

Selection Procedure

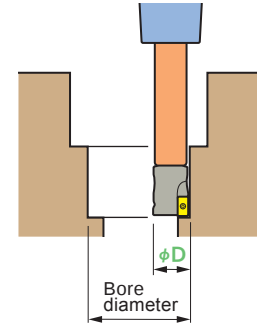
Follow the steps below to select the optimal combination according to work-piece diameter, depth and shape.

Step ① Select ϕD (cutter diameter) according to bore diameter.

- The optimum cutter diameter is **20 to 60%** of the bore diameter.



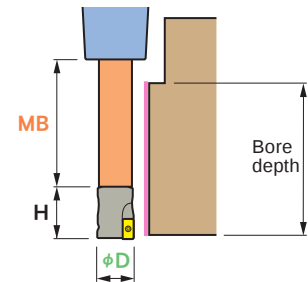
ϕD (Cutter dia.)	G
16	M 8
20	M10
25	M12
32/40	M16



Step ② Select MB length (carbide arbor projection) according to the bore depth.

- Total projection of a carbide arbor and an indexable tool length should be longer than the bore depth. **Bore depth < MB+H.**

ϕD (Cutter dia.)	MB (carbide arbor projection)									
16	25	50	75	90	105	-	-	-	-	-
20	25	50	75	100	120	140	-	-	-	-
25	25	50	75	100	125	150	175	-	-	-
32/40	25	50	75	100	125	150	175	200	225	-



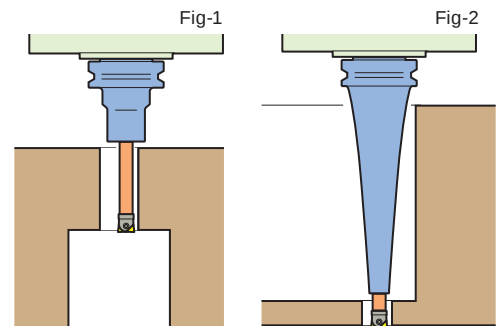
Step ③ Select a shrink-fit holder according to the shape of the work-piece.

- If there is interference with the workpiece, avoid interference by using a different holder shape instead of increasing the MB (carbide arbor length) protrusion.

- In case of no interference (Fig-1).
→ Select thick, short shrink-fit holder.
- In case of interference (Fig-2).
→ Select a shrink-fit holder that minimizes the carbide arbor projection.



You can download CAD data(2D and 3D) at MST's website.
※Registration is required when you download CAD data.



About the rigidity value $\downarrow S$

Even if the overall length of the MILL BORE is the same, the rigidity of the MILL BORE will vary greatly depending on the combination of the shrink-fit holder and the projection of the carbide arbor.

Use "the rigidity value $\downarrow S$ " in the dimension table for determining cutting conditions and selecting the MILL BORE.

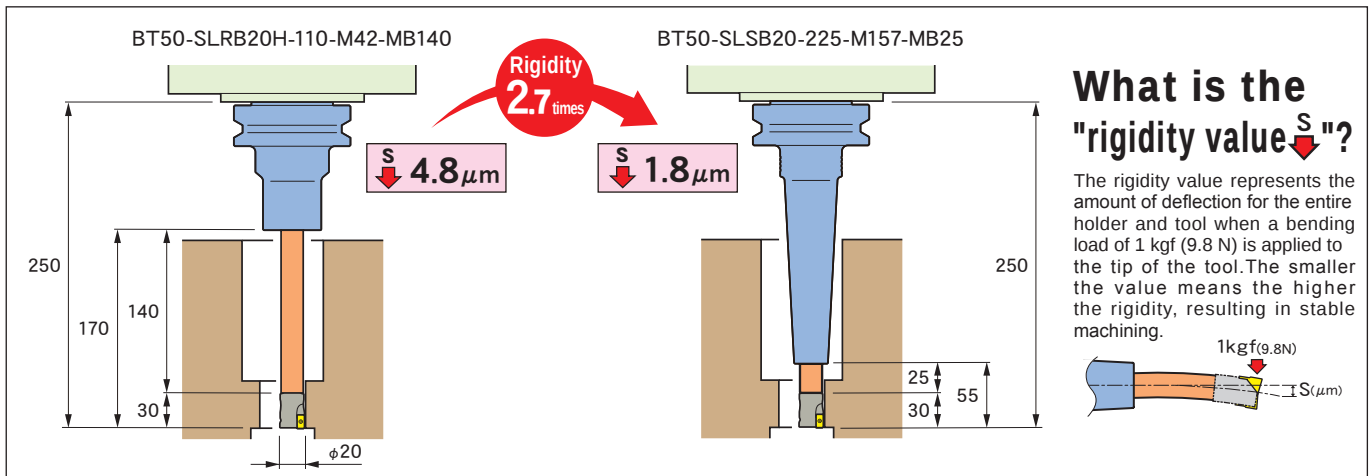


Fig.1

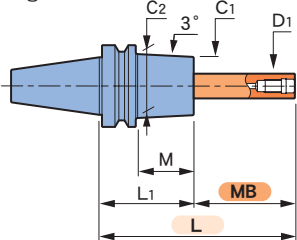


Fig.2

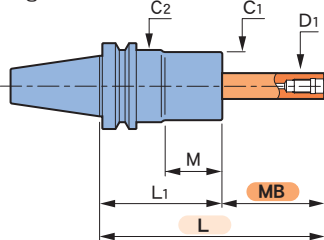


Fig.3

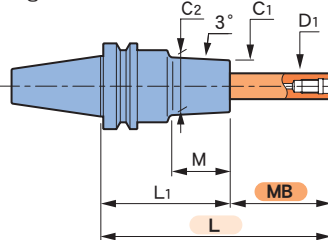


Fig.4

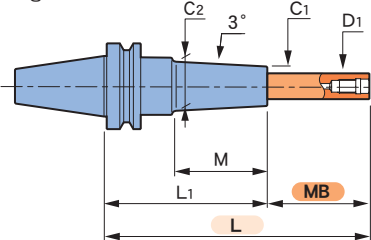
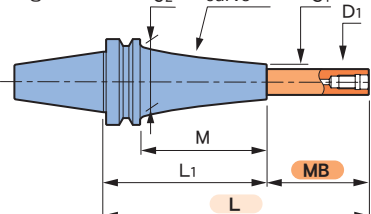


