545	450		53				26.5
GA-C2020	200	200	48	22			15
GA-C2025	250		48				18.5
GA-C2035	350		53				28.5
GA-C2040	400		53				31.8
GA-C2045	450		53				39.5
GA-C2550	500	250	58	23			53.5
GA-C3060	600	300	58				77

Grinding machine accessory - Sine plate with fine magnetic chuck

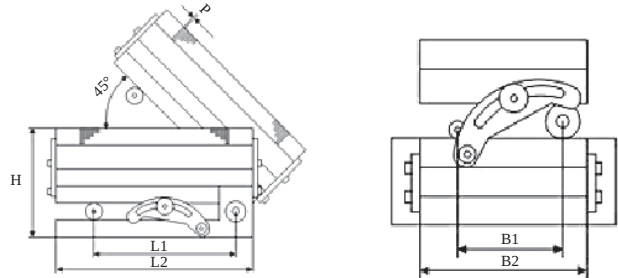


Model No.	L	B	C	D	E	A	P	Tilting Degree	Weight(kg)
GA-CS10175	175	100	86	75	48	225	0.5+1.5 or 1+3 or 0.5+1	0-60°	11.5
GA-CS1515	150	150		100		200			15
GA-CS1530	300	150		100		350			32
GA-CS12525	250	125		75		300			19.5

Grinding machine accessory - Double sine plate with super magnetic chuck

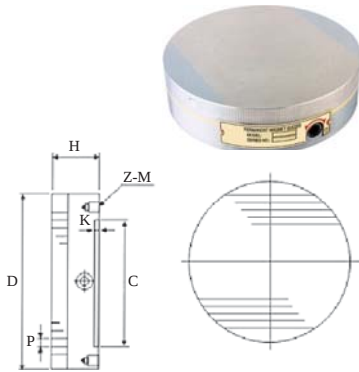
Specifications

- It is applicable to high-precision angle grinding processing at the front and back or left and right angles.



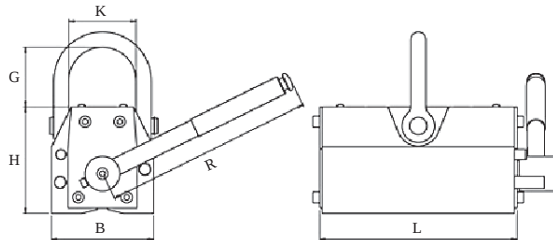
Model No.	L1	L2	H	B1	B2	P	Tilting Degree	Weight(kg)
GA-CSD10175	100	225	110	75	100	0.5+1.5 or 1+3 or 0.5+1	0-60°	12.6
GA-CSD1515	100	200	115	100	150			17
GA-CSD1530	150	300	115	100	150			34.5
GA-CSD12525	1501	250	115	100	125			23

Grinding machine accessory - Circular permanent-magnetic chuck



Model No.	D	H	K	C	Z	M	P	Weight(kg)
GA-C125	125	48	3	80	4	M6	0.5+1.5 or 1+3 or 0.5+1	4.6
GA-C150	150	48	3	100		M6		6.6
GA-C160	160	48	3	100		M8		8.9
GA-C200	200	52	4	120		M8		12.8
GA-C250	250	52	4	160		M8		20
GA-C300	300	58	4	220		M8		32
GA-C400	400	58	4	300		M10		57
GA-C500	500	65	5	480		M12		100
GA-C600	600	65	5	528		M12		144

Grinding machine accessory - Permanent magnetic lifter



Model No.	Rated Lifting Capacity (kg)		Shape Size				Test Max Pull Off Force	Weight
	Steel Plate	Round Steel	L	B	H	R		
GA-PL01	400	200	166	99	110	223	1200	13
GA-PL02	600	300	198	110	116	257	1800	18
GA-PL03	1000	500	246	146	154	303	3000	38
GA-PL04	2000	1000	354	168	172	465	5000	65
GA-PL05	3000	/	394	196	204	471	7500	105
GA-PL06	5000	/	480	284	279	728	11000	265

Grinding machine accessory - Electro-permanent magnetic chuck

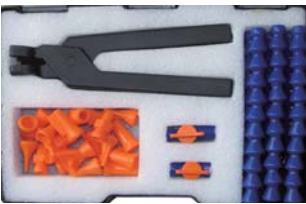


Model No.	Size					Height	Magnetic Moment	Pole	Pole No.	Magnetic Disk Net Weight(kg)
	W	L	S	S1	M					
GA-EP01	240	340	30	25	20	70	10	50×50	12	41
GA-EP02	300	490							24	74
GA-EP03	360	640							40	115
GA-EP04	420	640							48	133
GA-EP05	480	790							70	187
GA-EP06	540	940							96	251
GA-EP07	300	420						70×70	12	64
GA-EP08	300	610							18	93
GA-EP09	460	610							30	143
GA-EP10	460	800							40	187
GA-EP11	540	800							48	220
GA-EP12	540	990							60	272

Grinding machine accessory - Coolant hose kit

H701

Flexible Plastic Hose Connector kit



Description

- 1/4" Hose (6×150mm = 900mm long)
- 1/4" BSP male in-line control valve
- 1/4" In-line control valve
- 1/8" BSP connector (2 pieces)
- 1/4" BSP connector (2 pieces)
- 1/16" Round nozzle (2 pieces)
- 1/8" Round nozzle (2 pieces)
- 1/4" Round nozzle (2 pieces)
- 1/4" "Y" Fitting
- 1/4" 90° Nozzle set (4 pieces)
- 1/4" Flat nozzle set (4 pieces)
- 1/4" Flare nozzle
- 1/4" Hose connector pliers

H702

Flexible Plastic Hose Connector Kit



Description

- 1/2" Hose (6×150mm = 900mm long)
- 1/2" BSP male in-line control valve
- 1/2" In-line control valve
- 3/8" BSP connector (2 pieces)
- 1/2" BSP connector (2 pieces)
- 1/4" Round nozzle (2 pieces)
- 3/8" Round nozzle (2 pieces)
- 1/2" Round nozzle (2 pieces)
- 1/2" "Y" fitting
- 1/2" 90° nozzle set (4 pieces)
- 1/4" Flat nozzle set (4 pieces)
- 1/2" Straight connector
- 1/2" Hose connector pliers

H703

Flexible Plastic Hose Connector Kit



Description

- 1/4" plier ,1pc
- 1/4" NPT male valves 2pcs
- 1/8",1/4" NPT connector,2pcs/each
- 1/16", 1/8", 1/4" round nozzle,2pcs/each
- 1/4" "Y" fitting 1pc
- 1/4" Hose 150mm (6 x 150mm = 900mm long)
- 1/4" 90° nozzle set
- 1/4" Magnetic seat, made from iron or plastic

Grinding machine accessory - Coolant hose kit

H704

Flexible Plastic Hose Connector Kit



Description

- ☐ 1/2" plier ,1pc
- ☐ 1/2" NPT male valve and in-line valve,1pc/each
- ☐ 3/8",1/2" NPT connector,2pcs/each
- ☐ 1/4", 3/8", 1/2" round nozzle,2pcs/each
- ☐ 1/2" "Y" fitting 1pc
- ☐ 1/2" Hose 150mm (6×150mm=900mm long)
- ☐ 1/2" 90° nozzle set
- ☐ 1/2" in-line control valve,1pc
- ☐ 1/2" Magnetic seat, made from iron or plastic

H705

Flexible Plastic Hose Connector Kit



Description

- ☐ 1/4" Hose (2×150mm=300mm long)
- ☐ 1/16" round nozzle
- ☐ 1/8" round nozzle
- ☐ 1/4" round nozzle
- ☐ 1/4" flat nozzle
- ☐ 1/8" NPT connector
- ☐ 1/4" NPT connector

H706

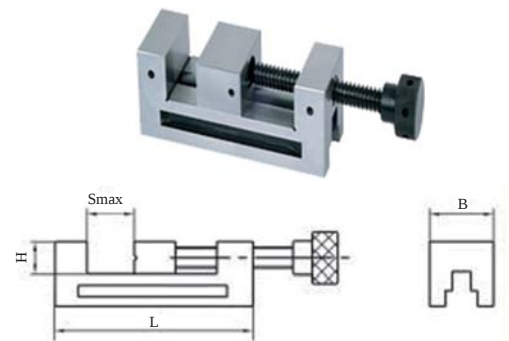
Flexible Plastic Hose Connector Kit



Description

- ☐ 1/2" Hose (2×150mm=300mm long)
- ☐ 1/16" round nozzle
- ☐ 1/8" round nozzle
- ☐ 1/4" round nozzle
- ☐ 3/8" NPT connector
- ☐ 1/2" NPT connector

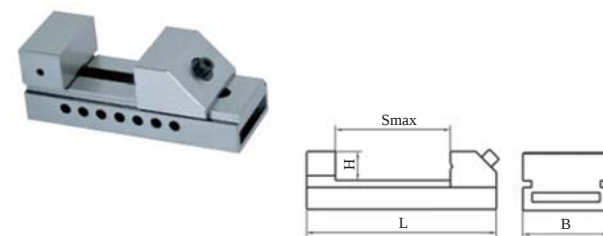
Vice - Precision toolmakers vises



Model No.	B(mm)	H(mm)	Smax(mm)	L(mm)
VQGG50	50	25	65	155
VQGG60	60	25	55	110
VQGG63	63	32	85	190
VQGG73	73	35	100	210
VQGG80	80	40	100	220
VQGG88	88	40	125	250
VQGG100	100	45	125	260
VQGG125	125	50	160	300
VQGG125A	125	50	210	350
VQGG150	150	50	175	315

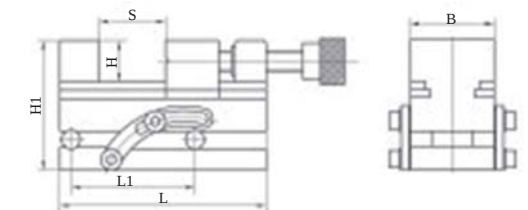
Vice - Precision toolmakers vises

Model No.	B(mm)	H(mm)	Smax(mm)	L(mm)	Wt(kg)
VQKG25	26	9.15	22	65.4	0.5
VQKG36	36	20	40	100	1.2
VQKG38	38	20	44	105	1.3
VQKG50	50	25	65	140	2.0
VQKG63	63	32	85	175	3.0
VQKG73	73	35	100	190	4.1
VQKG80	80	40	100	200	5.5
VQKG88	88	40	125	235	7.3
VQKG100	100	45	125	245	10.0
VQKG125	125	50	160	285	18.0



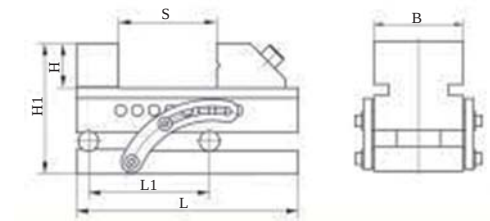
Model No.	B(mm)	H(mm)	Smax(mm)	L(mm)	Wt(kg)
VQKG150	150	50	200	330	21.5
VQKG150A	150	50	250	380	23.0
VQKG150B	150	50	300	430	24.0

Vice - Precision sine toolmakers vises



Model No.	B(mm)	H(mm)	H1(mm)	Smax(mm)	L(mm)	L1		Adjustable Angle Range
						mm	in	
VX50	50	25	86.6	60	140	100	4	0~45°
VX63	63	32	94.6	85	175		5	
VX73	73	35	111.0	90	190			
VX80	80	40	121.0	95	200			
VX88	88	40	125.0	120	235			
VX100	100	45	139.2	125	245	200	10	
VX125	125	50	154.2	160	285			
VX150	150	50	160.9	190	330	200	10	

