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Standard Boring Bars

with boring units for roughing & finishing

Product Range:

ANSI (B5-50) CAT

ISO 7388 (DIN 69871)

BT (MAS 403)

DIN 2080

NMTB

Straight Shank

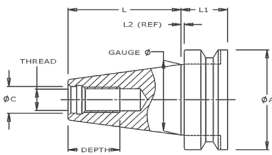
Weldon

Parallel

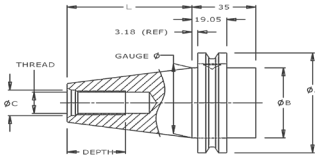
RIGIBORE® Innovation Technology and Quality in **Design and Manufacture**



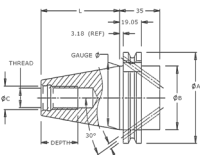
TOOL SHANK DIMENSIONS
for Rigibore® Boring Bars



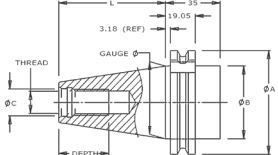
Taper	ø A	ø B	ø C	ø GAUGE	L	L1	L2	THREAD	DEPTH
BT-MAS403	mm	mm	mm	mm	mm	mm	mm		mm
BT40	63.00	N/A	17.00	44.45	65.40	27.00	2.0	M16-2.0	30.0
BT50	100.00	N/A	25.40	69.85	101.60	38.00	3.0	M24-3.0	47.0



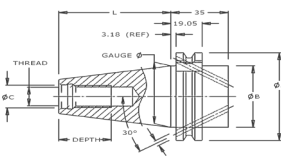
Taper	ø A	ø B	ø C	ø GAUGE	L	THREAD	DEPTH	THREAD	DEPTH
DIN 69871 / ISO 7388	mm	mm	mm	mm	mm				mm
7388-40	63.50	44.45	17.00	44.45	68.25	M16-2.0	32.0	M16-2.0	30.0
7388-50	97.45	70.00	25.00	69.85	101.60	M24-3.0	47.0	M24-3.0	47.0



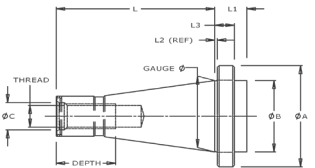
Taper	ø A	ø B	ø C	ø D	ø GAUGE	L	THREAD	DEPTH	DEPTH
DIN 69871B / ISO 7388 FORM B	mm	mm	mm	mm	mm	mm	mm		mm
7388-40	63.50	44.45	17.00	4.20	44.45	68.25	M16-2.0	32	30.0
7388-50	97.45	70.00	25.00	5.00	69.85	101.60	M24-3.0	47	47.0



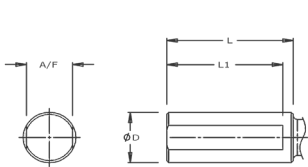
Taper	ø A	ø B	ø C	ø GAUGE	L	THREAD	DEPTH
CATERPILLAR (Imperial Thread)	mm	mm	mm	mm	mm	mm	mm
CAT40	63.50	44.45	16.40	44.45	68.25	5/8-11	32.0
CAT50	98.42	70.00	25.40	69.85	101.60	1.0-8	47.0



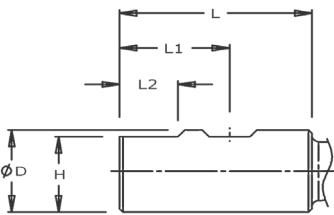
Taper	ø A	ø B	ø C	ø GAUGE	L	L1	L2	L3	THREAD	DEPTH
ISO/DIN2080 (Metric Thread)										
2080-40	63.50	44.45	17.00	44.45	93.30	19.00	1.6	11.70	M16-2.0	35.00
2080-50	97.40	70.00	26.10	69.85	126.70	30.20	3.2	12.00	M24-3.0	47.00



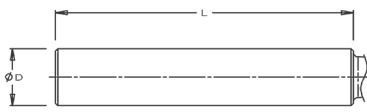
Taper	ø A	ø B	ø C	ø GAUGE	L	L1	L2	L3	THREAD	DEPTH
NMTB (ANSI B5-18 STANDARD)										
NMTB-40	63.50	44.45	17.00	44.45	93.30	19.00	1.60	11.70	5/8-11	35.00
NMTB-50	97.40	70.00	26.10	69.85	126.70	30.20	3.20	12.00	1.0-8	47.00



Taper	SIZE	ø D (g6)	L
STRAIGHT SHANK	25SS	25	125
	32SS	32	125
	40SS	40	125
	50SS	50	125



Taper	SIZE	ø D (g6)	L ± 1	L1 ± 0.5	L2 ± 1	H
WELDON	W25SS	25	56	32	17	23
	W32SS	32	60	36	19	30
	W40SS	40	70	40	19	38
	W50SS	50	80	45	23	47.8

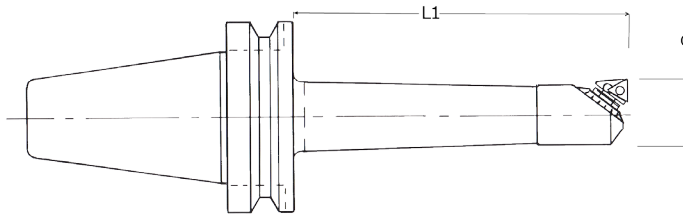


Taper	SIZE	ø D (g6)	L	L1 ± 0.5	A/F
MBX	25	25	60	55	22
	32	32	60	55	29.5
	40	40	70	65	37
	50	50	80	75	47

STANDARD BORING BARS
TYPE BT (MAS 403)

with standard R unit for
roughing & semi-finishing

BT40



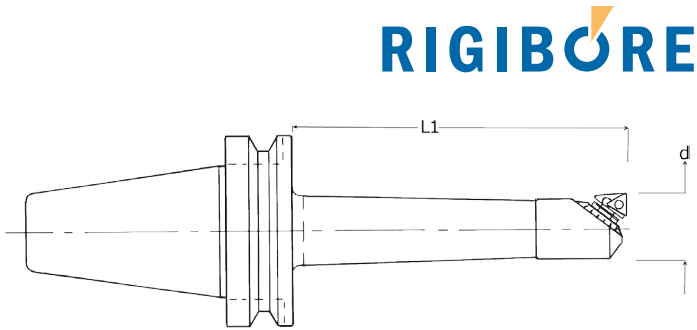
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	BT40-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			BT40-1536	R2B2S			
17.40-19.00	.685-.748			BT40-1537	R2B2S			
19.00-23.00	.748-.905	87	3.425	BT40-154	R2B2	R2B2L		
23.00-27.00	.905-1.062							
23.00-31.00	.905-1.200							
24.00-32.00	.945-1.260	107	4.212	BT40-155	R3B1			CC__0602__
27.00-35.00	1.062-1.378				R3B2C			
28.00-42.00	1.103-1.654				R3B2	R3B2L	R3B295	TC__0902__
31.00-45.00	1.220-1.771	117	4.606	BT40-156	R3A2C	R3A2L	R3A295	CC__0602__
28.00-42.00	1.103-1.654				R3A2			TC__0902__
31.00-45.00	1.220-1.771				R3A2C			CC__0602__
37.50-48.70	1.476-1.917	116	4.567	BT40-157	R3A2	R3A2L	R3A295	TC__0902__
38.00-49.20	1.496-1.937				R5B2C			CC__0602__
37.50-48.70	1.476-1.917				R5B2			CC__0602__
38.00-49.20	1.496-1.937	173	6.811	BT40-158	R5B2	R5B2L	R5B295	TC__1102__
37.50-48.70	1.476-1.917				R5B2C			CC__0602__
38.00-49.20	1.496-1.937				R5B2			TC__1102__
46.50-67.80	1.831-2.673	116	4.567	BT40-159	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2			TC__1102__
46.50-67.80	1.831-2.673							
47.00-68.30	1.850-2.689	186	7.323	BT40-160	R5A2C	R5A2L	R5A295C	CC__0602__
46.50-67.80	1.831-2.673				R5A2			TC__1102__
46.50-67.80	1.850-2.689							
60.50-86.10	2.375-3.383	128	5.039	BT40-161	R7A2C	R7A2L	R7A295C	CC__09T3__
		185	7.283	BT40-162	R7A2		R7A295	TC__16T3__
				BT40-163	R7A2C		R7A295C	CC__09T3__
79.50-105.10	3.130-4.138	119	4.685	BT40-164	R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	BT40-165	R7A2C		R7A295	CC__09T3__
				BT40-166	R7A2		R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	BT40-167	R10A2C	R10A2L	R10A295C	CC__1204__
				BT40-168	R10A2		R10A295	TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE BT (MAS 403)