Fig.5



MILL BORE CODE

BT40-SLRB16-75-M22-MB25

SLIMLINE CODE

Carbide
arbor
projection

M8  **φ16**

S : Rigidity value (μm/kgf) **P.6**

SLIMLINE CODE	Fig.	φC1	L1	M	φC2	MB (Carbide arbor projection) φD1=15									
						25		50		75		90		105	
						L	S	L	S	L	S	L	S	L	S
BT40-SLRB16S- 65- M 33	1	38	65	33	41.5	90	0.4	115	1.2	140	2.6	155	3.9	170	5.5
BT40-SLRB16H- 80- M 32	2	42	80	32	53	105	0.4	130	1.2	155	2.6	170	3.9	185	5.5
BT40-SLRB16 - 75- M 22	3	32	75	22	34.3	100	0.5	125	1.3	150	2.8	165	4.1	180	5.7
- 95- M 42			95	42	36.4	120	0.6	145	1.5	170	3.0	185	4.4	200	6.1
- 105- M 22			105	22	34.3	130		155		180	3.1	195		210	
- 120- M 67			120	67	39	145	0.8	170	1.8	195	3.4	210	4.9	225	6.7
- 125- M 42			125	42	36.4	150		175		200		215	4.8	230	6.6
- 135- M 22			135	22	34.3	160	0.7	185	1.6	210	3.1	225	4.5	240	6.2
- 150- M 67			150	67	39	175	1.1	200	2.1	225	3.9	240	5.4		
- 155- M 42			155	42	36.4	180	0.9	205	1.8	230	3.5	245	4.9	260	6.7
- 180- M 67			180	67	39	205	1.2	230	2.2	255	4.0	270	5.5		
BT40-SLSB16 - 95- M 42	4	24	95	42	28.4	120	0.9	145	1.9	170	3.8	185	5.3		
- 120- M 67			120	67	31	145	1.3	170	2.6	195	4.7	210	6.4		
- 125- M 42			125	42	28.4	150	1.1	175	2.2	200	4.1	215	5.7		
- 150- M 67			150	67	31	175	1.6	200	3.0	225	5.1	240	6.9		
- M 97				97	34.2				1.9		3.4		5.7		
- 155- M 42			155	42	28.4	180	1.1	205	2.3	230	4.2	245	5.8		
- 180- M 67			180	67	31	205	1.7	230	3.1	255	5.3	270	7.0		
- M 97				97	34.2				2.3		3.9		6.3		
- M 127				127	37.3					4.0			6.4		
- 210- M 97			210	97	34.2	235	2.4	260		285	6.5				
- M 127				127	37.3				2.6		4.2		6.8		
- M 157				157	40.5				2.9		4.7				
- 240- M 127			240	127	37.3	265	2.8	290	4.6	315	7.2				
- M 157				157	40.5				3.2		5.0				
- 270- M 157			270			295	3.5	320	5.4						
BT40-SLSB16 - 90^{CV}	5	21	90	63	53	115	0.8	140	1.8	165	3.5	180	5.0	195	7.0
- 120 ^{CV}			120	93		145	1.0	170	2.1	195	4.0	210	5.6		
- 150 ^{CV}			150	123		175	1.7	200	3.1	225	5.3	240	7.2		
- 180 ^{CV}			180	153		205	2.1	230	3.7	255	6.1				
- 210 ^{CV}			210	183		235	3.2	260	5.2						
- 240 ^{CV}			240	213		265	4.0	290	6.2						

CAD data download

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M10 $\phi 20$

SLIMLINE CODE	Fig.	ϕC_1	L ₁	M	ϕC_2	MB (Carbide arbor projection) $\phi D_1=19$											
						25		50		75		100		120		140	
						L	S	L	S	L	S	L	S	L	S	L	S
BT40-SLRB20S- 70-M 41	1	45	70	41	49.4	95	0.3	120	0.6	145	1.3	170	2.3	190	3.4	210	4.8
BT40-SLRB20H- 90-M 42	2	50	90	42	53	115	0.3	140	0.7	165	1.3	190	2.3	210	3.5	230	4.9
BT40-SLRB20 - 95-M 42	3	38	95	42	42.4	120	0.4	145	0.8	170	1.5	195	2.5	215	3.7	-	-
- 120-M 67			120	67	45	145	0.5	170	0.9	195	1.7	220	2.8	240	4.1	-	-
- 125-M 42			125	42	42.4	150	-	175	-	200	1.6	225	-	245	4.0	-	-
- 150-M 67			150	67	45	175	0.6	200	2.9	225	1.9	250	3.1	270	4.4	-	-
- 155-M 42			155	42	42.4	180	-	205	1.1	230	-	255	3.0	275	4.3	-	-
- 180-M 67			180	67	45	205	0.8	230	1.3	255	2.2	280	3.4	300	4.8	-	-
BT40-SLSB20 - 95-M 42	4	29	95	42	33.4	120	0.5	145	1.1	170	1.9	195	3.2	215	4.5	-	-
- 120-M 67			120	67	36	145	0.8	170	1.5	195	2.5	220	3.9	-	-	-	-
- 125-M 42			125	42	33.4	150	-	175	1.4	200	2.3	225	3.7	-	-	-	-
- 150-M 67			150	67	36	175	1.1	200	1.9	225	3.0	250	4.5	-	-	-	-
- M 97			97	39.2	-	-	-	-	-	-	-	-	-	-	-	-	-
- 155-M 42			155	42	33.4	180	0.8	205	1.4	230	2.4	255	3.8	-	-	-	-
- 180-M 67			180	67	36	205	1.2	230	2.0	255	3.1	280	4.7	-	-	-	-
- M 97			97	39.2	-	-	1.3	-	2.1	-	3.2	4.9	-	-	-	-	-
- M 127			127	42.3	-	-	1.5	-	2.4	-	3.6	-	-	-	-	-	-
- 210-M 97			210	97	39.2	235	-	260	-	285	-	-	-	-	-	-	-
- M 127			127	42.3	-	-	1.7	-	2.6	-	3.9	-	-	-	-	-	-
- M 157			157	45.5	-	-	1.9	-	2.9	-	4.2	-	-	-	-	-	-
- 240-M 127			240	127	42.3	265	2.0	290	3.0	315	4.3	-	-	-	-	-	-
- M 157			157	45.5	-	-	2.2	-	3.2	-	4.6	-	-	-	-	-	-
- 270-M 157			270	-	-	295	2.5	320	3.6	-	-	-	-	-	-	-	-
BT40-SLSB20 - 90 ^{CV}	5	26	90	63	50.5	115	0.5	140	1.0	165	1.9	190	3.1	210	4.5	-	-
- 120 ^{CV}			120	93	53	145	0.7	170	1.4	195	2.3	220	3.7	-	-	-	-
- 150 ^{CV}			150	123	-	175	1.3	200	2.1	225	3.3	-	-	-	-	-	-
- 180 ^{CV}			180	153	-	205	1.7	230	2.7	255	4.0	-	-	-	-	-	-
- 210 ^{CV}			210	183	-	235	2.2	260	3.4	285	4.9	-	-	-	-	-	-
- 240 ^{CV}			240	213	-	265	2.9	290	4.2	-	-	-	-	-	-	-	-

