RIGIBORE

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**

RIGIBORE

Index

Welcome to **Rigibore®**

Manufacturers of high quality tooling for precision hole boring

Rigibore's use of technology in manufacturing means we deliver our products, even complex multi-edge cutting tools, quicker than the competition.

We pride ourselves on our enquiry response time, our attention to detail, product quality and our commitment to customer satisfaction.

Our bespoke design and manufacturing system delivers high quality boring tools in the shortest delivery times.

Rigibore® is an award winning company recognised for its use of technology and commitment to customer focus.

Innovation, technology and quality in design and manufacture

What our customers say about us...

"Rigibore's quality and on-time delivery performance is outstanding and considered to be Best-in-Class."

"The product, coupled with their knowledge of difficult boring applications has proven to be the perfect partner for a world class metalworking solutions provider."

"Rigibore® has customised their software and manufacturing services to fit our every need (and more importantly our customer's needs). Their flexibility is unparalleled."

Experience Matters

Our design experience guarantees that we can offer you the best tool solution for your boring application

Hayle, UK

Mukwonago, USA

Bangalore, India

TOOL SHANK DIMENSIONS
for Rigibore® **Boring Bars**

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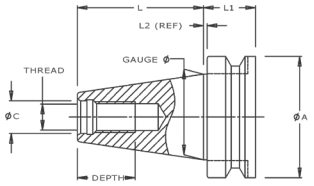
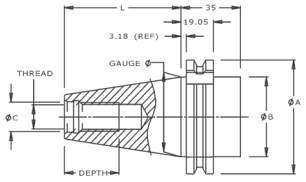
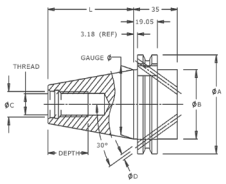


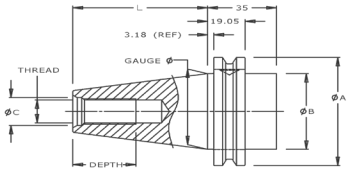
Taper	ø A	ø B	ø C	ø GAUGE	L	L1	L2	THREAD	DEPTH
BT-MAS403	mm	mm	mm	mm	mm	mm	mm		mm
BT40	63.00	N/A	17.00	44.45	65.40	27.00	2.0	M16-2.0	30.0
BT50	100.00	N/A	25.40	69.85	101.60	38.00	3.0	M24-3.0	47.0



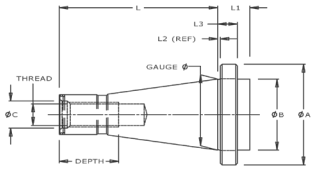
Taper	ø A	ø B	ø C	ø GAUGE	L	THREAD	DEPTH	THREAD	DEPTH
DIN 69871 / ISO7388	mm	mm	mm	mm	mm		mm		mm
7388-40	63.50	44.45	17.00	44.45	68.25	M16-2.0	32.0	M16-2.0	30.0
7388-50	97.45	70.00	25.00	69.85	101.60	M24-3.0	47.0	M24-3.0	47.0



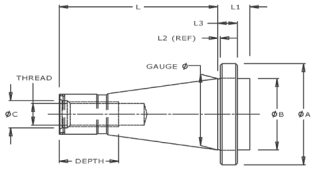
Taper	ø A	ø B	ø C	ø D	ø Gauge	L	Thread	Depth	Depth
DIN 69871B / ISO 7388 FORM B	mm	mm	mm	mm	mm	mm	mm		mm
7388-40	63.50	44.45	17.00	4.20	44.45	68.25	M16-2.0	32	30.0
7388-50	97.45	70.00	25.00	5.00	69.85	101.60	M24-3.0	47	47.0



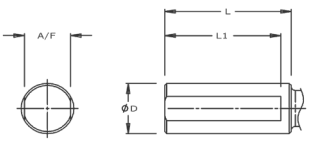
Taper	ø A	ø B	ø C	ø Gauge	L	Thread	Depth
CATERPILLAR (Imperial Thread)	mm	mm	mm	mm	mm	mm	mm
CAT40	63.50	44.45	16.40	44.45	68.25	5/8-11	32.0
CAT50	98.42	70.00	25.40	69.85	101.60	1.0-8	47.0



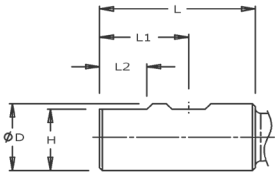
Taper	ø A	ø B	ø C	ø Gauge	L	L1	L2	L3	Thread	Depth
ISO/DIN2080 (Metric Thread)										
2080-40	63.50	44.45	17.00	44.45	93.30	19.00	1.6	11.70	M16-2.0	35.00
2080-50	97.40	70.00	26.10	69.85	126.70	30.20	3.2	12.00	M24-3.0	47.00



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

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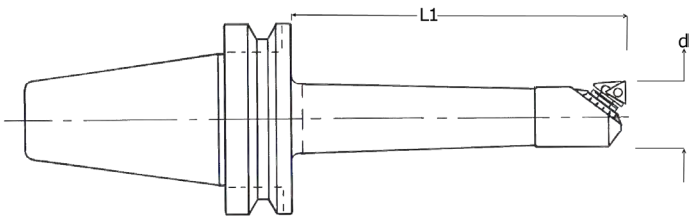

Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	**BT40-1535**	R2B2S			TC__06T1__
16.67-18.25	.656-.718			**BT40-1536**	R2B2S			
17.40-19.00	.685-.748			**BT40-1537**	R2B2S			
19.00-23.00	.748-.905	87	3.425	**BT40-154**	R2B2			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-2.200	107	4.212	**BT40-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**BT40-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**BT40-157**	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	**BT40-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**BT40-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**BT40-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**BT40-161**	R5A2C		R5A295C	CC__0602__
47.00-68.30					R5A2		R5A295	TC__1102__
46.50-67.80	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**BT40-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**BT40-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**BT40-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**BT40-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**BT40-170**	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 BT (MAS 403)

with standard R unit for roughing & semi-finishing

BT50

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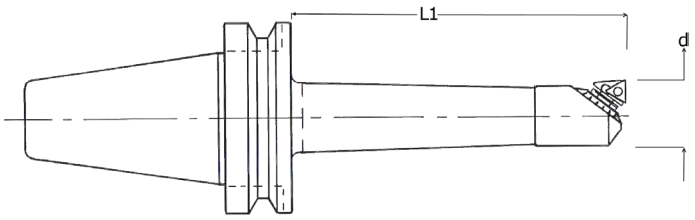

Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	**BT50-1535**	R2B2S			TC__06T1__
16.67-18.25	.656-.718			**BT50-1536**				
17.40-19.00	.685-.748			**BT50-1537**				
19.00-23.00	.748-.905	87	3.425	**BT50-154**	R2B2			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**BT50-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**BT50-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**BT50-157**	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	**BT50-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**BT50-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**BT50-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**BT50-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	208	8.187	**BT50-162**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**BT50-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**BT50-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		280	11.025	**BT50-165**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**BT50-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**BT50-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		297	11.693	**BT50-169**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**BT50-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__
		296	11.653	**BT50-171**	R10A2C		R10A295C	CC__1204__
96.00-142.00	3.780-5.590	296	11.653	**BT50-171**	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 DIN2080

with standard R unit for roughing & semi-finishing

2080-40

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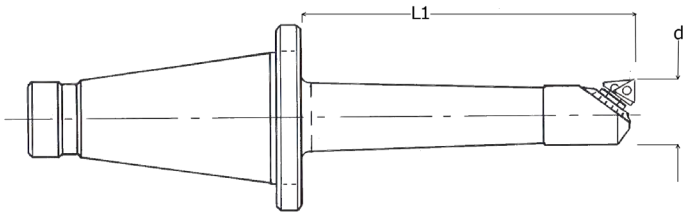


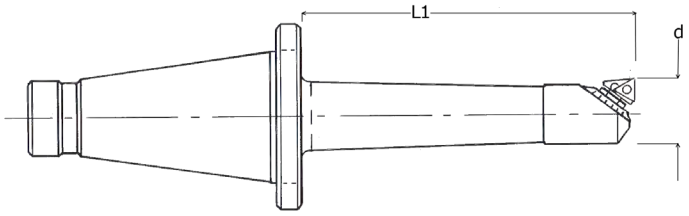
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	**2080-40-1535**	R2B2S			TC__06T1__
16.67-18.25	.656-.718			**2080-40-1536**				
17.40-19.00	.685-.748			**2080-40-1537**				
19.00-23.00	.748-.905	87	3.425	**2080-40-154**	R2B2			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**2080-40-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**2080-40-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**2080-40-157**	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	**2080-40-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**2080-40-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**2080-40-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**2080-40-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**2080-40-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**2080-40-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		280	11.025	**2080-40-165**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**2080-40-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**2080-40-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		297	11.693	**2080-40-169**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**2080-40-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__
		296	11.653	**2080-40-171**	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 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			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**2080-50-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**2080-50-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**2080-50-157**	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	**2080-50-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**2080-50-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**2080-50-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**2080-50-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	208	8.187	**2080-50-162**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					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		R7A295C	CC__09T3__
					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		R7A295C	CC__09T3__
					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__

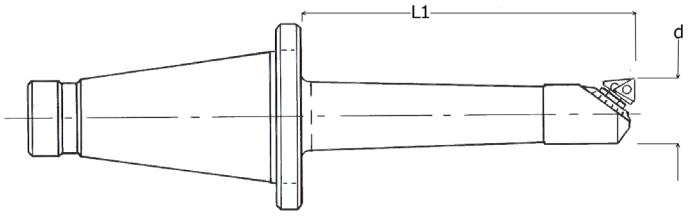
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB

with standard R unit for
roughing & semi-finishing

NMTB40

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	**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					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**NMTB40-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**NMTB40-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**NMTB40-157**	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	**NMTB40-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**NMTB40-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**NMTB40-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**NMTB40-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**NMTB40-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**NMTB40-164**	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__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**NMTB40-168**	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__
					R10A2	R10A2L	R10A295	TC__16T3__
		296	11.693	**NMTB40-171**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

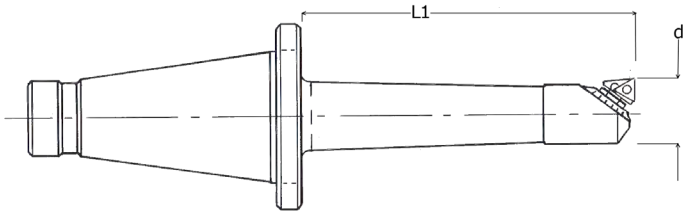
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB

with standard R unit for
roughing & semi-finishing

NMTB50

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	**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			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**NMTB50-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**NMTB50-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**NMTB50-157**	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	**NMTB50-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**NMTB50-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.917					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**NMTB50-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**NMTB50-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	208	8.187	**NMTB50-162**	R5A2C		R5A295C	CC__0602__
45.60-67.80					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**NMTB50-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**NMTB50-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		280	11.025	**NMTB50-165**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**NMTB50-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**NMTB50-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		297	11.693	**NMTB50-169**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**NMTB50-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__
		296	11.653	**NMTB50-171**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

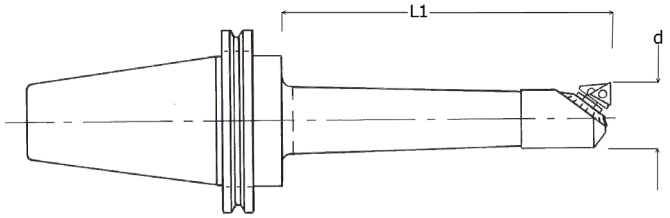
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE ISO7388 (DIN 69871A)

with standard R unit for
roughing & semi-finishing

7388-40

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	**7388-40-1535**	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			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**7388-40-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**7388-40-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**7388-40-157**	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	**7388-40-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**7388-40-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**7388-40-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**7388-40-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**7388-40-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**7388-40-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**7388-40-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**7388-40-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**7388-40-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

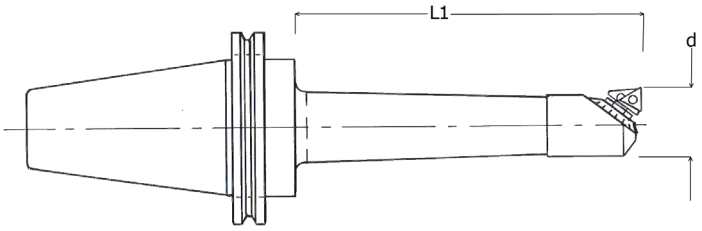
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE 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			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**7388-50-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**7388-50-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**7388-50-157**	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	**7388-50-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**7388-50-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**7388-50-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**7388-50-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	208	8.187	**7388-50-162**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**7388-50-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**7388-50-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**7388-50-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**7388-50-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**7388-50-170**	R10A2C		R10A295C	CC__1204__

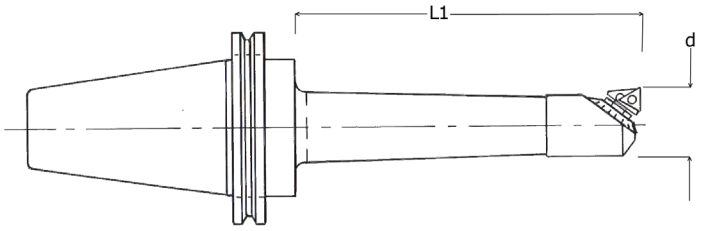
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

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			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**ANSI50-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**ANSI50-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**ANSI50-157**	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	**ANSI50-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**ANSI50-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**ANSI50-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**ANSI50-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	208	8.187	**ANSI50-162**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**ANSI50-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**ANSI50-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		280	11.025	**ANSI50-165**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**ANSI50-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**ANSI50-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		297	11.693	**ANSI50-169**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**ANSI50-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__
		296	11.653	**ANSI50-171**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

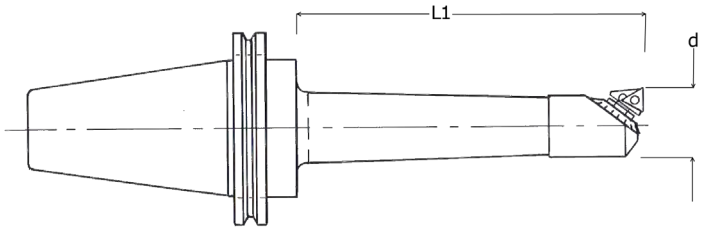
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE CAT

with standard R unit for roughing & semi-finishing

CAT40

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	**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			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**CAT40-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**CAT40-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**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			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**CAT40-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**CAT40-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**CAT40-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**CAT40-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**CAT40-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**CAT40-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**CAT40-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**CAT40-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__

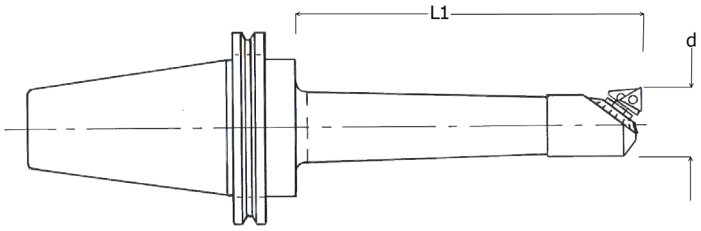
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE CAT

with standard R unit for roughing & semi-finishing

CAT50

RIGIBORE



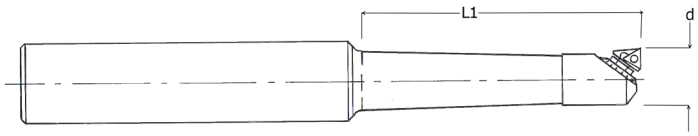
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
15.875-17.40	.625-.685	83	3.268	**CAT50-1535**	R2B2S			TC__06T1__
16.67-18.25	.656-.718			**CAT50-1536**				
17.40-19.00	.685-.748			**CAT50-1537**				
19.00-23.00	.748-.905	87	3.425	**CAT50-154**	R2B2			
23.00-27.00	.905-1.062					R2B2L		
23.00-31.00	.905-1.220	107	4.212	**CAT50-155**	R3B1			
24.00-32.00	.945-1.260				R3B2C			CC__0602__
27.00-35.00	1.062-1.378				R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**CAT50-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771				R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**CAT50-157**	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	**CAT50-158**	R5B2C			CC__0602__
					R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**CAT50-159**	R5B2C			CC__0602__
					R5B2			TC__1102__
38.00-49.20	1.496-1.937					R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**CAT50-160**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**CAT50-161**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
46.50-67.80	1.831-2.673	208	8.187	**CAT50-162**	R5A2C		R5A295C	CC__0602__
					R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689					R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**CAT50-163**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**CAT50-164**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		280	11.025	**CAT50-165**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**CAT50-167**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**CAT50-168**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
		297	11.693	**CAT50-169**	R7A2C		R7A295C	CC__09T3__
					R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**CAT50-170**	R10A2C		R10A295C	CC__1204__
					R10A2	R10A2L	R10A295	TC__16T3__
		296	11.653	**CAT50-171**	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
PLAIN STRAIGHT SHANK

with standard R unit for
roughing & semi-finishing

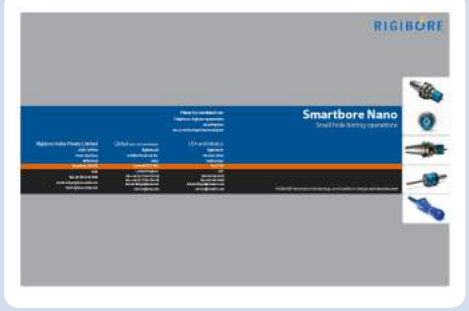
25SS / 1.00SS



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			
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220	107	4.212	**25SS-155**	**1.00SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**25SS-156**	**1.00SS-156**	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	**25SS-158**	**1.00SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673			**25SS-160**	**1.00SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**25SS-163**	**1.00SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**25SS-167**	**1.00SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__

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

Smartbore & Smartbore Nano

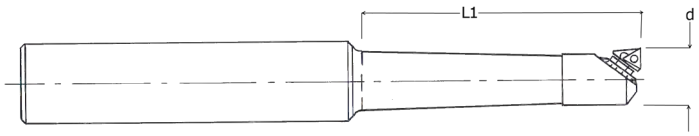


STANDARD BORING BARS
PLAIN STRAIGHT SHANK

with standard R unit for
roughing & semi-finishing

32SS / 1.25SS

RIGIBORE



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			TC__06T1__
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220	107	4.212	**32SS-155**	**1.25SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**32SS-156**	**1.25SS-156**	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	**32SS-158**	**1.25SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673			**32SS-160**	**1.25SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**32SS-163**	**1.25SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**32SS-167**	**1.25SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__

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

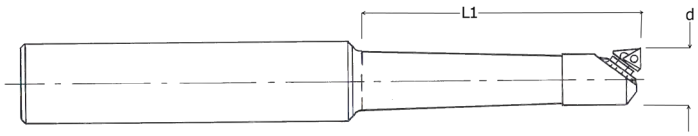
Specialists In Special Tools

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

with standard R unit for
roughing & semi-finishing

40SS / 1.50SS

RIGIBORE



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	107	4.212	**40SS-155**	**1.50SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**40SS-156**	**1.50SS-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**40SS-157**	**1.50SS-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	**40SS-158**	**1.50SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**40SS-159**	**1.50SS-159**	R5B2C			CC__0602__
						R5B2			TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**40SS-160**	**1.50SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**40SS-161**	**1.50SS-161**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**40SS-163**	**1.50SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		186	7.283	**40SS-164**	**1.50SS-164**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**40SS-167**	**1.50SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**40SS-168**	**1.50SS-168**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**40SS-170**	**1.50SS-170**	R10A2C		R10A295C	CC__1204__
						R10A2	R10A2L	R10A295	TC__16T3__

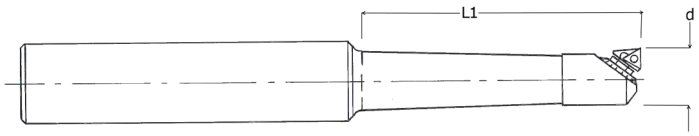
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

with standard R unit for
roughing & semi-finishing

50SS / 2.00SS

RIGIBORE



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	107	4.212	**50SS-155**	**2.00SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**50SS-156**	**2.00SS-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**50SS-157**	**2.00SS-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	**50SS-158**	**2.00SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**50SS-159**	**2.00SS-159**	R5B2C			CC__0602__
						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__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**50SS-161**	**2.00SS-161**	R5A2C		R5A295C	CC__0602__
						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__

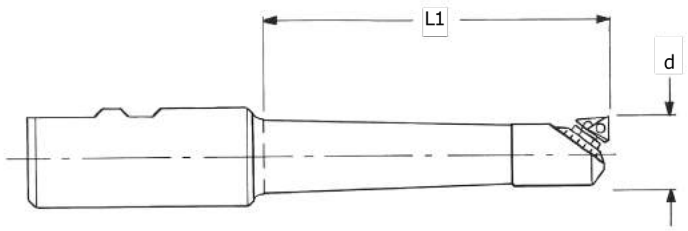
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

with standard R unit for roughing & semi-finishing

W25SS / W1.00SS

RIGIBORE



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	**W25SS-1535**	**W1.00SS-1535**	R2B2S			TC__06T1__
16.67-18.25	.685-718			**W25SS-1536**	**W1.00SS-1536**				
17.40-19.00	.685-.748			**W25SS-1537**	**W1.00SS-1537**				
19.00-23.00	.748-.905	87	3.425	**W25SS-154**	**W1.00SS-154**	R2B2			
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220	107	4.212	**W25SS-155**	**W1.00SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**W25SS-156**	**W1.00SS-156**	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	**W25SS-158**	**W1.00SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673			**W25SS-160**	**W1.00SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**W25SS-163**	**W1.00SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**W25SS-167**	**W1.00SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__