with standard R unit for
roughing & semi-finishing

BT50



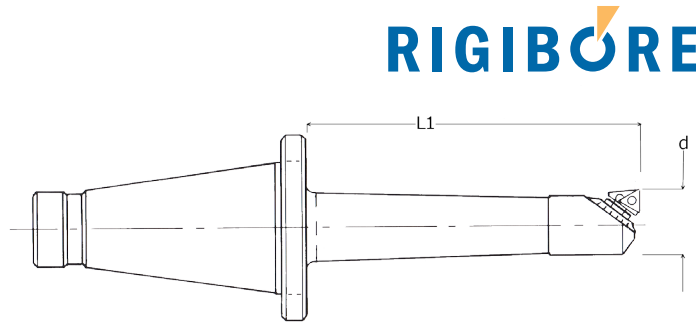
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	BT50-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			BT50-1536				
17.40-19.00	.685-.748			BT50-1537				
19.00-23.00	.748-.905	87	3.425	BT50-154	R2B2	R2B2L		
23.00-27.00	.905-1.062							
23.00-31.00	.905-1.220				R3B1			
24.00-32.00	.945-1.260	107	4.212	BT50-155	R3B2C	R3B2L	R3B295	CC__0602__
27.00-35.00	1.062-1.378				R3B2			TC__0902__
28.00-42.00	1.103-1.654				R3A2C			CC__0602__
31.00-45.00	1.220-1.771	117	4.606	BT50-156	R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654				R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2			TC__0902__
37.50-48.70	1.476-1.917	116	4.567	BT50-157	R3A2C	R3A2L	R3A295	CC__0602__
38.00-49.20	1.496-1.937				R5B2C			CC__0602__
37.50-48.70	1.476-1.917				R5B2			TC__1102__
37.50-48.70	1.476-1.917	173	6.811	BT50-158		R5B2L		CC__0602__
38.00-49.20	1.496-1.937				R5B2C			TC__1102__
38.00-49.20	1.496-1.937				R5B2			TC__1102__
46.50-67.80	1.831-2.673	116	4.567	BT50-159	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2			TC__1102__
46.50-67.80	1.831-2.673							TC__1102__
46.50-67.80	1.831-2.673	186	7.323	BT50-160	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2			TC__1102__
46.50-67.80	1.831-2.673							TC__1102__
46.50-67.80	1.831-2.673	208	8.187	BT50-161	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2			TC__1102__
46.50-67.80	1.831-2.673							TC__1102__
60.50-86.10	2.375-3.383	128	5.039	BT50-162	R7A2C	R7A2L	R7A295C	CC__09T3__
60.50-86.10	2.375-3.383				R7A2			TC__16T3__
60.50-86.10	2.375-3.383							TC__16T3__
60.50-86.10	2.375-3.383	185	7.283	BT50-163	R7A2C	R7A2L	R7A295C	CC__09T3__
60.50-86.10	2.375-3.383				R7A2			TC__16T3__
60.50-86.10	2.375-3.383							TC__16T3__
60.50-86.10	2.375-3.383	280	11.025	BT50-164	R7A2C	R7A2L	R7A295C	CC__09T3__
60.50-86.10	2.375-3.383				R7A2			TC__16T3__
60.50-86.10	2.375-3.383							TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	BT50-165	R7A2C	R7A2L	R7A295C	CC__09T3__
79.50-105.10	3.130-4.138				R7A2			TC__16T3__
79.50-105.10	3.130-4.138							TC__16T3__
79.50-105.10	3.130-4.138	199	7.835	BT50-166	R7A2C	R7A2L	R7A295C	CC__09T3__
79.50-105.10	3.130-4.138				R7A2			TC__16T3__
79.50-105.10	3.130-4.138							TC__16T3__
79.50-105.10	3.130-4.138	297	11.693	BT50-167	R7A2C	R7A2L	R7A295C	CC__09T3__
79.50-105.10	3.130-4.138				R7A2			TC__16T3__
79.50-105.10	3.130-4.138							TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	BT50-168	R7A2C	R7A2L	R7A295C	CC__09T3__
96.00-142.00	3.780-5.590				R7A2			TC__16T3__
96.00-142.00	3.780-5.590							TC__16T3__
96.00-142.00	3.780-5.590	296	11.653	BT50-169	R10A2C	R10A2L	R10A295C	CC__1204__
96.00-142.00	3.780-5.590				R10A2			TC__16T3__
96.00-142.00	3.780-5.590							TC__16T3__
96.00-142.00	3.780-5.590	296	11.653	BT50-170	R10A2C	R10A2L	R10A295C	CC__1204__
96.00-142.00	3.780-5.590				R10A2			TC__16T3__
96.00-142.00	3.780-5.590							TC__16T3__
96.00-142.00	3.780-5.590	296	11.653	BT50-171	R10A2C	R10A2L	R10A295C	CC__1204__
96.00-142.00	3.780-5.590				R10A2			TC__16T3__
96.00-142.00	3.780-5.590							TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE DIN2080

with standard R unit for
roughing & semi-finishing

2080-40

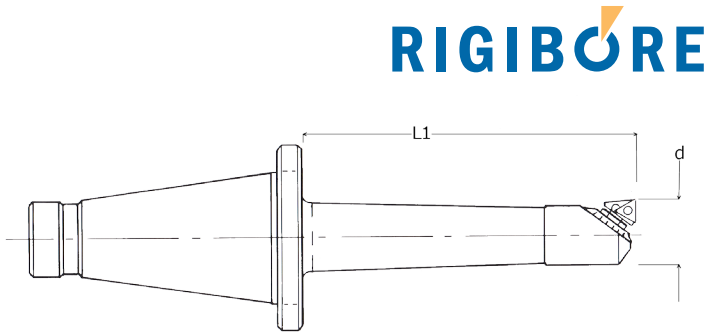


Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert					
mm	ins	mm	ins		90°	75°	95°						
15.875-17.40	.625-.685	83	3.268	2080-40-1535	R2B2S			TC__06T1__					
16.67-18.25	.656-.718			2080-40-1536									
17.40-19.00	.685-.748			2080-40-1537									
19.00-23.00	.748-.905	87	3.425	2080-40-154	R2B2	R2B2L							
23.00-27.00	.905-1.062			107	4.212				2080-40-155	R3B1			
23.00-31.00	.905-1.220									R3B2C	R3B295	CC__0602__	
24.00-32.00	.945-1.260	R3B2	R3B2L			TC__0902__							
27.00-35.00	1.062-1.378	117	4.606	2080-40-156	R3A2C	CC__0602__							
28.00-42.00	1.103-1.654				R3A2	R3A2L	R3A295	TC__0902__					
31.00-45.00	1.220-1.771				R3A2C	R3A2L	R3A295	CC__0602__					
28.00-42.00	1.103-1.654	132	5.197	2080-40-157	R3A2	R3A2L	R3A295	TC__0902__					
31.00-45.00	1.220-1.771				R5B2C	R5B295	R5B2L	CC__0602__					
37.50-48.70	1.476-1.917				R5B2				R5B2L	TC__1102__			
38.00-49.20	1.496-1.937	173	6.811	2080-40-159	R5B2C						R5A295C	CC__0602__	
37.50-48.70	1.476-1.917				R5B2	R5B2L	R5A295	TC__1102__					
38.00-49.20	1.496-1.937				R5A2C				R5A2L	CC__0602__			
46.50-67.80	1.831-2.673	116	4.567	2080-40-160	R5A2				R5A295	TC__1102__			
47.00-68.30	1.850-2.689				R5A2C	R5A2L	R5A295C	CC__0602__					
46.50-67.80	1.831-2.673				R5A2	R5A2L	R5A295	TC__1102__					
47.00-68.30	1.850-2.689	186	7.323	2080-40-161	R7A2C	R7A2L	R7A295C	CC__09T3__					
60.50-86.10	2.375-3.383				128				5.039	2080-40-163	R7A2	R7A295	TC__16T3__
60.50-86.10											185	7.283	2080-40-164
60.50-86.10		280	11.025	2080-40-165		R7A2	R7A295	TC__16T3__					
60.50-86.10	79.50-105.10				3.130-4.138	119	4.685	2080-40-167	R7A2C	R7A295C			
60.50-86.10									199	7.835	2080-40-168	R7A2	R7A295
60.50-86.10		297	11.693	2080-40-169								R7A2C	R7A295C
60.50-86.10	96.00-142.00				3.780-5.590	118	4.645	2080-40-170				R7A2	R7A295
60.50-86.10									296	11.653	2080-40-171	R10A2C	R10A295C
60.50-86.10		R10A2	R10A2L	R10A295								TC__16T3__	
60.50-86.10	R10A2C	R10A2L	R10A295	CC__1204__									
60.50-86.10	96.00-142.00	3.780-5.590	118	4.645	2080-40-170	R10A2	R10A2L	R10A295	TC__16T3__				

STANDARD BORING BARS
TYPE DIN2080

with standard R unit for
roughing & semi-finishing

2080-50



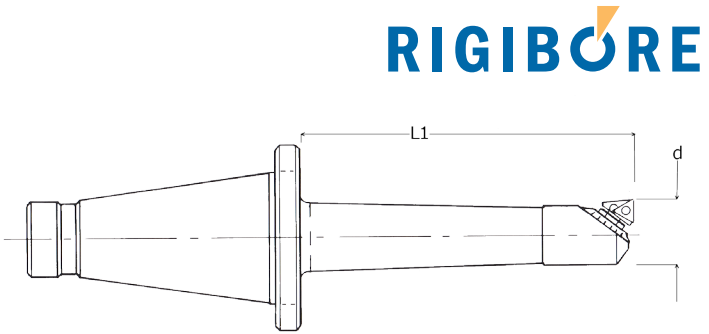
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert		
mm	ins	mm	ins		90°	75°	95°			
15.875-17.40	.625-.685	83	3.268	2080-50-1535	R2B2S			TC__06T1__		
16.67-18.25	.656-.718			2080-50-1536						
17.40-19.00	.685-.748			2080-50-1537						
19.00-23.00	.748-.905	87	3.425	2080-50-154	R2B2	R2B2L				
23.00-27.00	.905-1.062									
23.00-31.00	.905-1.220									
24.00-32.00	.945-1.260	107	4.212	2080-50-155	R3B1				CC__0602__	
27.00-35.00	1.062-1.378				R3B2C					
28.00-42.00	1.103-1.654				R3B2				R3B2L	R3B295
31.00-45.00	1.220-1.771	117	4.606	2080-50-156	R3A2C				CC__0602__	
28.00-42.00	1.103-1.654				R3A2			R3A2L	R3A295	TC__0902__
31.00-45.00	1.220-1.771				R3A2C			R3A2L	R3A295	CC__0602__
		R3A2	TC__0902__							
37.50-48.70	1.476-1.917	116	4.567	2080-50-158	R5B2C		R5B295	CC__0602__		
38.00-49.20	1.496-1.937				R5B2			R5B2L		TC__1102__
										CC__0602__
37.50-48.70	1.476-1.917	173	6.811	2080-50-159	R5B2C					TC__1102__
38.00-49.20	1.496-1.937				R5B2					
46.50-67.80	1.831-2.673	116	4.567	2080-50-160	R5A2C		R5A295C	CC__0602__		
47.00-68.30	1.850-2.689				R5A2		R5A295	TC__1102__		
							R5A2L			
46.50-67.80	1.831-2.673	186	7.323	2080-50-161	R5A2C		R5A295C	CC__0602__		
47.00-68.30	1.850-2.689				R5A2		R5A295	TC__1102__		
							R5A2L			
46.50-67.80	1.831-2.673	208	8.187	2080-50-162	R5A2C		R5A295C	CC__0602__		
47.00-68.30	1.850-2.689				R5A2		R5A295	TC__1102__		
							R5A2L			
60.50-86.10	2.375-3.383	128	5.039	2080-50-163	R7A2C		R7A295C	CC__09T3__		
					R7A2		R7A2L	R7A295	TC__16T3__	
		185	7.283	2080-50-164	R7A2C		R7A295C	CC__09T3__		
					R7A2		R7A2L	R7A295	TC__16T3__	
					280		11.025	2080-50-165	R7A2C	
R7A2	R7A2L	R7A295	TC__16T3__							
79.50-105.10	3.130-4.138	119	4.685	2080-50-167	R7A2C		R7A295C	CC__09T3__		
					R7A2		R7A2L	R7A295	TC__16T3__	
		199	7.835	2080-50-168	R7A2C		R7A295C	CC__09T3__		
					R7A2		R7A2L	R7A295	TC__16T3__	
					297		11.693	2080-50-169	R7A2C	
R7A2	R7A2L	R7A295	TC__16T3__							
96.00-142.00	3.780-5.590	118	4.645	2080-50-170	R10A2C		R10A295C	CC__1204__		
					R10A2		R10A2L	R10A295	TC__16T3__	
		296	11.653	2080-50-171	R10A2C		R10A295C	CC__1204__		
					R10A2		R10A2L	R10A295	TC__16T3__	