M12 $\phi 25$

M12  φ25	SLIMLINE CODE	Fig.	φC1	L1	M	φC2	MB (Carbide arbor projection) φD1=24															
							25		50		75		100		125		150		175			
							L	S	L	S	L	S	L	S	L	S	L	S	L	S		
BT40-SLRB25S- 75- M 30	1	49	75	30	52.2	100	0.2	125	0.4	150	0.7	175	1.1	200	1.8	225	2.7	-	-			
BT40-SLRB25H- 95- M 42	2	51	95	42	53	120	0.2	145	0.4	170	0.8	195	1.3	220	1.9	-	-	-	-			
BT40-SLRB25 - 95- M 42	3	45	95	42	49.4	120	0.2	145	0.5	170	0.8	195	1.3	220	2.0	-	-	-	-			
- 125- M 42			125	-	-	150	0.4	175	0.6	200	1.0	225	1.5	250	2.3	-	-	-	-			
- 155- M 42			155	-	-	180	0.5	205	0.8	230	1.2	255	1.8	280	2.6	-	-	-	-			

M16 $\phi 32$
 $\phi 40$

M16  φ40	SLIMLINE CODE	Fig.	φC ₁	L ₁	M	φC ₂	MB (Carbide arbor projection) φD ₁ =29																	
							25		50		75		100		125		150		175		200		225	
							L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S
																								
BT40-SLRB32 - 95-M 42	3	54	95	42	58.4	120	0.2	145	0.3	170	0.5	195	0.8	220	1.2	-	-	-	-					

■ Option
■ Caution

- Retention knob
- Some of an indexable tool cannot be mounted. When installing indexable tools, confirm thread dimensions of an indexable tool in **P.5** or contact us.
- About MB (carbide arbor projection)
The product line-up and information in this catalog is based on steel and cast iron work-piece applications.
Depending on the work-piece material, the MILL BORE marked with " - " is available. For details, please contact us.

Fig.1

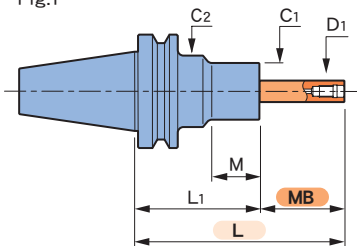


Fig.2

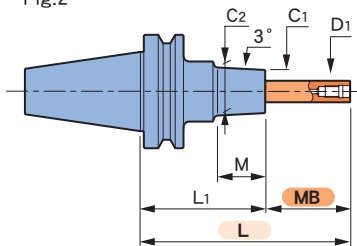


Fig.3

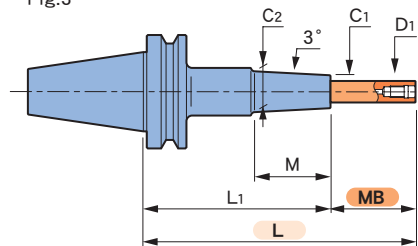
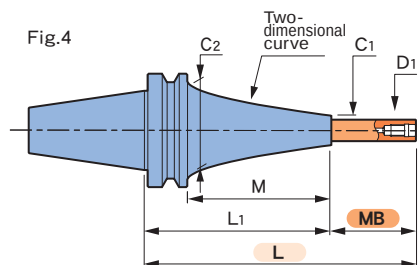


Fig.4



MILL BORE CODE

BT50-SLRB16- 90-M22 - MB25

SLIMLINE CODE

Carbide
arbor
projection

M8  $\phi 16$	SLIMLINE CODE	Fig.	$\phi C1$	$L1$	M	$\phi C2$	MB (Carbide arbor projection) $\phi D1=15$									
							25		50		75		90		105	
							L	S	L	S	L	S	L	S	L	S
BT50-SLRB16H- 95-M 32	BT50-SLRB16 - 90-M 22	2	32	95	32	53	120	0.4	145	1.2	170	2.6	185	3.8	200	5.4
				110	42	36.4	115	0.5	140	1.3	165	2.7	180	4.0	195	5.7
				120	22	34.3	135	0.6	160	1.5	185	3.0	200	4.4	215	6.1
				135	67	39	145		170		195		210		225	
				140	42	36.4	160	0.8	185	1.8	210	3.4	225	4.8	240	6.6
				150	22	34.3	165		190	1.7	215		230		245	
				165	67	39	175	0.6	200	1.5	225	3.0	240	4.4	255	6.1
				170	42	36.4	190	1.1	215	2.1	240	3.9	255	5.4	270	7.2
				175	22	34.3	195	0.8	220	1.8	245	3.4	260	4.8	275	6.6
				195	67	39	220	1.1	245	2.1	270	3.9	285	5.4	300	7.2
BT50-SLSB16 - 110-M 42	BT50-SLSB16 - 110-M 42	3	24	110	42	28.4	135	0.9	160	1.9	185	3.7	200	5.3	215	7.2
				135	67	31	160	1.3	185	2.6	210	4.7	225	6.4	-	-
				140	42	28.4	165	1.1	190	2.2	215	4.1	230	5.7	-	-
				165	67	31	190	1.6	215	2.9	240	5.1	255	6.9	-	-
				97	34.2			1.9		3.4		5.7	-	-	-	-
				170	42	28.4	195	1.1	220	2.2	245	4.1	260	5.7	-	-
				195	67	31	220	1.6	245	2.9	270	5.1	285	6.9	-	-
				97	34.2			2.3		3.9		6.3	-	-	-	-
				127	37.3								-	-	-	-
				225	97	34.2	250		275		300		-	-	-	-
				127	37.3			2.5		4.1		6.6	-	-	-	-
				157	40.5			2.8		4.6		7.2	-	-	-	-
				255	127	37.3	280	2.5	305	4.2	330	6.7	-	-	-	-
				157	40.5			3.1		4.9		-	-	-	-	-
				285			310		335		-	-	-	-	-	-
BT50-SLSB16 - 165 ^{CV}	BT50-SLSB16 - 165 ^{CV}	4	21	165	127	85	190	0.8	215	1.8	240	3.5	255	5.0	270	6.9
				195	157		220	1.3	245	2.6	270	4.6	285	6.3	-	-
				225	187		250	1.4	275		300	4.7	315	6.4	-	-
				255	217		280	2.2	305	3.8	330	6.2	-	-	-	-
				285	247		310	2.3	335	3.9	360	6.3	-	-	-	-
				315	277		340	2.9	365	4.7	-	-	-	-	-	-