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

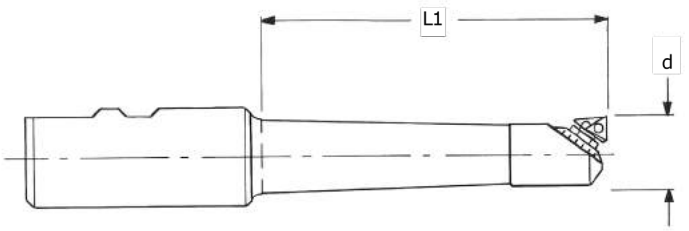
UFP Cartridges

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

with standard R unit for roughing & semi-finishing

W32SS / W1.25SS

RIGIBORE



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	**W32SS-154**	**W1.25SS-154**	R2B2			TC__06T1__
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220	107	4.212	**W32SS-155**	**W1.25SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**W32SS-156**	**W1.25SS-156**	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	**W32SS-158**	**W1.25SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673			**W32SS-160**	**W1.25SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**W32SS-163**	**W1.25SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**W32SS-167**	**W1.25SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__

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

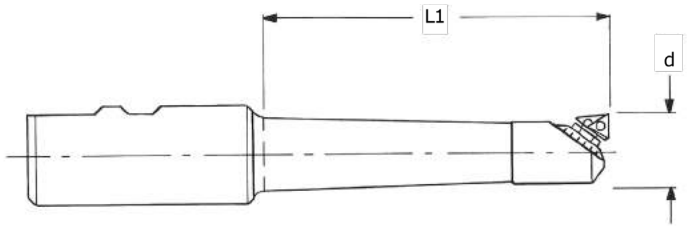
Specialists In Special Tools

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

with standard R unit for roughing & semi-finishing

W40SS / W1.50SS

RIGIBORE



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	**W40SS-154**	**W1.50SS-154**	R2B2			TC__06T1__
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220	107	4.212	**W40SS-155**	**W1.50SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**W40SS-156**	**W1.50SS-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**W40SS-157**	**W1.50SS-157**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__1102__
37.50-48.70	1.476-1.917	116	4.567	**W40SS-158**	**W1.50SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**W40SS-159**	**W1.50SS-159**	R5B2C			CC__0602__
						R5B2			TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**W40SS-160**	**W1.50SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**W40SS-161**	**W1.50SS-161**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**W40SS-163**	**W1.50SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**W40SS-164**	**W1.50SS-164**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**W40SS-167**	**W1.50SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**W40SS-168**	**W1.50SS-168**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**W40SS-170**	**W1.50SS-170**	R10A2C		R10A295C	CC__1204__
						R10A2	R10A2L	R10A295	TC__16T3__

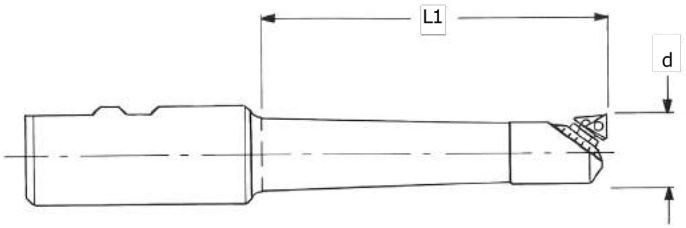
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

with standard R unit for roughing & semi-finishing

W50SS / W2.00SS

RIGIBORE



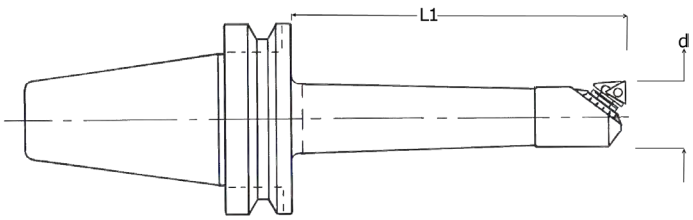
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
19.00-23.00	.748-.905	87	3.425	**W50SS-154**	**W2.00SS-154**	R2B2			TC__06T1__
23.00-27.00	.905-1.062						R2B2L		
23.00-31.00	.905-1.220	107	4.212	**W50SS-155**	**W2.00SS-155**	R3B1			
24.00-32.00	.945-1.260					R3B2C			CC__0602__
27.00-35.00	1.062-1.378					R3B2	R3B2L	R3B295	TC__0902__
28.00-42.00	1.103-1.654	117	4.606	**W50SS-156**	**W2.00SS-156**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__0902__
28.00-42.00	1.103-1.654	132	5.197	**W50SS-157**	**W2.00SS-157**	R3A2C			CC__0602__
31.00-45.00	1.220-1.771					R3A2	R3A2L	R3A295	TC__1102__
37.50-48.70	1.476-1.917	116	4.567	**W50SS-158**	**W2.00SS-158**	R5B2C			CC__0602__
						R5B2		R5B295	TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
37.50-48.70	1.476-1.917	173	6.811	**W50SS-159**	**W2.00SS-159**	R5B2C			CC__0602__
						R5B2			TC__1102__
38.00-49.20	1.496-1.937						R5B2L		
46.50-67.80	1.831-2.673	116	4.567	**W50SS-160**	**W2.00SS-160**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
46.50-67.80	1.831-2.673	186	7.323	**W50SS-161**	**W2.00SS-161**	R5A2C		R5A295C	CC__0602__
						R5A2		R5A295	TC__1102__
47.00-68.30	1.850-2.689						R5A2L		
60.50-86.10	2.375-3.383	128	5.039	**W50SS-163**	**W2.00SS-163**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		185	7.283	**W50SS-164**	**W2.00SS-164**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
79.50-105.10	3.130-4.138	119	4.685	**W50SS-167**	**W2.00SS-167**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
		199	7.835	**W50SS-168**	**W2.00SS-168**	R7A2C		R7A295C	CC__09T3__
						R7A2	R7A2L	R7A295	TC__16T3__
96.00-142.00	3.780-5.590	118	4.645	**W50SS-170**	**W2.00SS-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**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**BT40-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**BT40-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**BT40-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**BT40-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**BT40-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**BT40-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**BT40-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**BT40-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**BT40-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**BT40-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**BT40-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**BT40-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

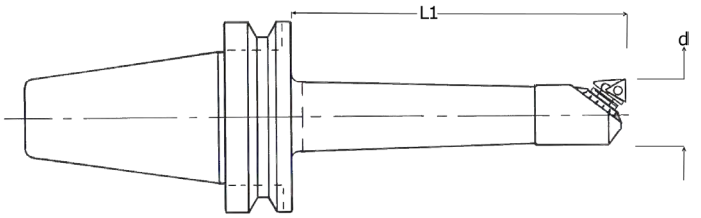
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE BT50 (MAS 403)

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

BT50

RIGIBORE



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**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**BT50-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**BT50-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**BT50-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**BT50-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**BT50-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**BT50-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**BT50-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**BT50-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**BT50-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**BT50-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	**BT50-165**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**BT50-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**BT50-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**BT50-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**BT50-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**BT50-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

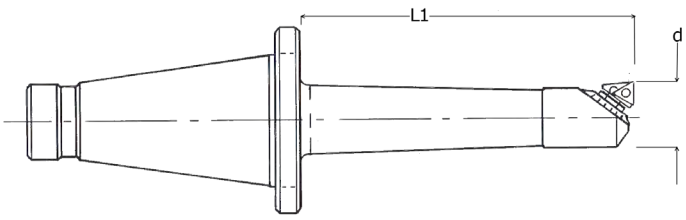
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE DIN 2080-40

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

2080-40

RIGIBORE



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	107	4.212	**2080-40-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**2080-40-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**2080-40-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**2080-40-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**2080-40-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**2080-40-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**2080-40-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**2080-40-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
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		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**2080-40-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**2080-40-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**2080-40-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**2080-40-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**2080-40-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

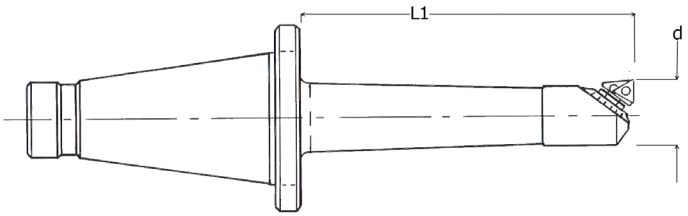
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE DIN 2080-50

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

2080-50

RIGIBORE



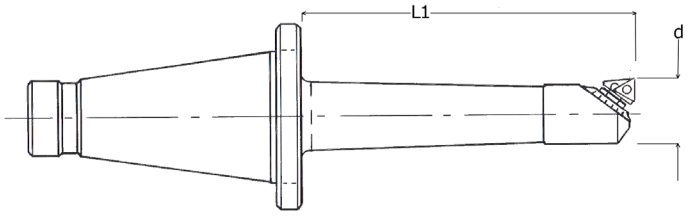
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	**2080-50-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**2080-50-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**2080-50-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**2080-50-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**2080-50-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**2080-50-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**2080-50-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**2080-50-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**2080-50-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
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		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**2080-50-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**2080-50-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**2080-50-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**2080-50-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**2080-50-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	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**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**NMTB40-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**NMTB40-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**NMTB40-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**NMTB40-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**NMTB40-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**NMTB40-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**NMTB40-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**NMTB40-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**NMTB40-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**NMTB40-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	**NMTB40-165**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**NMTB40-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**NMTB40-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**NMTB40-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**NMTB40-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**NMTB40-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

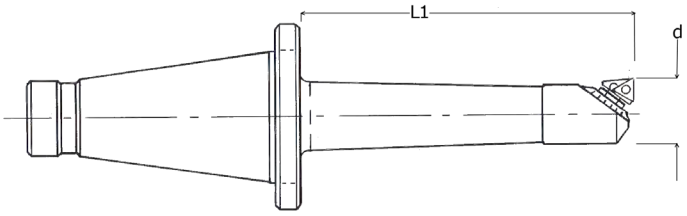
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE NMTB50

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

NMTB50

RIGIBORE



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	107	4.212	**NMTB50-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**NMTB50-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**NMTB50-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**NMTB50-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**NMTB50-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**NMTB50-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.659					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**NMTB50-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**NMTB50-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**NMTB50-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**NMTB50-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	**NMTB50-165**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**NMTB50-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**NMTB50-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**NMTB50-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**NMTB50-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**NMTB50-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

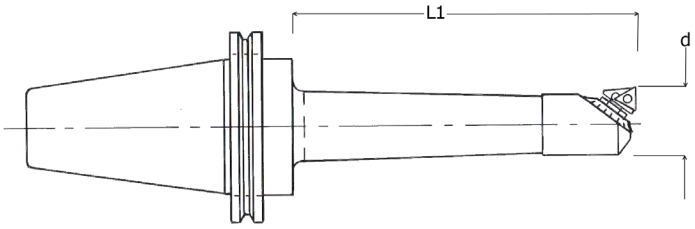
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE ISO7388 (DIN 69871A)

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

7388-40

RIGIBORE



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	**7388-40-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**7388-40-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**7388-40-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**7388-40-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**7388-40-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**7388-40-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**7388-40-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**7388-40-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**7388-40-163**	TR5A2C		TR5A295C	CC__0602__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**7388-40-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**7388-40-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**7388-40-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**7388-40-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**7388-40-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

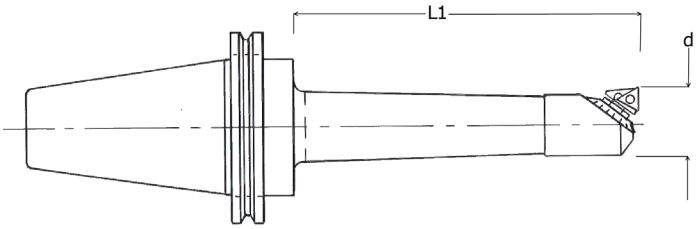
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE ISO7388 (DIN 69871A)

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

7388-50

RIGIBORE



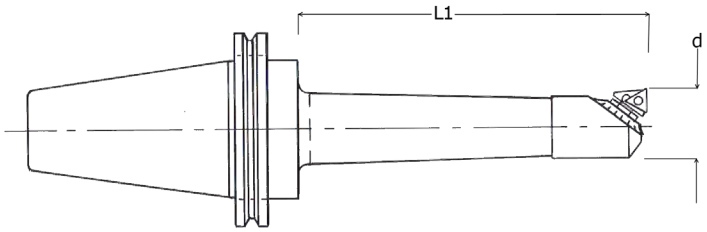
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	**7388-50-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**7388-50-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**7388-50-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**7388-50-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**7388-50-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**7388-50-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**7388-50-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**7388-50-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**7388-50-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**7388-50-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**7388-50-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**7388-50-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**7388-50-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**7388-50-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**7388-50-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**7388-50-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

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**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**ANSI-50-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**ANSI-50-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**ANSI-50-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**ANSI-50-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**ANSI-50-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**ANSI-50-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**ANSI-50-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**ANSI-50-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**ANSI-50-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**ANSI-50-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	280	11.025	**ANSI-50-165**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**ANSI-50-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**ANSI-50-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**ANSI-50-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**ANSI-50-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**ANSI-50-171**	TR10A2C		TR10A295C	CC__1204__

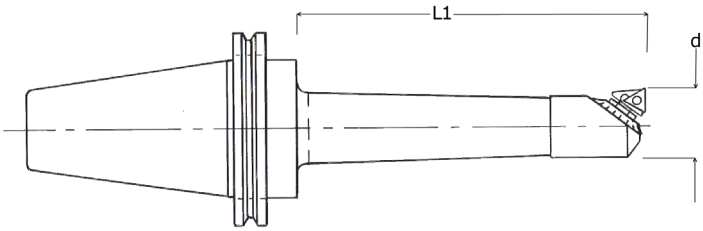
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
TYPE CAT40

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

CAT40

RIGIBORE



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**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**CAT40-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**CAT40-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**CAT40-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**CAT40-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**CAT40-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**CAT40-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**CAT40-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**CAT40-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**CAT40-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**CAT40-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**CAT40-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**CAT40-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__

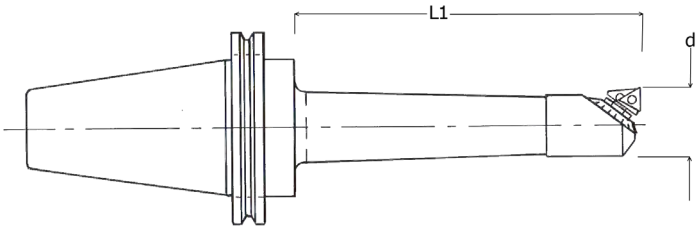
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS TYPE CAT

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

CAT50

RIGIBORE



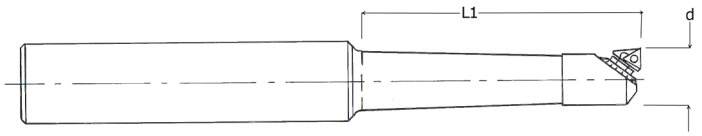
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins		90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	**CAT50-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087				TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**CAT50-155**	TR3B1			
28.0-32.0	1.103-1.260				TR3B2C			CC__0602__
28.0-35.0	1.103-1.378				TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**CAT50-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**CAT50-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771				TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**CAT50-158**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**CAT50-159**	TR5B2C			CC__0602__
					TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937					TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**CAT50-160**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**CAT50-161**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
46.5-67.8	1.831-2.673	208	8.187	**CAT50-162**	TR5A2C		TR5A295C	CC__0602__
					TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689					TR5A2L		
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		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**CAT50-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455				TR7A2C		TR7A295C	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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**CAT50-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	297	11.693	**CAT50-169**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204				TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**CAT50-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	TC__16T3__
95.3-141.3	3.752-5.562	296	11.653	**CAT50-171**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570				TR10A2	TR10A2L	TR10A295	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	107	4.212	**25SS-155**	**1.00SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**25SS-156**	**1.00SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**25SS-158**	**1.00SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673			**25SS-160**	**1.00SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
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		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**25SS-167**	**1.00SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__

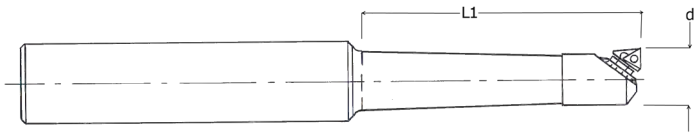
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

Specialists In Special Tools

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

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

32SS / 1.25SS



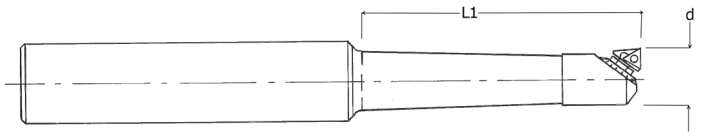
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	**32SS-154**	**1.25SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**32SS-155**	**1.25SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**32SS-156**	**1.25SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**32SS-158**	**1.25SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673			**32SS-160**	**1.25SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**32SS-163**	**1.25SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**32SS-167**	**1.25SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	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 TR (Top-adjusting) unit for finish boring

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°	
23.0-27.0	.905-1.062	87	3.425	**40SS-154**	**1.50SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**40SS-155**	**1.50SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**40SS-156**	**1.50SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**40SS-157**	**1.50SS-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**40SS-158**	**1.50SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**40SS-159**	**1.50SS-159**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**40SS-160**	**1.50SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**40SS-161**	**1.50SS-161**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**40SS-163**	**1.50SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**40SS-164**	**1.50SS-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**40SS-167**	**1.50SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**40SS-168**	**1.50SS-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**40SS-170**	**1.50SS-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570					TR10A2	TR10A2L	TR10A295	TC__16T3__

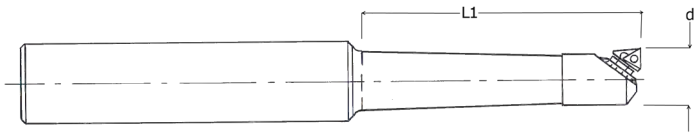
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS
PLAIN STRAIGHT SHANK

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

50SS / 2.00SS

RIGIBORE



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	**50SS-154**	**2.00SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**50SS-155**	**2.00SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**50SS-156**	**2.00SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**50SS-157**	**2.00SS-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**50SS-158**	**2.00SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**50SS-159**	**2.00SS-159**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**50SS-160**	**2.00SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**50SS-161**	**2.00SS-161**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**50SS-163**	**2.00SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**50SS-164**	**2.00SS-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**50SS-167**	**2.00SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**50SS-168**	**2.00SS-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**50SS-170**	**2.00SS-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570					TR10A2	TR10A2L	TR10A295	TC__16T3__

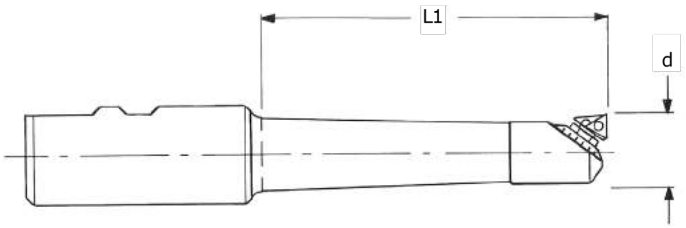
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

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

W25SS / W1.00SS

RIGIBORE



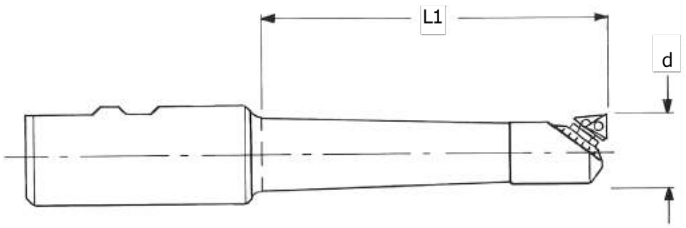
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	**W25SS-154**	**W1.00SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**W25SS-155**	**W1.00SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**W25SS-156**	**W1.00SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**W25SS-158**	**W1.00SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673			**W25SS-160**	**W1.00SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**W25SS-163**	**W1.00SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**W25SS-167**	**W1.00SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__

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

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

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

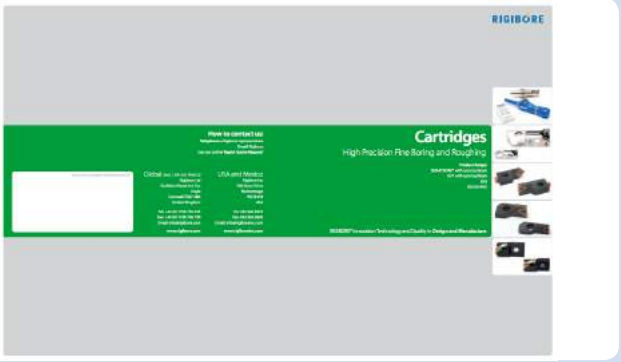
W32SS / W1.25SS



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°	
23.0-27.0	.905-1.062	87	3.425	**W32SS-154**	**W1.25SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**W32SS-155**	**W1.25SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**W32SS-156**	**W1.25SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A295	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**W32SS-158**	**W1.25SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673			**W32SS-160**	**W1.25SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**W32SS-163**	**W1.25SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**W32SS-167**	**W1.25SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__

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

Please Contact Us For Other Product Information

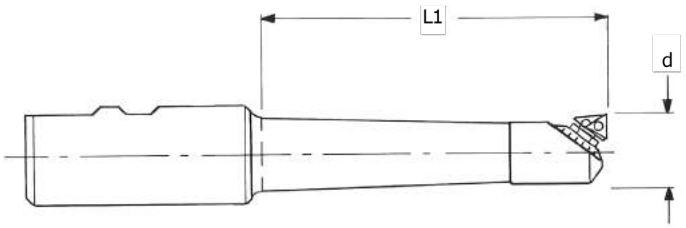


STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

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

W40SS / W1.50SS

RIGIBORE



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	**W40SS-154**	**W1.50SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**W40SS-155**	**W1.50SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.375					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**W40SS-156**	**W1.50SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A29	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**W40SS-157**	**W1.50SS-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A29	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**W40SS-158**	**W1.50SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**W40SS-159**	**W1.50SS-159**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**W40SS-160**	**W1.50SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**W40SS-161**	**W1.50SS-161**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.370	128	5.039	**W40SS-163**	**W1.50SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.370	185	7.283	**W40SS-164**	**W1.50SS-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**W40SS-167**	**W1.50SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**W40SS-168**	**W1.50SS-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
95.3-141.03	3.520-5.562	118	4.645	**W40SS-170**	**W1.50SS-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.05	3.780-5.570					TR10A2	TR10A2L	TR10A295	TC__16T3__

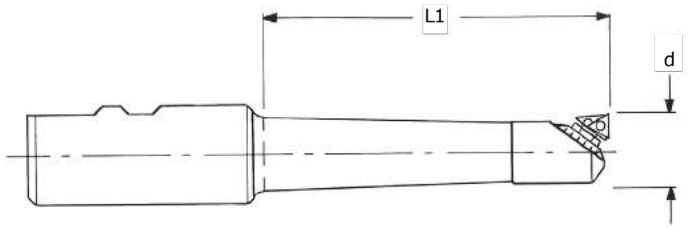
Boring bar, unit and inserts are ordered separately. Adjusting wrench is included with the boring unit.