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB

with standard R unit for
roughing & semi-finishing

NMTB40



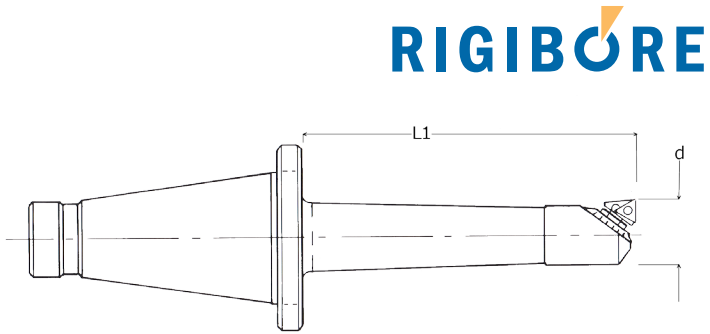
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	NMTB40-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			NMTB40-1536				
17.40-19.00	.685-.748			NMTB40-1537				
19.00-23.00	.748-.905	87	3.425	NMTB40-154	R2B2			
23.00-27.00	.905-1.062							
23.00-31.00	.905-1.220	107	4.212	NMTB40-155	R3B1			CC__0602__
24.00-32.00	.945-1.260				R3B2C			
27.00-35.00	1.062-1.378				117	4.606	NMTB40-156	R3B2
28.00-42.00	1.103-1.654	R3A2C	R3A2L	R3A295				CC__0602__
31.00-45.00	1.220-1.771	R3A2						TC__0902__
28.00-42.00	1.103-1.654	132	5.197	NMTB40-157	R3A2C	R3A2L	R3A295	CC__0602__
31.00-45.00	1.220-1.771				R3A2			TC__0902__
37.50-48.70	1.476-1.917	116	4.567	NMTB40-158	R5B2C			CC__0602__
38.00-49.20	1.496-1.937				R5B2			R5B295
37.50-48.70	1.476-1.917				173	6.811	NMTB40-159	R5B2C
38.00-49.20	1.496-1.937	R5B2	R5B2L	TC__1102__				
46.50-67.80	1.831-2.673	116	4.567	NMTB40-160				R5A2C
47.00-68.30	1.850-2.689				R5A2	R5A295	TC__1102__	
46.50-67.80	1.831-2.673				186	7.323	NMTB40-161	
47.00-68.30	1.850-2.689	R5A2C		R5A295C				CC__0602__
		R5A2		R5A295				TC__1102__
60.50-86.10	2.375-3.383	128	5.039	NMTB40-163	R7A2C		R7A295C	CC__09T3__
		185	7.283	NMTB40-164	R7A2	R7A2L	R7A295	TC__16T3__
					R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		280	11.025	NMTB40-165	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	NMTB40-167	R7A2C		R7A295C	CC__09T3__
		199	7.835	NMTB40-168	R7A2	R7A2L	R7A295	TC__16T3__
					R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		297	11.693	NMTB40-169	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	NMTB40-170	R10A2C		R10A295C	CC__1204__
		296	11.693	NMTB40-171	R10A2	R10A2L	R10A295	TC__16T3__
					R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB

with standard R unit for
roughing & semi-finishing

NMTB50



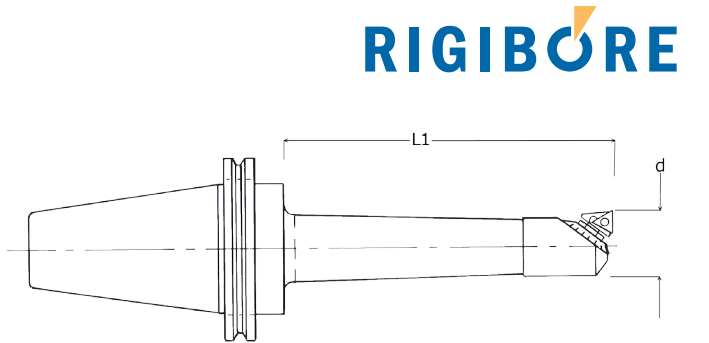
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	NMTB50-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			NMTB50-1536				
17.40-19.00	.685-.748			NMTB50-1537				
19.00-23.00	.748-.905	87	3.425	NMTB50-154	R2B2	R2B2L		
23.00-27.00	.905-1.062							
23.00-31.00	.905-1.220			107	4.212			
24.00-32.00	.945-1.260	R3B2C	CC__0602__					
27.00-35.00	1.062-1.378	R3B2	TC__0902__					
28.00-42.00	1.103-1.654	117	4.606	NMTB50-156	R3A2C	R3A2L	R3A295	CC__0602__
31.00-45.00	1.220-1.771			R3A2	TC__0902__			
28.00-42.00	1.103-1.654			R3A2C	CC__0602__			
31.00-45.00	1.220-1.771	132	5.197	NMTB50-157	R3A2	R3A2L	R3A295	TC__0902__
37.50-48.70	1.476-1.917			R5B2C	CC__0602__			
38.00-49.20	1.496-1.937			R5B2	TC__1102__			
37.50-48.70	1.476-1.917	173	6.811	NMTB50-159	R5B2C	R5B2L	R5B295	CC__0602__
38.00-49.20	1.496-1.917			R5B2	TC__1102__			
46.50-67.80	1.831-2.673			116	4.567			NMTB50-160
47.00-68.30	1.850-2.689	R5A2	R5A295			TC__1102__		
46.50-67.80	1.831-2.673	R5A2L				CC__0602__		
47.00-68.30	1.850-2.689	186	7.323	NMTB50-161	R5A2C	R5A2L	R5A295C	CC__0602__
46.50-67.80	1.831-2.673			R5A2	R5A295		TC__1102__	
45.60-67.80	1.831-2.673			208	8.187		NMTB50-162	R5A2C
47.00-68.30	1.850-2.689	R5A2	R5A295			TC__1102__		
60.50-86.10	2.375-3.383	128	5.039			NMTB50-163	R7A2C	R7A2L
60.50-86.10		185	7.283	NMTB50-164	R7A2	R7A295	TC__16T3__	
60.50-86.10		280	11.025	NMTB50-165	R7A2C	R7A295C	CC__09T3__	
79.50-105.10	3.130-4.138	119	4.685	NMTB50-167	R7A2C	R7A2L	R7A295C	CC__09T3__
79.50-105.10		199	7.835	NMTB50-168	R7A2		R7A295	TC__16T3__
79.50-105.10		297	11.693	NMTB50-169	R7A2C		R7A295C	CC__09T3__
96.00-142.00	3.780-5.590	118	4.645	NMTB50-170	R10A2C	R10A2L	R10A295C	CC__1204__
96.00-142.00		296	11.653	NMTB50-171	R10A2		R10A295	TC__16T3__
96.00-142.00					R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE ISO7388 (DIN 69871A)

with standard R unit for
roughing & semi-finishing

7388-40



Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert		
mm	ins	mm	ins		90°	75°	95°			
15.875-17.40	.625-.685	83	3.268	7388-40-1535	R2B2S			TC__06T1__		
16.67-18.25	.656-.718			7388-40-1536						
17.40-19.00	.685-.748			7388-40-1537						
19.00-23.00	.748-.905	87	3.425	7388-40-154	R2B2	R2B2L				
23.00-27.00	.905-1.062			107	4.212				7388-40-155	R3B1
23.00-31.00	.905-1.220									R3B2C
24.00-32.00	.945-1.260	R3B2	R3B2L			R3B295	TC__0902__			
27.00-35.00	1.062-1.378	117	4.606	7388-40-156	R3A2C	R3A2L	R3A295	CC__0602__		
28.00-42.00	1.103-1.654				R3A2			TC__0902__		
31.00-45.00	1.220-1.771				R3A2C			CC__0602__		
28.00-42.00	1.103-1.654	132	5.197	7388-40-157	R3A2	R3A2L	R3A295	TC__0902__		
31.00-45.00	1.220-1.771				R5B2C			CC__0602__		
37.50-48.70	1.476-1.917				R5B2			R5B295	R5B2L	
38.00-49.20	1.496-1.937	173	6.811	7388-40-159	R5B2C	CC__0602__				
37.50-48.70	1.476-1.917				R5B2	TC__1102__				
38.00-49.20	1.496-1.937				116	4.567	7388-40-160	R5A2C	R5A295C	CC__0602__
46.50-67.80	1.831-2.673	R5A2	R5A295	TC__1102__						
47.00-68.30	1.850-2.689	186	7.323	7388-40-161				R5A2L		
46.50-67.80	1.831-2.673				R5A2C	R5A295C	CC__0602__			
47.00-68.30	1.850-2.689				R5A2	R5A295	TC__1102__			
60.50-86.10	2.375-3.383	128	5.039	7388-40-163	R7A2C	R7A2L	R7A295C	CC__09T3__		
					R7A2		R7A295	TC__16T3__		
		185	7.283	7388-40-164	R7A2C	R7A2L	R7A295C	CC__09T3__		
					R7A2		R7A295	TC__16T3__		
79.50-105.10	3.130-4.138	119	4.685	7388-40-167	R7A2C	R7A2L	R7A295C	CC__09T3__		
					R7A2		R7A295	TC__16T3__		
		199	7.835	7388-40-168	R7A2C	R7A2L	R7A295C	CC__09T3__		
					R7A2		R7A295	TC__16T3__		
96.00-142.00	3.780-5.590	118	4.645	7388-40-170	R10A2C	R10A2L	R10A295C	CC__1204__		
					R10A2		R10A295	TC__16T3__		