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M10 $\phi 20$

SLIMLINE CODE	Fig.	ϕC_1	L ₁	M	ϕC_2	MB (Carbide arbor projection) $\phi D_1=19$											
						25		50		75		100		120		140	
						L	S	L	S	L	S	L	S	L	S	L	S
BT50-SLRB20H- 110-M 42	1	50	110	42	63	135	0.3	160	0.6	185	1.2	210	2.2	230	3.3	250	4.8
BT50-SLRB20 - 110-M 42	2	38	110	42	42.4	135	0.3	160	0.7	185	1.4	210	2.5	230	3.6	250	5.2
- 135-M 67			135	67	45	160	0.4	185	0.9	210	1.6	235	2.8	255	4.0	275	5.6
- 140-M 42			140	42	42.4	165		190	0.8	215		240	2.7	260	3.9	280	5.4
- 165-M 67			165	67	45	190	0.6	215	1.0	240	1.8	265	3.0	285	4.3	-	-
- 170-M 42			170	42	42.4	195	0.4	220	0.9	245	1.6	270	2.7	290	3.9	310	5.5
- 195-M 67			195	67	45	220	0.6	245	1.1	270	1.9	295	3.0	315	4.3	-	-
BT50-SLSB20 - 110-M 42	3	29	110	42	33.4	135	0.5	160	1.0	185	1.9	210	3.1	230	4.5	-	-
- 135-M 67			135	67	36	160	0.8	185	1.5	210	2.5	235	3.9	255	5.4	-	-
- 140-M 42			140	42	33.4	165	0.7	190	1.3	215	2.3	240	3.6	260	5.1	-	-
- 165-M 67			165	67	36	190	1.1	215	1.8	240	3.0	265	4.5	-	-	-	-
- M 97				97	39.2						2.9		4.4	-	-	-	-
- 170-M 42			170	42	33.4	195	0.7	220	1.3	245	2.3	270	3.6	290	5.1	-	-
- 195-M 67			195	67	36	220	1.1	245	1.9	270	3.0	295	4.5	-	-	-	-
- M 97				97	39.2		1.2		2.0		3.1		4.7	-	-	-	-
- M 127				127	42.3		1.4		2.3		3.5		5.2	-	-	-	-
- 225-M 97			225	97	39.2	250	1.2	275	2.0	300	3.2	325	4.8	-	-	-	-
- M 127				127	42.3		1.6		2.5		3.8		5.5	-	-	-	-
- M 157				157	45.5		1.8		2.7		4.1		-	-	-	-	-
- 255-M 127			255	127	42.3	280	1.7	305	2.6	330	3.8	355	5.6	-	-	-	-
- M 157				157	45.5		2.1		3.1		4.4		-	-	-	-	-
- 285-M 157			285			310		335		360	4.5	-	-	-	-	-	-
BT50-SLSB20 - 165^{CV}	4	26	165	127	85	190	0.6	215	1.1	240	2.0	265	3.3	285	4.6	-	-
- 195 ^{CV}			195	157		220	0.7	245	1.2	270	2.1	295	3.4	315	4.8	-	-
- 225 ^{CV}			225	187		250	1.1	275	1.9	300	3.0	325	4.6	-	-	-	-
- 255 ^{CV}			255	217		280	1.2	305	2.0	330	3.1	355	4.7	-	-	-	-
- 285 ^{CV}			285	247		310	1.7	335	2.6	360	3.8	385	5.6	-	-	-	-
- 315 ^{CV}			315	277		340	2.2	365	3.2	390	4.7	-	-	-	-	-	-

M12 $\phi 25$

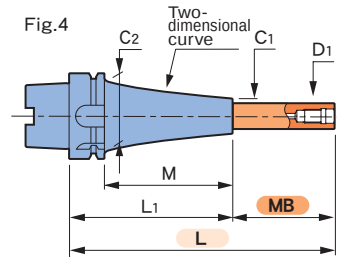
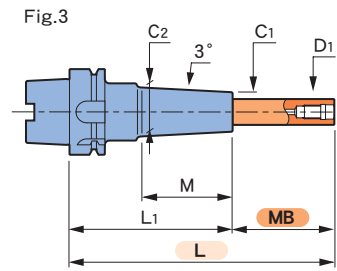
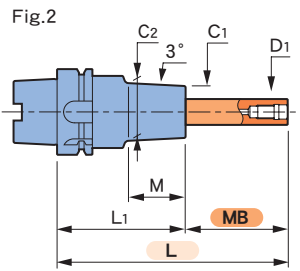
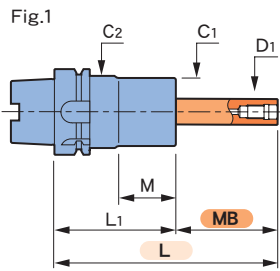
M12  φ25	SLIMLINE CODE	Fig.	φ C1	L1	M	φ C2	MB (Carbide arbor projection) φD1=24																			
							25		50		75		100		125		150		175							
							L	S	L	S	L	S	L	S	L	S	L	S	L	S						
BT50-SLRB25H- 110- M 42							1	58	110	42	63	135	0.2	160	0.3	185	0.6	210	1.1	235	1.7	260	2.5	285	3.6	
BT50-SLRB25 - 110- M 42							2	45	110	42	49.4	135	0.2	160	0.4	185	0.7	210	1.2	235	1.9	260	2.8	285	4.0	
- 140- M 42									140				165	0.3	190	0.5	215	0.9	240	1.4	265	2.2	290	3.1	315	4.3
- 170- M 42									170				195		220	0.6	245		270	1.5	295		320	3.2	345	4.4