STANDARD BORING BARS WELDON (DIN 1835B/ANSI B94-19)

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

W50SS / W2.00SS

RIGIBORE



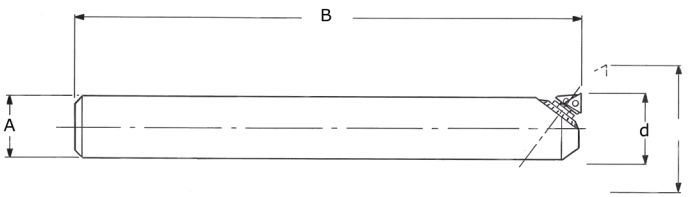
Boring Range d		Bore Depth L1		Boring Bar Ordering Code	Boring Bar Ordering Code	Boring Unit & Approach Angle			Insert
mm	ins	mm	ins	METRIC	IMPERIAL	90°	75°	95°	
23.0-27.0	.905-1.062	87	3.425	**W50SS-154**	**W2.00SS-154**		TR2B2L		TC__06T1__
23.6-27.6	.930-1.087					TR2B3			
28.0-31.0	1.103-1.220	107	4.212	**W50SS-155**	**W2.00SS-155**	TR3B1			
28.0-32.0	1.103-1.260					TR3B2C			CC__0602__
28.0-35.0	1.103-1.378					TR3B2	TR3B2L	TR3B295	TC__0902__
31.0-42.0	1.220-1.654	117	4.606	**W50SS-156**	**W2.00SS-156**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A29	TC__0902__
31.0-42.0	1.220-1.654	132	5.197	**W50SS-157**	**W2.00SS-157**	TR3A2C			CC__0602__
31.0-45.0	1.220-1.771					TR3A2	TR3A2L	TR3A29	TC__0902__
37.5-48.7	1.476-1.917	116	4.567	**W50SS-158**	**W2.00SS-158**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
37.5-48.7	1.476-1.917	173	6.811	**W50SS-159**	**W2.00SS-159**	TR5B2C			CC__0602__
						TR5B2		TR5B295	TC__1102__
38.0-49.2	1.496-1.937						TR5B2L		
46.5-67.8	1.831-2.673	116	4.567	**W50SS-160**	**W2.00SS-160**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
46.5-67.8	1.831-2.673	186	7.323	**W50SS-161**	**W2.00SS-161**	TR5A2C		TR5A295C	CC__0602__
						TR5A2		TR5A295	TC__1102__
47.0-68.3	1.850-2.689						TR5A2L		
61.5-85.6	2.422-3.870	128	5.039	**W50SS-163**	**W2.00SS-163**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
61.5-85.6	2.422-3.870	185	7.283	**W50SS-164**	**W2.00SS-164**	TR7A2	TR7A2L	TR7A295	TC__16T3__
62.2-87.8	2.450-3.455					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	119	4.685	**W50SS-167**	**W2.00SS-167**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
79.5-104.6	3.130-4.118	199	7.835	**W50SS-168**	**W2.00SS-168**	TR7A2	TR7A2L	TR7A295	TC__16T3__
81.2-106.8	3.197-4.204					TR7A2C		TR7A295C	CC__09T3__
95.3-141.3	3.752-5.562	118	4.645	**W50SS-170**	**W2.00SS-170**	TR10A2C		TR10A295C	CC__1204__
96.0-141.5	3.780-5.570					TR10A2	TR10A2L	TR10A295	TC__16T3__

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

STANDARD BORING BARS
PARALLEL BORING BARS (METRIC)

with standard R unit for roughing & semi-finishing

RIGIBORE



Boring Range D (mm)	Boring Unit & Approach Angle			Boring Bar Ordering Code	A dia	B	Insert
	90°	75°	95°				
16.70-18.25	R2B2S			16PAR-536	16	145	TC__06T102
17.40-19.00				16PAR-537			
19.00-23.00	R2B2			16PAR-540		160	
23.00-27.00		R2B2L					
23.00-31.00	R3B1			20PAR-550	20	170	
24.00-32.00	R3B2C						CC__060204
27.00-35.00	R3B2	R3B2L	R3B295				TC__090204
28.00-42.00	R3A2C			25PAR-560	25	185	CC__060204
31.00-45.00	R3A2	R3A2L	R3A295				TC__090204
37.50-48.70	R5B2C			32PAR-580	32	245	CC__060204
	R5B2		R5B295				TC__110204
38.00-49.20		R5B2L					
46.50-67.80	R5A2C		R5A295C	40PAR-600	40		CC__060204
	R5A2		R5A295				TC__110204
47.00-68.30		R5A2L					

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

ActiveEdge

Fully Automatic Boring Bar Compensation

- Automatic bore sizing
- Increase in cell productivity and throughput efficiency
- Consistent bore size control
- Increase in spindle utilisation
- Multiple edges with individual adjustment
- Reduces scrap
- Simple to set up

Bore

Pre-set tool bores hole on CNC Machine Tool.

Measure

Bored hole is measured with dedicated gauge or probe.

Automatic Adjust

Measurement is used to calculate adjustment for tool. Boring tool is wirelessly adjusted.

ActiveEdge

Remotely Adjustable Boring Bars

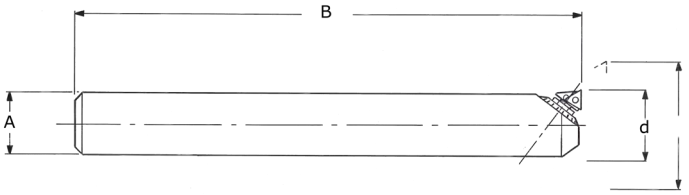
Adjust boring tools from hand held device without entering the machine.

Reduces health and safety risks

Accurate adjustments without presetter

STANDARD BORING BARS – PARALLEL BORING BARS (METRIC)

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



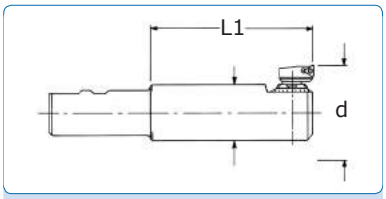
Boring Range D (mm)	Boring Unit & Approach Angle			Boring Bar Ordering Code	A dia	B	Insert
	90°	75°	95°				
23.00-27.00		TR2B2L		**16PAR-540**	16	160	TC__06T102
23.60-27.60	TR2B3						
28.00-31.00	TR3B1			**20PAR-550**	20	170	
28.00-32.00	TR3B2C						CC__060204
28.00-35.00	TR3B2	TR3B2L	TR3B295				TC__090204
31.00-42.00	TR3A2C			**25PAR-560**	25	185	CC__060204
31.00-45.00	TR3A2	TR3A2L	TR3A295				TC__090204
37.50-48.70	TR5B2C			**32PAR-580**	32	245	CC__060204
	TR5B2		TR5B295				TC__110204
38.00-49.20		TR5B2L					TC__110204
46.50-67.80	TR5A2C		TR5A295C	**40PAR-600**	40		CC__060204
	TR5A2		TR5A295				TC__110204
47.00-68.30		TR5A2L					

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

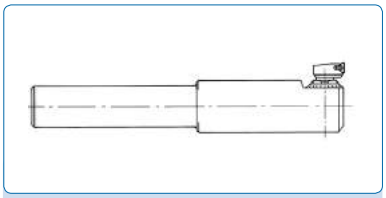
STANDARD BORING BARS

With 'F' Style Units

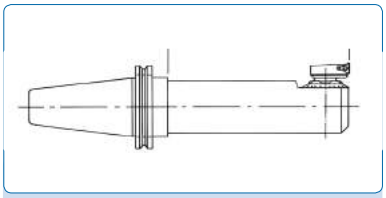
- Standard 'R' Units For Roughing & Semi-Finishing
- Top-adjusting 'TR' units for fine-finishing



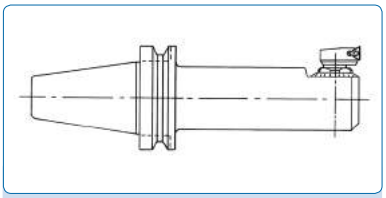
DIN 1835 Weldon mm/inch



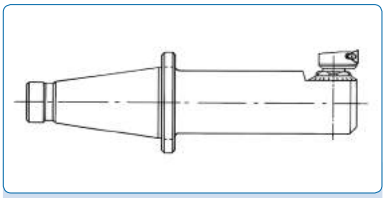
Straight Shank mm/inch



ANSIB550 / CAT / ISO7388



BT (MAS 403)



DIN 2080 / NMTB

To order, specify the shank type with the boring bar reference
For example: BT40-260-098, W25SS-495-191
***LH (Left Hand Units) are available for back boring**

Standard boring bars with 'F' style units - Top-adjusting 'TR' units for finishing

Boring Range 'd'		Boring Depth L1		Boring Unit & Approach Angle			Insert	Boring Bar Order Reference
mm	inch	mm	inch	90°	75°	95°		
26.0-37.0	1.024-1.457	98	3.858	R2F5			TC__06T1__	**SHANK TYPE-260-098**
36.3-54.5	1.429-2.145	114	4.488	R3F5			TC__0902__	**SHANK TYPE-363-114**
49.5-76.3	1.949-3.004	151	5.945	R5F5*		R5F595	TC__1102__	**SHANK TYPE-495-151**
				R5F5C*			CC__0602__	
66.5-98.5	2.618-3.878	215	8.465	R7F5*	R7F5L	R7F595	TC__16T3__	**SHANK TYPE-665-215**
			8.645	R7F5C*		R7F595C	CC__09T3__	**SHANK TYPE-662-215**
97.0-154.4	3.819-6.079	217	8.543	R10F5	R10F5L	R10F595	TC__16T3__	**SHANK TYPE-970-217**
				R10F5C		R10F595C	CC__1204__	

Boring Range 'd'		Boring Depth L1		Boring Unit & Approach Angle			Insert	Boring Bar Order Reference
mm	inch	mm	inch	90°	75°	95°		
30.0-37.0	1.181-1.457	98	3.858	TR2F5			TC__06T1__	**SHANK TYPE-260-098**
36.3-54.5	1.429-2.145	114	4.488	TR3F5			TC__0902__	**SHANK TYPE-363-114**
49.5-76.3	1.949-3.004	151	5.945	TR5F5*		TR5F595	TC__1102__	**SHANK TYPE-495-151**
				TR5F5C*			CC__0602__	
74.0-98.5	2.913-3.878	215	8.465	TR7F5*	TR7F5L	TR7F595	TC__16T3__	**SHANK TYPE-665-215**
				TR7F5C*		TR7F595C	CC__09T3__	
97.0-154.4	3.819-6.079	217	8.543	TR10F5*	TR10F5L	TR10F595	TC__16T3__	**SHANK TYPE-970-217**
				TR10F5C*		TR10F595C	CC__1204__	

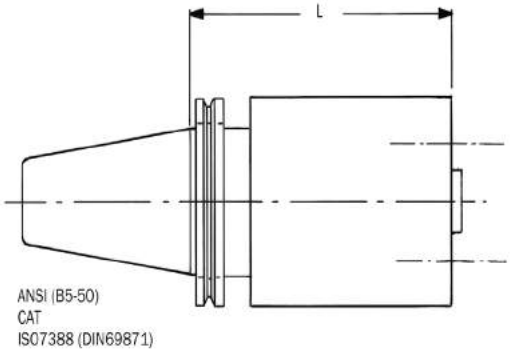
Top adjustment for units

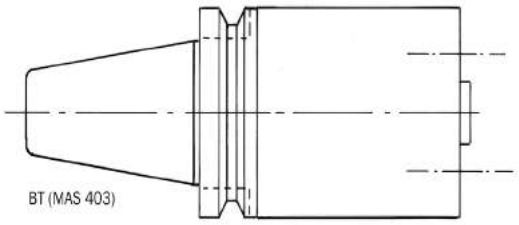
TR2	0.25mm / .010 inch
TR3	0.35mm / .014 inch
TR5	0.5mm / .020 inch
TR7	0.75mm / .030 inch
TR10	0.87mm / .034 inch

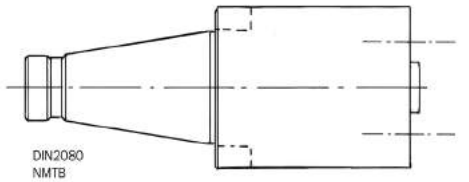
STANDARD BORING BARS AND FLANGES

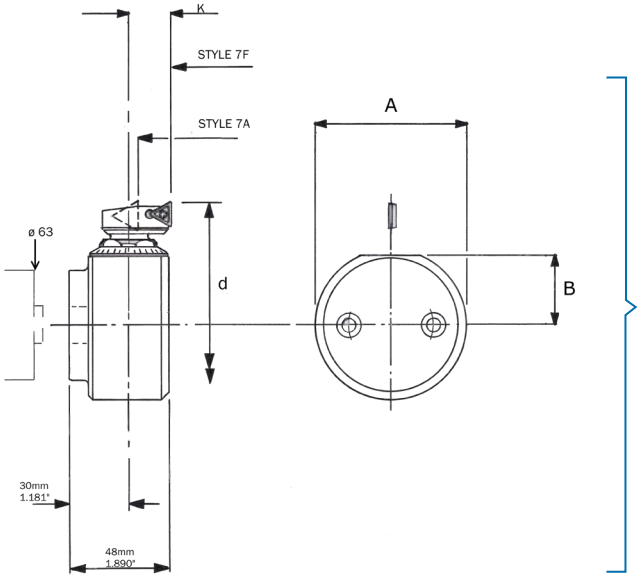
Boring flange adaptors are available on most shanks

Type 500 Boring Rings

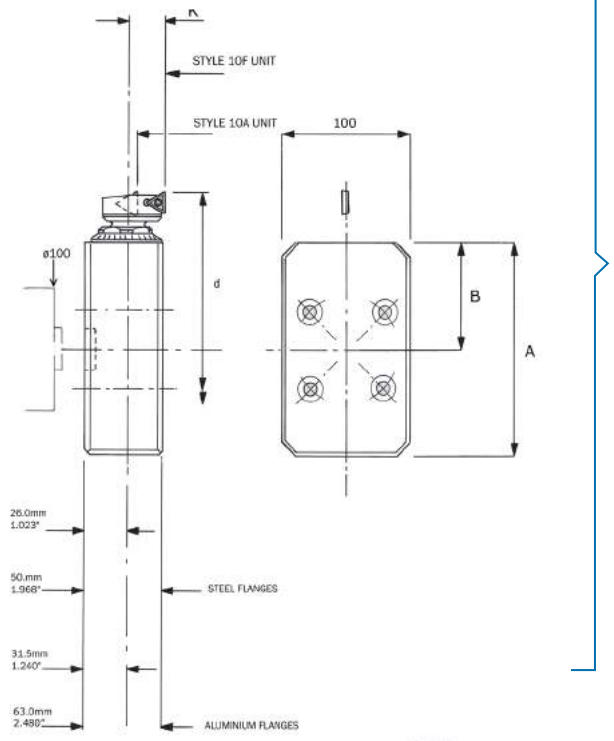








Type 300 Boring Flanges



To order, specify:

1. Flange Adaptor by Shank e.g BT50 x type e.g. F300 x Length (L) e.g. 150.

Order Reference - BT50-F300x150

2. Ring/Flange e.g F308S (Steel)

3. Boring Unit e.g. R10F5

Please note that adaptors, rings and flanges are sold separately

Type 500 Boring Rings

Boring Bar Order Reference	Boring Range 'd'		A		B	
	mm	inch	mm	inch	mm	inch
F502	80-111	3.150-4.370	48.0	1.89	14.3	0.56
F504	97-129	3.819-5.079	63.5	2.50	23.0	0.91
F506	115-146	4.528-5.748	76.0	2.99	31.8	1.25
F508	132-164	5.197-6.457	89.0	3.50	40.5	1.59

	Boring Unit & Approach Angle			K		Insert
	90°	75°	95°	mm	inch	
'R' Units	R7A5	R7A5L	R7A595	8.35	0.328	TC _ _ 16 T3 _ _
	R7F5	R7F5L	R7F595	20.00	0.787	
	R7A5C			6.35	0.250	CC _ _ 09 T3 _ _
	R7F5C		R7F595C	20.00	0.787	
'TR' Units	TR7A5	TR7A5L	TR7A595	8.35	0.328	TC _ _ 16 T3 _ _
	TR7F5	TR7F5L	TR7F595	20.00	0.787	
	TR7A5C		TR7F595C	6.35	0.250	CC _ _ 09 T3 _ _
	TR7F5C		TR7F595C	20.00	0.787	

Type 300 Boring Flanges

Boring Bar Order Reference	Boring Range 'd'		A		B	
	mm	inch	mm	inch	mm	inch
F302S	142-198	5.590-7.795	85	3.35	39.0	1.54
F303S	163-220	6.417-8.661	100	3.94	50.0	1.97
F304S	191-248	7.520-9.764	127	5.00	63.5	2.50
F304AL			116	-		
F305S	221-278	8.700-10.945	158	6.22	79.0	3.11
F305AL			147	-		
F306S	241-298	9.488-11.732	178	7.01	89.0	3.50
F306AL			167	-		
F307S	263-320	10.354-12.598	200	7.87	100.0	3.94
F307AL			189	-		
F308S	292-349	11.496-13.740	228	8.98	114.0	4.49
F308AL			217	-		
F309AL	323-380	12.716-14.960	250	-	130.0	5.12
F310AL	343-400	13.504-15.748	270	-	140.0	5.51
F311AL	373-430	14.685-16.929	300	-	155.0	6.10
F312AL	394-450	15.512-17.717	320	-	165.0	6.50

	Boring Unit & Approach Angle			K		Insert
	90°	75°	95°	mm	inch	
'R' Units	R10A5	R10A5L		9.5	.375	TC _ _ 16 T3 _ _
	R10F5	R10F5L	R10F595	25.4	1.000	
	R10A5C		R10A595C	9.5	.375	CC _ _ 1204 _ _
	R10F5C		R10F595C	25.4	1.000	
'TR' Units	TR10A5	TR10A5L		9.5	.375	TC _ _ 16 T3 _ _
	TR10F5	TR10F5L	TR10F595	25.4	1.000	
	TR10A5C		TR10A595C	9.5	.375	CC _ _ 1204 _ _
	TR10F5C		TR10595C	25.4	1.000	

RIGIBORE

Rigibore Units

Accuracy through Rigidity

A wide range of boring units

Type 'R' for roughing/semi-finishing
Type 'TR' for fine-finishing
Minimum bore 15.87mm
5 different sizes available in right and left hand

Key Features

- Unique Design incorporating a precision ground collet
- Split collet clamps to ACME type thread for accuracy and strength
- Separate graduated dial seated on top face of hole
- Rigidity maintained throughout full adjustment of unit

Key Benefits

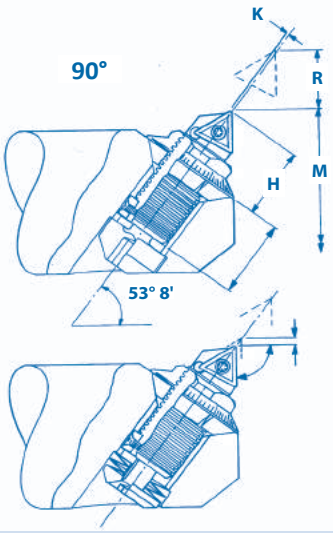
- No deflection under load on eneven or intermittent cutting
- Greater repeatability
- Longer Insert Life
- Most positive direct adjustment, high degree of rigidity, no dial slip when adjusting

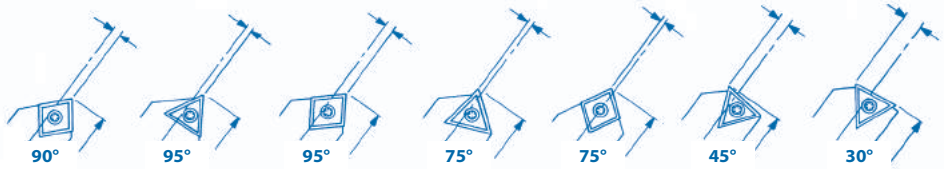
Rigibore Units built into special tools

Rigibore Units in Standard Boring Bars

'R' Units - Angular Mounted - Size 2 Units (R for roughing/semi-finishing)