Vice - Precision sine toolmakers vises



Model No.	B(mm)	H(mm)	H1(mm)	Smax(mm)	L(mm)	L1		Adjustable Angle Range
						mm	in	
VX501	50	25	79.36	65	140	100	4	0~45°
VX631	63	32	92.36	85	175		5	
VX731	73	35	104	100	190			
VX801	80	40	117	100	200			
VX881	88	40	122	125	235			
VX1001	100	45	134.08	125	245	200	10	
VX1251	125	50	144.08	160	285			
VX1501	150	50	150.9	200	330	200		

Vice - Precision universal vises

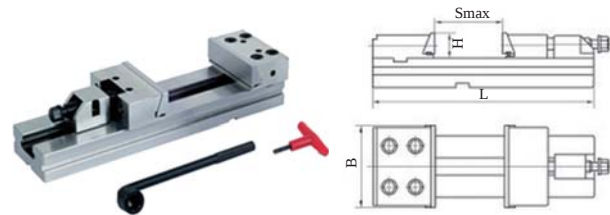


Model No.	Jaw Width B(mm)	Jaw Depth H(mm)	Max. Opening(mm)
VU70	70	30	85
VU120	120	40	155

Vice - Precision modular vises

Specifications

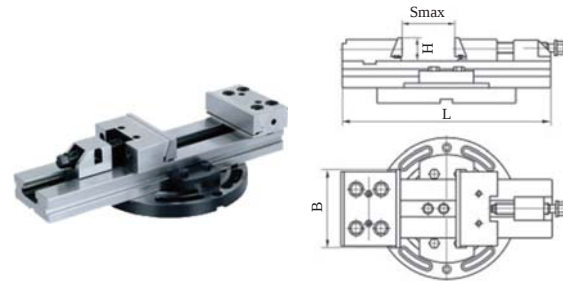
- Produced of high quality steel, carburized to surface hardness:HRC58-62
- Parallelism 0.005mm/100mm, squareness 0.005mm
- Locate position by pilot pin, adjust pin on body according to opening size, then clamp quickly
- It is widely used on machining center and other precision machine tools
- Swivel base is optional



Model No.	B(mm)	H(mm)	Smax(mm)	L(mm)	Clamping force(kg)
V100-I	100	30	100	270	3000
V125-I	125	40	150	345	3000
V150A-I	150	50	200	420	5000
V150B-I	150	50	300	520	5000
V150C-I	150	50	400	620	5000
V175A-I	175	60	200	455	6000
V175B-I	175	60	300	555	6000
V175C-I	175	60	400	655	6000
V175D-I	175	60	500	755	6000
V175E-I	175	60	600	855	6000
V200A-I	200	65	200	495	10000

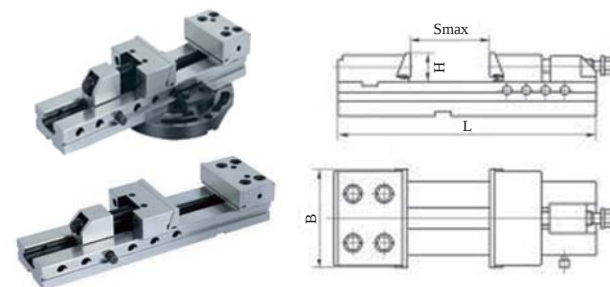
Main attachment of modular vises

- A piece of box wrench
- A piece of T-wrench
- Four piece of vise holding
- Work stop with main bolt
- Positioning key-nuts (a set include two pieces)



Model No.	B(mm)	H(mm)	Smax(mm)	L(mm)	Clamping force(kg)
V200B-I	200	65	300	595	10000
V200C-I	200	65	400	695	10000
V200D-I	200	65	500	795	10000
V200E-I	200	65	600	895	10000
V300A-I	300	80	200	535	12000
V300B-I	300	80	300	635	12000
V300C-I	300	80	400	735	12000
V300D-I	300	80	500	835	12000
V300E-I	300	80	600	935	12000
V300F-I	300	80	700	1035	12000
V300G-I	300	80	800	1135	12000

Vice - Quick action precision modular vises



Specifications

- Swivel base is optional

Model No.	B(mm)	H(mm)	Smax(mm)	L(mm)	Clamping force(kg)
V125-III	125	40	150	345	3000
V150A-III	150	50	200	420	5000
V150B-III	150	50	300	520	5000
V175C-III	175	60	400	655	6000

Vice - Swivel base



Model No.	A(mm)	B(mm)	C(mm)	D(mm)	Clamping force(kg)
V100-08	180	20	43.5	75	V100-I
V125-08	226	23	47	95	V125-I V125-III
V150-08	290	28	58	125	V150A(B,C)-I V150A(B)-III
V175-08	320	28	58	145	V175A(B,C,D,E)-I V175C-III
V200-08	370	34	74	170	V200A(B,C,D,E)-I
V300-08	400	38	78	195	V300A(B,C,D,E,F,G)-I

Vice - Single large opening & double opening

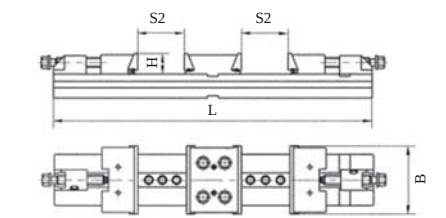
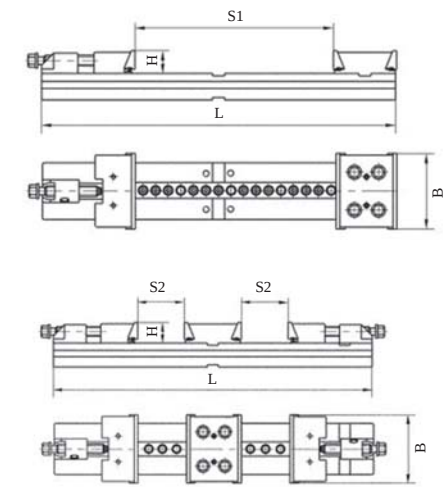
Single large opening



Double opening



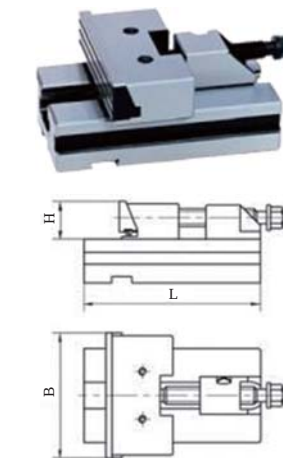
Model No.	S1(mm)	Code	S2	B(mm)	H(mm)	L(mm)
V83100	290	ZQ83100(I)	2×90	100	30	460
V83125	320	ZQ83125(I)	2×100	125	40	520
V83150	360	ZQ83150(I)	2×110	150	50	580
V83150A	460	ZQ83150A(I)	2×160	150	50	680
V83175	400	ZQ83175(I)	2×120	175	60	666
V83175A	500	ZQ83175A(I)	2×170	175	60	766
V83175B	600	ZQ83175B(I)	2×220	175	60	866



Model No.	S1(mm)	Code	S2	B(mm)	H(mm)	L(mm)
V83175C	700	ZQ83175C(I)	2×270	175	60	966
V83200	500	ZQ83200(I)	2×150	200	65	805
V83200A	600	ZQ83200A(I)	2×200	200	65	905
V83200B	700	ZQ83200B(I)	2×250	200	65	1005
V83200C	800	ZQ83200C(I)	2×300	200	65	1105
V83200D	900	ZQ83200D(I)	2×350	200	65	1205

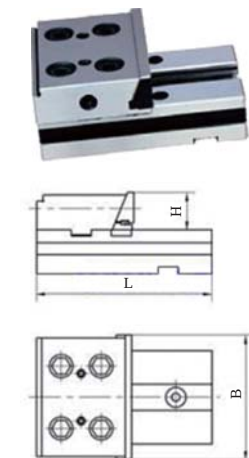
Vice - Module elements

Movable jaw section



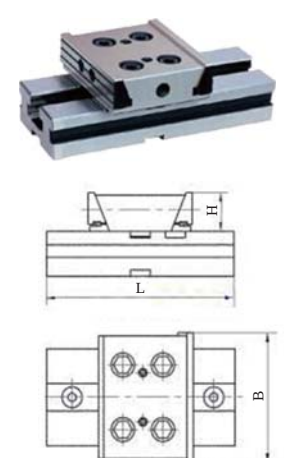
Model No.	L(mm)	B(mm)	H(mm)
VZQ84100-I	140	100	30
VZQ84125-I	160	125	40
VZQ84150-I	230	150	50
VZQ84175-I	240	175	60
VZQ84200-I	300	200	65

Fixed jaw section



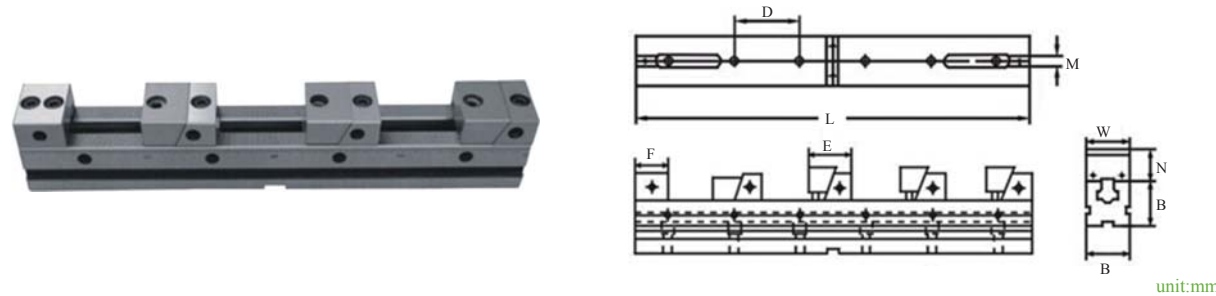
Model No.	L(mm)	B(mm)	H(mm)
VZQ84100-II	140	100	30
VZQ84125-II	160	125	40
VZQ84150-II	230	150	50
VZQ84175-II	240	175	60
VZQ84200-II	300	200	65

Double fixed Jaw Section



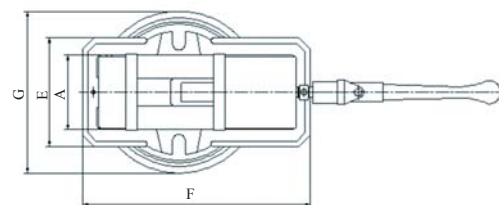
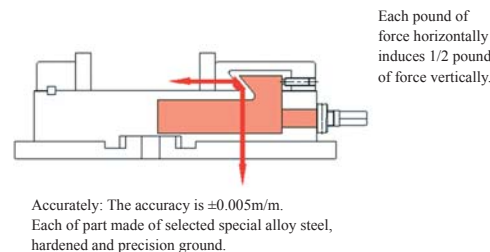
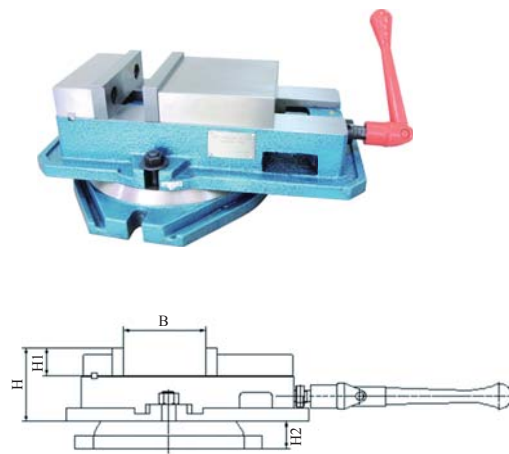
Model No.	L(mm)	B(mm)	H(mm)
VZQ84100-III	140	100	30
VZQ84125-III	160	125	40
VZQ84150-III	230	150	50
VZQ84175-III	240	175	60
VZQ84200-III	300	200	65