M16 $\phi 32$
 $\phi 40$

M16  φ40	SLIMLINE CODE	Fig.	φC ₁	L ₁	M	φC ₂	MB (Carbide arbor projection) φD ₁ =29																	
							25		50		75		100		125		150		175		200		225	
							L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S
																								
BT50-SLRB32 - 110-M 42	2	54	110	42	58.4	135	0.1	160	0.3	185	0.4	210	0.7	235	1.1	260	1.5	285	2.1	310	2.8	335	3.7	
- 140-M 42			140			165	0.2	190		215	0.5	240	0.8	265	1.2	290	1.7	315	2.3	340	3.1	365	4.0	
- 170-M 42			170			195		220	0.4	245	0.6	270	0.9	295		320		345	2.4	370		395	4.1	

■ Option
■ Caution

- Retention knob
- Some of an indexable tool cannot be mounted. When installing indexable tools, confirm thread dimensions of an indexable tool in **P.5** or contact us.
- About MB (carbide arbor projection)
The product line-up and information in this catalog is based on steel and cast iron work-piece applications.
Depending on the work-piece material, the MILL BORE marked with " - " is available. For details, please contact us.



MILL BORE CODE

A63-SLRB16- 75-M22 - MB25

SLIMLINE CODE

**Carbide
arbor
projection**

M8  $\phi 16$							MB (Carbide arbor projection) $\phi D_1=15$														
SLIMLINE CODE							Fig.	ϕC_1	L1	M	ϕC_2	25		50		75		90		105	
												L		L		L		L		L	
A63-SLRB16H- 80- M 32							1	42	80	32	53	105	0.4	130	1.2	155	2.6	170	3.8	185	5.4
A63-SLRB16 - 75- M 22							2	32	75	22	34.3	100	0.5	125	1.3	150	2.8	165	4.0	180	5.7
- 95- M 42									95	42	36.4	120	0.6	145	1.5	170	3.0	185	4.4	200	6.1
- 105- M 22									105	22	34.3	130		155		180		195		210	
- 120- M 67									120	67	39	145	0.8	170	1.8	195	3.4	210	4.8	225	6.6
- 125- M 42									125	42	36.4	150		175		200		215		230	
- 135- M 22									135	22	34.3	160	0.7	185	1.6	210	3.1	225	4.5	240	6.2
- 150- M 67									150	67	39	175	1.1	200	2.1	225	3.9	240	5.4		-
- 155- M 42									155	42	36.4	180	0.9	205	1.8	230	3.5	245	4.9	260	6.7
- 180- M 67									180	67	39	205	1.2	230	2.2	255	4.0	270	5.5		-
A63-SLSB16 - 95- M 42							3	24	95	42	28.4	120	0.9	145	1.9	170	3.7	185	5.3	200	7.2
- 120- M 67									120	67	31	145	1.3	170	2.6	195	4.7	210	6.4		-
- 125- M 42									125	42	28.4	150	1.1	175	2.2	200	4.1	215	5.7		-
- 150- M 67									150	67	31	175	1.6	200	3.0	225	5.1	240	6.9		-
- M 97									97	34.2			1.9		3.4		5.7		-		-
- 155- M 42									155	42	28.4	180	1.1	205	2.3	230	4.2	245	5.8		-
- 180- M 67									180	67	31	205	1.7	230	3.0	255	5.2	270	7.0		-
- M 97									97	34.2			2.3		3.9		6.3		-		-
- M 127									127	37.3							6.4		-		-
- 210- M 97									210	97	34.2	235	2.4	260	4.0	285			-		-
- M 127									127	37.3			2.5		4.2		6.7		-		-
- M 157									157	40.5			2.9		4.6		7.3		-		-
- 240- M 127									240	127	37.3	265	2.8	290	4.5	315	7.1		-		-
- M 157									157	40.5			3.1		5.0		-		-		-
- 270- M 157									270			295	3.5	320	5.4		-		-		-
A63-SLSB16 - 90 ^{CV}							4	21	90	64	53	115	0.8	140	1.8	165	3.5	180	5.0	195	6.9
- 120 ^{CV}									120	94		145	1.0	170	2.1	195	4.0	210	5.6		-
- 150 ^{CV}									150	124		175	1.6	200	3.0	225	5.3	240	7.1		-
- 180 ^{CV}									180	154		205	2.1	230	3.6	255	6.1		-		-
- 210 ^{CV}									210	184		235	3.2	260	5.2		-		-		-
- 240 ^{CV}									240	214		265	3.9	290	6.1		-		-		-
- 270 ^{CV}									270	244		295	4.8	320	7.2		-		-		-

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※Registration is required
when you download CAD data.

Please use the QR cord
for your registration.