Technical Specification

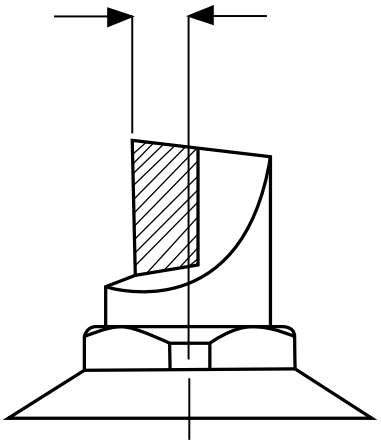




Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	20.9	0.823	0.2	0.008	4.5	0.177	9.4	0.37	1.35	0.053	TC__06T1 (02)	R2A2
												R2A2-LH
	18.2	0.716			2.0	0.079						R2B2
												R2B2-LH
	15.87	0.625			0.75	0.029						R2B2S
												R2B2S-LH
	20.9	0.823			2.0	0.079	12.6	0.496				R2B3
75°	23.0	0.905			4.5	0.177	10.0	0.393	-1.5	-0.059		R2A2L
												R2A2L-LH
	20.4	0.803			2.0	0.079						R2B2L
												R2B2L-LH
45°	22.8	0.897			4.5	0.177			-1.6	-0.063		R2A245
	20.2	0.795			2.0	0.079						R2B245

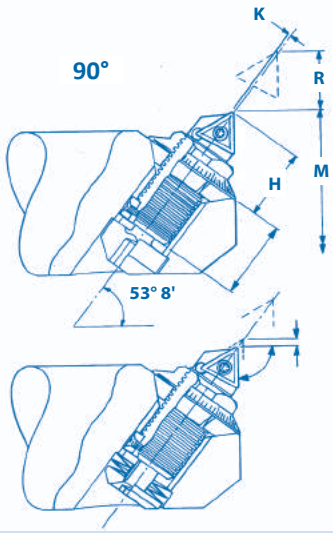


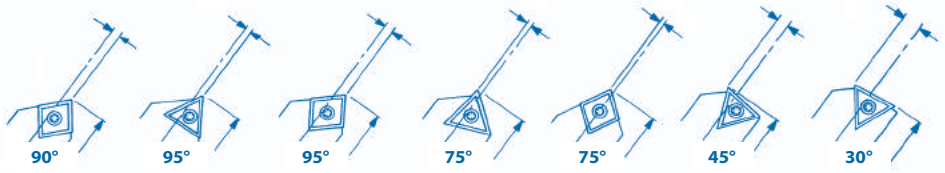
Cutting edge height (above centre-line)

Unit Size	Insert Size	Height	
		mm	inch
2	06	0.5	0.0196
3	09	0.75	0.0295
5	11	2.38	0.0937
7 & 10	16	3.97	0.1562

'R' Units - Angular Mounted - Size 3 Units (R for roughing/semi-finishing)

Technical Specification





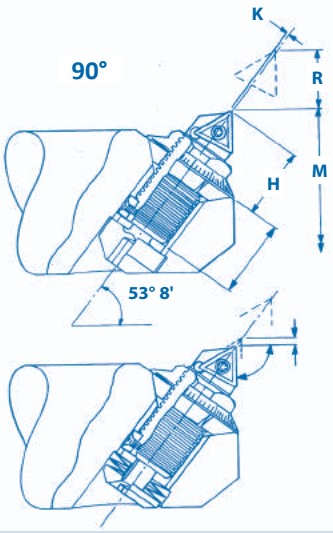
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

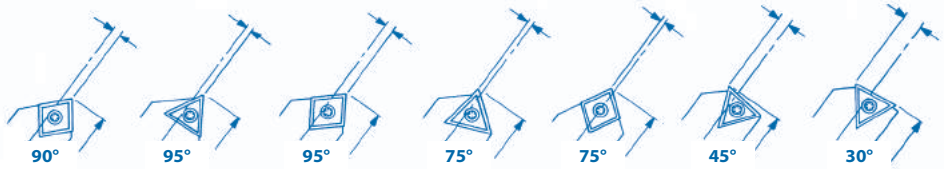
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	28.0	1.102	0.28	0.011	7.3	0.290	13.45	0.529	0.8	0.031	TC_ _ 0902 (04)	R3A2
												R3A2-LH
	25.0	0.984			4.0	0.157						R3B2
												R3B2-LH
	23.0	0.905					11.25	0.443	1.32	0.051	TC_ _ 06T1 (02)	R3B1
												R3B1-LH
	26.8	1.055			7.3	0.290	11.1	0.437	0.2	0.008	CC_ _ 0602 (04)	R3A2C
												R3A2C-LH
	23.7	0.933			4.0	0.157						R3B2C
												R3B2C-LH
	21.0	0.827			1.5	0.059						R3B2CS
95°	25.0	0.984			4.0	0.157	13.45	0.530	0.036	0.92	TC_ _ 0902 (04)	R3B295
75°	28	1.102			7.3	0.290	13.55	0.533	1.1	0.036	TC_ _ 0902 (04)	R3A2L
												R3A2L-LH
	25	0.984			4.0	0.157						R3B2L
												R3B2L-LH
	21	0.827			1.5	0.059	10.47	0.412	-0.33	-0.84	CC_ _ 0602 (04)	R3B2LCS
45°	30.4	1.197			7.3	0.287	14.5	0.571	-1.6	-0.063	TC_ _ 0902 (04)	R3A245
												R3A245-LH
	27.1	1.067			4.0	0.157						R3B245
30°	29.6	1.165			7.3	0.287	14.5	0.571				R3A230

'R' Units - Angular Mounted - Size 5 Units (R for roughing/semi-finishing)

Technical Specification





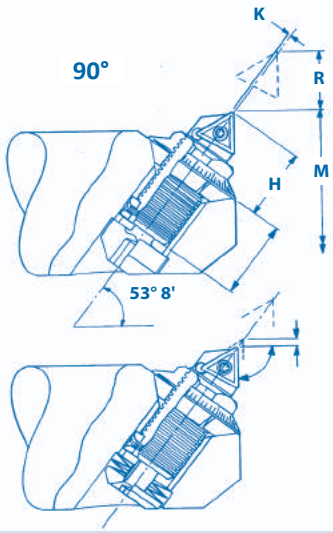
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

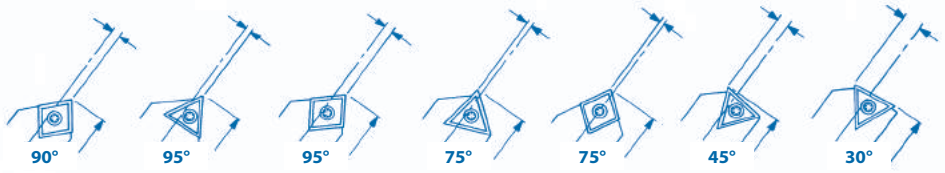
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	41.0	1.614	0.4	0.016	10.7	0.421	16.95	0.667	2.3	0.09	TC _ _ 1102 (04)	R5A2
												R5A2-LH
	36.0	1.417			5.6	0.220						R5B2
												R5B2-LH
	40.5	1.575			10.7	0.421	15.9	0.626	1.2	0.047	CC _ _ 0602 (04)	R5A2C
												R5A2C-LH
	35.4	1.394			5.6	0.220						R5B2C
												R5B2C-LH
95°	41.0	1.614			10.7	0.421	16.95	0.667	2.3	0.09	TC _ _ 1102 (04)	R5A295
	36.0	1.417										R5B295
	40.5	1.595					15.6	0.614	1.2	0.047	CC _ _ 0602 (04)	R5A295C
75°	41.0	1.614					16.55	0.625	1.3	0.051	TC _ _ 1102 (04)	R5A2L
	36.0	1.417			5.6	0.220						R5B2L
												R5B2L-LH
45°	43.0	1.693			10.7	0.421	17.0	0.669	-1.6	-0.063		R5A245
												R5A245-LH
	38.0	1.496			5.6	0.220						R5B245
												R5B245-LH
30°	41.4	1.630			10.7	0.421	16.30	0.641	-1.6	-0.063		R5A230
	36.2	1.425			5.6	0.220						R5B230

'R' Units - Angular Mounted - Size 7 Units (R for roughing/semi-finishing)

Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

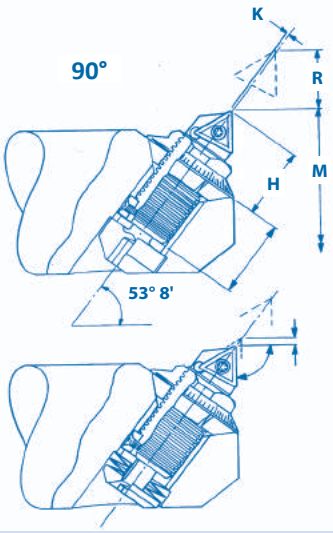
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

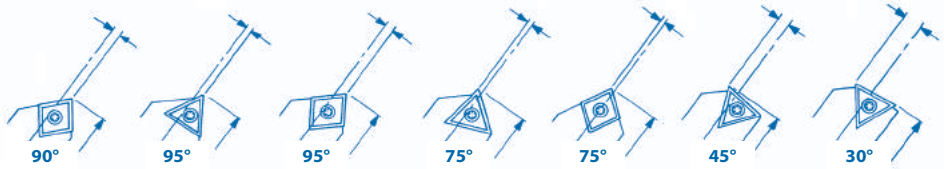
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	58.0	2.283	0.6	0.024	12.8	0.504	25.55	1.006	-0.40	-0.016	TC _ _ 16 T3 (08)	R7A2
												R7A2-LH
	53.0	2.087			8.0	0.315						R7B2
												R7B2-LH
	59.5	2.343			12.8	0.504	26.57	1.046	-1.58	-0.062	CC _ _ 09 T3 (04)	R7A2C
												R7A2C-LH
	51.5	2.027			8.0	0.315						R7B2C
												R7BC2-LH
95°	58.0	2.283	0.6	0.024	12.8	0.504	25.55	1.006	-0.26	-0.010	TC __ 16 T3 (08)	R7A295
	59.5	2.343					26.57	1.046	-1.60	-0.063	CC _ _ 09 T3 (04)	R7A295C
75°	58.0	2.283	0.6	0.024	12.8	0.504	23.40	0.921	-3.20	-0.126	TC _ _ 16 T3 (08)	R7A2L
					8.0	0.315						R7A2L-LH
	53.0	2.087										R7B2L
												R7B2L-LH
45°	63.5	2.460	0.6	0.024	12.8	0.504	25.50	1.004	-6.50	-0.256	TC _ _ 16 T3 (08)	R7A245
	57.4	2.260			8.0	0.315						R7B245

'R' Units - Angular Mounted - Size 10 Units

(R for roughing/semi-finishing)

Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

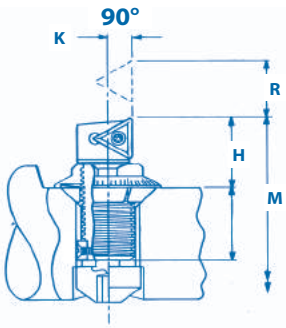
Notes:

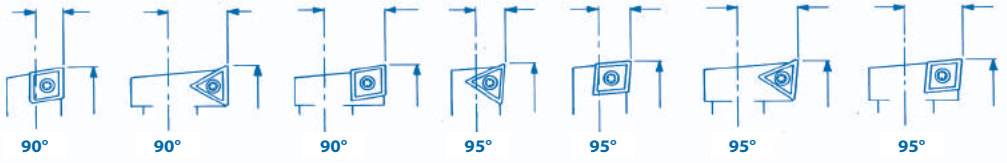
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	79.0	3.110	0.7	0.027	23.0	0.906	31.7	1.248	-0.4	-0.016	TC_ _ 16T3 (08)	R10A2
												R10A2-LH
	69.0	2.717			12.8	0.504						R10B2
												R10B2-LH
	79.0	3.110			23.0	0.906	31.24	1.23	0.79	0.031	CC_ _ 1204 (04)	R10A2C
95°	79.0	3.110					31.7	1.248	-0.26	-0.01	TC_ _ 16T3 (08)	R10A295
	69.0	2.717			12.8	0.504						R10B295
75°	79.0	3.110			23.0	0.906	31.1	1.224	-0.9	-0.035		R10A2L
												R10A2L-LH
	69.0	2.717			12.8	0.504						R10B2L
												R10B2L-LH
45°	81.0	3.189			23.0	0.906	31.8	1.252	-3.2	-0.126		R10A245

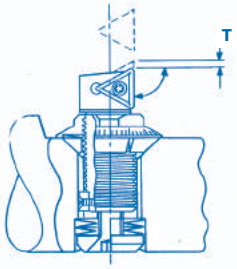
'R' Units - Square Mounted - Size 2 Units (R for roughing/semi-finishing)

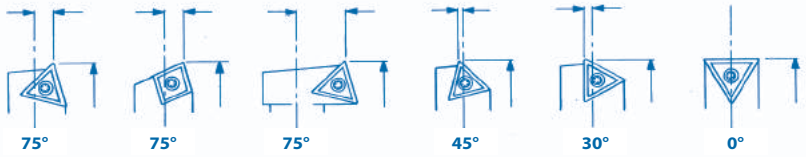
Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.



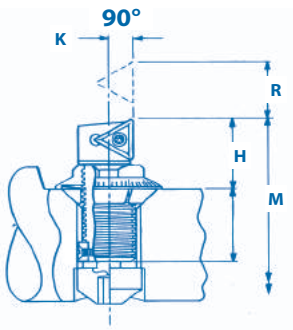


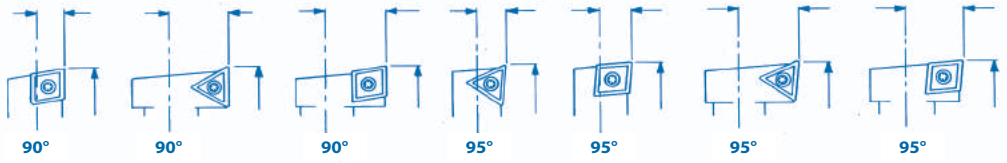
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	24.3	0.957	0.25	0.010	5.5	0.216	9.40	0.370	2.00	0.078	TC__06T1 (02)	R2A5
	24.3	0.957										R2A5-LH
	21.1	0.831			2.5	0.098						R2B5
	21.1	0.831										R2B5-LH
	24.3	0.957			5.5	0.216			7.50	0.295		R2F5
	21.1	0.831			2.5	0.098						R2F5S
75°	24.3	0.957			5.5	0.216			2.00	0.078		R2A5L
	24.3	0.957										R2A5L-LH
	21.1	0.831			2.5	0.098						R2B5L
	21.1	0.831										R2B5L-LH
45°	25.2	0.992			5.5	0.216	10.00	0.393	-0.80	-0.031		R2A245
	22.0	0.886			2.5	0.098						R2B245
0°	25.0	0.984			5.5	0.216	9.50	0.374				R2A90
	21.5	0.846			2.5	0.098						R2B90

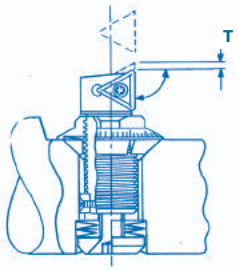
'R' Units - Square Mounted - Size 3 Units (R for roughing/semi-finishing)

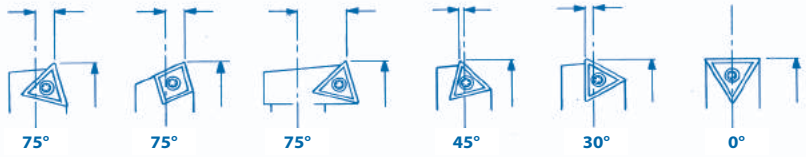
Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.





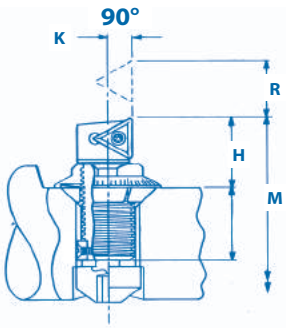
Notes:

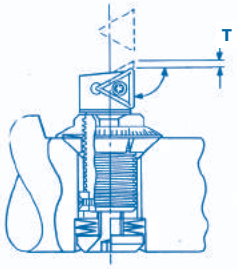
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

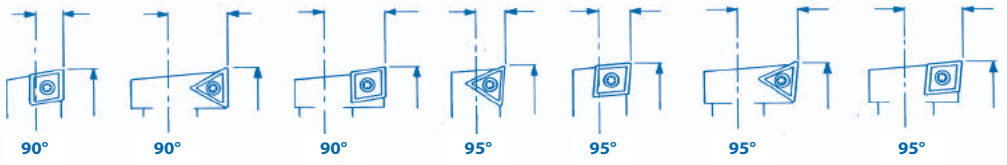
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	32.5	1.280	0.35	0.014	9.1	0.359	12.30	0.484	3.00	0.118	TC_ _ 0902 (04)	R3A5
												R3A5-LH
	28.5	1.122			5.0	0.197						R3B5
												R3B5-LH
	31.4	1.236			9.1	0.359	11.10	0.437	4.00	0.158	CC_ _ 0602 (04)	R3A5C
												R3A5C-LH
	27.7	1.090			5.0	0.197						R3B5C
												R3B5C-LH
	34.0	1.279			9.1	0.359	12.90	0.508	9.40	0.370	TC_ _ 0902 (04)	R3F5
	30.0	1.181			5.0	0.197						R3F5S
												R3F5S-LH
75°	32.5	1.279			9.1	0.359	12.30	0.484	2.00	0.079		R3A5L
												R3A5L-LH
	28.5	1.122			5.0	0.197						R3B5L
												R3B5L-LH
45°	34.7	1.367			9.1	0.358	14.50	0.571	-0.80	-0.310		R3A545
	30.7	0.827			5.0	0.197						R3B545
0°	34.0	1.338			9.1	0.358	14.00	0.551				R3A90
	30.0	1.181			5.0	0.197						R3B90

'R' Units - Square Mounted - Size 5 Units (R for roughing/semi-finishing)

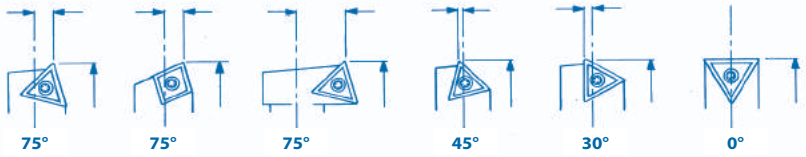
Technical Specification







Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

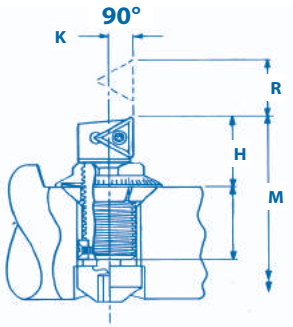


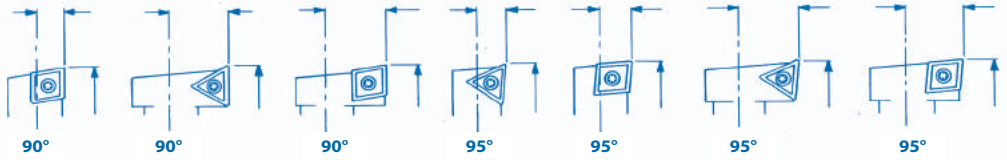
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	48.5	1.909	0.5	0.020	13.4	0.528	16.10	0.634	5.40	0.213	TC__1102 (04)	R5A5
												R5A5-LH
	42.5	1.673			7.0	0.276						R5B5
												R5B5-LH
	49.4	1.965			13.4	0.528	15.90	0.628			CC__0602 (04)	R5A5C
												R5A5C-LH
	43.0	1.693			7.0	0.276						R5B5C
	48.5	1.906			13.4	0.528	16.10	0.634	15.00	0.591	TC__1102 (04)	R5F5
												R5F5-LH
	42.5	1.673			7.0	0.276						R5F5S
	49.4	1.965			13.4	0.528	15.90	0.628			CC__0602 (04)	R5F5C
												R5F5C-LH
95°	48.5	1.910					16.10	0.634			TC__1102 (04)	R5F595
75°							16.10	0.634	3.20	0.126		R5A5L
												R5A5L-LH
	42.5	1.673			7.0	0.276						R5B5L
	49.6											R5B5L-LH
45°	49.6	1.953			13.4	0.528			-1.60	-0.063		R5A545
												R5A545-LH
	43.2	1.819			7.0	0.275						R5B545
0°	49.5	1.949			13.4	0.528						R5A90
	43.1	1.697			7.0	0.276						R5B90

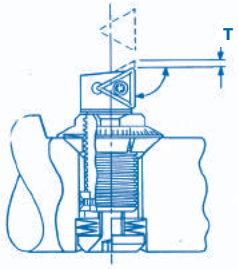
'R' Units - Square Mounted - Size 7 Units (R for roughing/semi-finishing)

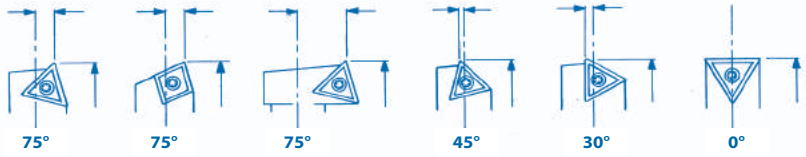
Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.