■ Vice - Multiflex series vises



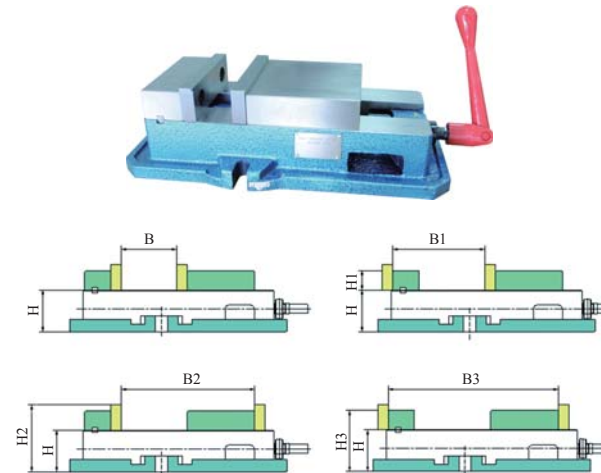
Model No.	L	B	W	D	F	E	N	M	Max opening according to pieces to be clamped			
									1A	2A	3A	4A
VF50	300	50	49	100	38	55-58	25	16	208	75	30	8
	400								308	125	64	33
	500								408	175	96	58
	600								508	225	129	83
	700								608	275	162	108
	400								275	100	41	12
VF75	500	75	74		50	70-75	40		375	150	75	37
	600								475	200	108	62
	700								575	250	141	87
	800								675	300	174	102

■ Vice - High-precision anglock machine vice

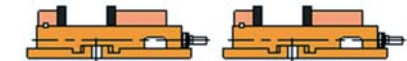


Order No.	Model	Jaw Width A	Jaw Opening B	Jaw Height H1	H	E	F	G	Base Height H2	N.W.(kg)
C011010	LV-75	3" 78	2-61/64" 75	63/64" 25	3-5/32" 80	4-1/4" 108	10-15/32" 266	6-7/64" 155	1-3/16" 30	12
C011110	LV-100	4" 105	4-5/6" 110	1-9/64" 29	3-37/64" 91	6-3/16" 157	12-3/4" 234	9-7/32" 234	1-29/64" 37	27
C011210	LV-130	5" 126	4-3/4" 120	1-1/2" 40	4-1/16" 103	7-1/64" 178	14-5/16" 363	9-3/4" 248	1-1/2" 38	32
C011310	LV-150	6" 150	5-9/16" 160	1-7/8" 48	4-27/32" 123	8-11/32" 212	16-21/32" 423	12-1/4" 310	1-1/2" 38	48
C011410	LV-150X	6" 150	7-1/2" 190	1-7/8" 48	4-27/32" 123	8-1/2" 215	17" 432	12-1/4" 310	1-1/2" 38	56
C011510	LV-200	8" 206	8-5/8" 218	2-23/64" 60	5-45/64" 145	10-3/4" 273	21-5/8" 550	14-3/8" 366	1-49/64" 45	93

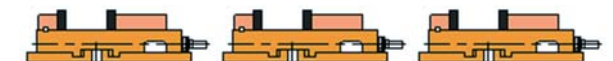
■ Vice - Anglock precision machine vice



High precision vises for 2 workpiece
 $H \leq 0.005$ $H1 \leq 0.005$
 $H2 \leq 0.005$ $H3 \leq 0.005$



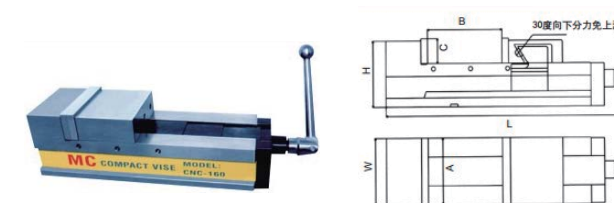
High precision vises for 3 to 5 workpiece
 $H \leq 0.008$ $H1 \leq 0.008$
 $H2 \leq 0.008$ $H3 \leq 0.008$



Model No.	Model	Maximum Jaw Opening Capacity			
		B	B1	B2	B3
C021010	LV-75S	75	115	160	200
C021110	LV-100S	110	152	218	208
C021210	LV-130S	120	165	247	305

Model No.	Model	Maximum Jaw Opening Capacity			
		B	B1	B2	B3
C021310	LV-150S	160	220	315	380
C021410	LV-150XS	190	258	330	399
C021510	LV-200S	218	276	389	470

■ Vice - CNC series machine vise



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)	Over Length(mm)
VC100	100	48	125	430
VC130	130	55	240	495
VC160	160	58	240	585
VC200	200	63	280	670

■ Vice - Universal power vise



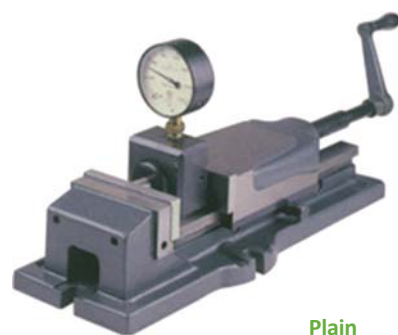
Model No.	Jaw Width(mm)	Jaw Depth(mm)	Max. Opening(mm)	Over Length(mm)	Clamping force
V53100	100	48.5	125	532	2500
V53130	130	53	180	580	3500
V53160	160	63	240	680	5500
V53200	200	63	280	732	5500

■ Vice - Universal tilting vise



Code	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)	G.W./N.W.
VQW 100	105	40	105	31/26
VQW 125	125	40	125	35/30

■ Vice - Hydraulic machine vise



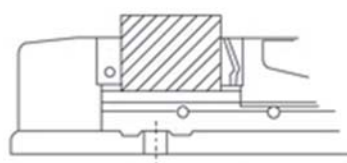
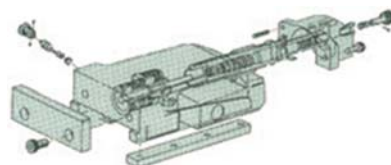
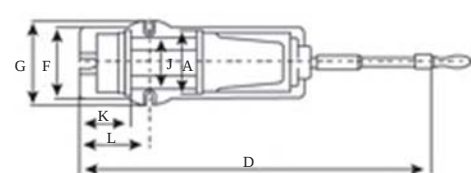
Plain



With Swivel Base



Swivel Base



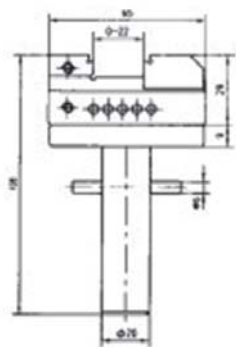
With lock down jaw

Model No.	Jaw Width(A)	Jaw Depth(a)	Jaw Opening (c)	Clamping Force
VHP-4V	100/4"	36/1.42"	170/6.7"	2600kg/5720lbs
VHP-5V	125/5"	46/1.81"	220/8.66"	3500kg/7700lbs
VHP-6V	155/6"	53.5/2.1"	305/12"	4600kg/10120lbs
VHP-8V	200/8"	62.2/4.4"	305/12"	7200kg/15840lbs

■ **Vice - Electrode holder**

V3414

- ☐ Precision ground and hardened to HRC58-62
- ☐ Parallelism 0.005mm/100mm
- ☐ Squareness 0.005mm



■ Vice - Milling machine vice



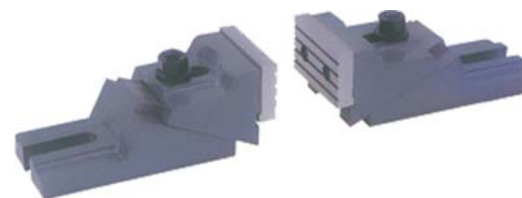
Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)
VQH1280	80	32	63
VQH12100	100	35	80
VQH12125	125	40	100
VQH12160	160	52	125
VQH12200	200	63	160

■ **Vice - Precision milling machine vice**



Model No.	Width of Jaw (mm)	Height of Jaw (mm)	Max. Opening (mm)	Height (mm)
VQH100G	100	40	100	124
VQH160G	60	54	150	158

- **Vice - Free machine vises**



Model No.	Jaw Width(mm)	Jaw Height(mm)	Size(mm)
VF75	75	140×350	75×67×150
VF100	100	180×450	100×90×200
VF125	125	250×550	125×120×250

■ Vice - Planing machine vice



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)
VQB13136	135	36	170
VQB13160	160	52	180
VQB13200	200	64	220
VQB13250	250	64	280
VQB13320	320	81	360

■ **Vice - 2-piece quick clamp milling vises**



Model No.	Jaw Width(mm)	Clamp Travel(mm)	Jaw Height(mm)
VF-6	6.3"/160	2.76"/70	2.2"/56
VF-8	8"/204	3.35"/85	2.48"/63

■ Vice - Tilting machine vice



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)
VQHK41100	100	41	80
VQHK41125	125	45	95
VQHK41160	160	50	125

- **Vice - Accu-lock machine vice**



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)
VQM16100	100	32	100
VQM16125	125	40	125
VQM16160	160	45	150
VQM16200	200	50	190

■ Vice - Accu-lock precision machine vice



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)
VQM16100N	100	32	100
VQM16160N	160	45	160

■ Vice - Double-action accu-lock machine vice



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max. Opening(mm)
V93100	100	37	76
V93160	160	50	100

■ Vice - Sine machine vice



Model No.	Width of Jaw (mm)	Height of Jaw (mm)	Max. Opening (mm)	Height (mm)
VS100	100	45	100	156
VS160	160	52	180	186

■ Vice - Tilting clamp



Model No.	Width of Jaw (mm)	Height of Jaw (mm)	Max. Opening (mm)	Tilting Angle	G.W./N.W.
VD75	75	45	100	0-90°	213/21.5
VD100	100	52	180	0-90°	8.5/7.8

■ Vice - American type drill press vice



Model No.	Size	Width of Jaw (mm)	Height of Jaw (mm)	Depth of Throat (mm)
V3002	2-1/2"	67	70	24
V3003	3"	78	78	19
V3004	4"	100	110	26
V3005	5"	125	128	26
V3006	6"	150	150	26

■ Vice - K-type machine vice



Model No.	E(mm)	A(mm)	B(mm)	H(mm)
VK100	100	267	106	75
VK125	125	340	130	99
VK150	150	421	160	105
VK200	200	576	215	144

■ Vice - Multi-purpose bench vise



Model No.	Specifi	G.W./N.W.	Opening(mm)	Clamping Force(kgs)
V8131	3"	20/18	60-75	900
V8132	4"	21.5/19	80-100	1000
V8133	5"	30/28	100-125	1600
V8134	6"	40/38	125-150	1800

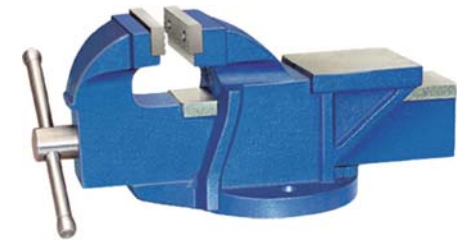
■ Vice - Offset bench vise



Model No.	Specifi	G.W./N.W.	Opening(mm)	Clamping Force(kgs)
V1061	4"	12.5/11.5	100-125	2000
V1062	5"	21.5/19.6	125-150	2500
V1063	6"	26/24.8	150-175	3000