M10 **φ20**

SLIMLINE CODE	Fig.	φC1	L1	M	φC2	MB (Carbide arbor projection) φD1=19											
						25		50		75		100		120		140	
						L	S	L	S	L	S	L	S	L	S	L	S
A63-SLRB20H- 90-M 42	1	50	90	42	53	115	0.3	140	0.7	165	1.3	190	2.3	210	3.4	230	4.9
A63-SLRB20 - 95-M 42	2	38	95	42	42.4	120	0.4	145	0.8	170	1.4	195	2.5	215	3.7	-	-
- 120-M 67			120	67	45	145	0.5	170	0.9	195	1.7	220	2.8	240	4.0	-	-
- 125-M 42			125	42	42.4	150	0.4	175		200	1.6	225	2.7	245	3.9	-	-
- 150-M 67			150	67	45	175	0.6	200	1.1	225	1.9	250	3.1	270	4.3	-	-
- 155-M 42			155	42	42.4	180		205	1.0	230	1.8	255	3.0	275	4.2	-	-
- 180-M 67			180	67	45	205	0.8	230	1.3	255	2.1	280	3.4	300	4.7	-	-
A63-SLSB20 - 95-M 42	3	29	95	42	33.4	120	0.5	145	1.1	170	1.9	195	3.2	215	4.5	-	-
- 120-M 67			120	67	36	145	0.8	170	1.5	195	2.5	220	3.9	-	-	-	-
- 125-M 42			125	42	33.4	150	0.7	175	1.3	200	2.3	225	3.6	-	-	-	-
- 150-M 67			150	67	36	175	1.1	200	1.9	225	3.0	250	4.5	-	-	-	-
- M 97				97	39.2				1.8		2.9			-	-	-	-
- 155-M 42			155	42	33.4	180	0.8	205	1.4	230	2.4	255	3.7	-	-	-	-
- 180-M 67			180	67	36	205	1.2	230	1.9	255	3.1	280	4.6	-	-	-	-
- M 97				97	39.2		1.3		2.0		3.2		4.8	-	-	-	-
- M 127				127	42.3		1.5		2.3		3.5		-	-	-	-	-
- 210-M 97			210	97	39.2	235		260		285			-	-	-	-	-
- M 127				127	42.3		1.7		2.6		3.9		-	-	-	-	-
- M 157				157	45.5		1.9		2.8		4.1		-	-	-	-	-
- 240-M 127			240	127	42.3	265	2.0	290	2.9	315	4.3	-	-	-	-	-	-
- M 157				157	45.5		2.1		3.1		4.5		-	-	-	-	-
- 270-M 157			270			295	2.5	320	3.5	-	-	-	-	-	-	-	-
A63-SLSB20 - 90CV	4	26	90	64	51	115	0.5	140	1.0	165	1.9	190	3.1	210	4.5	-	-
- 120CV			120	94	53	145	0.7	170	1.3	195	2.3	220	3.7	-	-	-	-
- 150CV			150	124		175	1.2	200	2.1	225	3.3	250	4.9	-	-	-	-
- 180CV			180	154		205	1.7	230	2.6	255	4.0	-	-	-	-	-	-
- 210CV			210	184		235	2.2	260	3.3	285	4.9	-	-	-	-	-	-
- 240CV			240	214		265	2.9	290	4.2	-	-	-	-	-	-	-	-
- 270CV			270	244		295	3.3	320	4.7	-	-	-	-	-	-	-	-

M12 **φ25**

M12  φ25	SLIMLINE CODE	Fig.	φ C1	L1	M	φ C2	MB (Carbide arbor projection) φD1=24													
							25		50		75		100		125		150		175	
							L	S	L	S	L	S	L	S	L	S	L	S	L	S
A63-SLRB25H- 95-M 42	1	51	95	42	53	120	0.2	145	0.4	170	0.8	195	1.2	220	1.9	245	2.8	-		
A63-SLRB25 - 95-M 42	2	45	95	42	49.4	120	0.2	145	0.4	170	0.8	195	1.3	220	2.0	-	-			
150						0.3	175	0.6	200	0.9	225	1.5	250	2.2	-	-				
180						0.5	205	0.8	230	1.2	255	1.8	280	2.5	-	-				
- 125-M 42			125																	
- 155-M 42			155																	

M16 **φ32**
φ40

M16  φ40	SLIMLINE CODE	Fig.	φC1	L1	M	φC2	MB (Carbide arbor projection) φD1=29																	
							25		50		75		100		125		150		175		200		225	
							L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S
																								

A63-SLRB32 - 110-M 42	2	54	110	42	58.4	135	0.2	160	0.4	185	0.6	210	0.9	235	1.3	-	-	-	-
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■ Std.Access. ● Coolant duct (Fixed type)

■ Note ● Swing type coolant ducts are available upon request. For details, please contact us.

■ Caution ● Some of an indexable tool cannot be mounted. When installing indexable tools, confirm thread dimensions of an indexable tool in **P. 5** or contact us.

● About MB (carbide arbor projection)

The product line-up and information in this catalog is based on steel and cast iron work-piece applications.

Depending on the work-piece material, the MILL BORE marked with " - " is available. For details, please contact us.

Fig.1

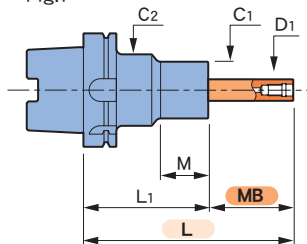


Fig.2

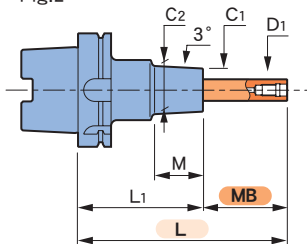


Fig.3

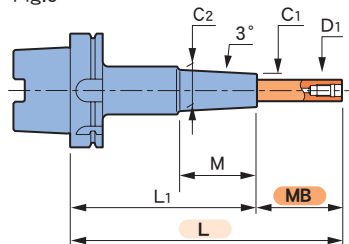
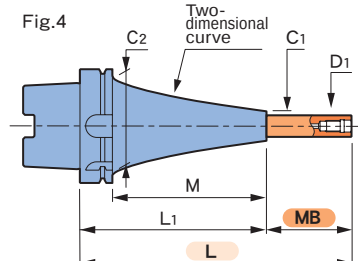