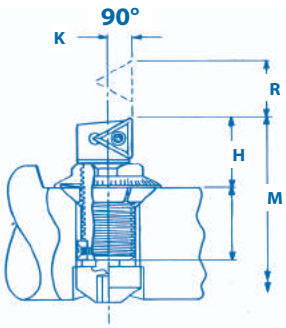
Notes:

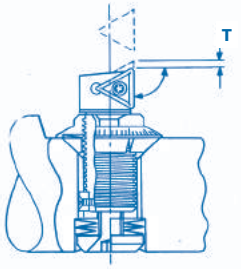
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

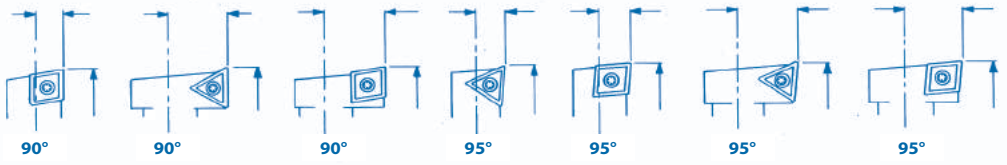
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	70.5	2.775	0.75	0.030	16.0	0.630	25.50	1.004	8.35	0.329	TC__16T3 (08)	R7A5
												R7A5-LH
	64.0	2.520			10.0	0.394						R7B5
												R7B5-LH
	70.5	2.775			16.0	0.630	25.40	1.000	6.35	0.250	CC__09T3 (04)	R7A5C
	64.0	2.520			10.0	0.394						R7B5C
	70.5	2.775			16.0	0.630	25.50	1.004	20.00	0.787	TC__16T3 (08)	R7F5
												R7F5-LH
							25.40	1.000			CC__09T3 (08)	R7F5C
												R7F5C-LH
95°	70.5	2.775			16.0	0.630	25.50	1.004	8.47	0.333		R7A595
75°	70.5	2.775			16.0	0.630	25.50	1.004	6.20	0.244		R7A5L
												R7A5L-LH
	64.0	2.520			10.0	0.394						R7B5L
												R7B5L-LH
	70.5	2.775			16.0	0.630			15.80	0.622	TC__16T3 (08)	R7F5L
45°	70.8	2.787			16.0	0.630	25.50	1.004	-1.60	-0.063		R7A545
	64.4	2.535			10.0	0.394						R7B545
30°	70.5	2.775			16.0	0.630	25.50	1.004	-1.60	-0.063		R7A530
0°	66.0	2.600			16.0	0.630	23.00	0.920				R7A90
	59.5	2.342			10.0	0.394						R7B90

'R' Units - Square Mounted - Size 10 Units (R for roughing/semi-finishing)

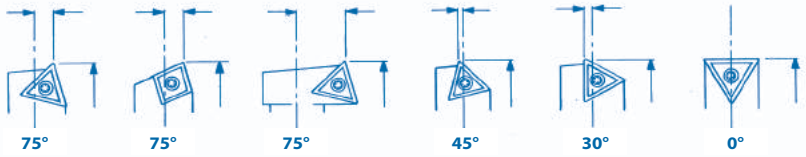
Technical Specification







Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

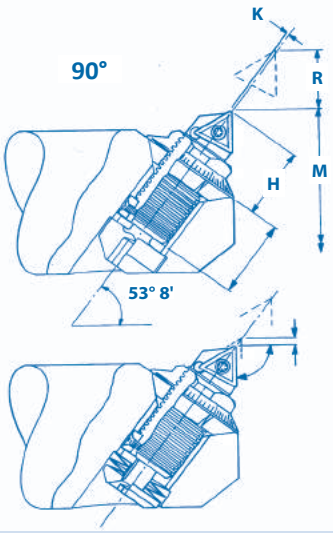


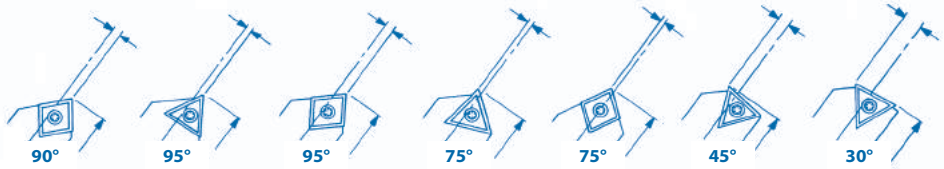
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	96.0	3.780	0.87	0.034	28.7	1.130	31.80	1.252	9.50	0.374	TC_ _ 16T3 (08)	R10A5
												R10A5-LH
	83.5	3.287			16.0	0.630						R10B5
												R10B5-LH
	96.0	3.780			28.7	1.130	31.75	1.250			CC_ _ 1204 (04)	R10A5C
	83.5	3.287			16.0	0.630						R10B5C-LH
	96.0	3.780			28.7	1.130	31.80	1.252	25.40	1.000	TC_ _ 16T3 (08)	R10F5
												R10F5-LH
							31.75	1.250			CC_ _ 1204 (04)	R10F5C
95°									9.54	0.376	TC_ _ 16T3 (08)	R10A595C
									25.52	1.005		R10F595
									25.44	1.002	CC_ _ 1204 (04)	R10F595C
												R10F595C-LH
75°							31.80	1.252	4.80	0.189	TC_ _ 16T3 (08)	R10A5L
												R10A5L-LH
	83.5	3.287			16.0	0.630						R10B5L
												R10B5L-LH
	96.0	3.780			28.7	1.130			20.35	0.801		R10F5L
45°	97.0	3.819			28.7	1.130	31.80	1.252	-1.60	-0.063		R10A545
												R10A545-LH
	84.0	3.307			16.0	0.630						R10B545
0°	93.0	3.660			28.7	1.130	28.60	1.126				R10A90
	80.5	3.170			16.0	0.630						R10B90

'TR' Units - Angular Mounted - Size 2 Units (TR for fine-finishing)

Technical Specification





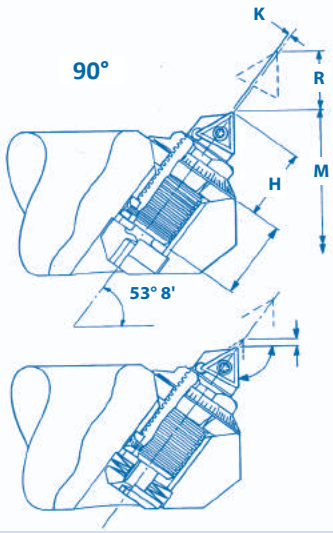
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

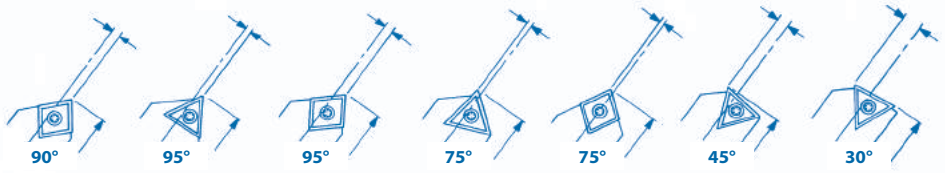
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	23.60	0.930	0.2	0.008	4.5	0.177	9.4	0.370	1.35	0.053	TC__06T1 (02)	TR2A2
												TR2A2-LH
	20.90	0.823			2.0	0.079						TR2B2
												TR2B2-LH
	18.57	0.731			0.75	0.029						TR2B2S
												TR2B2S-LH
	23.60	0.929			2.0	0.079	12.6	0.496				TR2B3
75°	25.70	1.011			4.5	0.177	10.0	0.394	-1.50	-0.059		TR2A2L
												TR2A2L-LH
	23.10	0.909			2.0	0.079						TR2B2L
												TR2B2L-LH
45°	25.30	0.995			4.5	0.177			-1.60	-0.063		TR2A245
	22.80	0.897			2.0	0.079						TR2B245

'TR' Units - Angular Mounted - Size 3 Units (TR for fine-finishing)

Technical Specification





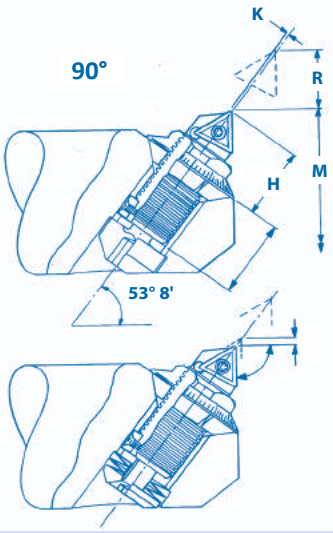
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

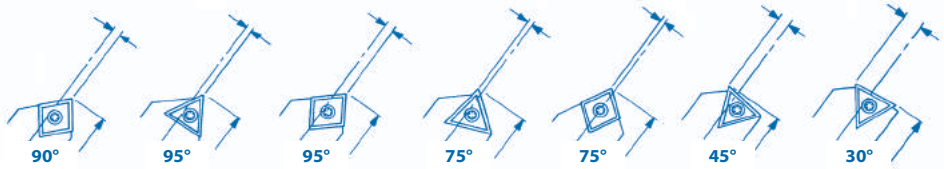
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	30.8	1.212	0.28	0.011	7.3	0.290	13.45	0.529	0.8	0.031	TC__0902 (04)	TR3A2
												TR3A2-LH
	27.6	1.087			4.0	0.157						TR3B2
												TR3B2-LH
	25.6	1.008										TR3B1
							11.25	0.443	1.32	0.051	TC__06T1 (02)	TR3B1-LH
	29.2	1.149			7.3	0.290	11.10	0.437	0.2	0.008	CC__0602 (04)	TR3A2C
												TR3A2C-LH
	26.1	1.027			4.0	0.157						TR3B2C
												TR3B2C-LH
	26.25	1.033			1.5	0.059						TR3B2CS
75°	30.7	1.209			7.3	0.290	13.55	0.533	1.1	0.036	TC__0902 (04)	TR3A2L
												TR3A2L-LH
	27.5	1.083			4.0	0.157						TR3B2L
												TR3B2L-LH
	26.25	1.033			1.5	0.059	10.47	0.412	-0.33	-0.840	CC__0602 (04)	TR3B2LSC
45°	32.9	1.295			7.3	0.287	14.50	0.571	-1.6	-0.063	TC__0902 (04)	TR3A245
												TR3A245-LH
	29.6	1.165			4.0	0.157						TR3B245
30°	32.2	1.268			7.3	0.287						TR3A230

'TR' Units - Angular Mounted - Size 5 Units (TR for fine-finishing)

Technical Specification





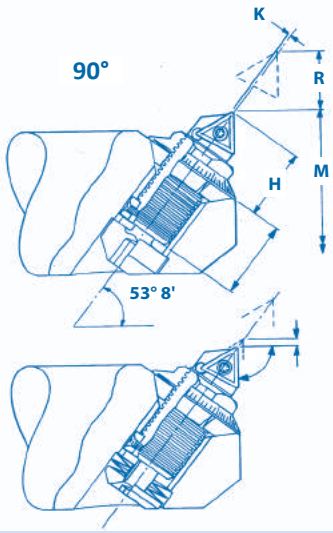
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

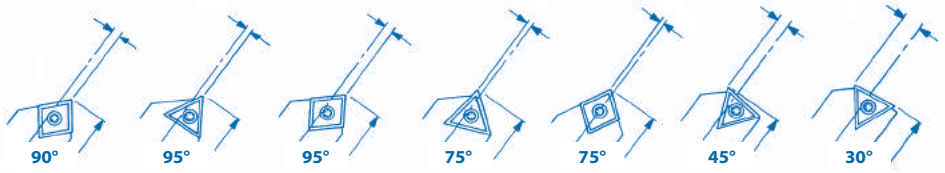
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	41.5	1.634	0.4	0.016	10.7	0.421	16.95	0.667	2.3	0.090	TC_ _ 1102 (04)	TR5A2
												TR5A2-LH
	36.5	1.437			5.6	0.220						TR5B2
												TR5B2-LH
	41.0	1.614			10.7	0.421	15.90	0.626	1.2	0.047	CC_ _ 0602 (04)	TR5A2C
												TR5A2C-LH
	35.9	1.413			5.6	0.220						TR5B2C
												TR5B2C-LH
95°	41.5	1.634			10.7	0.421	16.95	0.667	2.3	0.090	TC_ _ 1102 (04)	TR5A295
	36.5	1.437			5.6	0.220						TR5B295
	41.0	1.614			10.7	0.421	15.60	0.614	1.2	0.047	CC_ _ 0602 (04)	TR5A295C
75°	41.5	1.634			10.7	0.421	16.55	0.625	1.3	0.051	TC_ _ 1102 (04)	TR5A2L
	36.5	1.437			5.6	0.220						TR5B2L
												TR5B2L-LH
45°	43.5	1.712			10.7	0.421	17.00	0.669	-1.6	-0.063		TR5A245
												TR5A245-LH
	38.5	1.516			5.6	0.220						TR5B245
												TR5B245-LH
30°	42.0	1.654			10.7	0.421	16.30	0.641	-1.6	-0.063		TR5A230
	36.8	1.449			5.6	0.220						TR5B230

'TR' Units - Angular Mounted - Size 7 Units (TR for fine-finishing)

Technical Specification





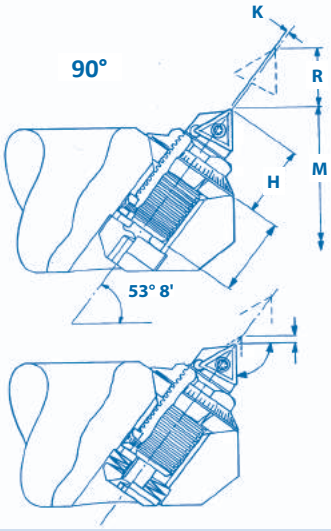
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

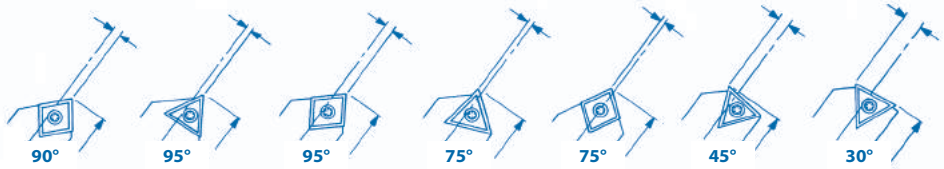
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	61.5	2.421	0.6	0.024	12.8	0.504	25.55	1.006	-0.40	-0.016	TC__16T3 (08)	TR7A2
												TR7A2-LH
	57.0	2.244			8.0	0.315						TR7B2
												TR7B2-LH
	61.0	2.401			12.8	0.504	26.57	1.046	-1.58	-0.062	CC___09T3(04)	TR7A2C
												TR7A2C-LH
	55.9	2.201			8.0	0.315						TR7B2C
												TR7B2C-LH
95°	59.5	2.343			12.8	0.504	25.55	1.006	-0.26	-0.010	TC__16T3 (08)	TR7A295
	61.0	2.401					26.57	1.046	-1.60	-0.063	CC__09T3 (04)	TR7A295C
75°	61.5	2.421			12.8	0.504	23.40	0.921	-3.20	-0.126	TC__16T3 (08)	TR7A2L
												TR7A2L-LH
	57.0	2.244			8.0	0.315						TR7B2L
												TR7B2L-LH
45°	63.9	2.516			12.8	0.504	25.50	1.004	-6.50	-0.256		TR7A245
	58.8	2.315			8.0	0.315						TR7B245

'TR' Units - Angular Mounted - Size 10 Units (TR for fine-finishing)

Technical Specification





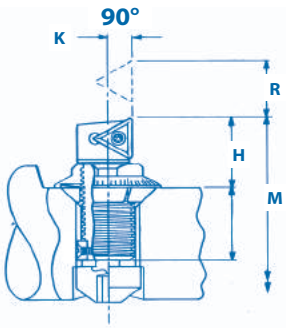
Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

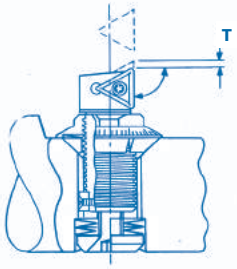
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

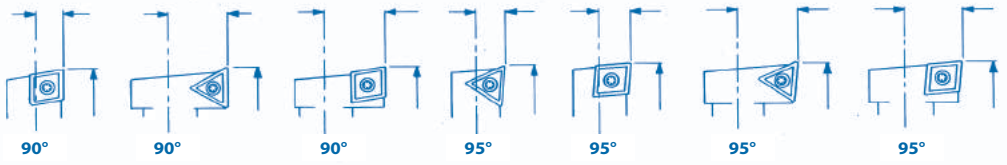
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	81.5	3.209	0.7	0.027	23.0	0.906	31.70	1.248	-0.40	-0.016	TC_ _ 16T3 (08)	TR10A2
												TR10A2-LH
	71.5	2.815			12.8	0.504						TR10B2
												TR10B2-LH
	81.5	3.209			23.0	0.906	31.24	1.230	0.79	0.031	CC_ _ 1204 (04)	TR10A2C
95°	81.5	3.209			23.0	0.906	31.70	1.248	-0.26	-0.010	TC_ _ 16T3 (08)	TR10A295
	71.5	2.815			12.8	0.504						TR10B295
75°	81.5	3.209			23.0	0.906	31.10	1.224	-0.90	-0.035		TR10A2L
												TR10A2L-LH
	71.5	2.815			12.8	0.504						TR10B2L
												TR10B2L-LH
45°	84.0	3.307			23.0	0.906	31.80	1.252	-3.20	-0.126		TR10A245

'TR' Units - Square Mounted - Size 2 Units (TR for fine-finishing)

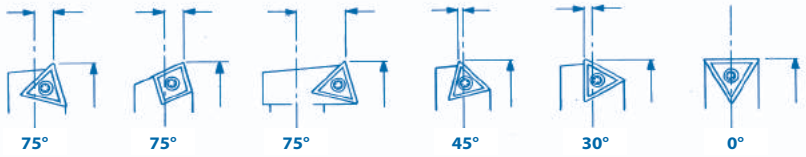
Technical Specification







Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.



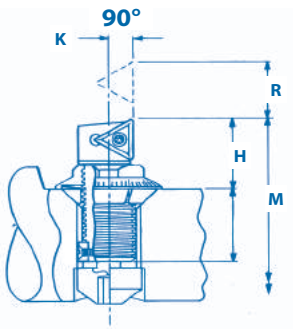
Notes:

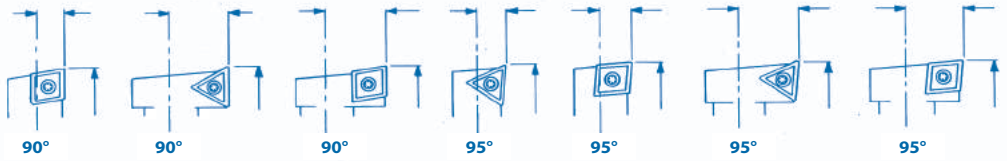
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	27.60	1.087	0.25	0.010	5.5	0.216	9.40	0.370	2.0	0.078	TC__06T1 (02)	TR2A5
												TR2A5-LH
	24.40	0.961			2.5	0.098						TR2B5
												TR2B5-LH
	27.60	1.087			5.5	0.216			7.5	0.295		TR2F5
	24.40	0.961			2.5	0.098						TR2F5S
75°	27.60	1.087			5.5	0.216	9.40	0.370	2.0	0.078		TR2A5L
												TR2A5L-LH
	24.40	0.961			2.5	0.098						TR2B5L
												TR2B5L-LH
45°	28.40	1.118			5.5	0.216	10.00	0.393	-0.8	-0.031		TR2A245
	25.20	0.992			2.5	0.098						TR2B245
0°	28.00	1.102			5.5	0.216	9.50	0.374				TR2A90
	25.00	0.984			2.5	0.098						TR2B90

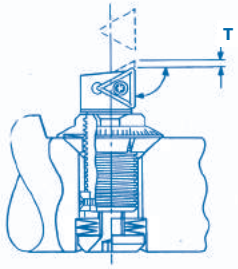
'TR' Units - Square Mounted - Size 3 Units (TR for fine-finishing)

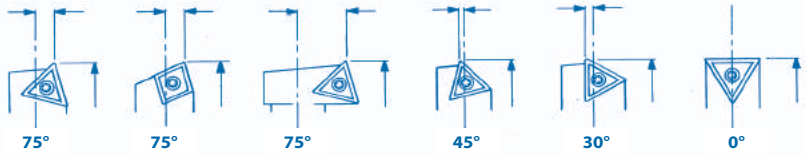
Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.