■ Vice - Fixed bench vise with anvil (heavy duty)

- ☐ Precision casting body with powder coating finish
- ☐ Replaceable jaws
- ☐ 120 degree swivel base is optional
- ☐ Large anvil is optional



Model No.	Size	Jaw Width	Jaw Opening	Throat Depth	Anvil Size	QTY/CTN	Weight/CTN (kg)
V83103	3"	75	75	46	65×66	6	32/30
V83104	4"	100	100	61	86×85	4	42/40
V83105	5"	125	125	72	109×105	1	18/17
V83106	6"	150	150	84	128×125	1	28/26
V83108	8"	200	200	102	150×150	1	43/42
V83110	10"	250	225	107	160×160	1	54/48

■ Vice - Swivel bench vise with anvil (medium duty)

- ☐ Precision casting body with powder coating finish
- ☐ Replaceable jaws
- ☐ 120 degree swivel base is optional
- ☐ Large anvil is optional



Model No.	Size	Jaw Width	Jaw Opening	Throat Depth	Anvil Size	QTY/CTN	Weight/CTN (kg)
V8904	4"	100	75	54	68×70	4	30/28
V8905	5"	125	100	65	90×90	2	28/26
V8906	6"	150	125	77	110×110	1	18/17
V8908	8"	200	175	95	150×140	1	36/35

Vice - Utility bench vise(light duty)

- ☐ Precision casting body with powder coating finish ☐ Replaceable jaws with microgroove tooth space ☐ 120 degree swivel base is optional

Model No.	Size	Jaw Width	Jaw Opening	Throat Depth	Anvil Size	QTY/CTN	Weight/CTN (kg)
V0803	3"	75	63.5	45	50×60	6	23.5/21.5
V0804	4"	100	75	50	63×86	4	24/22
V0805	5"	125	100	60	80×80	2	20/18.5
V0806	6"	150	125	68	90×90	1	14.5/13.5
V0808	8"	200	175	88	120×120	1	27/26



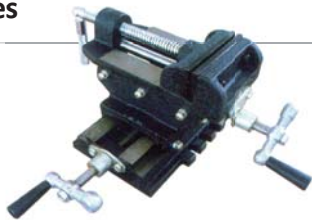
Vice - American bench vise (heavy duty)

- ☐ Precision casting body with powder coating finish ☐ High quality steel plate for beam
☐ Replaceable jaws ☐ Built-in pipe jaws ☐ Light duty is optional

Model No.	Size	Jaw Width	Jaw Opening	Throat Depth	Anvil Size	Built-in Pipe Jaws	QTY/CTN	Weight/CTN (kg)
V3040D	4"	100	127	87.5	72×70	Φ10-75.5	2	26/24.5
V3050D	5"	125	140	95	78×78	Φ10-75.5	1	17/16
V3060D	6"	150	178	107	90×100	Φ17-88.5	1	27/25
V3080D	8"	200	200	115	95×100	Φ17-88.5	1	31/29.5



Vice - Cross slide vises



Light duty

Model No.	Specifi	G.W./N.W.	Openning(mm)	Packing Shape	Carton Size(cm)
V1171	4"	8.5/7.5	100	Carton	30×26×17
V1172	5"	13.5/12.5	125		32×28×15
V1173	6"	17/16	150		33×29×18

Heavy duty

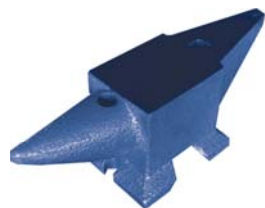
Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Max Opening (mm)	Lengthwise	Crosswise	G.W./N.W.
VC75	80	30	65	70	65	6.5/6
VC100	102	35	90	80	80	10.5/9.5
VC125	125	41	115	95	95	14.5/13.5
VC150	152	42	135	100	100	17.5/16.5
VC200	203	47	165	130	130	26/25

Vice - Swival Cross Slide Vises



Model No.	Width of Jaw(mm)	Height of Jaw(mm)	Cross Max Running	G.W./N.W.	Packing Size(mm)	Rotate Angle
VR100	102	90	80	12/11.5	27×27×18	360°
VR125	125	115	95	16.5/16	29×29×19	360°
VR150	150	135	100	20/19.5	32×32×20	360°

Vice - Casting steel anvil



Model No.	Specifi	G.W./N.W.
V1191	109/R	21/20
V1192	110/R	11/10
V1193	112/R	21/20
V1194	113/R	31/30
V1195	114/R	41/40

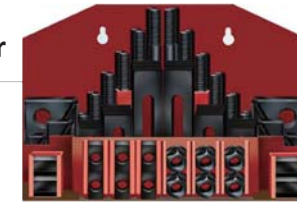
Model No.	Specifi	G.W./N.W.
V1196	115/R	52/50
V1197	116/R	62/60
V1198	117/R	72/70
V1199	118/R	83/80
V1200	119/R	103/100

Clamping kit - 58-PC clamping kit with metal holder

Each set contains

- ☐ 6-T-Solt nuts ☐ 4-Coupling nuts ☐ 12-Step blocks
☐ 6-Flange nuts ☐ 6-Step clamps
☐ 24 Studs:4 of each=3",4",5",6",7",8"length/76,102,127,152,178&203mm

Model No.	Talbe T-slot Size(inch)	Stud Size (inch)	Model No.	Talbe T-slot Size(inch)	Stud Size (inch)
CK-0101	3/8	5/16-18	CK-0106	5/8	1/2-13
CK-0102	7/16	3/8-16	CK-0107	11/16	1/2-13
CK-0103	1/2	3/8-16	CK-0108	11/16	5/8-11
CK-0104	9/16	3/8-16	CK-0109	3/4	5/8-11
CK-0105	9/16	1/2-13	CK-0110	13/16	5/8-11



Spanner & Tee-slot cleaner is free

Model No.	Talbe T-slot Size(mm)	Stud Size (mm)	Model No.	Talbe T-slot Size(mm)	Stud Size (mm)
CK-0201	10	M8×1.25	CK-0206	16	M14×2
CK-0202	12	M10×1.25	CK-0207	18	M14×2
CK-0203	12	M10×1.5	CK-0208	18	M16×2
CK-0204	14	M12×1.75	CK-0209	20	M18×2.5
CK-0205	16	M12×1.75	CK-0210	22	M20×2.5

Clamping kit - 2-PC ball joint u-clamping kit

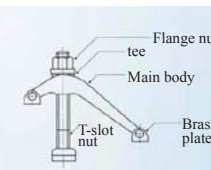
- ☐ The clamping height is adjustable. With brass plate under the clamp arm for protecting the working material form damage.
By using spherical nut,it will be assured to clamp the material tightly.The clamp arm is casting.



Model No.	W(mm)	L(mm)	Talbe T-slot Size(US)	Stud Size(US)	Talbe T-slot Size(mm)	Stud Size (mm)
CK-40B	37	125	9/16	1/2-13	8.5	M12
CK-50B	47	150	11/16	5/8-11	10.5	M16
CK-60B	57	200	13/16	3/4-10	14.5	M18

Clamping kit - 2-PC ball joint u-clamping kit

- ☐ The clamping height is adjustable. With brass plate under the clamp arm for protecting the working material form damage.
By using spherical nut,it will be assured to clamp the material tightly.The clamp arm is casting.



Model No.	W(mm)	L(mm)	Talbe T-slot Size(US)	Stud Size(US)	Talbe T-slot Size(mm)	Stud Size (mm)
CK-40	37	125	9/16	1/2-13	13.7	M12
CK-50	47	150	11/16	5/8-11	17.7	M16
CK-60	57	200	13/16	3/4-10	19.7	M18

Clamping kit - 50-PC clamping kit with wood holder

Each set contains

- ☐ 6-T-Solt nuts ☐ 6-Step clamps
☐ 4-Flange nuts ☐ 6-Step blocks
☐ 4-Coupling nuts ☐ 24 Studs 4 ea.=3", 4", 5", 6", 7", 8"length



Model No.	Talbe T-slot Size(US)	Stud Size(US)	Talbe T-slot Size(mm)	Stud Size(mm)
CK-0301	3/8	5/16-18	9.7	M8×1.25
CK-0302	7/16	3/8-16	11.7	M10×1.5
CK-0303	1/2	3/8-16	13.7	M10×1.5
CK-0304	9/16	3/8-16	13.7	M12×1.75
CK-0305	9/16	1/2-13	15.7	M12×1.75
CK-0306	5/8	1/2-13	15.7	M14×2
CK-0307	11/16	1/2-13	17.7	M14×2
CK-0308	11/16	5/8-11	17.7	M16×2
CK-0309	3/4	5/8-11	19.7	M16×2
CK-0310	13/16	5/8-11	19.7	M18×2.5
CK-0311	13/16	3/4-10	21.7	M18×2.5
CK-0312	7/8	3/4-10	21.7	M20×2.5
CK-0313	1	3/4-10	23.7	M20×2.5

Clamping kit - 38-PC clamping kit with wood holder

Each set contains

- ☐ 6-T-Solt nuts
- ☐ 4-Flange nuts
- ☐ 4-Coupling nuts
- ☐ 24 Studs 4 ea.=3"、4"、5"、6"、7"、8"length



Model No.	Talbe T-slot Size(US)	Stud Size(US)	Talbe T-slot Size(mm)	Stud Size(mm)
CK-0501	3/8	5/16-18	9.7	M8×1.25
CK-0502	7/16	3/8-16	11.7	M10×1.5
CK-0503	1/2	3/8-16	13.7	M10×1.5
CK-0504	9/16	3/8-16	13.7	M12×1.75
CK-0505	9/16	1/2-13	15.7	M12×1.75
CK-0506	5/8	1/2-13	15.7	M14×2
CK-0507	11/16	1/2-13	17.7	M14×2
CK-0508	11/16	5/8-11	17.7	M16×2
CK-0509	3/4	5/8-11	19.7	M16×2
CK-0510	13/16	5/8-11	19.7	M18×2.5

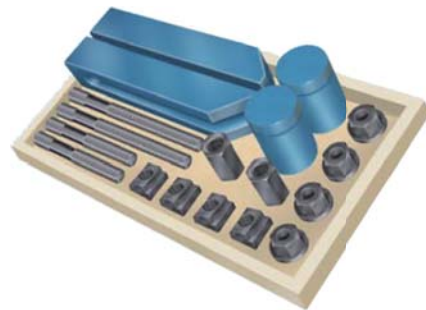
Clamping kit - 18-PC large specification clamping kit

Each set contains

- ☐ 4-T-Solt nuts
- ☐ 4-Flange nuts
- ☐ 2-Coupling nuts
- ☐ 2-Jacking tubes
- ☐ 2-U-clamps
- ☐ 4-Studs