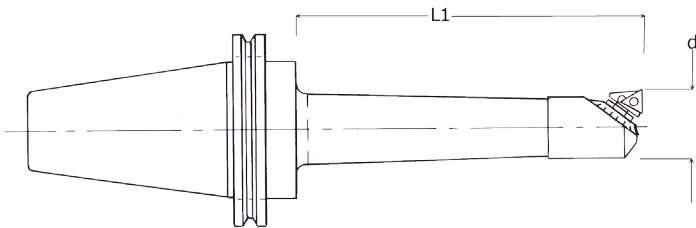
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE ISO7388 (DIN 69871A)

with standard R unit for
roughing & semi-finishing

7388-50

RIGIBORE



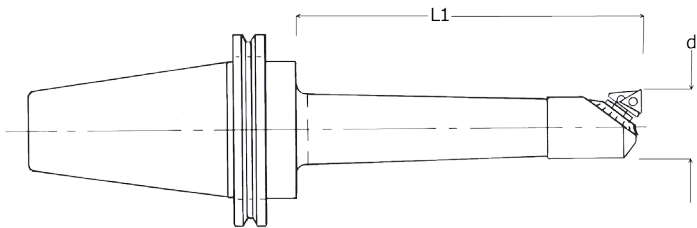
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	7388-50-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			7388-50-1536				
17.40-19.00	.685-.748			7388-50-1537				
19.00-23.00	.748-.905	87	3.425	7388-50-154	R2B2	R2B2L		
23.00-27.00	.905-1.062							
23.00-31.00	.905-1.220			R3B1				
24.00-32.00	.945-1.260	107	4.212	7388-50-155	R3B2C		R3B295	CC__0602__
27.00-35.00	1.062-1.378			R3B2	TC__0902__			
28.00-42.00	1.103-1.654			R3A2C	CC__0602__			
31.00-45.00	1.220-1.771	117	4.606	7388-50-156	R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654			R3A2C			CC__0602__	
31.00-45.00	1.220-1.771			R3A2	R3A2L	R3A295	TC__0902__	
37.50-48.70	1.476-1.917	116	4.567	7388-50-158	R5B2C		R5B295	CC__0602__
38.00-49.20	1.496-1.937				R5B2			TC__1102__
								R5B2L
37.50-48.70	1.476-1.917	173	6.811	7388-50-159	R5B2C			CC__0602__
38.00-49.20	1.496-1.937				R5B2			TC__1102__
								R5B2L
46.50-67.80	1.831-2.673	116	4.567	7388-50-160	R5A2C		R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2		R5A295	TC__1102__
							R5A2L	
46.50-67.80	1.831-2.673	186	7.323	7388-50-161	R5A2C		R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2		R5A295	TC__1102__
							R5A2L	
46.50-67.80	1.831-2.673	208	8.187	7388-50-162	R5A2C		R5A295C	CC__0602__
47.00-68.30	1.850-2.689				R5A2		R5A295	TC__1102__
							R5A2L	
60.50-86.10	2.375-3.383	128	5.039	7388-50-163	R7A2C		R7A295C	CC__09T3__
					R7A2		R7A295	TC__16T3__
					R7A2C		R7A295C	CC__09T3__
		185	7.283	7388-50-164	R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	7388-50-167	R7A2C	R7A2L	R7A295C	CC__09T3__
					R7A2		R7A295	TC__16T3__
					R7A2C		R7A295C	CC__09T3__
		199	7.835	7388-50-168	R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	7388-50-170	R10A2C		R10A295C	CC__1204__
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.								

STANDARD BORING BARS
TYPE ANSI B5-50 (1985)

with standard R unit for
roughing & semi-finishing

ANSI50

RIGIBORE

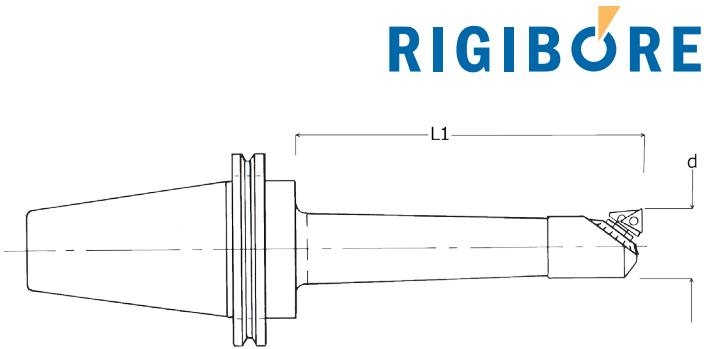


Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert		
mm	ins	mm	ins		90°	75°	95°			
15.875-17.40	.625-.685	83	3.268	ANSI50-1535	R2B2S			TC__06T1__		
16.67-18.25	.656-.718			ANSI50-1536						
17.40-19.00	.685-.748			ANSI50-1537						
19.00-23.00	.748-.905	87	3.425	ANSI50-154	R2B2	R2B2L				
23.00-27.00	.905-1.062									
23.00-31.00	.905-1.220			107	4.212		ANSI50-155		R3B1	
24.00-32.00	.945-1.260	R3B2C	R3B2L			R3B295		TC__0902__		
27.00-35.00	1.062-1.378	R3B2						CC__0602__		
28.00-42.00	1.103-1.654	117		4.606	ANSI50-156		R3A2C	TC__0902__		
31.00-45.00	1.220-1.771		R3A2			R3A2L	R3A295	CC__0602__		
28.00-42.00	1.103-1.654		132			5.197	ANSI50-157	R3A2C	TC__0902__	
31.00-45.00	1.220-1.771	R3A2		R3A2L	R3A295			CC__0602__		
37.50-48.70	1.476-1.917	116		4.567	ANSI50-158			R5B2C	R5B295	TC__1102__
38.00-49.20	1.496-1.937		R5B2			R5B2L	R5A295C	CC__0602__		
37.50-48.70	1.476-1.917		173					6.811		ANSI50-159
38.00-49.20	1.496-1.937	R5B2		R5A2L	R5A295C				TC__1102__	
46.50-67.80	1.831-2.673	116				4.567	ANSI50-160		R5A2C	
47.00-68.30	1.850-2.689		R5A2					R5A2L	R5A295C	TC__1102__
46.50-67.80	1.831-2.673		186	7.323	ANSI50-161					R5A2C
47.00-68.30	1.850-2.689	R5A2				R5A2L	R5A295C			TC__1102__
46.50-67.80	1.831-2.673	208						8.187	ANSI50-162	R5A2C
47.00-68.30	1.850-2.689		R5A2	R5A2L	R5A295C					TC__1102__
60.50-86.10	2.375-3.383		128			5.039	ANSI50-163			R7A2C
		R7A2						R7A2L	R7A295C	TC__16T3__
		R7A2C		R7A2L	R7A295C					CC__09T3__
185	7.283	ANSI50-164	R7A2			R7A2L	R7A295C			TC__16T3__
79.50-105.10	3.130-4.138	280	11.025					ANSI50-165	R7A2C	R7A2L
				R7A2	R7A2L				R7A295C	
				R7A2C		R7A2L	R7A295C			
119	4.685	ANSI50-167	R7A2C	R7A2L				R7A295C		TC__16T3__
79.50-105.10	3.130-4.138	199	7.835		ANSI50-168				R7A2	R7A2L
						R7A2C	R7A2L		R7A295C	
				R7A2		R7A2L		R7A295C		
297	11.693	ANSI50-169	R7A2C	R7A2L	R7A295C					TC__16T3__
96.00-142.00	3.780-5.590	118	4.645				ANSI50-170		R7A2	R7A2L
						R10A2C		R10A2L	R10A295C	
				R10A2	R10A2L	R10A295C				
296	11.653	ANSI50-171	R10A2C	R10A2L			R10A295C			TC__16T3__
96.00-142.00	3.780-5.590	118	4.645					ANSI50-170	R10A2	R10A2L
					R10A2C	R10A2L			R10A295C	
				R10A2	R10A2L		R10A295C			
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.										

STANDARD BORING BARS
TYPE CAT

with standard R unit for
roughing & semi-finishing

CAT40



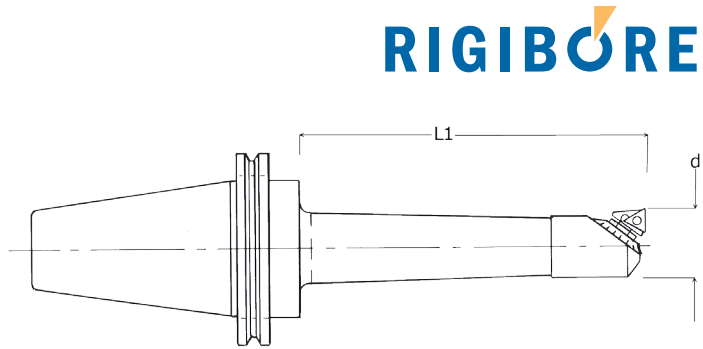
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert			
mm	ins	mm	ins		90°	75°	95°				
15.875-17.40	.625-.685	83	3.268	CAT40-1535	R2B2S			TC__06T1__			
16.67-18.25	.656-.718			CAT40-1536							
17.40-19.00	.685-.748			CAT40-1537							
19.00-23.00	.748-.905	87	3.425	CAT40-154	R2B2	R2B2L					
23.00-27.00	.905-1.062										
23.00-31.00	.905-1.220			R3B1							
24.00-32.00	.945-1.260	107	4.212	CAT40-155		R3B2C	R3B2L		R3B295	CC__0602__	
27.00-35.00	1.062-1.378			R3B2		TC__0902__					
28.00-42.00	1.103-1.654			R3A2C	CC__0602__						
31.00-45.00	1.220-1.771	117	4.606	CAT40-156	R3A2	R3A2L	R3A295		TC__0902__		
28.00-42.00	1.103-1.654			CAT40-157	R3A2C			CC__0602__			
31.00-45.00	1.220-1.771				R3A2			R3A2L	R3A295	TC__0902__	
37.50-48.70	1.476-1.917	116	4.567	CAT40-158	R5B2C		R5B295	CC__0602__			
38.00-49.20	1.496-1.937			R5B2	R5B2L				R5B2L	R5A295C	TC__1102__
37.50-48.70	1.476-1.917			173							6.811
38.00-49.20	1.496-1.937	R5B2	TC__1102__								
46.50-67.80	1.831-2.673	116	4.567		CAT40-160	R5A2C		R5A295C	CC__0602__		
47.00-68.30	1.850-2.689			R5A2	R5A2L	R5A295C			R5A295	TC__1102__	
46.50-67.80	1.831-2.673			186						7.323	CAT40-161
47.00-68.30	1.850-2.689	R5A2	R5A2L				R5A295C	R5A295			TC__1102__
60.50-86.10	2.375-3.383	128			5.039	CAT40-163			R7A2C		R7A2L
				R7A2		R7A295			TC__16T3__		
		185	7.283	CAT40-164	R7A2C	R7A2L	R7A295C	CC__09T3__			
				R7A2	R7A295		TC__16T3__				
79.50-105.10	3.130-4.138	119	4.685	CAT40-167	R7A2C	R7A2L	R7A295C	CC__09T3__			
				R7A2	R7A295		TC__16T3__				
		199	7.835	CAT40-168	R7A2C	R7A2L	R7A295C	CC__09T3__			
				R7A2	R7A295		TC__16T3__				
96.00-142.00	3.780-5.590	118	4.645	CAT40-170	R10A2C	R10A2L	R10A295C	CC__1204__			
				R10A2	R10A295		TC__16T3__				