Fig.4



MILL BORE CODE

A100-SLRB16- 90-M22 - MB25

SLIMLINE CODE

Carbide
arbor
projection

SLIMLINE CODE	Fig.	ϕC_1	L_1	M	ϕC_2	MB (Carbide arbor projection) $\phi D_1=15$									
						25		50		75		90		105	
						L	S	L	S	L	S	L	S	L	S
A100-SLRB16H- 95- M 32	1	42	95	32	53	120	0.4	145	1.2	170	2.6	185	3.8	200	5.4
A100-SLRB16 - 90- M 22	2	32	90	22	34.3	115	0.5	140	1.3	165	2.8	180	4.1	195	5.8
- 110- M 42			110	42	36.4	135	0.6	160	1.5	185	3.1	200	4.5	215	6.2
- 120- M 22			120	22	34.3	145	0.7	170		195		210		225	
- 135- M 67			135	67	39	160	0.9	185	1.8	210	3.5	225	4.9	240	6.7
- 140- M 42			140	42	36.4	165		190		215		230		245	
- 150- M 22			150	22	34.3	175	0.7	200	1.5	225	3.1	240	4.4	255	6.1
- 165- M 67			165	67	39	190	1.1	215	2.2	240	4.0	255	5.5	-	-
- 170- M 42			170	42	36.4	195	0.8	220	1.8	245	3.4	260	4.8	275	6.6
- 195- M 67			195	67	39	220	1.1	245	2.1	270	3.9	285	5.4	-	-
A100-SLSB16 - 110- M 42	3	24	110	42	28.4	135	0.9	160	2.0	185	3.8	200	5.3	-	-
- 135- M 67			135	67	31	160	1.4	185	2.6	210	4.7	225	6.5	-	-
- 140- M 42			140	42	28.4	165	1.1	190	2.3	215	4.2	230	5.8	-	-
- 165- M 67			165	67	31	190	1.6	215	3.0	240	5.2	255	7.0	-	-
- M 97				97	34.2		2.0		3.5		5.8	-	-	-	-
- 170- M 42			170	42	28.4	195	1.1	220	2.2	245	4.1	260	5.7	-	-
- 195- M 67			195	67	31	220	1.6	245	3.0	270	5.1	285	6.9	-	-
- M 97				97	34.2		2.4		4.0		6.4	-	-	-	-
- M 127				127	37.3		2.3		3.9		-	-	-	-	-
- 225- M 97			225	97	34.2	250		275		300	6.3	-	-	-	-
- M 127				127	37.3		2.5		4.2		6.7	-	-	-	-
- M 157				157	40.5		2.9		4.6		-	-	-	-	-
- 255- M 127			255	127	37.3	280	2.5	305	4.2	330	6.7	-	-	-	-
- M 157				157	40.5		3.1		4.9		-	-	-	-	-
- 285- M 157			285			310		335			-	-	-	-	-
A100-SLSB16 - 165^{CV}	4	21	165	136	85	190	0.8	215	1.8	240	3.5	255	5.0	-	-
- 195 ^{CV}			195	166		220	1.3	245	2.6	270	4.6	285	6.3	-	-
- 225 ^{CV}			225	196		250	1.4	275		300	4.7	315	6.4	-	-
- 255 ^{CV}			255	226		280	2.2	305	3.8	330	6.2	-	-	-	-
- 285 ^{CV}			285	256		310	2.3	335	3.9	360	6.3	-	-	-	-
- 315 ^{CV}			315	286		340	2.9	365	4.7	-	-	-	-	-	-
- 345 ^{CV}			345	316		370	3.6	395	5.6	-	-	-	-	-	-

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M10 $\phi 20$

SLIMLINE CODE	Fig.	ϕC_1	L ₁	M	ϕC_2	MB (Carbide arbor projection) $\phi D_1=19$											
						25		50		75		100		120		140	
						L	S	L	S	L	S	L	S	L	S	L	S
A100-SLRB20H- 110-M 42	1	50	110	42	63	135	0.3	160	0.6	185	1.3	210	2.2	230	3.3	250	4.8
A100-SLRB20 - 110-M 42	2	38	110	42	42.4	135	0.3	160	0.7	185	1.4	210	2.5	230	3.7	250	5.2
- 135-M 67			135	67	45	160	0.5	185	0.9	210	1.7	235	2.8	255	4.0	275	5.6
- 140-M 42			140	42	42.4	165	0.4	190		215	1.6	240	2.7	260	3.9	280	5.5
- 165-M 67			165	67	45	190	0.6	215	1.1	240	1.9	265	3.0	285	4.3	-	-
- 170-M 42			170	42	42.4	195	0.4	220	0.9	245	1.6	270	2.7	290	3.9	310	5.5
- 195-M 67			195	67	45	220	0.6	245	1.1	270	1.9	295	3.0	315	4.3	-	-
A100-SLSB20 - 110-M 42	3	29	110	42	33.4	135	0.6	160	1.1	185	2.0	210	3.2	230	4.6	-	-
- 135-M 67			135	67	36	160	0.9	185	1.5	210	2.6	235	4.0	255	5.5	-	-
- 140-M 42			140	42	33.4	165	0.8	190	1.4	215	2.4	240	3.7	260	5.2	-	-
- 165-M 67			165	67	36	190	1.2	215	1.9	240	3.1	265	4.6	-	-	-	-
- M 97				97	39.2		1.1		1.8		2.9		4.5	-	-	-	-
- 170-M 42			170	42	33.4	195	0.8	220	1.4	245	2.3	270	3.7	290	5.1	-	-
- 195-M 67			195	67	36	220	1.1	245	1.9	270	3.0	295	4.5	-	-	-	-
- M 97				97	39.2		1.2		2.0		3.2		4.8	-	-	-	-
- M 127				127	42.3		1.5		2.3		3.5		5.2	-	-	-	-
- 225-M 97			225	97	39.2	250	1.3	275	2.0	300	3.2	325	4.8	-	-	-	-
- M 127				127	42.3		1.7		2.6		3.9		5.6	-	-	-	-
- M 157				157	45.5		1.8		2.8		4.1		-	-	-	-	-
- 255-M 127			255	127	42.3	280	1.7	305	2.6	330	3.8	355	5.6	-	-	-	-
- M 157				157	45.5		2.1		3.1		4.5		-	-	-	-	-
- 285-M 157			285			310		335		360		-	-	-	-	-	-
A100-SLSB20 - 165^{CV}	4	26	165	136	85	190	0.6	215	1.1	240	2.0	265	3.3	285	4.7	-	-
- 195 ^{CV}			195	166		220	0.7	245	1.2	270	2.1	295	3.4	315	4.8	-	-
- 225 ^{CV}			225	196		250	1.2	275	1.9	300	3.0	325	4.6	-	-	-	-
- 255 ^{CV}			255	226		280	1.3	305	2.0	330	3.2	355	4.7	-	-	-	-
- 285 ^{CV}			285	256		310	2.0	335	3.1	360	4.5	-	-	-	-	-	-
- 315 ^{CV}			315	286		340	2.2	365	3.2	390	4.7	-	-	-	-	-	-
- 345 ^{CV}			345	316		370	2.8	395	4.0	420	5.6	-	-	-	-	-	-