Material IC45e

- ☐ Heat treatment HRC 30-40



Model No.	Talbe T-slot Size (US)	Stud Size(US)	Talbe T-slot Size (mm)	Stud Size(mm)	Clamp Size			
					A	B	C	D
CK-1101	11/16	5/8-11	17.7-19.7	M16-18	30	50	160	18
CK-1102	11/16	5/8-11	17.7-19.7	M16-18	50	50	200	18
CK-1103	11/16	5/8-11	17.7-19.7	M16-18	40	50	250	18
CK-1104	13/16	3/4-10	21.7-23.7	M20-22	40	50	200	22
CK-1105	13/16	3/4-10	21.7-23.7	M20-22	40	60	250	22
CK-1106	13/16	3/4-10	21.7-23.7	M20-22	40	60	300	22
CK-1107	1	7/8-9	27.7	M24	40	65	200	26
CK-1108	1	7/8-9	27.7	M24	40	65	250	26
CK-1109	1	7/8-9	27.7	M24	40	65	315	26
CK-1110	13/8	11/8-11	33.7	M30	50	75	250	34
CK-1111	13/8	11/8-11	33.7	M30	50	75	315	34
CK-1112	13/8	11/8-11	33.7	M30	50	75	400	34
CK-1113	19/16	13/8-6	39.7	M36	60	100	400	40
CK-1114	19/16	13/8-6	39.7	M36	60	100	600	40

Clamping nut - T-Slot nut

- ☐ Material IC45e
- ☐ Heat treatment HRC 30-40

unit:inch

Model No.	Thread A	B	C	D	E	F
CK-N1901	5/16-18	3/8	3/8	1/4	5/8	7/8
CK-N1902	3/8-16	7/16	1/2	7/32	11/16	7/8
CK-N1903	3/8-16	1/2	1/2	9/32	7/8	7/8
CK-N1904	3/8-16	9/16	5/8	11/32	7/8	1-1/8
CK-N1905	1/2-13	9/16	5/8	11/32	7/8	1-1/8
CK-N1906	1/2-13	5/8	5/8	11/32	1	1-1/8
CK-N1907	1/2-13	11/16	3/4	7/16	1-1/8	1-1/4
CK-N1908	5/8-11	11/16	3/4	7/16	1-1/8	1-1/4
CK-N1909	5/8-11	3/4	3/4	15/32	1-1/4	1-1/4
CK-N1910	5/8-11	13/16	1	9/16	1-1/4	1-1/2
CK-N1911	3/4-10	13/16	1	9/16	1-1/4	1-1/2
CK-N1912	3/4-10	7/8	1	9/16	1-1/2	1-1/2
CK-N1913	3/4-10	1	1	5/8	1-5/8	1-3/4
CK-N1914	3/4-10	1-1/16	1-1/8	11/16	1-5/8	2
CK-N1915	7/8-9	1	1	5/8	1-5/8	1-3/4
CK-N1916	1-8	1-1/16	1-1/8	11/16	1-5/8	2



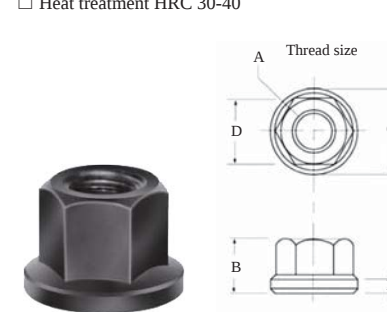
unit:mm

Model No.	Thread A	B	C	D	E	F
CK-N2001	M8	9.7	12	6	15	18
CK-N2002	M10	11.7	14	8	21	22
CK-N2003	M12	13.7	16	8	22	27
CK-N2004	M14	15.7	18	8.5	25	28
CK-N2005	M16	17.7	20	10	28	30
CK-N2006	M18	19.7	24	10.5	32	32
CK-N2007	M20	21.7	28	13	36	36
CK-N2008	M22	23.7	32	15	40	40
CK-N2009	M24	27.7	36	16	44	44
CK-N2010	M6	6.8	9.5	4.5	14	15

Clamping nut - Flange nut

- ☐ Material IC45e
- ☐ Heat treatment HRC 30-40

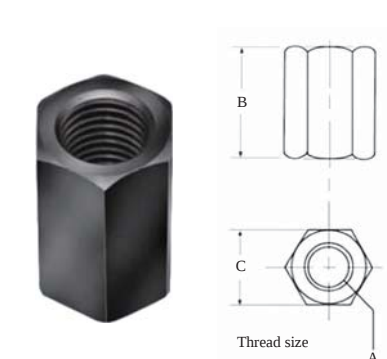
unit:mm



Model No.	Thread A	B	C	D	E
CK-N2101	5/16-18	3/8	3/4	9/16	3/32
CK-N2102	3/8-16	1/2	7/8	11/16	1/8
CK-N2103	1/2-13	11/16	1-1/8	7/8	5/32
CK-N2104	5/8-11	13/16	1-3/8	1-1/16	3/16
CK-N2105	3/4-10	1	1-5/8	1-1/4	1/4
CK-N2106	7/8-9	1-1/8	1-3/4	1-7/16	1/4
CK-N2107	1-8	1-1/4	2	1-5/8	1/4

Model No.	Thread A	B	C	D	E
CK-N2201	M8	13	19	14	3
CK-N2202	M10	17	22	17	3
CK-N2203	M12	19	26	19	3.5
CK-N2204	M14	22	28	22	3.5
CK-N2205	M16	24	31	24	4
CK-N2206	M18	27	35	27	4
CK-N2207	M20	30	40	30	5
CK-N2208	M22	33	45	32	6
CK-N2209	M24	36	50	36	6

Clamping nut - Coupling nut



unit:inch

Model No.	Thread A	B	C
CK-N2301	5/16-18	7/8	9/16
CK-N2302	3/8-16	1	11/16
CK-N2303	1/2-13	1-1/4	7/8
CK-N2304	5/8-11	1-5/8	1-1/16
CK-N2305	3/4-10	1-7/8	1-1/4
CK-N2306	7/8-9	2-1/4	1-7/16
CK-N2307	1-8	2-1/2	1-5/8

unit:mm

Model No.	Thread A	B	C
CK-N2201	M8	13	19
CK-N2202	M10	17	22
CK-N2203	M12	19	26
CK-N2204	M14	22	28
CK-N2205	M16	24	31
CK-N2206	M18	27	35
CK-N2207	M20	30	40
CK-N2208	M22	33	45
CK-N2209	M24	36	50

Magnetic tools - Maganetic parts tray



Model No.	P7003
Size	dia 148mm/6",depth 25mm/1"
Material	tough stainless steel (430/2B 0.4mm)
Magnet	dia:80mm(3-1/4")x1pc,1000-1200 gauss

Magnetic tools - Maganetic parts tray



Model No.	P7005
Size	dia 148mm (6"),depth 112mm(4-1/2")
Material	plastic(ABS)
Magnet	diameter 80mm(3-1/4")X1pcs,1000-1200gauss

Magnetic tools - Pick up tool with claw

- ☐ To pick up things where you can't get it by hand
- ☐ Overall length 24"



Model No.	Specification
PU66	Flecible but not magnetic
PU66A	Flecible and magnetic ,hold up to 5Lbs
PU66C	Flecible and magnetic ,hold up to 5Lbs
PU66D	with LED light,flexible and magnetic ,hold up to 5Lbs

Magnetic tools - Magnetic floor sweeper

- ☐ Seven inch wheels roll easily over your shop floor or parking lot to pick up nails, screws and metal scrap
- ☐ Extra-wide sweep head for quick clean up
- ☐ Ideal for carpets-even grass
- ☐ One-pull release quickly clears debris from sweeper
- ☐ Pull force: 30LBS-50LBS
- ☐ Handle extends from 30" to 44-1/2"



Quick release allows quick and easy remdval of ferrous objects

Spring-loaded handle for quick release from 31" to 45"



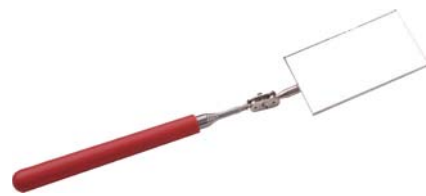
Model No.	Size	
P8012	18" L x3"W × 4"H	456×75×101mm
P8013	24" L x3"W × 4"H	610×75×101mm
P8014	30" L x3"W × 4"H	762×75×101mm
P8015	36" L x3"W × 4"H	910×75×101mm

Magnetic tools - Inspection mirror



Model No.	IM02
Telescoping inspection mirror	
Inspection mirror 1"×2"	
Telescopic from 7-3/4" to 21-1/2"	
The material is Brass tube	

Magnetic tools - Inspection mirror



Model No.	IM05
Rectangular telescoping inspection mirror	
Inspection mirror 2" ×3-1/2"	
Telescopic from "11" to "38"	
The material is stainless steel	

Magnetic tools - Pick up tool



Model No.	Magnetic power	Telescopic	Material
PU-05	1.5 Lbs	5" -25"	brass tube
PU-06	3.5 Lbs	5-1/8" - 25-1/4"	
PU-07	5 .0Lbs	5-1/8" -23-3/4"	



Model No.	PU12
Telescoping magnetic pick-up tool	
The magnetic power is 16LBS	
Telescopic from "7-3/8" to 30"	
The material is stainless steel	



Model No.	PU30
Magnetic Pick Up Tool	
Telescopic magnetic Pick-Up Tool	
The magnetic power is 5LBS.	
Telescopic from 7-1/2" to 31-1/2"	
The material is brass steel	
With LED	

Air tools - Air drill

Description

- ☐ Convenient one hand push button forward/reverse.
- ☐ Non reversible air drill
- ☐ Quiet operation with rear exhaust.
- ☐ Ball bearing construction.
- ☐ Lock off throttle to prevent accidental start ups.
- ☐ Variable speed throttle for easy starts.
- ☐ Rear exhaust
- ☐ 3/8" reversible air drill 1800 rpm
- ☐ Recommended air pressure 6.5KG/CM²(90 PSI)



Model No.	Free speed	Air inlet(PT)	Air hose(ID)	Overall length		Net weight		Avg.air consumption		Sug.air comp. (HP)
				In.	mm	Lbs	Kgs	cfm	l/min	
AT7101	1800 RPM	1/4"	3/8"	7"	180	2.4	1.1	3.7	106	2

Air tools - Air sander

Description

- ☐ The belt will rotate 120°and allow sanding in normally inaccessible working areas, such as internal surfaces and narrow corners.
- ☐ Belt sander
- ☐ Recommended air pressure 6.5KG/CM²(90 PSI)



Model No.	Overall length		Free speed	Air inlet(PT)	Air hose(ID)	Avg.air consumption		Net weight		Sug.air comp. (HP)
	In.	mm				cfm	l/min	Lbs	Kgs	
AT7322	(10-12)mm×330mm		16000 RPM	1/4"	3/8"	-	-	1.87	0.85	2

Air tools - Air spray guns

Model No.