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE CAT

with standard R unit for
roughing & semi-finishing

CAT50



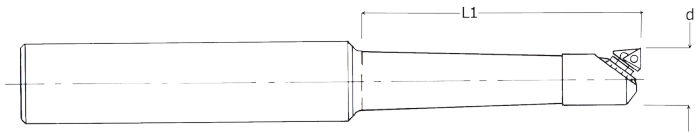
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	CAT50-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			CAT50-1536				
17.40-19.00	.685-.748			CAT50-1537				
19.00-23.00	.748-.905	87	3.425	CAT50-154	R2B2	R2B2L		
23.00-27.00	.905-1.062							
23.00-31.00	.905-1.220			R3B1				
24.00-32.00	.945-1.260	107	4.212	CAT50-155	R3B2C	R3B2L	R3B295	CC__0602__
27.00-35.00	1.062-1.378			R3B2			TC__0902__	
28.00-42.00	1.103-1.654			R3A2C			CC__0602__	
31.00-45.00	1.220-1.771	117	4.606	CAT50-156	R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654			R3A2C				CC__0602__
31.00-45.00	1.220-1.771			R3A2				TC__0902__
37.50-48.70	1.476-1.917	116	4.567	CAT50-158	R5B2C		R5B295	CC__0602__
38.00-49.20	1.496-1.937			R5B2				TC__1102__
					R5B2L			
37.50-48.70	1.476-1.917	173	6.811	CAT50-159	R5B2C	R5B2L		CC__0602__
38.00-49.20	1.496-1.937			R5B2				TC__1102__
					R5B2L			
46.50-67.80	1.831-2.673	116	4.567	CAT50-160	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689			R5A2			R5A295	TC__1102__
46.50-67.80	1.831-2.673	186	7.323	CAT50-161	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689			R5A2			R5A295	TC__1102__
46.50-67.80	1.831-2.673	208	8.187	CAT50-162	R5A2C	R5A2L	R5A295C	CC__0602__
47.00-68.30	1.850-2.689			R5A2			R5A295	TC__1102__
60.50-86.10	2.375-3.383	128	5.039	CAT50-163	R7A2C	R7A2L	R7A295C	CC__09T3__
				R7A2	R7A295		TC__16T3__	
		185	7.283	CAT50-164	R7A2C	R7A2L	R7A295C	CC__09T3__
				R7A2	R7A295		TC__16T3__	
		280	11.025	CAT50-165	R7A2C	R7A2L	R7A295C	CC__09T3__
				R7A2	R7A295		TC__16T3__	
79.50-105.10	3.130-4.138	119	4.685	CAT50-167	R7A2C	R7A2L	R7A295C	CC__09T3__
				R7A2	R7A295		TC__16T3__	
		199	7.835	CAT50-168	R7A2C	R7A2L	R7A295C	CC__09T3__
				R7A2	R7A295		TC__16T3__	
		297	11.693	CAT50-169	R7A2C	R7A2L	R7A295C	CC__09T3__
				R7A2	R7A295		TC__16T3__	
96.00-142.00	3.780-5.590	118	4.645	CAT50-170	R10A2C	R10A2L	R10A295C	CC__1204__
				R10A2	R10A295		TC__16T3__	
		296	11.653	CAT50-171	R10A2C	R10A2L	R10A295C	CC__1204__
				R10A2	R10A295		TC__16T3__	

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

with standard R unit for
roughing & semi-finishing

25SS / 1.00SS



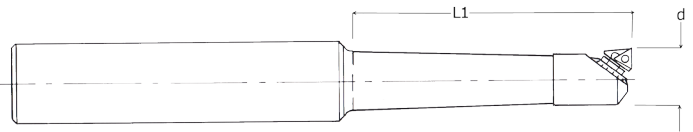
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	25SS-1535	1.00SS-1535	R2B2S			TC__06T1__
16.67-18.25	.656-.718			25SS-1536	1.00SS-1536				
17.40-19.00	.685-.748			25SS-1537	1.00SS-1537				
19.00-23.00	.748-.905	87	3.425	25SS-154	1.00SS-154	R2B2	R2B2L		
23.00-27.00	.905-1.062								
23.00-31.00	.905-1.220								
24.00-32.00	.945-1.260	107	4.212	25SS-155	1.00SS-155	R3B1		R3B295	CC__0602__
27.00-35.00	1.062-1.378					R3B2C			TC__0902__
28.00-42.00	1.103-1.654					R3B2			CC__0602__
31.00-45.00	1.220-1.771	117	4.606	25SS-156	1.00SS-156	R3A2C	R3A2L	R3A295	TC__0902__
37.50-48.70	1.476-1.917					R3A2			CC__0602__
38.00-49.20	1.496-1.937					R5B2C			TC__1102__
46.50-67.80	1.831-2.673	116	4.567	25SS-158	1.00SS-158	R5B2	R5B2L	R5B295	CC__0602__
47.00-68.30	1.850-2.689					R5A2C			TC__1102__
60.50-86.10	2.375-3.383					R5A2			CC__09T3__
79.50-105.10	3.130-4.138	128	5.039	25SS-163	1.00SS-163	R7A2C		R7A295C	TC__16T3__
						R7A2	R7A2L	R7A295	CC__09T3__
						R7A2C		R7A295C	TC__16T3__
						R7A2	R7A2L	R7A295	CC__09T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

with standard R unit for
roughing & semi-finishing

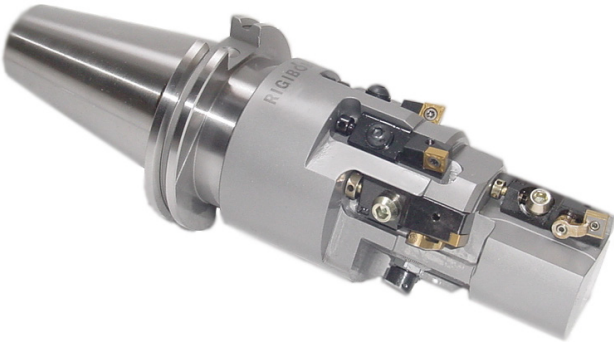
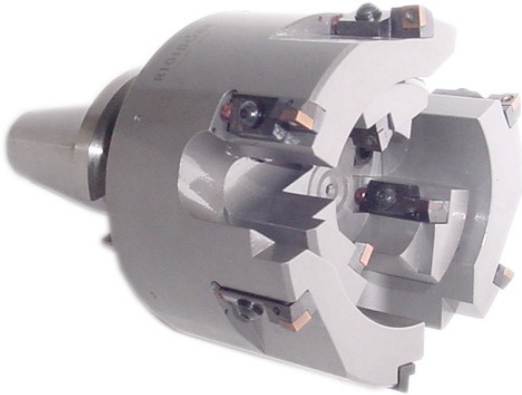
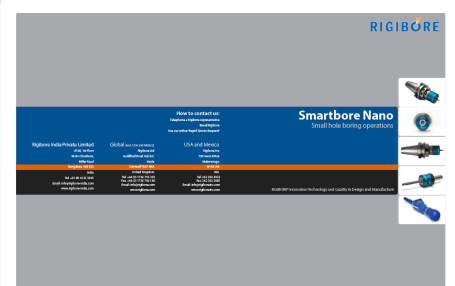
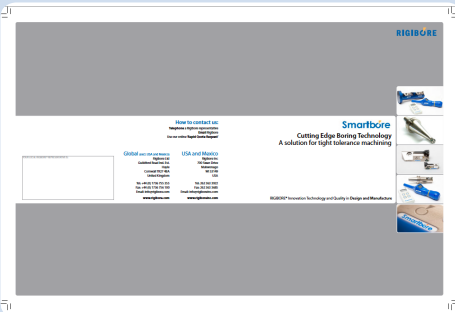
32SS / 1.25SS



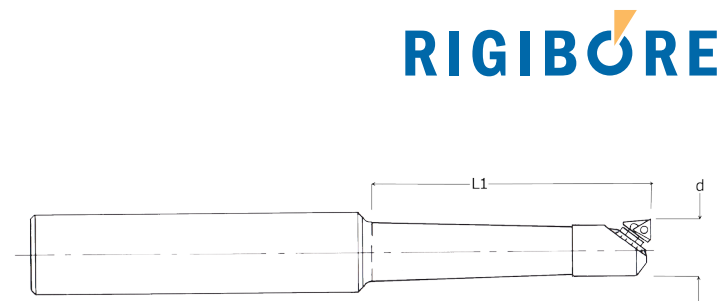
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
19.00-23.00	.748-.905	87	3.425	32SS-154	1.25SS-154	R2B2	R2B2L		TC__06T1__
23.00-27.00	.905-1.062								
23.00-31.00	.905-1.220								
24.00-32.00	.945-1.260	107	4.212	32SS-155	1.25SS-155	R3B1	R3B2L	R3B295	CC__0602__
27.00-35.00	1.062-1.378					R3B2C			
						R3B2			
28.00-42.00	1.103-1.654	117	4.606	32SS-156	1.25SS-156	R3A2C	R3A2L	R3A295	CC__0602__
31.00-45.00	1.220-1.771					R3A2			TC__0902__
						R5B2C			CC__0602__
37.50-48.70	1.476-1.917	116	4.567	32SS-158	1.25SS-158	R5B2	R5B2L	R5B295	TC__1102__
38.00-49.20	1.496-1.937								
46.50-67.80	1.831-2.673			32SS-160	1.25SS-160	R5A2C	R5A2L	R5A295C	CC__0602__
						R5A2		R5A295	
47.00-68.30	1.850-2.689							TC__1102__	
60.50-86.10	2.375-3.383	128	5.039	32SS-163	1.25SS-163	R7A2C	R7A2L	R7A295C	CC__09T3__
						R7A2		R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	32SS-167	1.25SS-167	R7A2C	R7A2L	R7A295C	CC__09T3__
						R7A2		R7A295	TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