M12 $\phi 25$

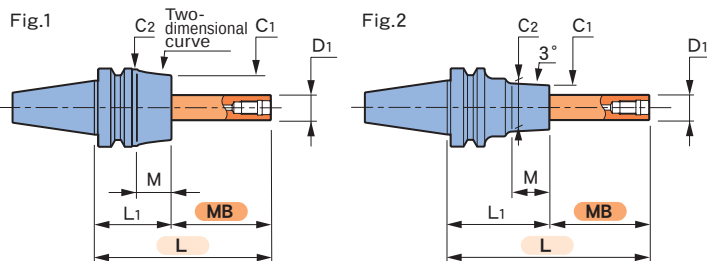
M12  φ25	SLIMLINE CODE Fig. φ C₁ L₁ M φ C₂					MB (Carbide arbor projection) φD ₁ =24															
						25		50		75		100		125		150		175			
						L	S	L	S	L	S	L	S	L	S	L	S	L	S		
A100-SLRB25H- 110- M 42	1	58	110	42	63	135	0.2	160	0.3	185	0.6	210	1.1	235	1.7	260	2.6	285	3.7		
A100-SLRB25 - 110- M 42	2	45	110	42	49.4	135	0.2	160	0.4	185	0.8	210	1.3	235	1.9	260	2.9	285	4.0		
- 140- M 42								165	0.3	190	0.6	215	0.9	240	1.5	265	2.2	290	3.2	315	4.4
- 170- M 42									195		220		245		270		295		320		345

M16 $\phi 32$
 $\phi 40$

M16  φ40	SLIMLINE CODE	Fig.	φC1	L1	M	φC2	MB (Carbide arbor projection) φD1=29																	
							25		50		75		100		125		150		175		200		225	
							L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S	L	S
A100-SLRB32 - 110-M 42	2	54	110	42	58.4	135	0.1	160	0.3	185	0.4	210	0.7	235	1.1	260	1.5	285	2.1	310	2.9	335	3.8	
- 140-M 42			140			165	0.2	190		215	0.5	240	0.8	265	1.2	290	1.7	315	2.3	340	3.1	365	4.0	
- 170-M 42			170			195		220	0.4	245	0.6	270		295		320		345	2.4	370		395	4.1	

- Std. Access.** • Coolant duct (Fixed type)
■ Note • Swing type coolant ducts are available upon request. For details, please contact us.
■ Caution • Some of an indexable tool cannot be mounted. When installing indexable tools, confirm thread dimensions of an indexable tool in **➡ P. 5** or contact us.
 • About MB (carbide arbor projection)
 The product line-up and information in this catalog is based on steel and cast iron work-piece applications.
 Depending on the work-piece material, the MILL BORE marked with " - " is available. For details, please contact us.

BT30



MILL BORE CODE

BT30-SLRA16- 60-M22 - MB25

SLIMLINE CODE

Carbide arbor projection

CAD data download



You can download CAD data (2D and 3D) at MST's website.

※Registration is required when you download CAD data.

Please use the QR code for your registration.



S : Rigidity value (μm/kgf) P.6

M8 **φ16**

SLIMLINE CODE	Fig.	φC1	L1	M	φC2
BT30-SLRB16S- 45	1	38	45	20	45
BT30-SLRA16 - 60-M 22	2	26	60	22	28.3

MB (Carbide arbor projection) φD1=15					
25	50	75	90	105	
L	S	L	S	L	S
70	0.4	95	1.2	120	2.6
85	0.6	110	1.5	-	-

M10 **φ20**

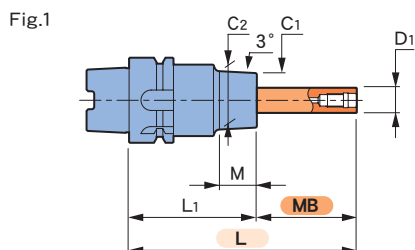
SLIMLINE CODE	Fig.	φC1	L1	M	φC2
BT30-SLRA20 - 65-M 22	2	32	65	22	34.3

MB (Carbide arbor projection) φD1=19					
25	50	75	100	120	140
L	S	L	S	L	S
90	0.4	115	0.9	140	1.6
-	-	-	-	-	-

■ Option
■ Caution

- Retention knob
- Some of an indexable tool cannot be mounted. When installing indexable tools, confirm thread dimensions of an indexable tool in P.5 or contact us.
- About MB (carbide arbor projection)
The product line-up and information in this catalog is based on steel and cast iron work-piece applications.
Depending on the work-piece material, the MILL BORE marked with "-" is available. For details, please contact us.

A50



MILL BORE CODE

A50-SLRB16- 75-M22 - MB25

SLIMLINE CODE

Carbide arbor projection

S : Rigidity value (μm/kgf) P.6

M8 **φ16**

SLIMLINE CODE	Fig.	φC1	L1	M	φC2
A50-SLRB16 - 75-M 22	1	32	75	22	34.3
- 105-M 22			105		

MB (Carbide arbor projection) φD1=15					
25	50	75	90	105	
L	S	L	S	L	S
100	0.5	125	1.3	150	2.8
130	0.7	155	1.6	180	3.2

M10 **φ20**

SLIMLINE CODE	Fig.	φC1	L1	M	φC2
A50M-SLRB20 - 75-M 22	1	38	75	22	40.3
- 105-M 22			105		

MB (Carbide arbor projection) φD1=19					
25	50	75	100	120	140
L	S	L	S	L	S
100	0.3	125	0.7	150	1.4
130	0.4	155	0.8	180	1.6

■ Std.Access.
■ Note
■ Caution

- Coolant duct (Fixed type)
- Swing type coolant ducts are available upon request. For details, please contact us.
- Some of an indexable tool cannot be mounted. When installing indexable tools, confirm thread dimensions of an indexable tool in P.5 or contact us.
- About MB (carbide arbor projection)
The product line-up and information in this catalog is based on steel and cast iron work-piece applications.
Depending on the work-piece material, the MILL BORE marked with "-" is available. For details, please contact us.

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