AT8807

Contents

- ☐

A quality air brush for detailed work such as automotive designs, model makers,graphic artists,etc.
- ☐

Air brush kit(Metal)
- ☐

1 pc plastic air brush
- ☐

2 pcs glass jar with cover
- ☐

1 pc metal jar
- ☐

1 pc air hose, general wrench.
- ☐

1 pc connector



Air tools - Impact wrench

Description

- ☐

Die-cast aluminum body.
- ☐

Compact ergonomic design for increased comfort.
- ☐

(Screened filter) air inlet keeps dirt and debris from damaging the tool.
- ☐

Ideal for tire changing and general assembling work and other workshop applications.
- ☐

1/2" Impact wrench
- ☐

Front exhaust
- ☐

Recommended air pressure 6.5KG/CM²(90 PSI)



Model No.	Square drive	Capacity bolt size		Free speed	MAX.torque		Overall length	
		In.	mm		Ft-Lb	N.m	In.	mm
AT7404	1/2"	5/8"	16	7000 RPM	230	310	7"	178

Model No.	Air inlet (NPT)	Air hose (ID)	Avg.air consumption		Net weight		Sug.air comp.(HP)
			cfm	l/min	Lbs	Kgs	
AT7404	1/4"	3/8"	4	114	5.4	2.5	2

Air tools - Ratchet wrench

Description

- ☐

Light-weight aluminum body.
- ☐

Compact head design allows flexibility in tight area.
- ☐

Forward/reverse lever located behind the ratchet head for quickly change of direction.
- ☐

It's designed for removing and instaling spark plugs and different engine parts, such as water pumper, radiators etc.
- ☐

Front exhaust.
- ☐

1/2" Ratchet Wrench
- ☐

Torque:50Ft-Lb
- ☐

Recommended air pressure 6.5KG/CM²(90 PSI)



Model No.	Square drive	Capacity bolt size		Free speed	MAX.torque		Overall length	
		In.	mm		Ft-Lb	N.m	In.	mm
AT7412	1/2"	1/2"	13	160 RPM	50	68	10"	254
AT7438	3/8"	3/8"	10	160 RPM	50	68	10"	254

Model No.	Air inlet (NPT)	Air hose (ID)	Avg.air consumption		Net weight		Sug.air comp.(HP)
			cfm	l/min	Lbs	Kgs	
AT7412	1/4"	3/8"	2.7	77	2.4	1.1	1
AT7438	1/4"	3/8"	4	114	2.4	1.1	1

Air tools - Air hammer

Description

- ☐

Positive action trigger and built-in air regulator for simple power and speed control.
- ☐

(Screened filter) air inlet to keep dirt and debris from damaging the tool.
- ☐

Standard quick-change spring for speed and ease of chisel change.
- ☐

Front exhaust.
- ☐

AT7621:W/4 125mm chisels (hex or round)
- ☐

AT7622:W/4 175mm chisels (hex or round)



Model No.	Chisel Shank		Bore Diameter (ID)		Blow Per Min	Air Inlet (PT)	Air Hose (ID)	Avg.Air Consumption		Net Weight		Sug.Air Comp.(HP)
	In.	mm	In.	mm				cfm	l/min	Lbs	Kgs	
AT7621	2/5"	10.2	3/4"	19.05	4500	1/4"	3/8"	2.8	79.2	2.86	1.3	2
AT7622	2/5"	10.2	3/4"	19.05	3500	1/4"	3/8"	2.3	65.1	3.41	1.55	2

Air tools - Professional air hammer

Description

- ☐

Alloy steel barrel & heat-treated piston, coil spring retainer.
- ☐

Ergonomic grip for comfort and stability.
- ☐

(Screened filter) air inlet to keep dirt and debris from damaging the tool.
- ☐

Standard quick-change spring for speed and ease of chisel change.
- ☐

Hex. or round type, 4 chisels included.
- ☐

W/4 125mm chisels (hex or round) (handle exhaust)
- ☐

Recommended air pressure 6.5KG/CM2(90 PSI)



Model No.	Chisel shank		Bore diameter (ID)		Blow per min	Air inlet (PT)	Air hose (ID)	Avg.air consumption		Net weight		Sug.air comp.(HP)
	In.	mm	In.	mm				cfm	l/min	Lbs	Kgs	
AT7624R	2/5"	10.2	3/4"	19.05	4500	1/4"	3/8"	2.8	79.2	2.86	1.3	2

Air tools - Air die grinder

Description

- ☐

Lightweight aluminum body
- ☐

Safety lever prevents accidental starts
- ☐

Rear exhaust
- ☐

It can be used with all types of accessories for porting, weld breaking, and smoothing sharp edges, as well as deburring, polishing, and grinding
- ☐

1/4" (6mm) mini die grinder
- ☐

Recommended air pressure 6.5KG/CM²(90 PSI)



Model No.	Grinder cap	Free speed	Air inlet(PT)	Air hose(ID)	Avg.air consumption		Sug.air comp.(HP)
					cfm	l/min	
AT7313	1/4"(6mm)	25000 RPM	1/4"	3/8"	3	86	1.5

Air tools - Air tools kits

Model No. AT7808

Contents

- ☐ 1pc at7404 1/2" impact wrench
- ☐ 10pcs impact sockets (9, 10, 11, 13, 14, 17, 19, 22, 24, 27mm)
- ☐ 1pc 5" extension bar
- ☐ 1pc oil pot
- ☐ 1pc hex wrench
- ☐ 1pc mini oiler
- ☐ 1pc nipple
- ☐ 1pc blow case



Air tools - Air tools kits

Model No. AT7800

Contents

- ☐ 1pc at7404 1/2" impact wrench
- ☐ 1pc at7412 1/2" ratchet wrench
- ☐ 10pcs impact sockets (9, 10, 11, 13, 14, 17, 19, 22, 24, 27mm)
- ☐ 1pc oil pot
- ☐ 1pc hex wrench
- ☐ 1pc nipple
- ☐ 1pc mini oiler
- ☐ 1pc blow case



Air tools - Air tools kits

Model No. AT7805

Contents

- ☐ 1pc at7438 3/8" ratchet wrench
- ☐ 7pcs impact sockets (9,10,11,13,14,17,19mm)
- ☐ 1pc 1/2"x3" extension bar
- ☐ 1pc u-joint
- ☐ 1pc oil pot
- ☐ 3pcs bits
- ☐ 1pc nipple
- ☐ 1pc adaptor
- ☐ 1pc blow case



Air tools - Air tools kits

Model No. AT7809H

Contents

- ☐ 1pc at7622h(r) hammer 190mm
- ☐ 1pc mini oiler
- ☐ 1pc retaining spring
- ☐ 1pc nipple
- ☐ 5pcs 7" chisels
- ☐ 1pc blow case



Air tools - Air tools kits

Model No. AT7813

Contents

- ☐ 1pc at7313(m)1/4" (6mm) mini die grinder
- ☐ 2pcs hand wrenches
- ☐ 10pcs grinding stones
- ☐ 1pc nipple
- ☐ 1pc collet
- ☐ 1pc blow case



Air tools - Air tools kits

Model No. AT7819

Contents

- ☐ 1pc at7318 micro air grinder
- ☐ 1pc mini oiler
- ☐ 1pc oil pot
- ☐ 2pcs hand wrenches
- ☐ 1pc female nipple
- ☐ 10pcs mounted stones
- ☐ 1pc blow case



Hydraulic tools - 23pcs hydraulic puller set

Model No. HPS23

- ☐ Separator set 7.5-10 ton capacity hydraulic ram with tommy bar. Suitable for agricultural machines, garage and industrial use.

Contents

- ☐ Hydraulic ram 7.5-10ton 1pc
- ☐ Hydraulic ram center bar 1pc
- ☐ 1x50mm ram extension 1pc
- ☐ 1x100mm ram extension 1pc
- ☐ Puller arm 4" 3pcs, 6" 3pcs, 8" 3pcs
- ☐ Triple head for puller 1pc
- ☐ Twin head 1pc
- ☐ Grooved center nut 1pc
- ☐ Head for puller 1pc
- ☐ Pulling bolt for device with nut 2pcs
- ☐ Pulling bolt extension 2pcs
- ☐ 4"separator 1pc
- ☐ Metal box 1pc
- ☐ Weight: 18kg



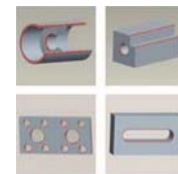
Hydraulic tools - Hydraulic punch driver

Model No. HPD001

- ☐ Punching range: Φ22.5-61.5mm in the 3.5mm mild steel
- ☐ Punching force: 70KN
- ☐ Stroke: 25mm
- ☐ Accessories: Round knockout punches type D: Φ22.5, Φ28.3, Φ34.6, Φ43.2, Φ49.6, Φ61.5mm
- ☐ 7/16"x3/4" draw stud: 1pc
- ☐ 3/4"x3/4" draw stud: 1pc
- ☐ Spacer: 1pc



Deburring tools



Model No.	Blade type-A	Blade Qty.	Holder range
D0011	E100 & E200	2	280-2011A



Model No.	Blade type-A	Blade Qty.	Holder range
D0009	E100 & E200	2	-



Model No.	Blade type-A	Blade Qty.	Holder range
D0013	ES100 & ES200	2	-

Model No.	Blade type-A	Blade Qty.	Holder range
D0001	ES100	1	-
D0002	ES200	1	-
D0003	ES300	1	-
D0004	ES150	1	-



Model No.	Blade type-A	Blade Qty.	Holder range
D0010	E100 & E200	2	-



Model No.	Blade type-A	Blade Qty.	Holder range
D0014	E100 & E200	2	-

■ Deburring tools



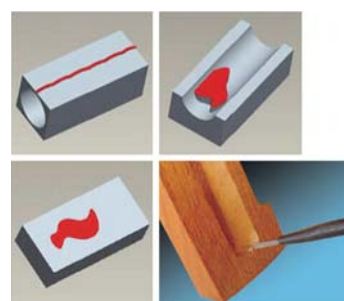
Model No.	Blade type-B	Blade Qty.	Holder range
D0101	BS10	1	280-2003B
D0121	BS20	1	280-2003B

Model No.	Blade type-B	Blade Qty.	Holder range
D0102	BS10	1	-
D0122	BS20	1	-

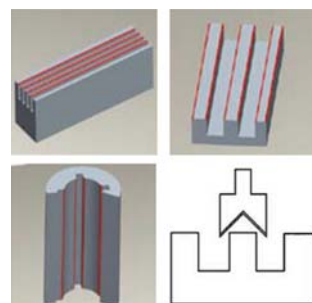
Model No.	Blade type-B	Blade Qty.	Holder range
D0103	BS10	1	-
D0104	BS20	1	-
D0105	BS30	1	-



Model No.	Blade type-C	Blade range	Blade Qty.	Holder No.
D0204	C-12	1-12mm	1	280-2005C/B
D0205	C-20	1-20mm	1	280-2005C/B
D0206	C-30	1-30mm	1	280-2005C/B
D0207	C-12	1-12mm	1	N/A



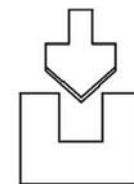
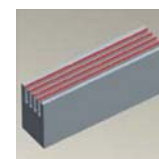
Model No.	Blade type-D	Blade Qty.	Holder No.
D0300	D20	1	280-2007D
D0301	D25	1	280-2007D
D0302	D30	1	280-2007D
D0303	D40	1	280-2007D
D0304	D20	1	-
D0305	D25	1	-
D0306	D30	1	-
D0307	D40	1	-



Model No.	Blade type-E	Blade range	Blade Qty.	Holder No.
D0400	V3	1-3mm	1	280-2010EH
D0401	V8	1-8mm	1	280-2010EH
D0402	V13	3-13mm	1	280-2010EH
D0403	V16	5-16mm	1	280-2010EH

Model No.	Blade type	Blade range	Blade Qty.	Holder No.
D0404	N80K11/24	-	2	-

■ Deburring tools



Model No.	Blade type-F	Blade range	Blade Qty.	Holder No.
D0500	A3	1-3mm	1	280-2010EH
D0501	A8	1-8mm	1	280-2010EH
D0502	A13	3-13mm	1	280-2010EH
D0503	A16	5-16mm	1	280-2010EH

Model No.	Blade type	Blade range	Blade Qty.	Holder No.
D0504	N80K	-	1	280-2009K

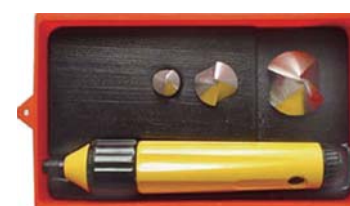


Model No.	D6801
Handle	180-1001ES
Blade	ES100-1pc, ES200-1pc, ES300-1pc, ES150-1pc