Smartbore & Smartbore Nano

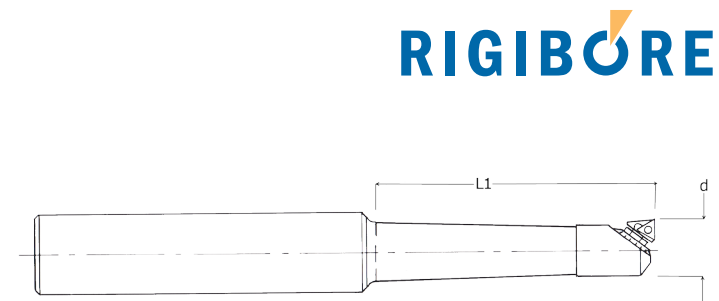


40SS / 1.50SS



Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
19.00-23.00	.748-.905	87	3.425	40SS-154	1.50SS-154	R2B2			TC__06T1__
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220								
24.00-32.00	.945-1.260	107	4.212	40SS-155	1.50SS-155	R3B1		R3B295	CC__0602__
27.00-35.00	1.062-1.378					R3B2C			TC__0902__
28.00-42.00	1.103-1.654					R3B2	R3B2L		TC__0602__
31.00-45.00	1.220-1.771	117	4.606	40SS-156	1.50SS-156	R3A2C		R3A295	TC__0902__
28.00-42.00	1.103-1.654					R3A2	R3A2L		CC__0602__
31.00-45.00	1.220-1.771					R3A2C	R3A2L		TC__0902__
37.50-48.70	1.476-1.917	116	4.567	40SS-158	1.50SS-158	R5B2C		R5B295	CC__0602__
38.00-49.20	1.496-1.937					R5B2			TC__1102__
							R5B2L		CC__0602__
37.50-48.70	1.476-1.917	173	6.811	40SS-159	1.50SS-159	R5B2C		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2			CC__0602__
							R5B2L		TC__1102__
46.50-67.80	1.831-2.673	116	4.567	40SS-160	1.50SS-160	R5A2C		R5A295C	CC__0602__
47.00-68.30	1.850-2.689					R5A2			TC__1102__
							R5A2L		
46.50-67.80	1.831-2.673	186	7.323	40SS-161	1.50SS-161	R5A2C		R5A295C	CC__0602__
47.00-68.30	1.850-2.689					R5A2			TC__1102__
							R5A2L		
60.50-86.10	2.375-3.383	128	5.039	40SS-163	1.50SS-163	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L		R7A295
		186	7.283	40SS-164	1.50SS-164	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L		R7A295
79.50-105.10	3.130-4.138	119	4.685	40SS-167	1.50SS-167	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L		R7A295
		199	7.835	40SS-168	1.50SS-168	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L		R7A295
96.00-142.00	3.780-5.590	118	4.645	40SS-170	1.50SS-170	R10A2C		R10A295C	CC__1204__
						R10A2	R10A2L		R10A295
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.									

50SS / 2.00SS

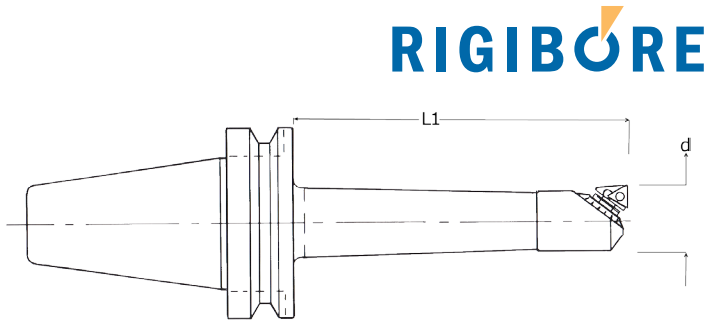


Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
19.00-23.00	.748-.905	87	3.425	50SS-154	2.00SS-154	R2B2			TC__06T1__
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220					R3B1			
24.00-32.00	.945-1.260	107	4.212	50SS-155	2.00SS-155	R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654					R3A2C			CC__0602__
31.00-45.00	1.220-1.771	117	4.606	50SS-156	2.00SS-156	R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654					R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__0902__
37.50-48.70	1.476-1.917	116	4.567	50SS-158	2.00SS-158	R5B2C			CC__0602__
38.00-49.20	1.496-1.937					R5B2		R5B295	TC__1102__
37.50-48.70	1.476-1.917						R5B2L		CC__0602__
38.00-49.20	1.496-1.937	173	6.811	50SS-159	2.00SS-159	R5B2C			CC__0602__
37.50-48.70	1.476-1.917					R5B2			TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673	116	4.567	50SS-160	2.00SS-160	R5A2C		R5A295C	CC__0602__
47.00-68.30	1.850-2.689					R5A2		R5A295	TC__1102__
46.50-67.80	1.831-2.673						R5A2L		
47.00-68.30	1.850-2.689	186	7.323	50SS-161	2.00SS-161	R5A2C		R5A295C	CC__0602__
46.50-67.80	1.831-2.673					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	50SS-163	2.00SS-163	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		186	7.283	50SS-164	2.00SS-164	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	50SS-167	2.00SS-167	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	50SS-168	2.00SS-168	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	50SS-170	2.00SS-170	R10A2C		R10A295C	CC__1204__
						R10A2	R10A2L	R10A295	TC__16T3__
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.									

STANDARD BORING BARS
TYPE BT40 (MAS 403)

with standard TR (Top-adjusting)
unit for finish boring

BT40



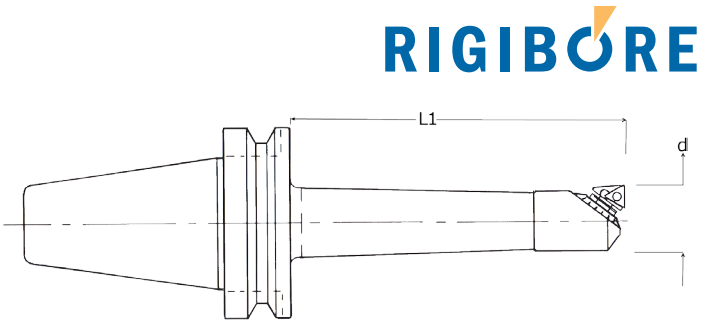
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	BT40-154	TR2B3	TR2B2L		TC__06T1__
23.6-27.6	.930-1.087							
28.0-31.0	1.103-1.220							
28.0-32.0	1.103-1.260	107	4.212	BT40-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378							
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771	117	4.606	BT40-156	TR3A2C	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771							
37.5-48.7	1.476-1.917	116	4.567	BT40-157	TR3A2C	TR3A2L	TR3A295	CC__0602__
38.0-49.2	1.496-1.937							
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937	173	6.811	BT40-158	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937							
46.5-67.8	1.831-2.673	116	4.567	BT40-159	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.659							
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.659	186	7.323	BT40-160	TR5A2C	TR5A2L	TR5A295C	TC__1102__
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689							
61.5-85.6	2.422-3.370	128	5.039	BT40-161	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455	185	7.283	BT40-162	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	119	4.685	BT40-163	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	199	7.835	BT40-164	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE BT50 (MAS 403)

with standard TR (Top-adjusting) unit for
finish boring

BT50



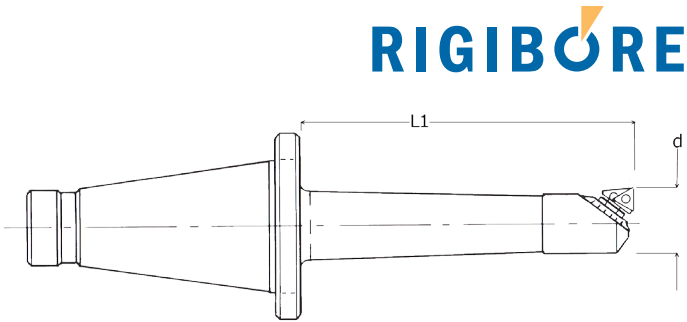
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	BT50-154	TR2B3	TR2B2L		TC__06T1__
23.6-27.6	.930-1.087							
28.0-31.0	1.103-1.220							
28.0-32.0	1.103-1.260	107	4.212	BT50-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378							
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771	117	4.606	BT50-156	TR3A2C	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771							
37.5-48.7	1.476-1.917	116	4.567	BT50-157	TR3A2C	TR3A2L	TR3A295	CC__0602__
38.0-49.2	1.496-1.937							
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937	173	6.811	BT50-158	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937							
46.5-67.8	1.831-2.673	116	4.567	BT50-159	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.659							
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.659	186	7.323	BT50-160	TR5A2C	TR5A2L	TR5A295C	TC__1102__
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689							
61.5-85.6	2.422-3.370	208	8.187	BT50-161	TR7A2C	TR7A2L	TR7A295C	CC__0602__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455	128	5.039	BT50-162	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	185	7.283	BT50-163	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	280	11.025	BT50-164	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							
81.2-106.8	3.197-4.204	119	4.685	BT50-165	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	199	7.835	BT50-166	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	297	11.693	BT50-167	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562	118	4.645	BT50-168	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570	296	11.653	BT50-169	TR10A2C	TR10A2L	TR10A295C	TC__16T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE DIN 2080-40