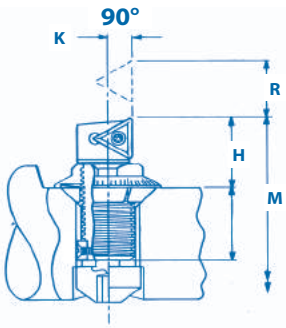
Notes:

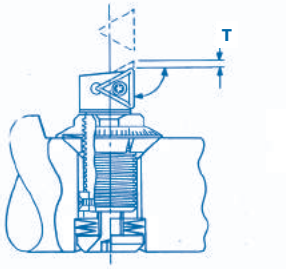
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

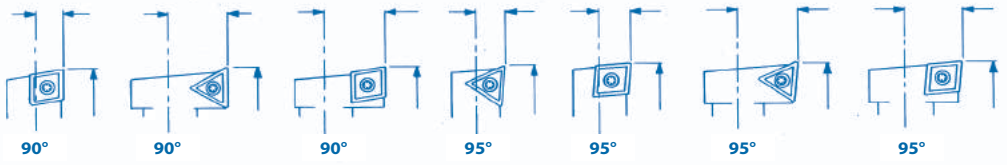
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	35.1	1.382	0.35	0.014	9.1	0.359	12.3	0.484	3.0	0.118	TC_ _ 0902 (04)	TR3A5
												TR3A5-LH
	31.1	1.224			5.0	0.197						TR3B5
												TR3B5-LH
	34.0	1.338			9.1	0.359	11.1	0.437	4.0	0.158	CC_ _ 0602 (04)	TR3A5C
												TR3A5C-LH
	30.0	1.181			5.0	0.197						TR3B5C
												TR3B5C-LH
	36.5	1.437			9.1	0.359	12.9	0.508	9.4	0.370	TC_ _ 0902 (04)	TR3F5
	32.5	1.279			5.0	0.197						TR3F5S
												TR3F5S-LH
75°	35.1	1.381			9.1	0.359	12.3	0.484	2.0	0.079		TR3A5L
												TR3A5L-LH
	31.1	1.224			5.0	0.197						TR3B5L
												TR3B5L-LH
45°	37.2	1.465			9.1	0.358	14.5	0.571	-0.8	-0.310		TR3A545
	33.2	1.307			5.0	0.197						TR3B545
0°	36.5	1.437			9.1	0.358	14.0	0.551				TR3A90
	32.5	1.279			5.0	0.197						TR3B90

'TR' Units - Square Mounted - Size 5 Units (TR for fine-finishing)

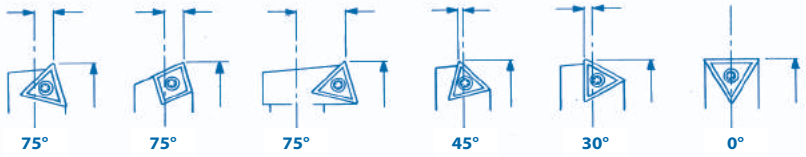
Technical Specification







Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

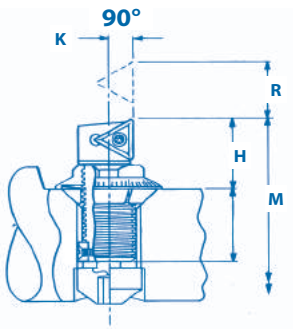


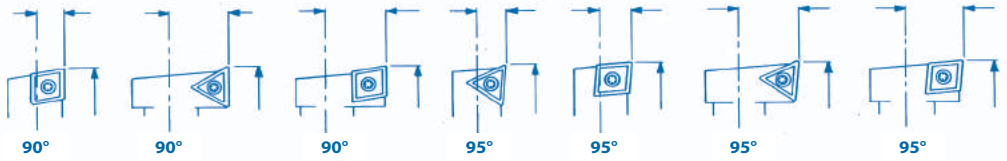
Notes:
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	48.0	1.890	0.50	0.020	13.4	0.528	16.1	0.634	5.4	0.213	TC__1102 (04)	TR5A5
												TR5A5-LH
	41.5	1.634			7.0	0.276						TR5B5
												TR5B5-LH
	49.4	1.965			13.4	0.528	15.9	0.628			CC__0602 (04)	TR5A5C
												TR5A5C-LH
	43.0	1.693			7.0	0.276						TR5B5C
	48.0	1.890			13.4	0.528	16.1	0.634	15.0	0.591	TC__1102 (04)	TR5F5
												TR5F5-LH
	41.5	1.634			7.0	0.276						TR5F5S
	49.4	1.965			13.4	0.528	15.9	0.626			CC__0602 (04)	TR5F5C
												TR5F5C-LH
95°	48.0	1.890			13.4	0.528	16.1	0.634			TC__1102 (04)	TR5F595
75°	48.0	1.890			13.4	0.528			3.2	0.126		TR5A5L
												TR5A5L-LH
	41.5	1.634			7.0	0.275						TR5B5L
												TR5B5L-LH
45°	48.8	1.921			13.4	0.528			-1.6	-0.063		TR5A545
												TR5A545-LH
	42.4	1.661			7.0	0.275						TR5B545
0°	48.7	1.917			13.4	0.528						TR5A90
	42.3	1.665			7.0	0.275						TR5B90

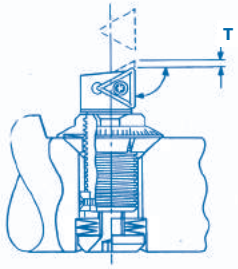
'TR' Units - Square Mounted - Size 7 Units (TR for fine-finishing)

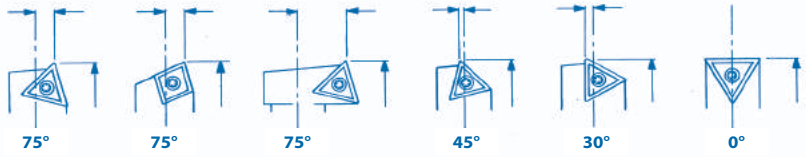
Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.





Notes:

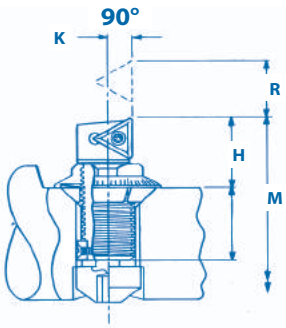
1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

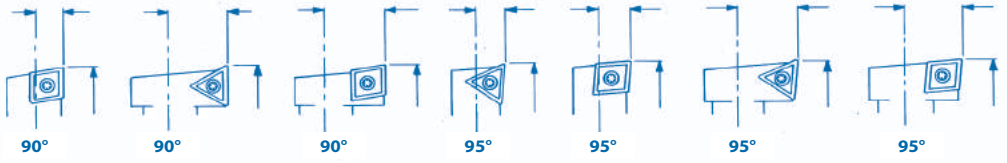
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	70.5	2.775	0.75	0.030	16.0	0.630	25.5	1.004	8.35	0.329	TC__16T3 (08)	TR7A5
												TR7A5-LH
	64.0	2.250			10.0	0.394						TR7B5
												TR7B5-LH
	70.5	2.775			16.0	0.630	25.4	1.000	6.35	0.250	CC__09T3 (04)	TR7A5C
					10.0	0.394						TR7B5C
					16.0	0.630	25.5	1.004	20.00	0.787	TC__16T3 (08)	TR7F5
												TR7F5-LH
							25.4	1.000			CC__09T3 (04)	TR7F5C
												TR7F5C-LH
95°	70.5	2.775			16.0	0.630	25.5	1.004	8.47	0.333	TC__16T3 (08)	TR7A595
									6.20	0.244		TR7A5L
												TR7A5L-LH
75°	64.0	2.520			10.0	0.394						TR7B5L
												TR7B5L-LH
	70.5	2.775			16.0	0.630			15.80	0.622		TR7F5L
45°	69.2	2.724			16.0	0.630			-1.60	-0.063		TR7A545
	62.8	2.472			100	0.393						TR7B545
30°	70.5	2.775			16.0	0.630						TR7A530
0°	66.0	2.600			16.0	0.630	23.0	0.920				TR7A590
	59.5	2.342			100	0.394						TR7A590

'TR' Units - Square Mounted - Size 10 Units

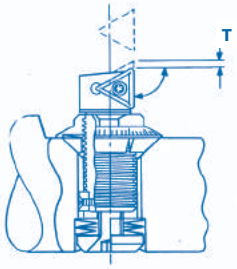
(TR for fine-finishing)

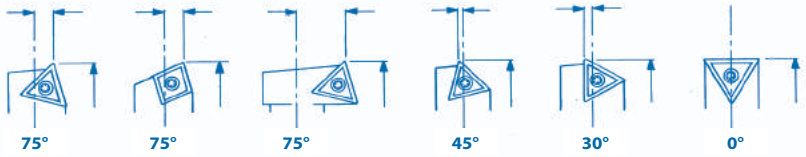
Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.





Notes:

1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adjustment		H Min Height		K Tool Point Offset		Insert & Datum Rad	Part Number
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	96.0	3.780	0.87	0.034	28.7	1.130	31.80	1.252	9.5	0.374	TC__16T3 (08)	TR10A5
												TR10A5-LH
	83.5	3.287			16.0	0.630						TR10B5
												TR10B5-LH
	96.0	3.780			28.7	1.130	31.75	1.250			CC__1204 (04)	TR10A5C
	83.5	2.87			16.0	0.630						TR10B5C-LH
	96.0	3.780			28.7	1.130	31.80	1.252	25.4	1.000	TC__16T3 (08)	TR10F5
												TR10F5-LH
							31.75	1.250			CC__1204 (04)	TR10F5C
95°	96.0	3.780							9.54	0.376	CC__1204 (04)	TR10A595C
									25.52	1.005	TC__16T3 (08)	TR10F595
									25.44	1.002	CC__1204 (04)	TR10F595C
												TR10F595C-LH
75°	96.0	3.780					31.80	1.252	4.8	0.189	TC__16T3 (08)	TR10A5L
												TR10A5L-LH
	83.5	3.287			16.0	0.630						TR10B5L
												TR10B5L-LH
	96.0	3.780			28.7	1.130			20.35	0.801		TR10F5L
45°	95.0	3.740					31.80	1.252	-1.6	-0.063		TR10A545
												TR10A545-LH
	84.0	3.307			16.0	0.630						TR10B545
0°	80.5	3.170			28.7	1.130	28.60	1.126				TR10A90
					16.0	0.630						TR10B90

Rigibore Units

Spares and Accessories


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 2 Units - Angular Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R2A2	R20A2	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A2	R20A2	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2A2-LH	R20A2-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A2-LH	R20A2-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B2	R20B2	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B2	R20B2	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2B2-LH	R20B2-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B2-LH	R20B2-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2B2S	R20B2S	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23BS	
TR2B2S	R20B2S	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BS		R29
R2B2S-LH	R20B2S-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23BS	
TR2B2S-LH	R20B2S-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BS		R29
R2B3	R20B3	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B3	R20B3	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2A2L	R20A2L	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A2L	R20A2L	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2A2L-LH	R20A2L-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A2L-LH	R20A2L-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B2L	R20B2L	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B2L	R20B2L	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2B2L-LH	R20B2L-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B2L-LH	R20B2L-LH	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2A245	R20A245	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A245	R20A245	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B245	R20B245	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B245	R20B245	R212	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 3 Units - Angular Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R3A2	R30A2	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A2	R30A2	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3A2-LH	R30A2-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A2-LH	R30A2-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B2	R30B2	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B2	R30B2	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3B2-LH	R30B2-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B2-LH	R30B2-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3B1	R30B1	R312	R32	R35	R34	R36	R38	R37	R37D	RS2045		R33B	
TR3B1	R30B1	R312	R32	R35	R34	R36	R38	R37	R37D	RS2045	R33BT		R39
R3B1-LH	R30B1-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2045		R33B	
TR3B1-LH	R30B1-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2045	R33BT		R39
R3A2C	R30A2C	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33A	
TR3A2C	R30A2C	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33AT		R39
R3A2C-LH	R30A2C-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33A	
TR3A2C-LH	R30A2C-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33AT		R39
R3B2C	R30B2C	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B2C	R30B2C	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33BT		R39
R3B2C-LH	R30B2C-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B2C-LH	R30B2C-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33BT		R39
R3B2CS	R30B2CS	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B2CS	R30B2CS	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33BT		R39
R3B295	R30B295	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B295	R30B295	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3A2L	R30A2L	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A2L	R30A2L	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3A2L-LH	R30A2L-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A2L-LH	R30A2L-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B2L	R30B2L	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B2L	R30B2L	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3B2L-LH	R30B2L-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B2L-LH	R30B3L-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3B2LSC	R30B2LSC	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B2LSC	R30B2LSC	R312	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33BT		R39
R3A245	R30A245	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A245	R30A245	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3A245-LH	R30A245-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A245-LH	R30A245-LH	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B245	R30B245	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B245	R30B245	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3A230	R30A230	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A230	R30A230	R312	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 5 Units - Angular Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R5A2	R50A2	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A2	R50A2	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A2-LH	R50A2-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A2-LH	R50A2-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B2	R50B2	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B2	R50B2	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5B2-LH	R50B2-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B2-LH	R50B2-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A2C	R50A2C	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A2C	R50A2C	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A2C-LH	R50A2C-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A2C-LH	R50A2C-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B2C	R50B2C	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B2C	R50B2C	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5B2C-LH	R50B2C-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B2C-LH	R50B2C-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A295	R50A295	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A295	R50A295	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B295	R50B295	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B295	R50B295	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A295C	R50A295C	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A295C	R50A295C	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A2L	R50A2L	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A2L	R50A2L	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B2L	R50B2L	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B2L	R50B2L	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5B2L-LH	R50B2L-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B2L-LH	R50B2L-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A245	R50A245	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A245	R50A245	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A245-LH	R50A245-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A245-LH	R50A245-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B245	R50B245	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B245	R50B245	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5B245-LH	R50B245-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B245-LH	R50B245-LH	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A230	R50A230	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55A	
TR5A230	R50A230	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B230	R50B230	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560		R55B	
TR5B230	R50B230	R512	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 7 Units - Angular Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R7A2	R70A2	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A2	R70A2	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A2-LH	R70A2-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A2-LH	R70A2-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B2	R70B2	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B2	R70B2	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7B2-LH	R70B2-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B2-LH	R70B2-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7A2C	R70A2C	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A2C	R70A2C	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A2C-LH	R70A2C-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A2C-LH	R70A2C-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B2C	R70B2C	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B2C	R70B2C	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7B2C-LH	R70B2C-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B2C-LH	R70B2C-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7A295	R70A295	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A295	R70A295	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A295C	R70A295C	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A295C	R70A295C	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A2L	R70A2L	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A2L	R70A2L	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A2L-LH	R70A2L-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A2L-LH	R70A2L-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B2L	R70B2L	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B2L	R70B2L	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7B2L-LH	R70B2L-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B2L-LH	R70B2L-LH	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7A245	R70A245	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A245	R70A245	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B245	R70B245	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B245	R70B245	R712	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 10 Units - Angular Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)	Shim Screw Wrench (Size 10)	Shim	Shim Screw
R10A2	R100A2	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A2	R100A2	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10A2-LH	R100A2-LH	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A2-LH	R100A2-LH	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B2	R100B2	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B2	R100B2	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10B2-LH	R100B2-LH	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B2-LH	R100B2-LH	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10A2C	R100A2C	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10A2C	R100A2C	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10A295	R100A295	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A295	R100A295	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B295	R100B295	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B295	R100B295	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10A2L	R100A2L	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A2L	R100A2L	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B2L	R100B2L	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B2L	R100B2L	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10B2L-LH	R100B2L-LH	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B2L-LH	R100B2L-LH	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10A295	R100A295	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A295	R100A295	R112	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471

Specialists in Specials –Rigibore has the knowledge, experience and professionalism to provide the right custom tooling solutions for your hole-making application.


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 2 Units - Square Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R2A5	R20A5	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A5	R20A5	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2A5-LH	R20A5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A5-LH	R20A5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B5	R20B5	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B5	R20B5	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2B5-LH	R20B5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B5-LH	R20B5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2F5	R20F5	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2F5	R20F5	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2F5S	R20F5S	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2F5S	R20F5S	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2A5L	R20A5L	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A5L	R20A5L	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2A5-LH	R20A5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A5-LH	R20A5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B5L	R20B5L	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B5L	R20B5L	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2B5-LH	R20B5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B5-LH	R20B5-LH	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2A545	R20A545	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A545	R20A545	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B545	R20B545	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B545	R20B545	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29
R2A90	R20A90	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23A	
TR2A90	R20A90	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23AT		R29
R2B90	R20B90	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045		R23B	
TR2B90	R20B90	R215	R22	R25	R24	R26	R28	R27	R27D	RS2045	R23BT		R29


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 3 Units - Square Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R3A5	R30A5	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A5	R30A5	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3A5-LH	R30A5-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A5-LH	R30A5-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B5	R30B5	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B5	R30B5	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3B5-LH	R30B5-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B5-LH	R30B5-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3A5C	R30A5C	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33A	
TR3A5C	R30A5C	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33AT		R39
R3A5C-LH	R30A5C-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33A	
TR3A5C-LH	R30A5C-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33AT		R39
R3B5C	R30B5C	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B5C	R30B5C	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33BT		R39
R3B5C-LH	R30B5C-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560		R33B	
TR3B5C-LH	R30B5C-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2560	R33BT		R39
R3F5	R30F5	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3F5	R30F5	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3F5S	R30F5S	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3F5S	R30F5S	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3F5S-LH	R30F5S-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3F5S-LH	R30F5S-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3A5L	R30A5L	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A5L	R30A5L	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3A5L-LH	R30A5L-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A5L-LH	R30A5L-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B5L	R30B5L	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B5L	R30B5L	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3B5L-LH	R30B5L-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B5L-LH	R30B5L-LH	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3A545	R30A545	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A545	R30A545	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B545	R30B545	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B545	R30B545	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39
R3A90	R30A90	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33A	
TR3A90	R30A90	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33AT		R39
R3B90	R30B90	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263		R33B	
TR3B90	R30B90	R315	R32	R35	R34	R36	R38	R37	R37D	RS2263	R33BT		R39


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 5 Units - Square Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R5A5	R50A5	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A5	R50A5	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A5-LH	R50A5-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A5-LH	R50A5-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B5	R50B5	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B5	R50B5	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5B5-LH	R50B5-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B5-LH	R50B5-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A5C	R50A5C	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A5C	R50A5C	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A5C-LH	R50A5C-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A5C-LH	R50A5C-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B5C	R50B5C	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B5C	R50B5C	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5F5	R50F5	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5F5	R50F5	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5F5-LH	R50F5-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5F5-LH	R50F5-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5F5S	R50F5S	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5F5S	R50F5S	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5F5C	R50F5C	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5F5C	R50F5C	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5F5C-LH	R50F5C-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5F5C-LH	R50F5C-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5F595	R50F595	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5F595	R50F595	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A5L	R50A5L	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A5L	R50A5L	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A5L-LH	R50A5L-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A5L-LH	R50A5L-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B5L	R50B5L	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B5L	R50B5L	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5B5L-LH	R50B5L-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B5L-LH	R50B5L-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A545	R50A545	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A545	R50A545	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5A545-LH	R50A545-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A545-LH	R50A545-LH	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B545	R50B545	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B545	R50B545	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59
R5A90	R50A90	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53A	
TR5A90	R50A90	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53AT		R59
R5B90	R50B90	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560		R53B	
TR5B90	R50B90	R515	R52	R55	R54	R36	R58	R37	R37D	RS2560	R53BT		R59


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER


SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 7 Units - Square Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)
R7A5	R70A5	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A5	R70A5	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A5-LH	R70A5-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A5-LH	R70A5-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B5	R70B5	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B5	R70B5	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7B5-LH	R70B5-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B5-LH	R70B5-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7A5C	R70A5C	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A5C	R70A5C	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B5C	R70B5C	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B5C	R70B5C	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7F5	R70F5	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7F5	R70F5	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7F5-LH	R70F5-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7F5-LH	R70F5-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A595	R70A595	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A595	R70A595	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7F595	R70F595	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7F595	R70F595	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7F595C	R70F595C	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7F595C	R70F595C	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A5L	R70A5L	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A5L	R70A5L	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A5L-LH	R70A5L-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A5L-LH	R70A5L-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B5L	R70B5L	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B5L	R70B5L	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7B5L-LH	R70B5L-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B5L-LH	R70B5L-LH	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7F5L	R70F5L	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7F5L	R70F5L	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A545	R70A545	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A545	R70A545	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B545	R70B545	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73B	
TR7B545	R70B545	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		R79
R7A530	R70A530	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A530	R70A530	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7A90	R70A90	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084		R73A	
TR7A90	R70A90	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73AT		R79
R7B90	R70B90	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084			
TR7B90	R70B90	R715	R72	R75	R74	R76	R78	R77	R77D	RS4084	R73BT		


DIAL


COLLET


COLLET SPRING


KEY & SCREW


ADJUSTING WRENCH


HEXAGON WRENCH


TORX WRENCH


TORX DRIVER

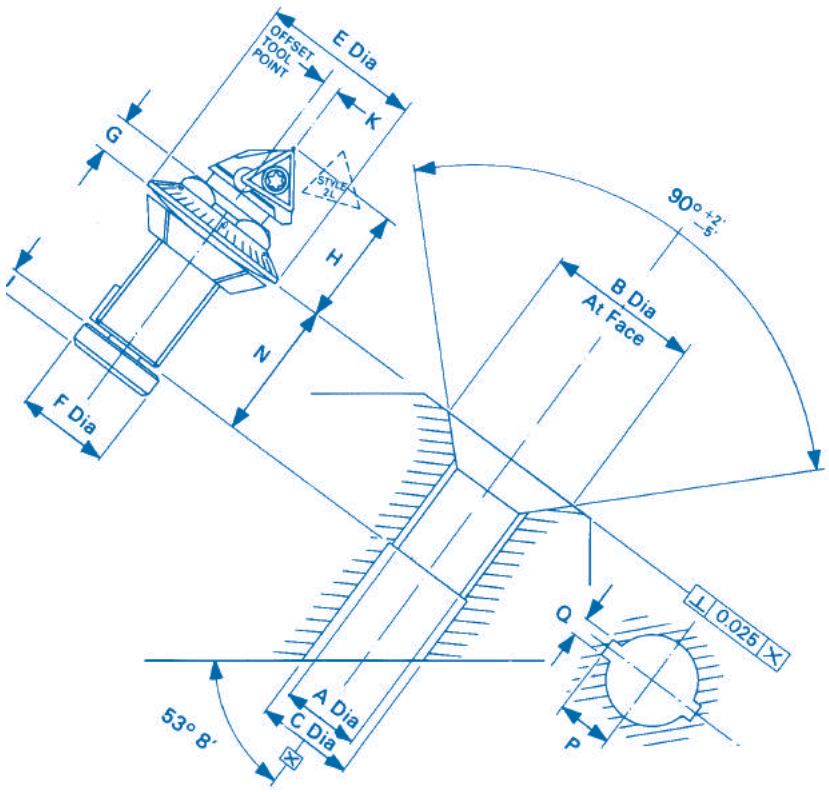

SCREW, WASHER/ BOLT


SPRING STACK

Spares and Accessories - Size 10 Units - Square Mounted

Tool	Tool Body	Dial	Collet	Collet Spring	Key	Adjusting Wrench	Hexagon Wrench	Torx Wrench	Torx Driver	Insert Screw	Screw & Washer (TR Unit)	Bolt (R Unit)	Adjusting Spring Stack (TR Unit)	Shim Screw Wrench (Size 10)	Shim	Shim Screw
R10A5	R100A5	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A5	R100A5	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10A5-LH	R100A5-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A5-LH	R100A5-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B5	R100B5	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B5	R100B5	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10B5-LH	R100B5-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B5-LH	R100B5-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10A5C	R100A5C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10A5C	R100A5C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10A5C-LH	R100A5C-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10A5C-LH	R100A5C-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10F5	R100F5	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10F5	R100F5	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10F5-LH	R100F5-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10F5-LH	R100F5-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10F5C	R100F5C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10F5C	R100F5C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10A595C	R100A595C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10A595C	R100A595C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10A595C-LH	R100A595C-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10A595C-LH	R100A595C-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10F595	R100F595	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10F595	R100F595	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10F595C	R100F595C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10F595C	R100F595C	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10F595C-LH	R100F595C-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A				
TR10F595C-LH	R100F595C-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109			
R10A5L	R100A5L	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A5L	R100A5L	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10A5L-LH	R100A5L-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A5L-LH	R100A5L-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B5L	R100B5L	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B5L	R100B5L	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10B5L-LH	R100B5L-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B5L-LH	R100B5L-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10F5L	R100F5L	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10F5L	R100F5L	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10A545	R100A545	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A545	R100A545	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10A545-LH	R100A545-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A545-LH	R100A545-LH	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B545	R100B545	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B		R118	RSH4129	RSS2471
TR10B545	R100B545	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471
R10A90	R100A90	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103A		R118	RSH4129	RSS2471
TR10A90	R100A90	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103AT		R109	R118	RSH4129	RSS2471
R10B90	R100B90	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120		R103B				
TR10B90	R100B90	R115	R102	R105	R104	R76	R108	R77	R77D	RS35120	R103BT		R109	R118	RSH4129	RSS2471