Model No.	D6802
Handle	180-1011X
Holder	280-2002AS
Blade	ES100-1pc, ES200-1pc

Model No.	D6803
Handle	180-1007BS
Blade	BS10-10pcs, BS20-10cs

Model No.	D6804
Handle	180-004E
Blade	ES100-5pcs, ES200-5pcs



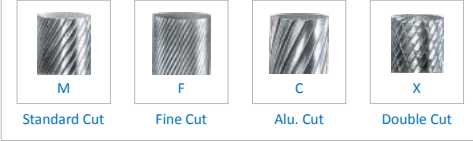
Model No.	D7801
Handle	180-1012X
Holder	280-2011780 (M7x1 single head)
Blades	C12-1pc, C20-1pc, C30-1pc
Wrench	

Model No.	D7802
Handle	180-1012X
Holder	280-2011780
Adapter	280-2022L - 4pcs 280-2021D - 1pc
Blades	V3-1pc, A8-1pc, A8-1pc, I3-1pc, D30-1pc
Hex wrench	
Wrench	

Model No.	D7803
Handle	480-1012X
Holder	280-2011780
Adapter	280-2022L, 280-2019E, 280-2020B
Balder	V3-1pc, V8-1pc, A3-1pc, I3-1pc
Balder	B10, B20
Balder	C12, C20
Scraper	D30
Hex wrench	
Wrench	

Carbide burrs

Cylinder(shape A)/ZYA



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
A0413M03	A0413X03	A0413F03		4	13	40	3
A0513M03	A0513X03	A0513F03		5	13	40	3
A0613M03	A0616X03	A0613F03		6	13	48	3
A0616M06	A0616X06	A0616F06	A0616C06	6	16	65	6
A0820M06	A0820X06	A0820F06	A0820C06	8	20	65	6
A1020M06	A1020X06	A1020F06	A1020C06	10	20	65	6
A1225M06	A1225X06	A1225F06	A1225C06	12	25	65	6
A1625M06	A1625X06	A1625F06	A2025C06	16	25	65	6
A2025M08	A2025X08	A2025F08	A2025C08	20	25	70	8
A2525M08	A2525X08	A2525F08	A2525C08	25	25	70	8

Cylinder with end cut (shape B)/ZYAS



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
B0413M03	B0413X03	B0413F03		4	13	40	3
B0513M03	B0513X03	B0513F03		5	13	40	3
B0613M03	B0613X03	B0613F03		6	13	48	3
B0616M06	B0616X06	B0616F06	B0616C06	6	16	65	6
B0820M06	B0820X06	B0820F06	B0820C06	8	20	65	6
B1020M06	B1020X06	B1020F06	B1020C06	10	20	65	6
B1225M06	B1225X06	B1225F06	B1625C08	12	25	65	6
B1625M06	B1625X06	B1625F06	B1225C06	16	25	65	6
B2025M08	B2025X08	B2025F08	B2025C08	20	25	70	8
B2525M08	B2525X08	B2525F08	B2525C08	25	25	70	8

Cylinder with radius end(shape C)/WRC



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
C0413M03	C0413X03	C0413F03		4	13	40	3
C0513M03	C0513X03	C0513F03		5	13	40	3
C0613M03	C0613X03	C0613F03	C0616C06	6	13	48	3
C0616M06	C0616X06	C0616F06	C0820C06	6	16	65	6
C0820M06	C0820X06	C0820F06	C1020C06	8	20	65	6
C1020M06	C1020X06	C1020F06	C12020C06	10	20	65	6
C1225M06	C1225X06	C1225F06	C1225C06	12	25	65	6
C1625M06	C1625X06	C1625F06	C1625C06	16	25	65	6
C2025M08	C2025X08	C2025F08	C2025C08	20	25	70	8
C2525M08	C2525X08	C2525F08	C2525C08	25	25	70	8

Ball(shape D)/KUD



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
D0404M03	D0404X03	D0404F03		4	4	40	3
D0505M03	D0505X03	D0505F03		5	5	40	3
D0606M03	D0606X03	D0606F03		6	5	48	3
D0605M06	D0605X06	D0605F06	D0605C06	6	6	65	6
D0807M06	D0807X06	D0807F06	D0807C06	8	7	65	6
D1009M06	D1009X06	D1009F06	D1009C06	10	8	65	6
D1210M06	D1210X06	D1210F06	D1210C06	12	10	65	6
D1614M06	D1614X06	D1614F06	D1614C06	16	14	65	6
D2018M08	D2018X08	D2018F08	D2018C08	20	18	70	8
D2524M08	D2524X08	D2524F08	D2524C08	25	24	70	8

Oval shape(shape E)/TRE



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
E0407M03	E0407X03	E0407F03		4	7	40	3
E0508M03	E0508X03	E0508F03		5	8	40	3
E0610M03	E0610X03	E0610F03		6	10	48	3
E0610M06	E0610X06	E0610F06	E0610C06	6	10	65	6
E0813M06	E0813X06	E0813F06	E0813C06	8	13	65	6
E1016M06	E1016X06	E1016F06	E1016C06	10	16	65	6
E1220M06	E1220X06	E1220F06	E1220C06	12	20	65	6
E1625M06	E1625X06	E1625F06	E1625C06	16	25	65	6
E2025M08	E2025X08	E2025F08	E2025C06	20	25	70	8

Tree shape radius end(shape F)/RBF



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
F0413M03	F0413X03	F0413F03		4	13	40	3
F0513M03	F0513X03	F0513F03		5	13	40	3
F0613M03	F0613X03	F0613F03		6	13	48	3
F0616M06	F0616X06	F0616F06	F0616C06	6	16	65	6
F0820M06	F0820X06	F0820F06	F0820C06	8	20	65	6
F1020M06	F1020X06	F1020F06	F1020C06	10	20	65	6
F1225M06	F1225X06	F1225F06	F1225C06	12	25	65	6
F1625M06	F1625X06	F1625F06	F1625C06	16	25	65	6
F2025M08	F2025X08	F2025F08	F2025C08	20	25	70	8

■ Carbide burrs

Tree Shape Pointed End (shape G)/SPG



Model No.			Size(mm)			
Single cut	Double cut	Fine cut	Cut Dia.	Cut length	Total length	Shank Dia.
G0413M03	G0413X03	G0413F03	4	13	40	3
G0513M03	G0513X03	G0513F03	5	13	40	3
G0613M03	G0613X03	G0613F03	6	13	48	3
G0616M06	G0616X06	G0616F06	6	16	65	6
G0820M06	G0820X06	G0820F06	8	20	65	6
G1020M06	G1020X06	G1020F06	10	20	65	6
G1225M06	G1225X06	G1225F06	12	25	65	6
G1625M06	G1625X06	G1625F06	16	25	65	6
G2025M08	G2025X08	G2025F08	20	25	70	8

Tirch Cylinder(shape H)/Flame shape HMB



Model No.			Size(mm)			
Single cut	Double cut	Fine cut	Cut Dia.	Cut length	Total length	Shank Dia.
H0413M03	H0413X03	H0413F03	4	13	40	3
H0513M03	H0513X03	H0513F03	5	13	40	3
H0613M03	H0613X03	H0613F03	6	13	48	3
H0618M06	H0618X06	H0618F06	6	18	65	6
H0820M06	H0820X06	H0820F06	8	20	65	6
H1025M06	H1025X06	H1025F06	10	25	65	6
H1232M06	H1232X06	H1232F06	12	32	70	6
H1636M06	H1636X06	H1636F06	16	36	75	6
H2042M08	H2042X08	H2042F08	20	42	80	8

Taper with Ball Top(shape L)/KEL



Model No.				Size(mm)			
Single cut	Double cut	Fine cut	Alu.cut	Cut Dia.	Cut length	Total length	Shank Dia.
L0413M03	L0413X03	L0413F03		4	13	40	3
L0513M03	L0513X03	L0513F03		5	13	40	3
L0613M03	L0613X03	L0613F03		6	13	48	3
L0616M06	L0616X06	L0616F06	L0616C06	6	16	65	6
L0822M06	L0822X06	L0822F06	L0822C06	8	22	65	6
L1025M06	L1025X06	L1025F06	L1025C08	10	25	65	6
L1228M06	L1228X06	L1228F06	L1228C06	12	28	65	6
L1636M06	L1636X06	L1636F06	L1636C06	16	33	75	6
L2038M08	L2038X08	L2038F08	L2038C08	20	38	80	8

■ Carbide burrs

Taper (shape M)/SKM



Model No.			Size(mm)			
Single cut	Double cut	Fine cut	Cut Dia.	Cut length	Total length	Shank Dia.
M0413M03	M0413X03	M0413F03	4	13	40	3
M0513M03	M0513X03	M0513F03	5	13	40	3
M0613M03	M0613X03	M0613F03	6	13	48	3
M0618M06	M0618X06	M0618F06	6	16	65	6
M0820M06	M0820X06	M0820F06	8	20	65	6
M1020M06	M1020X06	M1020F06	10	20	65	6
M1225M06	M1225X06	M1225F06	12	25	65	6
M1625M06	M1625X06	M1625F06	16	25	65	6

5 pcs Carbide burr set

- ☐ 5pcs set, include the most popular used shapes and sizes with 6mm shank
- ☐ Be preferred for accurate metal removal when shaping, leveling or porting cast iron, steel or other metals.
- ☐ Individual can be adjusted according to requirement.
- ☐ Rose plastic box, protecting cutting edges.

Single Cut

Model No.	CSS05-1005S
A1225M06	
C1225M06	
D1210M06	
F1225M06	
L1228M06	



Double Cut

Model No.	CSS05-1005D
A1225X06	
C1225X06	
D1210X06	
F1225X06	
L1228X06	



10 pcs Carbide burr set

- ☐ 10 pcs set, include the most popular used shapes and sizes with 6mm shank
- ☐ Be preferred for accurate metal removal when shaping, leveling or porting cast iron, steel or other metals
- ☐ Individual can be adjusted according to requirement
- ☐ Rose plastic box, protecting cutting edges

Single Cut

Model No.	CSS10-1010S
L1228M06	C0616M06
C1020M06	F0618M06
A1225M06	G0820M06
D1210M06	C1225M06
F1225M06	M1020M06



Double Cut

Model No.	CSS10-1010D
L1228X06	C0616X06
C1225X06	F0618X06
A1225X06	G0820X06
D1210X06	C1020X06
F1225X06	M1020X06



5 pcs Carbide burr set

- ☐ 5 pcs set, include the most popular used shapes
- ☐ Be preferred for accurate metal removal when shaping, leveling or porting cast iron, steel or other metals
- ☐ Individual can be adjusted according to requirement
- ☐ Both ISO/DIN standard(Metric) and Amercian standard(Inch size) products are available

Single Cut

Model No.	CSS05-2005S
A1225M06	C1225M06
D1210M06	F1225M06
L1228M06	



Inch

Model No.	CSS05-2105S
SA-5SC	SC-5SC
SD-5SC	SF-5SC
SL-4SC	

Double Cut

Model No.	CSS05-2005S
A1225M06	C1225M06
D1210M06	F1225M06
L1228M06	



Inch

Model No.	CSS05-2105S
SA-5SC	SC-5SC
SD-5SC	SF-5SC
SL-4SC	

Files

Features

□ Cut 0: extra bastard, cut 1: bastard; cut 2: second, cut 3: smooth

Hand files

Model No.	F011	F012	F013	F014	F015	F016	F017
Length	6"/150mm	8"/200mm	10"/250mm	12"/300mm	14"/350mm	16"/400mm	18"/450mm
Cut No.	1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	1.2.3