with standard TR (Top-adjusting)
unit for finish boring

2080-40



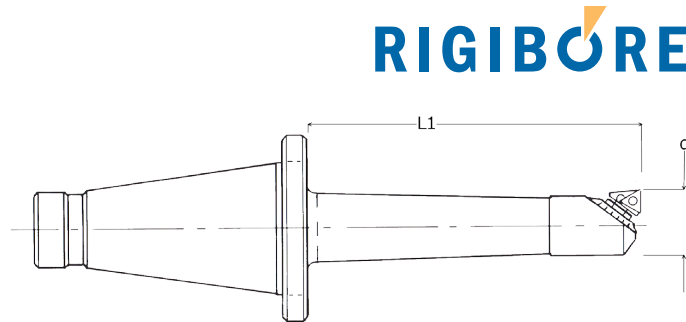
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	2080-40-154		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220				TR3B1			
28.0-32.0	1.103-1.260	107	4.212	2080-40-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378				TR3B2			TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771	117	4.606	2080-40-156	TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2			TC__0902__
37.5-48.7	1.476-1.917	116	4.567	2080-40-158	TR5B2C		TR5B295	CC__0602__
38.0-49.2	1.496-1.937				TR5B2			TC__1102__
37.5-48.7	1.476-1.917							CC__0602__
38.0-49.2	1.496-1.937	173	6.811	2080-40-159	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917				TR5B2			CC__0602__
38.0-49.2	1.496-1.937							TC__1102__
46.5-67.8	1.831-2.673	116	4.567	2080-40-160	TR5A2C		TR5A295C	CC__0602__
47.0-68.3	1.850-2.659				TR5A2			TC__1102__
46.5-67.8	1.831-2.673							CC__0602__
47.0-68.3	1.850-2.659	186	7.323	2080-40-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
46.5-67.8	1.831-2.673				TR5A2			TC__1102__
47.0-68.3	1.850-2.689							CC__0602__
46.5-67.8	1.831-2.673	208	8.187	2080-40-162	TR5A2C		TR5A295C	CC__0602__
47.0-68.3	1.850-2.689				TR5A2			TC__1102__
61.5-85.6	2.422-3.370							CC__0602__
61.5-85.6	2.422-3.370	128	5.039	2080-40-163	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
61.5-85.6	2.422-3.370				TR7A2			TC__16T3__
62.2-87.8	2.450-3.455	185	7.283	2080-40-164	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370				TR7A2			TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	2080-40-165	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	119	4.685	2080-40-167	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	2080-40-168	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	297	11.693	2080-40-169	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562				TR10A2C			CC__1204__
96.0-141.5	3.780-5.570				TR10A2			TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	2080-40-171	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2			TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE DIN 2080-50

with standard TR (Top-adjusting)
unit for finish boring

2080-50



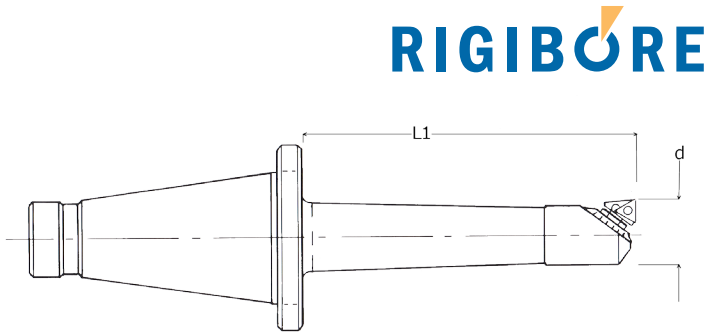
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	2080-50-154		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220				TR3B1			
28.0-32.0	1.103-1.260	107	4.212	2080-50-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378				TR3B2			TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771	117	4.606	2080-50-156	TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2			TC__0902__
37.5-48.7	1.476-1.917	116	4.567	2080-50-158	TR5B2C		TR5B295	CC__0602__
38.0-49.2	1.496-1.937				TR5B2			TC__1102__
37.5-48.7	1.476-1.917							CC__0602__
38.0-49.2	1.496-1.937	173	6.811	2080-50-159	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917				TR5B2			CC__0602__
38.0-49.2	1.496-1.937							TC__1102__
46.5-67.8	1.831-2.673	116	4.567	2080-50-160	TR5A2C		TR5A295C	CC__0602__
47.0-68.3	1.850-2.659				TR5A2			TC__1102__
46.5-67.8	1.831-2.673							CC__0602__
47.0-68.3	1.850-2.689	186	7.323	2080-50-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
46.5-67.8	1.831-2.673				TR5A2			TC__1102__
47.0-68.3	1.850-2.689							CC__0602__
46.5-67.8	1.831-2.673	208	8.187	2080-50-162	TR5A2C		TR5A295C	CC__0602__
47.0-68.3	1.850-2.689				TR5A2			TC__1102__
61.5-85.6	2.422-3.370							CC__0602__
61.5-85.6	2.422-3.370	128	5.039	2080-50-163	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
61.5-85.6	2.422-3.370				TR7A2			TC__16T3__
62.2-87.8	2.450-3.455	185	7.283	2080-50-164	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370				TR7A2			TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	2080-50-165	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	119	4.685	2080-50-167	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	2080-50-168	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	297	11.693	2080-50-169	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562				TR10A2C			CC__1204__
96.0-141.5	3.780-5.570				TR10A2			TC__16T3__
95.3-141.3	3.752-5.562	118	4.645	2080-50-170	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2			TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB40

with standard TR (Top-adjusting) unit for
finish boring

NMTB40



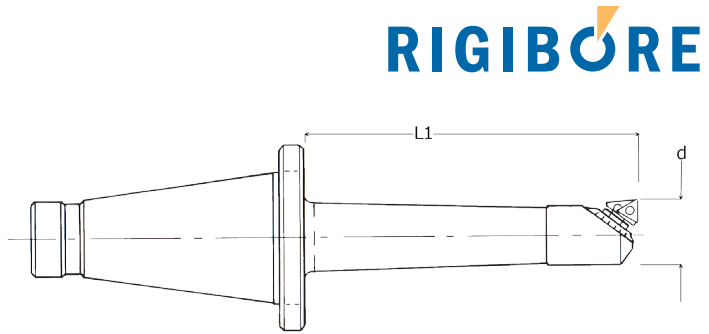
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	NMTB40-154	TR2B3	TR2B2L		TC__06T1__
23.6-27.6	.930-1.087							
28.0-31.0	1.103-1.220							
28.0-32.0	1.103-1.260	107	4.212	NMTB40-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378							
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771	117	4.606	NMTB40-156	TR3A2C	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771							
37.5-48.7	1.476-1.917	116	4.567	NMTB40-157	TR3A2C	TR3A2L	TR3A295	CC__0602__
38.0-49.2	1.496-1.937							
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937	173	6.811	NMTB40-158	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937							
46.5-67.8	1.831-2.673	116	4.567	NMTB40-159	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.659							
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689	186	7.323	NMTB40-160	TR5A2C	TR5A2L	TR5A295C	TC__1102__
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689							
46.5-67.8	1.831-2.673	208	8.187	NMTB40-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.689							
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689	128	5.039	NMTB40-162	TR5A2C	TR5A2L	TR5A295C	TC__1102__
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370	185	7.283	NMTB40-163	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455	280	11.025	NMTB40-164	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455							
79.5-104.6	3.130-4.118	119	4.685	NMTB40-165	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	199	7.835	NMTB40-166	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	297	11.693	NMTB40-167	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	118	4.645	NMTB40-168	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562	296	11.653	NMTB40-169	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570	118	4.645	NMTB40-170	TR10A2C	TR10A2L	TR10A295C	TC__16T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562	296	11.653	NMTB40-171	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570	296	11.653	NMTB40-172	TR10A2C	TR10A2L	TR10A295C	TC__16T3__
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570							

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB50

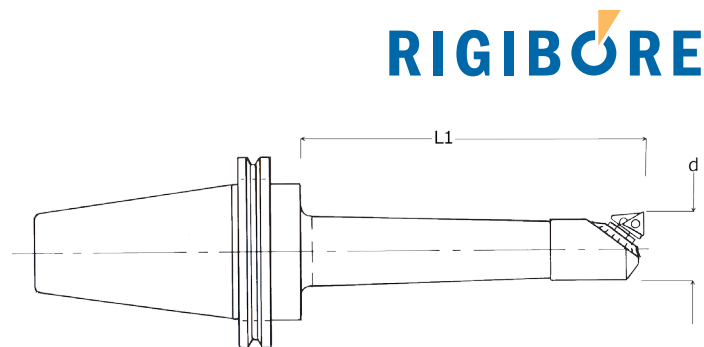
with standard TR (Top-adjusting) unit for
finish boring

NMTB50



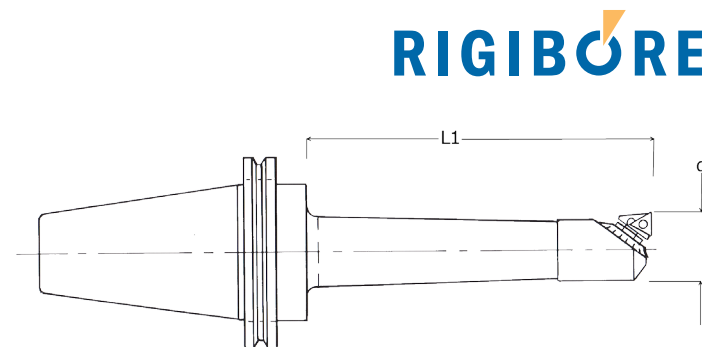
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	NMTB50-154		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220				TR3B1			
28.0-32.0	1.103-1.260	107	4.212	NMTB50-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378				TR3B2			TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771	117	4.606	NMTB50-156	TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2			TC__0902__
37.5-48.7	1.476-1.917	116	4.567	NMTB50-158	TR5B2C		TR5B295	CC__0602__
					TR5B2			TC__1102__
38.0-49.2	1.496-1.937							CC__0602__
37.5-48.7	1.476-1.917	173	6.811	NMTB50-159	TR5B2C	TR5B2L	TR5B295	TC__1102__
					TR5B2			CC__0602__
38.0-49.2	1.496-1.937							TC__1102__
46.5-67.8	1.831-2.673	116	4.567	NMTB50-160	TR5A2C	TR5A2L	TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659							
46.5-67.8	1.831-2.673	186	7.323	NMTB50-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689							
46.5-67.8	1.831-2.673	208	8.187	NMTB50-162	TR5A2C	TR5A2L	TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689							
61.5-85.6	2.422-3.370	128	5.039	NMTB50-163	TR7A2	TR7A2L	TR7A295	TC__16T3__
					TR7A2C		TR7A295C	CC__09T3__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370	185	7.283	NMTB50-164	TR7A2	TR7A2L	TR7A295	TC__16T3__
					TR7A2C		TR7A295C	CC__09T3__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370	280	11.025	NMTB50-165	TR7A2	TR7A2L	TR7A295	TC__16T3__
					TR7A2C		TR7A295C	CC__09T3__
62.2-87.8	2.450-3.455							
79.5-104.6	3.130-4.118	119	4.685	NMTB50-167	TR7A2	TR7A2L	TR7A295	TC__16T3__
					TR7A2C		TR7A295C	CC__09T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	199	7.835	NMTB50-168	TR7A2	TR7A2L	TR7A295	TC__16T3__
					TR7A2C		TR7A295C	CC__09T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	297	11.693	NMTB50-169	TR7A2	TR7A2L	TR7A295	TC__16T3__
					TR7A2C		TR7A295C	CC__09T3__
81.2-106.8	3.197-4.204							
95.3-141.3	3.752-5.562	118	4.645	NMTB50-170	TR10A2C	TR10A2L	TR10A295C	CC__1204__
					TR10A2		TR10A295	TC__16T3__
96.0-141.5	3.780-5.570							
95.3-141.3	3.752-5.562	296	11.653	NMTB50-171	TR10A2C	TR10A2L	TR10A295C	CC__1204__
					TR10A2		TR10A295	TC__16T3__
96.0-141.5	3.780-5.570							