Mounting Dimensions Angular Mounted Units - R & TR Units

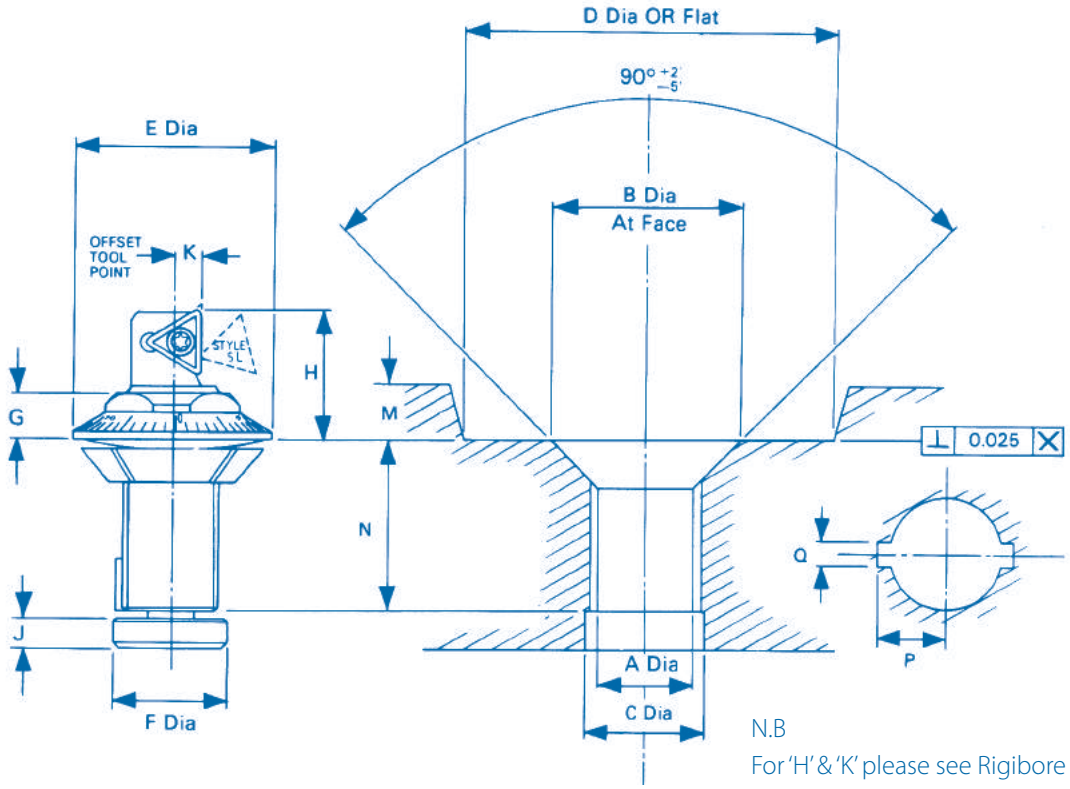


N.B
'H' – over datum rad
'K' – to sharp point
For 'H' & 'K' please see Rigibore Unit Section

Technical Data – Hole Dimensions for Standard Rigibore Units – **Metric**

UNIT PREFIX	A +.013 -0 Ø	B +.13 -0 Ø	C +.25 -0 Ø	D +/-.25	E +/-.05	F +/-0.1	G +0 -.02	J +0.1 -0	M (Std)	N +.25 -0	P +.05 -0	Q +.02 -0
R2BS	6.35	12.80	8.00	19.00	13.70	7.80	3.00	1.85	4.00	6.35	3.80	1.60
R2B_/TR2B_										9.50		
R2A_/TR2A_										12.70		
R2F_/TR2F_												
R3B_/TR3B_	7.937	16.00	11.30	26.00	18.00	11.00	4.00	4.00	5.50	11.90	5.05	2.34
R3A_/TR3A_										15.90		
R3F_/TR3F_												
R5B_/TR5B_	12.70	25.66	16.00	38.00	27.00	15.60	5.60	7.00	5.50	19.00	7.55	3.155
R5A_/TR5A_										25.40		
R5F_/TR5F_												
R7B_/TR7B_	19.05	35.20	24.00	48.00	37.50	23.70	8.70	13.00	11.00	25.40	11.35	4.76
R7A_/TR7A_										31.75		
R7F_/TR7F_												
R10B_/TR10B_	25.40	44.70	32.00	57.00	48.00	31.50	9.40	16.50	14.50	35.00	14.95	6.32
R10A_TR10A_										47.60		
R10F_/TR10F_												

Mounting Dimensions Square Mounted Units



N.B
For 'H' & 'K' please see Rigibore Unit Section

Technical Data – Mounting Dimensions for Standard Rigibore Units – **Imperial**

UNIT PREFIX	A +.0005 -0 Ø	B +.005 -0 Ø	C +.010 -0 Ø	D +.01	E +/-.002 Ø	F +/-.004 Ø	G +0 -.008	J +.004 -0	M (Std)	N +.010 -0 B/A	P +.002 -0	Q +.001 -0
R2B_S	.2500	.5040	.3150	.7500	.5400	.3070	.1180	.1180	.1570	.2500	.1500	.0630
R2B_/TR2B_										.3750		
R2A_/TR2A_										.5000		
R2F_/TR2F_												
R3B_/TR3B_	.3125	.6300	.4450	1.030	.7090	.4330	.1580	.1580	.2170	.4690	.1990	.0920
R3A_/TR3A_										.6250		
R3F_/TR3F_												
R5B_/TR5B_	.5000	1.010	.6300	1.500	1.063	.6100	.2200	.2760	.2170	.7500	.2970	.1240
R5A_/TR5A_										1.000		
R5F_/TR5F_												
R7B_/TR7B_	.7500	1.386	.9450	1.870	1.476	.9330	.3430	.5120	.4330	1.000	.4470	.1870
R7A_/TR7A_										1.250		
R7F_/TR7F_												
R10B_/TR10B_	1.000	1.760	1.260	2.250	1.890	1.240	.3700	.6500	.5710	1.375	.5890	.2490
R10A_/TR10A_										1.875		
R10F_/TR10F_												

RIGIBORE

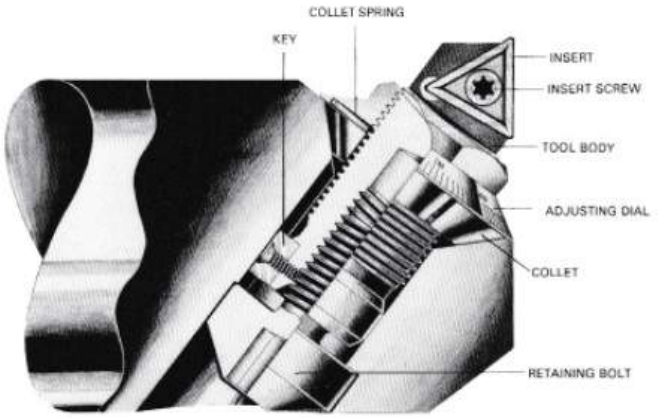
Rigibore Units

INSTRUCTIONS FOR USE

Type 'R' for roughing and semi-finish boring type

'TR' for finish boring

'F' for larger diameter boring



The collet clamping system of Rigibore units offers substantial advantages over similar units by firmly clamping the tool when the assembly is tensioned. The collet spring also keeps the dial in place when the retaining bolt is released for adjustment.

Dial graduations are easily read and each produces an adjustment of 0.01mm/.0004in on radius (0.02mm/.0008in on diameter). Graduations can be readily split to provide and even finer setting capability.

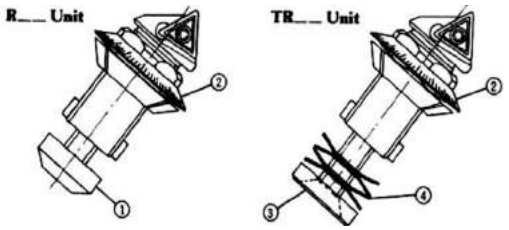
On top-adjusting (TR) units, modified components and additional spring washers at the back provide fine adjustment without releasing the retaining bolt.

Operating Instructions - The Standard Unit - Type 'R' - For Roughing & Semi-Finishing

Torque values for bolt (1) on Rigibore 'R' Units		
Unit Size	Min	Max
R2___	7 inch lbs / 0.8Nm	10 inch/lbs / 1.1Nm
R3___	12 inch lbs / 1.4Nm	16 inch lbs / 1.8Nm
R5___	30 inch lbs / 4.3Nm	45 inch lbs / 5.1Nm
R7___	75 inch lbs / 8.5Nm	90 inch lbs / 10.2Nm
R10___	130 inch lb s/ 14.7Nm	150 inch lbs / 17.0Nm

Note: minimum torque value is that at which the unit effectively clamps, maximum torque value is that at which the unit becomes difficult to unclamp

In roughing applications, at speeds in the region of 350 / 360 ft/min or 105 / 110 meters/min depths of cut of .125"/ 5mm on size 5 units and .400"/ 10mm on size 7 and 10 units have been recorded at feeds up to .008"/ 0.2mm (These figures will vary depending on material and other cutting conditions).

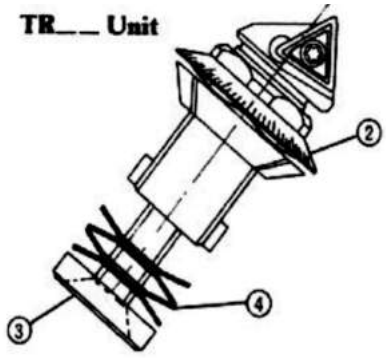


1. Insert the Rigibore Unit into the boring bar & screw in the bolt (1). Roughly adjust the tool by turning the dial (2) - clockwise to increase diameter / anticlockwise to decrease diameter - to the approximate diameter required - with the retaining bolt (1) tightened only sufficiently to tension the assembly.
2. Using the correct spanner/wrench lightly tighten the dial (2) onto the bar flat and check for size
3. To re-adjust, release the retaining bolt (1) approximately one-quarter turn. **Note**: care should be taken in releasing the retaining bolt to retain tension in the assembly. Adjust with spanner/wrench, the desired graduation and firmly tighten the retaining bolt.

Do not over tighten. Each graduation on the dial adjusts. 0004"/ 0.01mm on radius. For adjustments finer than one graduation, use the Vernier scale marked on the boring bar.

Operating Instructions - Top Adjusting Units - Type 'TR' - For Fine Boring/Finishing

Recommended for depths of cut up to .010"/ 0.25mm



1. Insert the unit and roughly adjust as for type 'R'
2. Using a hexagon wrench, tighten the retaining screw (3) to fully compress the spring stack (4) and back-off ½ turn max.
3. Obtain final size by adjusting the dial (2) only. Do not change the retaining screw setting.

   Note: When adjusting for a smaller diameter, always adjust under-size and then adjust clockwise to size.
   'TR' units are supplied with retaining screw and spring stack assembled in the correct order.

   In the event that the spring stack becomes separated from the retaining screw and needs to be fitted, always remember that the disc spring nearest the unit should be with its outer rim towards the unit and other disc springs alternating as illustrated.

4. This will ensure that the outer rim of the disc spring seats against the counterbore in the back of the boring bar (note: the number of disc springs varies with the unit size).

In extreme cutting conditions i.e. interrupted cuts etc. the action of the 'TR' unit can be made more rigid by re-stacking these disc springs as shown in illustration (5) i.e. double stacking, but note that this will halve the adjustment range and must be pre-loaded by backing off the retaining screw only ¼ turn (or less).
Additional disc springs may have to be purchased to achieve this.

'TR' Units, as supplied, are fitted with:	
Unit	Disc Springs
Size 2	6
Size 3	5
Size 5	3
Size 7	4
Size 10	4

For flexibility of use, the 'TR' unit can be used as for the standard 'R' unit, i.e. by fully tightening the retaining screw. In this way, the 'TR' unit becomes only marginally less rigid than the standard 'R' unit but will reduce the effective life of the disc springs that lose their spring characteristics after sustained full compression.

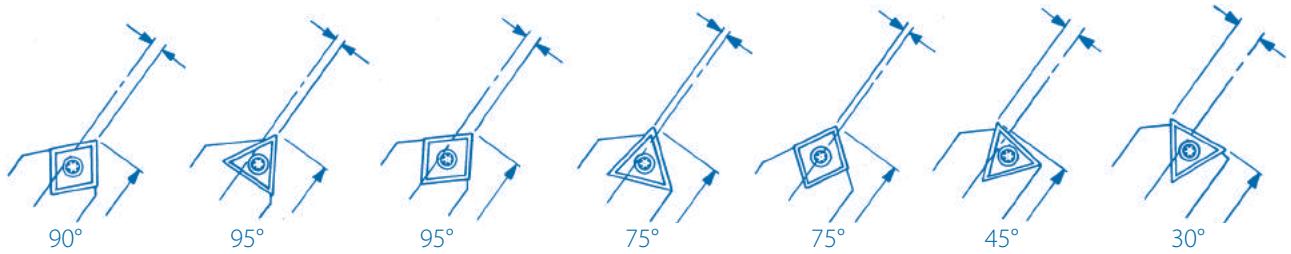
Operating Instructions - Bush Mounted Units - Type 'BTR/MBTR'

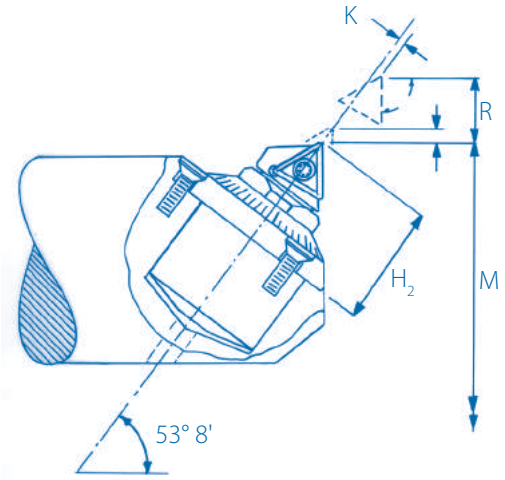
Bush units are offered in both 2 screw and 3 screw types to interchange with most other units of this type.
The common feature of all bush units is that they are constructed of a bush plus a 'TR' unit.

All instructions applicable to 'TR' units also apply to MBTR/BTR bush units.

MBTR/SAB Bush Units – For Fine-Finishing

Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

Notes:

1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

MBTR/SAB Bush Units – Angular Mounted - Size 1 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	24.00	.945	0.20	.008	2.00	.079	13.10	.516	1.35	.053	TC_ _ 06T1 (02)	MBTR/SAB1-2B2
												MBTR/SAB1-2B2-LH
75°							13.70	.539	-1.50	-.059		MBTR/SAB1-2B2L
												MBTR/SAB1-2B2L-LH
45°							13.70	.539	-1.60	-.063		MBTR/SAB1-2B245

MBTR/SAB Bush Units – Angular Mounted – Size 2 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	30.00	1.181	0.28	.011	4.00	.157	16.50	0.650	1.32	.052	MBTR/SAB2-3B1	TC_ _ 06T1 (02)
											MBTR/SAB2-3B1-LH	
							18.70	.736	0.80	.031	MBTR/SAB2-3B2	TC_ _ 0902 (04)
											MBTR/SAB2-3B2-LH	
							16.35	.644	0.20	.031	MBTR/SAB2-3B2C	CC_ _ 0602 (04)
											MBTR/SAB2-3B2C-LH	
75°							18.80	.740	1.10	.043	MBTR/SAB2-3B2L	TC_ _ 0902 (04)
											MBTR/SAB2-3B2L-LH	
45°							19.75	.778	-1.60	-.063	MBTR/SAB2-3B245	

MBTR/SAB Bush Units – Angular Mounted - Size 3 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90º	40.00	1.575	0.40	0.16	5.60	.220	22.80	.898	2.30	.091	TC_ _ 1102 (04)	MBTR/SAB3-5B2M
												MBTR/SAB3-5B2LH-M
							21.75	.856	1.20	.047	CC_ _ 0602 (04)	MBTR/SAB3-5B2CM
												MBTR/SAB3-5B2CLH-M
75º							22.40	.882	1.30	.051	TC_ _ 1102 (04)	MBTR/SAB3-5B2LM
												MBTR/SAB3-5B2L-LHM
45º							22.85	.900	-1.60	-.063		MBTR/SAB3-5B245M
												MBTR/SAB3-5B245-LH
0º							16.30	.642				MBTR/SAB3-5B230M

MBTR/SAB Bush Units – Angular Mounted - Size 4 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90º	58.0	2.283	0.60	.024	8.00	.315	31.55	1.242	-.040	-.016	TC_ _ 16T3 (08)	MBTR/SAB4-7B2
												MBTR/SAB4-7B2-LH
							32.57	1.282	1.60	.063	CC_ _ 09T3 (04)	MBTR/SAB4-7B2C
												MBTR/SAB4-7B2C-LH
75º							29.40	1.157	-3.20	-.126	TC_ _ 16T3 (08)	MBTR/SAB4-7B2L
												MBTR/SAB4-7B2L-LH
45º							31.50	1.240				MBTR/SAB4-7B245

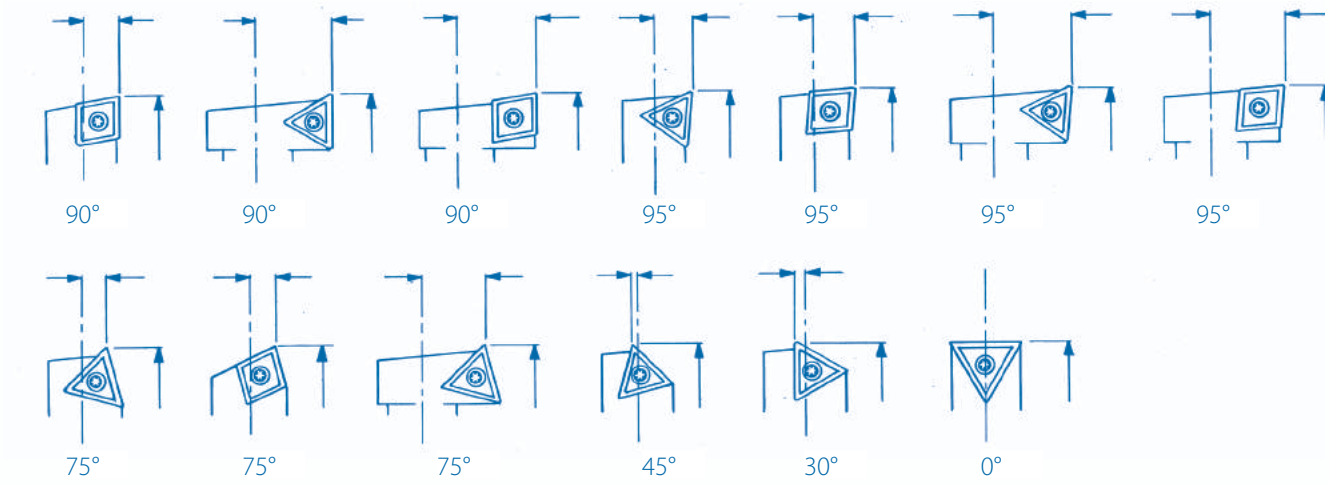
For operating instructions please see page 80

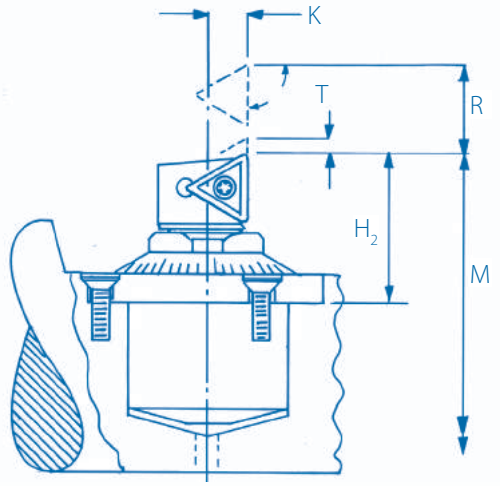
Spares and Accessories - MBTR/SAB Bush Units - Angular Mounted

Tool	Insert Screw	Retaining Screw & Wrench Kit	Adjusting Wrench	Torx Wrench	Torx Driver
MBTR/SAB1-2B2	RS2045	BTR001/10/3	R26	R27	R27D
MBTR/SAB1-2B2LH					
MBTR/SAB1-2B2L					
MBTR/SAB1-2B245					
MBTR/SAB2-3B1		BTR001/10/3	R36	R37	R37D
MBTR/SAB2-3B1-LH					
MBTR/SAB2-3B2	RS2263				
MBTR/SAB2-3B2-LH					
MBTR/SAB2-3B2C	RS2560				
MBTR/SAB2-3B2C-LH					
MBTR/SAB2-3B2L					
MBTR/SAB2-3B2L-LH					
MBTR/SAB2-3B245	RS2263				
MBTR/SAB3-5B2M	RS2560	BTR001/7/3			
MBTR/SAB3-5B2LH-M					
MBTR/SAB3-5B2CM					
MBTR/SAB3-5B2CLH-M					
MBTR/SAB3-5B2LM					
MBTR/SAB3-5B2L-LHM					
MBTR/SAB3-5B245M					
MBTR/SAB3-5B245-LH					
MBTR/SAB3-5B230M					
MBTR/SAB4-7B2	RS4084	BTR001/8/3	R76	R77	R77D
MBTR/SAB4-7B2-LH					
MBTR/SAB4-7B2C					
MBTR/SAB4-7B2C-LH					
MBTR/SAB4-7B2L					
MBTR/SAB4-7B2L-LH					
MBTR/SAB4-7B245					

MBTR/SAB Bush Units – For Fine-Finishing

Technical Specification





Right-hand Units shown.
Left-hand Units (LH) are mirror image.
Adjustment = 0.01mm/0.0004ins on radius per division.