Square files

Model No.	F021	F022	F023	F024	F025
Length	6"/150mm	8"/200mm	10"/250mm	12"/300mm	14"/350mm
Cut No.	1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3

Round files

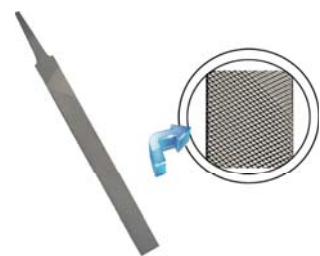
Model No.	F031	F032	F033	F034	F035
Length	6"/150mm	8"/200mm	10"/250mm	12"/300mm	14"/350mm
Cut No.	1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3

1/2 Round files

Model No.	F041	F042	F043	F044	F045
Length	6"/150mm	8"/200mm	10"/250mm	12"/300mm	14"/350mm
Cut No.	1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3

Triangular files

Model No.	F051	F052	F053	F054	F055	F056
Length	5"/125mm	6"/150mm	8"/200mm	10"/250mm	12"/300mm	14"/350mm
Cut No.	1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3	0.1.2.3



Files



Model no.	F005
File shape	Flat, 1/2 round, round, square, triangular
File cut (teeth)	Second cut
file length	200mm
No. pieces	5 piece set

Handle



Sanding belt

Materials

- Abrasives: aluminium oxide or zirconia or silicon carbide
- Bond: resion over resion
- Cloth: X-weight, Y-weight, J-weight
- Applications: Sanding and polishing metallic and non-metal materials
- Grits:24-36-40-50-60-80-100-120-150-180-220-240-280-320-400
- Max width for roll: 1400mm
- Min width for roll: 13mm



Sanding belt - Velcro sanding disc

Materials

- Abrasives: aluminium oxide
- Bond: resion over resion
- Paper:C,D,E
- Backed:velcro
- Applications: It is fixed on hard rubber disc of pneumatic or electric tools. Grinding and polishing for wood, paint and metal
- Grits:40-60-80-100-120-150-180-220-240-280-320-400
- Type: discs, delta, strips and mouse



Sanding belt - Fiber reinhanced rensin grinding wheel

Model No.	Size(mm)	Inch	Max speed
GW100	100×4×16	4×4/25×5/8	
GW100-2	100×6×16	4×1/4×5/8	
GW115	115×6×22	4.5×1/4×5/8	70m/s;
GW125	125×6×22	5×1/4×7/8	80m/s;
GW150	150×6×22	6×1/4×7/8	100m/s
GW180	180×6×22	7×1/4×7/8	
GW230	230×6×22	9×1/4×7/8	



Hoses - Industrial PU hose

Features

- ☐ We are flexible,light weight,cold resistant,superior stress crack resistance
- ☐ Resistant to most chemical and solvents

Specification

- ☐ Fluid:air,water,non-corrosive oil
- ☐ Working pressure:0-150psi/0-10kgf/cm²
- ☐ Working temperature:0-70 °C

Color

- ☐ Yellow,blue, red transparent,other



PU reels

Model No.	I.D	O.D	Length
AHPU-2504	2.5mm	4mm	200m
AHPU-0406	4mm	6mm	200m
AHPU-0508	5mm	8mm	100m
AHPU-6510	6.5mm	10mm	100m
AHPU-0812	8mm	12mm	100m
AHPU-0913	9mm	13mm	100m
AHPU-1016	10mm	16mm	100m
AHPU-3/8	6.5mm	9.5mm	100m
AHPU-1/2	9.6mm	12.6mm	100m

Hoses - Industrial rubber hose

Features

- ☐ Super lightweight
- ☐ Flexible
- ☐ Great resistance to sunlight, weathering and ozone
- ☐ Excellent resistance to oils, grease and solvents
- ☐ High abrasion resistance

Applications

- ☐ Ideal hose for air tools such as nailers and staplers
- ☐ Indoor and outdoor construction applications
- ☐ Spray painting applications

Specifications

- ☐ Working temperature: -40 °F to 150 °F (-20 °C to 70°C)



Rubber reels

Model No.	I.D×O.D	Model No.	I.D×O.D
AHRB-1/4	6.5×12mm	AHRB-1/2	13×20mm
AHRB-5/16	8.5×14mm	AHPB-5/8	16×25mm
AHRB-3/8	10×16mm	AHPB-3/4	19×28.5mm

Hoses - Industrial PVC hose

Features

- ☐ We are flexible,light weight,cold resistant,superior stress crack resistance

Specification

- ☐ Fluid:air,water
- ☐ Working pressure:0-300psi/0-20kgf/cm²
- ☐ Working temperature:-10-70 °C

Color

- ☐ Yellow,blue, red transparent,other



PVC reels

Model No.	I.D×O.D	Model No.	I.D×O.D
AHPVC-1/4	6.5×12mm	AHPVC-1/2	13×20mm
AHPVC-5/16	8.5×14mm	AHPVC-5/8	16×25mm
AHPVC-3/8	10×16mm	AHPVC-3/4	19×28.5mm

Hoses - Industrial PVC & rubber blended hose

Features

- ☐ We are flexible,cold resistant,more soft than PVC and Rubber hose

Specification

- ☐ Fluid:air,water
- ☐ Working pressure:0-300psi/0-20kgf/cm²
- ☐ Working temperature:-10-70 °C

Color

- ☐ Yellow,blue, red transparent,other



Model No.	I.D×O.D	Model No.	I.D×O.D
AHPR-1/4	6.5×12mm	AHPR-1/2	13×20mm
AHPR-5/16	8.5×14mm	AHPR-5/8	16×25mm
AHPR-3/8	10×16mm	AHPR-3/4	19×28.5mm

Punch - 3PC cold chisel set

Model No. P003A

3PC Cold chisel

- ☐ 3/8"x5/16"x5-1/2", 1/2"x7/16"x6", 5/8"x15/32"x6-1/2"



Model No. PND003A

- ☐ Drop forged chrome vanadium steel, heat treated
- ☐ Hardened head to HRC53-60
- ☐ Powder coating finish for increased visibility
- ☐ Ideal for mechanician

3PC Cold chisel

- ☐ 10x8x142mm(3x8"x5x16"x5-9/16"), 13x10x152mm(1/2"x3/8"x6"), 16x13x172mm(5/8"x1/2"x6-3/4")



Punch - 6PC pin punch set

Model No. P006D8

6PC Pin punch

- ☐ 3x10x150mm,4x10x150mm,5x10x150mm, 6x10x150mm,7x12x150mm,8x12x150mm



Punch - Automatic center punch

Model No. P300A-1:5",P300A-2:5-1/2",P300A-3:6"

- ☐ Solid brass body with hardened steel tip
- ☐ Automatic center punch is used to create dimples or impressions on soft metals,wood,etc.,



Punch - 38PC stamping tool set

Model No. PS38

- ☐ Stamp size:1/4"x1.12"L
- ☐ Stamp marking:A-Z,0-8,(&),(.)
- ☐ Font length:0.2"
- ☐ Set contents:37 stamps,automatic center punch



Castor - Light-duty wheel castor

Specification

- ☐ Bolt Dia: 8.25mm ☐ Plate thickness: 4mm ☐ Rotating flexible, quiet walk, wear resistance, water-proof, anti-chemical corrosion



Size	Model No.				Wheel material	Roller	Capacity(kgs)	Wheel width(mm)
	Rigid	Plate swivel	Side brake	Dual brakes				
3"/75mm	CL075-1A	CL075-2A	CL075-3A	CL075-4A	PP	Ball bearing	75	32
	CL075-1B	CL075-2B	CL075-3B	CL075-4B	TPU		75	
	CL075-1C	CL075-2C	CL075-3C	CL075-4C	TPR		70	
4"/100mm	CL100-1A	CL100-2A	CL100-3A	CL100-4A	PP		90	
	CL100-1B	CL100-2B	CL100-3B	CL100-4B	TPU		90	
	CL100-1C	CL100-2C	CL100-3C	CL100-4C	TPR		80	
5"/125mm	CL125-1A	CL125-2A	CL125-3A	CL125-4A	PP		100	
	CL125-1B	CL125-2B	CL125-3B	CL125-4B	TPU		100	
	CL125-1C	CL125-2C	CL125-3C	CL125-4C	TPR		100	

Castor - Medium-duty wheel castor

Specification

- ☐ Bolt Dia: 11.2mm ☐ Plate thickness: 6mm ☐ Rotating flexible, impact resistance, wear resistance, water-proof, anti-chemical corrosion



Size	Model No.				Wheel material	Roller	Capacity(kgs)	Wheel width(mm)
	Rigid	Plate swivel	Side brake	Dual brakes				
4"/100mm	CM100-1A	CM100-2A	CM100-3A	CM100-4A	TPU	Ball bearing	280	50
	CM100-1B	CM100-2B	CM100-3B	CM100-4B	PP		250	
	CM100-1C	CM100-2C	CM100-3C	CM100-4C	TPR		160	
5"/125mm	CM125-1A	CM125-2A	CM125-3A	CM125-4A	TPU		350	
	CM125-1B	CM125-2B	CM125-3B	CM125-4B	PP		270	
	CM125-1C	CM125-2C	CM125-3C	CM125-4C	TPR		175	
6"/150mm	CM150-1A	CM150-2A	CM150-3A	CM150-4A	TPU		350	
	CM150-1B	CM150-2B	CM150-3B	CM150-4B	PP		350	
	CM150-1C	CM150-2C	CM150-3C	CM150-4C	TPR		280	
8"/200mm	CM200-1A	CM200-2A	CM200-3A	CM200-4A	TPU		420	
	CM200-1B	CM200-2B	CM200-3B	CM200-4B	PP		420	
	CM200-1C	CM200-2C	CM200-3C	CM200-4C	TPR		310	

Castor - Heavy-duty wheel castor

Specification

- ☐ Bolt Dia: 14mm
☐ Plate thickness: 12mm
☐ Adjustable gap wear, forged, dual brake, large cargo handling



Size	Model No.			Wheel material	Roller	Capacity(kgs)	Wheel width(mm)
	Rigid	Plate swivel	Dual brakes				
6"/150mm	CH150-1A	CH150-2A	CH150-3A	PU	Ball bearing	900	75
	CH150-1B	CH150-2B	CH150-3B	MC		1300	75
	CH150-1C	CH150-2C	CH150-3C	Cast Iron		1300	70
8"/200mm	CH200-1A	CH200-2A	CH200-3A	PU		1000	75
	CH200-1B	CH200-2B	CH200-3B	MC		1400	75
	CH200-1C	CH200-2C	CH200-3C	Cast Iron		1400	70
10"/250mm	CH250-1A	CH250-2A	CH250-3A	PU		1200	75
	CH250-1B	CH250-2B	CH250-3B	MC		1500	75
	CH250-1C	CH250-2C	CH250-3C	Cast Iron		1500	70
12"/300mm	CH300-1A	CH300-2A	CH300-3A	PU		1500	75
	CH300-1B	CH300-2B	CH300-3B	MC		2000	75
	CH300-1C	CH300-2C	CH300-3C	Cast Iron		2000	70

Hex key - 9pcs ball head hex key set S2 brown

Model No.	HBXG-9
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- ☐ Metric or inch is optional
☐ Inch sizes: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 5/16", 3/8"
☐ Metric sizes: 1.5mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm, 5.0mm, 6.0mm, 8.0mm, 10.0mm
☐ Mirror black finish and mirror chrome finish is optional



Hex key - 9pcs torx ket set S2 brown

Model No.	HTXW-9
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- ☐ Size: T10, T15, T20, T25, T27, T30, T40, T45, T50