7388-40



Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

7388-50

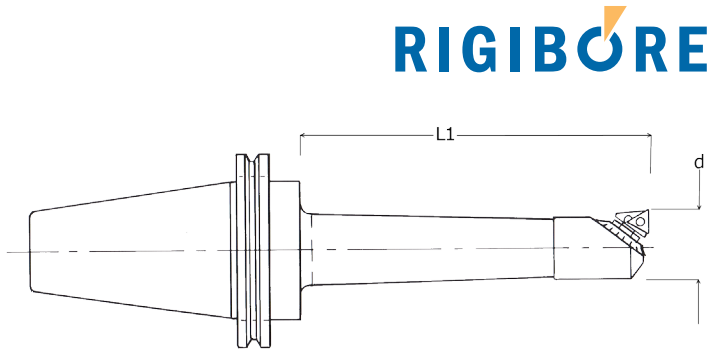


Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE
ANSI B5-50 (1985)

with standard TR (Top-adjusting)
unit for finish boring

ANSI50



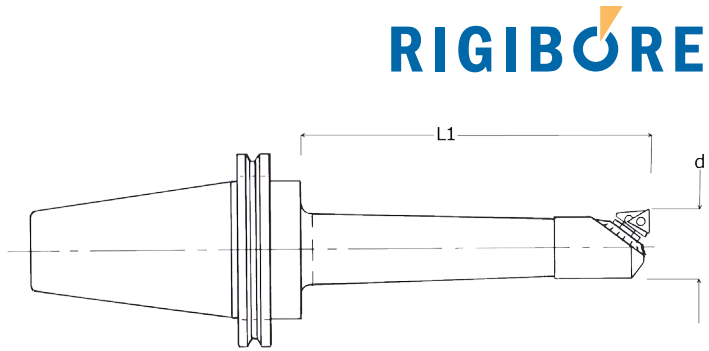
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	ANSI-50-154	TR2B3	TR2B2L		TC__06T1__
23.6-27.6	.930-1.087							
28.0-31.0	1.103-1.220							
28.0-32.0	1.103-1.260	107	4.212	ANSI-50-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378							
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771	117	4.606	ANSI-50-156	TR3A2C	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771							
37.5-48.7	1.476-1.917	116	4.567	ANSI-50-158	TR5B2C	TR5B2L	TR5B295	CC__0602__
38.0-49.2	1.496-1.937							
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937	173	6.811	ANSI-50-159	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937							
46.5-67.8	1.831-2.673	116	4.567	ANSI-50-160	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.689							
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689	186	7.323	ANSI-50-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689							
46.5-67.8	1.831-2.673	208	8.187	ANSI-50-162	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.689							
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455	128	5.039	ANSI-50-163	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370	185	7.283	ANSI-50-164	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455	280	11.025	ANSI-50-165	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	119	4.685	ANSI-50-167	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	199	7.835	ANSI-50-168	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	297	11.693	ANSI-50-169	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
95.3-141.3	3.752-5.562							
96.0-141.5	3.780-5.570	118	4.645	ANSI-50-170	TR10A2C	TR10A2L	TR10A295C	CC__1204__
95.3-141.3	3.752-5.562							
95.3-141.3	3.752-5.562	296	11.653	ANSI-50-171	TR10A2C		TR10A295C	CC__1204__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE CAT40

with standard TR
(Top-adjusting) unit for finish boring

CAT40



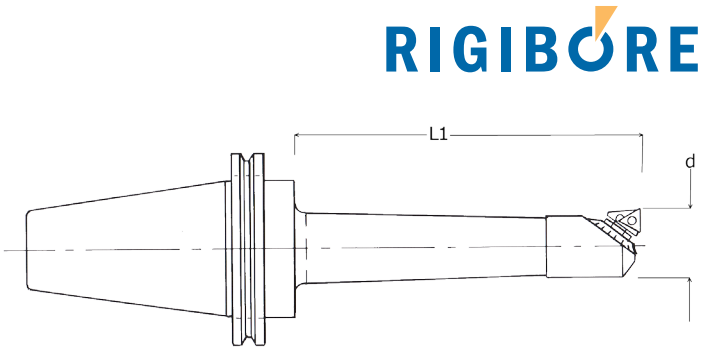
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	CAT40-154	TR2B3	TR2B2L		TC__06T1__
23.6-27.6	.930-1.087							
28.0-31.0	1.103-1.220							
28.0-32.0	1.103-1.260	107	4.212	CAT40-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378							
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771	117	4.606	CAT40-156	TR3A2C	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654							
31.0-45.0	1.220-1.771							
37.5-48.7	1.476-1.917	116	4.567	CAT40-158	TR5B2C	TR5B2L	TR5B295	CC__0602__
38.0-49.2	1.496-1.937							
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937	173	6.811	CAT40-159	TR5B2C	TR5B2L	TR5B295	TC__1102__
37.5-48.7	1.476-1.917							
38.0-49.2	1.496-1.937							
46.5-67.8	1.831-2.673	116	4.567	CAT40-160	TR5A2C	TR5A2L	TR5A295C	CC__0602__
47.0-68.3	1.850-2.689							
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689	186	7.323	CAT40-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
46.5-67.8	1.831-2.673							
47.0-68.3	1.850-2.689							
61.5-85.6	2.422-3.370	128	5.039	CAT40-163	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
62.2-87.8	2.450-3.455							
61.5-85.6	2.422-3.370							
62.2-87.8	2.450-3.455	185	7.283	CAT40-164	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118	119	4.685	CAT40-167	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
81.2-106.8	3.197-4.204							
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204	199	7.835	CAT40-168	TR7A2C	TR7A2L	TR7A295C	TC__16T3__
79.5-104.6	3.130-4.118							
81.2-106.8	3.197-4.204							
95.3-141.3	3.752-5.562	118	4.645	CAT40-170	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570							

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE CAT

with standard TR (Top-adjusting) unit for
finish boring

CAT50



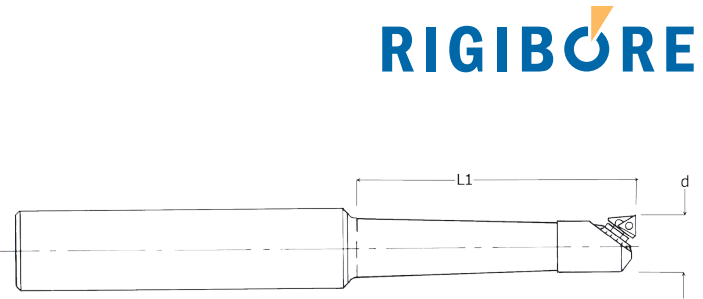
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	CAT50-154		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220				TR3B1			
28.0-32.0	1.103-1.260	107	4.212	CAT50-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378				TR3B2			TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771	117	4.606	CAT50-156	TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654				TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2			TC__0902__
					TR3A2C			CC__0602__
37.5-48.7	1.476-1.917	116	4.567	CAT50-158	TR5B2C		TR5B295	CC__0602__
					TR5B2			TC__1102__
38.0-49.2	1.496-1.937							CC__0602__
37.5-48.7	1.476-1.917	173	6.811	CAT50-159	TR5B2C	TR5B2L	TR5B295	TC__1102__
38.0-49.2	1.496-1.937				TR5B2			CC__0602__
								TC__1102__
46.5-67.8	1.831-2.673	116	4.567	CAT50-160	TR5A2C		TR5A295C	CC__0602__
					TR5A2			TC__1102__
47.0-68.3	1.850-2.689							CC__0602__
46.5-67.8	1.831-2.673	186	7.323	CAT50-161	TR5A2C	TR5A2L	TR5A295C	CC__0602__
					TR5A2			TC__1102__
47.0-68.3	1.850-2.689							CC__0602__
46.5-67.8	1.831-2.673	208	8.187	CAT50-162	TR5A2C	TR5A2L	TR5A295C	CC__0602__
					TR5A2			TC__1102__
47.0-68.3	1.850-2.689							CC__0602__
61.5-85.6	2.422-3.370	128	5.039	CAT50-163	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
61.5-85.6	2.422-3.370				TR7A2			TC__16T3__
62.2-87.8	2.450-3.455	185	7.283	CAT50-164	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370				TR7A2			TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	CAT50-165	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	119	4.685	CAT50-167	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	CAT50-168	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118				TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	297	11.693	CAT50-169	TR7A2C	TR7A2L	TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562				TR10A2C			CC__1204__
96.0-141.5	3.780-5.570				TR10A2			TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	CAT50-171	TR10A2C	TR10A2L	TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2			TC__16T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

with standard TR (Top-adjusting) unit for
finish boring

25SS / 1.00SS



Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	25SS-154	1.00SS-154		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220					TR3B1			
28.0-32.0	1.103-1.260	107	4.212	25SS-155	1.00SS-155	TR3B2C	TR3B2L	TR3B295	CC__0602__
28.0-35.0	1.103-1.378					TR3B2			TC__0902__
31.0-42.0	1.220-1.654					TR3A2C			CC__0602__
31.0-45.0	1.220-1.771	117	4.606	25SS-156	1.00SS-156	TR3A2	TR3A2L	TR3A295	TC__0902__
						TR5B2C			CC__0602__
						TR5B2			TC__1102__
									CC__0602__
37.5-48.7	1.476-1.917	116	4.567	25SS-158	1.00SS-158		TR5B2L	TR5B295	TC__1102__
38.0-49.2	1.496-1.937								
46.5-67.8	1.831-2.673			25SS-160	1.00SS-160	TR5A2C		TR5A295C	CC__0602__
						TR5A2			
47.0-68.3	1.850-2.689								
61.5-85.6	2.422-3.370	128	5.039	25SS-163	1.00SS-163	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C			CC__09T3__
79.5-104.6	3.130-4.118					TR7A2			TC__16T3__
81.2-106.8	3.197-4.204	119	4.685	25SS-167	1.00SS-167	TR7A2C		TR7A295C	CC__09T3__

Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

Specialists In Special Tools