Notes:

1. 'M' is the minimum bore size possible - in a bar specifically designed for the purpose.
2. 'K' is measured to the theoretical sharp point of the insert.

MBTR/SAB Bush Units – Square Mounted - Size 1 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90°	25.0	.984	0.25	.010	2.50	.098	13.10	.516	2.00	.079	TC_ _06T1 (02)	MBTR/SAB1-2B5
												MBTR/SAB1-2B5-LH
									7.50	.295		MBTR/SAB1-2F5S
75°									2.00	.079		MBTR/SAB1-2B5L
												MBTR/SAB1-2B5L-LH
45°							13.70	.539	-0.80	-.031		MBTR/SAB1-2B545
0°							13.20	.520	-	-		MBTR/SAB1-2B90

MBTR/SAB Bush Units – Square Mounted - Size 2 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90º	33.0	1.300	0.35	.014	5.00	.197	17.55	.691	3.00	.118	TC_ _0902 (04)	MBTR/SAB2-3B5
												MBTR/SAB2-.B5-LH
							16.35	.644	4.00	.157	CC_ _ 0602 (04)	MBTR/SAB2-3B5C
												MBTR/SAB2-3B5C-LH
							18.15	.715	9.40	.370	TC_ _0902 (04)	MBTR/SAB2-3B5S
												MBTR/SAB2-3B5S-LH
75º							17.55	.691	2.00	.079		MBTR/SAB2-3B5S
												MBTR/SAB2-3B5L-LH
45º							19.75	.778	-0.80	-.031		MBTR/SAB2-3B545
0º									-	-		MBTR/SAB2-3B90

MBTR/SAB Bush Units – Square Mounted - Size 3 Units (for fine-finishing)

Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90º	45.0	1.770	0.50	.020	7.00	.276	21.95	.864	5.40	.213	TC_ _ 1102 (04)	MBTR/SAB3-5B5M
												MBTR/SAB3-5B5-LHM
							21.75				CC_ _0602 (04)	MBTR/SAB3-5B5CM
												MBTR/SAB3-5B5C-LHM
							21.95	.864	15.00	.591	TC_ _ 1102 (04)	MBTR/SAB3-5F5SM
75º									3.20	.126		MBTR/SAB3-5B5LM
												MBTR/SAB3-5B5L-LHM
45º									-1.60	-.063		MBTR/SAB3-5B545M
0º							21.85	.860	-	-		MBTR/SAB3-5B90M

MBTR/SAB Bush Units – Square Mounted - Size 4 Units (for fine-finishing)

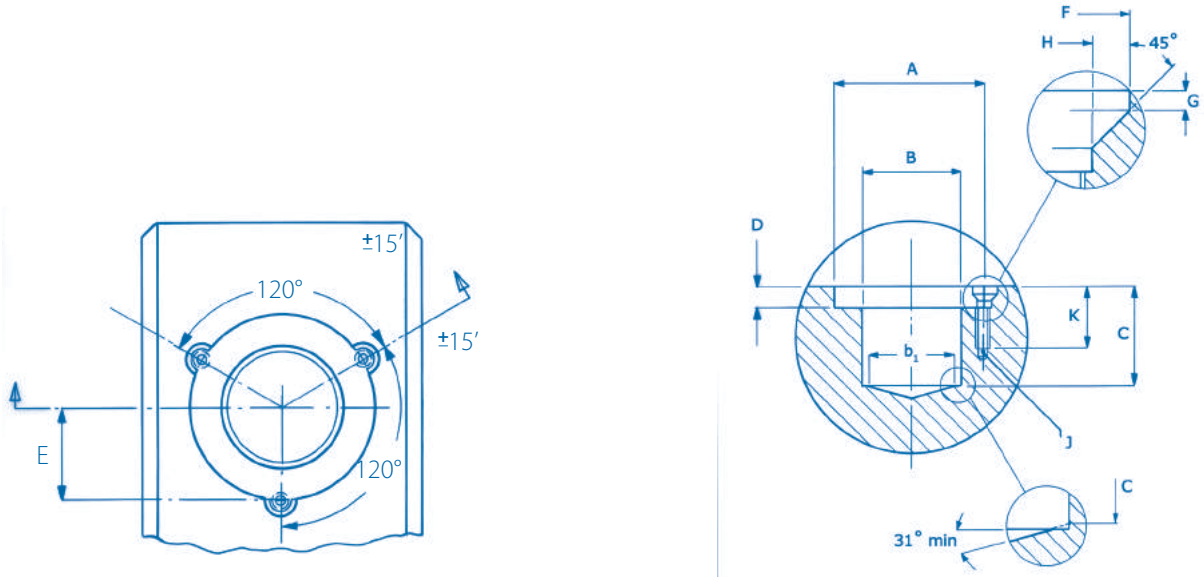
Approach Angle	Min Bore Possible		T Top Adj		R Total Radial Adj		H2 Min Height		K Tool Point Offset		Insert	Unit Code
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
90º	63.0	2.480	0.75	.030	10.0	.394	31.50	1.240	8.35	.329	TC_ _ 16T3 (08)	MBTR/SAB4-7B5
												MBTR/SAB2-7B5-LH
							31.40	1.236	6.35	.250	CC_ _ 09T3 (08)	MBTR/SAB4-7B5C
75º							31.50	1.240	6.20	.244		MBTR/SAB4-7B5L
												MBTR/SAB4-7B5L-LH
45º									-1.60	-.630	TC_ _ 16T3 (08)	MBTR/SAB4-7B545
0º							29.00	1.142	-	-		MBTR/SAB4-7B90

For operating instructions please see page 80

Spares and Accessories - MBTR/SAB Bush Units - Square Mounted

Tool	Insert Screw	Retaining Screw & Wrench Kit	Adjusting Wrench	Torx Wrench	Torx Driver
MBTR/SAB1-2B5	RS2045	BTR001/10/3	R26	R27	R27D
MBTR/SAB1-2B5-LH					
MBTR/SAB1-2B5L					
MBTR/SAB1-2B5L-LH					
MBTR/SAB1-2B545					
MBTR/SAB1-2F5S					
MBTR/SAB1-2B90					
MBTR/SAB2-3B5	RS2263	BTR001/10/3	R36	R37	R37D
MBTR/SAB2-3B5-LH					
MBTR/SAB2-3B5C	RS2560				
MBTR/SAB2-3B5C-LH					
MBTR/SAB2-3B5S	RS2263				
MBTR/SAB2-3B5S-LH					
MBTR/SAB2-3B5S					
MBTR/SAB2-3B5L-LH					
MBTR/SAB2-3B545					
MBTR/SAB2-3B90					
MBTR/SAB3-5B5M	RS2560	BTR001/7/3	R36	R37	R37D
MBTR/SAB3-5B5-LHM					
MBTR/SAB3-5B5CM					
MBTR/SAB3-5B5C-LHM					
MBTR/SAB3-5F5SM					
MBTR/SAB3-5B5LM					
MBTR/SAB3-5B5L-LHM					
MBTR/SAB3-5B545M					
MBTR/SAB3-5B90M					
MBTR/SAB4-7B5	RS4084	BTR001/8/3	R76	R77	R77D
MBTR/SAB2-7B5-LH					
MBTR/SAB4-7B5C					
MBTR/SAB4-7B5L					
MBTR/SAB4-7B5L-LH					
MBTR/SAB4-7B545					
MBTR/SAB4-7B90					

Mounting Dimensions For MBTR/SAB Units



Dimension	Tolerance		MBU1 MBTR/SAB1		MBU2 MBTR/SAB2		MBU3 MBTR/SAB3		MBU4 MBTR/SAB4	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
A Ø	+0.2 -0	+.008 -0	19.0	.7480	25.0	.9843	30.0	1.1811	46.0	1.8110
B H7 Ø			16.0	.6299	20.0	.7874	22.0	.8661	32.0	1.2598
b1	Drill point min		14.50	.571	18.50	.728	20.50	.807	30.50	1.200
C	+0.2 -0	+.008 -0	12.50	.492	15.50	.610	24.00	.945	36.00	1.417
D	+/-0.05	+/-.002	3.70	.146	4.00	.157	5.00	.197	6.30	.248
E			9.65	.380	12.5	.492	15.4	.606	23.0	.906
F Ø	+0.1 -0	+.004 -0	4.6	.181	4.6	.181	6.5	.256	11.6	.457
G			2.5	.098	1.6	.063	1.8	.071	0	0
H Ø			3.2	.126	3.2	.126	4.3	.169	5.4	.213
J			M3X0.5		M3X0.5		M4X0.7		M5X0.8	
K			10.0	.393	9.0	.354	13.0	.512	16.0	.630

For operating instructions please see page 80

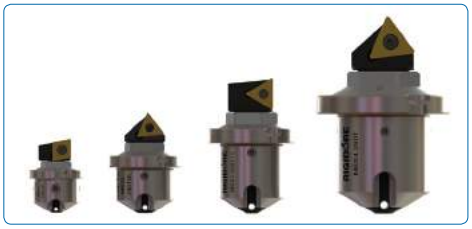
RIGIBORE

MBX Units

Accuracy through rigidity
for fine-finishing

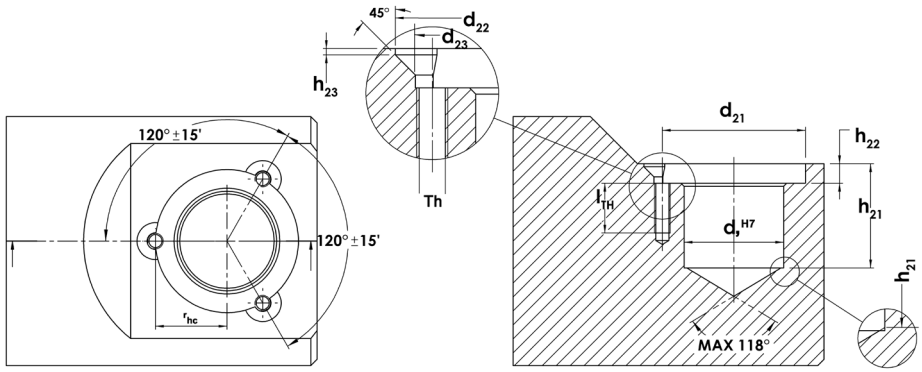
Features

- These units are designed for building into boring tools
- The units are pre-tensioned, eliminating backlash and adjustment is made from the front only
- Each graduation on the adjustment dial is 0.005 /.0002" on radius
- Each vernier graduation on the bush is 0.001mm/.0004" on radius



Rigibore 'MBX' Units - Technical Specification

Rigibore 'MBX' Units - Mounting Dimensions



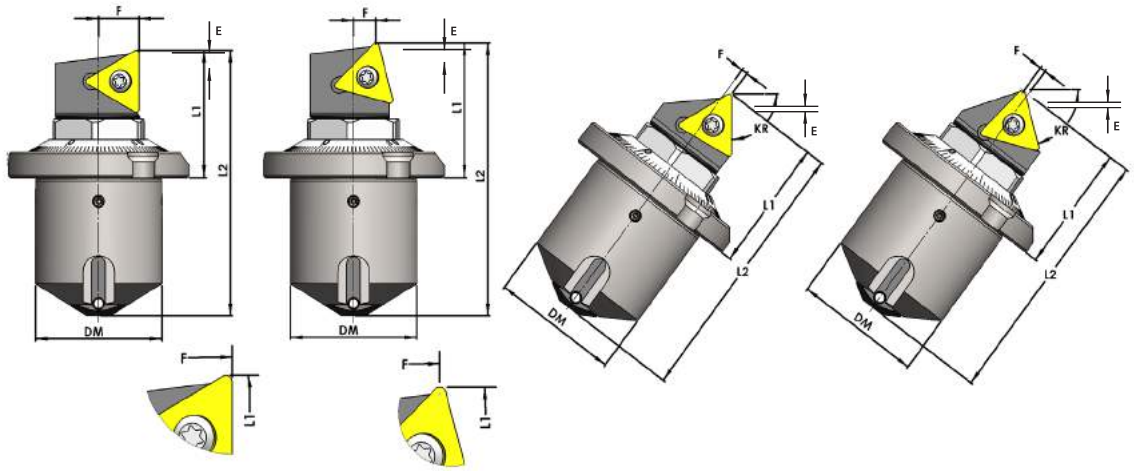
T Style Insert	C Style Insert	d,H7	d_{21} [1] +0.2	d_{22} [1]	d_{23}	h_{21} [2]	h_{22}	h_{23} [1]	l_{TH}	r_{hc}	T_h
	06	16	19	4.6	3.2	11.5	2.8	1.6	9	9.65+/-0.02	M3
06											
09		20	25			15.5	4			12.5+/-0.05	
11		22	30	6.5	4.3	24	5	1.8	13	15.4+/-0.05	M4
16		32	46	11.9	5.4	33	6.3	-	16	23+/-0.05	M5

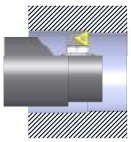
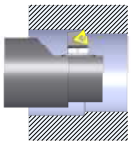
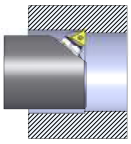
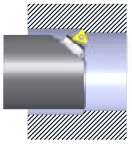
Rigibore 'MBX' Units - Spares and Accessories

Size	Insert	Insert Screw	Retaining Screw and Wrench Kit	Adjusting Spanner	Torx Wrench	Torx Driver
MBX1	CC..0602	RS2560	BTR001/10/3	R36	R37	R37D
	TC..06T1	RS2045			R27	R27D
MBX2	TC..0902	RS2263		R46	R37	R37D
MBX3	TC..1102	RS2560	BTR001/7/3	R36		
MBX4	TC..16T3	RS4084	BTR001/8/3	R76	R77	R77D

Rigibore 'MBX' Units – Straight & Angular

RIGHT HAND VERSION - Shown



	Entering Angle KR	Insert type	Ordering code	DM	F1 *1	L1 *2	L1 *3	L2	D MIN *4		E MAX
	90°	CC..060204	MBX1-590C06	16	5.10	13.20	13.30	25.10	27.00	0°	2.5
			MBX1-590C06-LH								
		TC..090204	MBX2-590T09	20	6.30	18.01	18.30	33.40	36.50		3.5
			MBX2-590T09-LH								
		TC..110204	MBX3-590T11	22	7.20	21.80	22.10	46.00	48.50		6.0
			MBX3-590T11-LH								
		TC..16T308	MBX4-590T16	32	10.30	31.42	32.00	64.70	68.40		10.0
			MBX4-590T16-LH								
	75°	CC..060204	MBX1-575C06	16	2.45	13.83	14.20	26.00	28.60		2.5
		TC..090204	MBX2-575T09	20	3.70	18.83	19.20	34.30	38.10		3.5
		TC..110204	MBX3-575T11	22	4.30	22.73	23.10	47.00	50.10		6.0
		TC..16T308	MBX4-575T16	32	5.60	32.65	33.40	66.10	70.65		10.0
	90°	CC..060204	MBX1-290C06	16	0.40	14.08	14.30	26.00	25.30		2.0
			MBX1-290C06-LH								
		TC..06T102	MBX1-290T06		0.25	14.11			24.80		
			MBX1-290T06-LH								
		TC..090204	MBX2-290T09	20	1.00	18.70	19.10	34.20	32.50		2.8
			MBX2-290T09-LH								
		TC..110204	MBX3-290T11	22	1.20	22.60	23.00	46.80	42.00		4.8
			MBX3-290T11-LH								
		TC..16T308	MBX4-290T16	32	1.40	32.51	33.30	66.60	59.40		8.0
			MBX4-290T16-LH								
	75°	CC..060204	MBX1-275C06	16	0.85	14.05	14.40	26.10	26.60		2.0
		TC..06T102	MBX1-275T06			14.23			26.30		
		TC..090204	MBX2-275T09	20	0.50	18.86	19.20	34.30	34.00		2.8
		TC..110204	MBX3-275T11	22	0.25	22.56	22.90	46.70	43.50		4.8
		TC..16T308	MBX4-275T16	32	2.00	30.91	31.60	64.90	60.80		8.0

1. 90° And 75° approach angular mounted and 75° approach square mounted, centre of nose radius, 90° approach straight mounting over insert
2. Over datum rad for insert size
3. Sharp point
4. Minimum hole diameter calculated on the largest nose radius available

RIGIBORE

MBX - Standard Boring Bars

Accuracy through rigidity

For fine-finishing

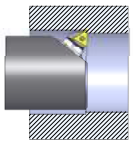
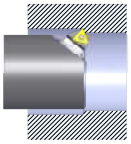
Key Features

- These units are designed for building into boring tools
- The units are pre-tensioned, eliminating backlash and adjustment is made from the front only
- Each graduation on the adjustment dial is 0.005mm / .0002" on radius
- Each vernier graduation on the bush is 0.001mm / .0004" on radius

Part Number Explanation

32	1	-	254	-	290	-	095

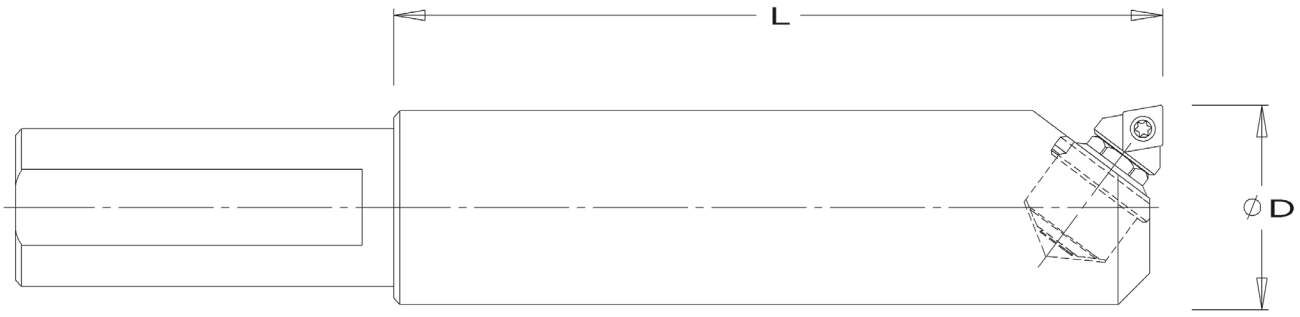
32	Size 32 Straight Shank
1	MBX Unit size 1
254	Boring Diameter Range Start = 25.4mm
290	Boring Diameter Range End = 29.0mm
095	Maximum Depth of Bore = 95.0mm

	Entering Angle KR	Insert type	Ordering code	DM	F1 *1	L1 *2	L1 *3	L2	D MIN *4		E MAX
	90°	CC..060204	MBX1-290C06	16	0.40	14.08	14.30	26.00	25.30	0°	2.0
			MBX1-290C06-LH								
		TC..06T102	MBX1-290T06		0.25	14.11			24.80		
			MBX1-290T06-LH								
		TC..090204	MBX2-290T09	20	1.00	18.70	19.10	34.20	32.50		2.8
			MBX2-290T09-LH								
		TC..110204	MBX3-290T11	22	1.20	22.60	23.00	46.80	42.00		4.8
			MBX3-290T11-LH								
		TC..16T308	MBX4-290T16	32	1.40	32.51	33.30	66.60	59.40		8.0
			MBX4-290T16-LH								
	75°	CC..060204	MBX1-275C06	16	0.85	14.05	14.40	26.10	26.60		2.0
		TC..06T102	MBX1-275T06			14.23			26.30		
		TC..090204	MBX2-275T09	20	0.50	18.86	19.20	34.30	34.00		2.8
		TC..110204	MBX3-275T11	22	0.25	22.56	22.90	46.70	43.50		4.8
		TC..16T308	MBX4-275T16	32	2.00	30.91	31.60	64.90	60.80		8.0

1. 90° And 75° approach angular mounted and 75° approach square mounted, centre of nose radius, 90° approach straight mounting over insert
2. Over datum rad for insert size
3. Sharp point
4. Minimum hole diameter calculated on the largest nose radius available

Rigibore 'MBX' Standard Boring Bars - Angular

Shank	Part Number	Boring Range	Bar Length	Unit
25SS	251-254-290-095	25.4-29.0	95.0	MBX1-290C06
	251-289-325-110	28.5-32.5	110.0	
	251-324-360-122	32.4-36.0	122.0	
32SS	321-254-290-095	25.4-29.0	95.0	
	321-289-325-110	28.9-32.5	110.0	
	321-324-360-122	32.4-36.0	122.0	
	322-359-411-129	35.9-41.1	129.0	MBX2-290T09
	322-410-462-149	41.0-46.2	149.0	
40SS	402-359-411-129	35.9-41.1	129.0	
	402-410-462-149	41.0-46.2	149.0	
	403-461-553-171	46.1-55.3	171.0	MBX3-290T11
	403-552-644-200	55.2-64.4	200.0	
	404-643-799-200	64.3-79.9		MBX4-290T16
	404-798-954-200	79.8-95.4		
	404-953-1109-200	95.3-110.9		
50SS	503-461-553-171	46.1-55.3	171.0	MBX3-290T11
	503-552-644-200	55.2-64.4	200.0	
	504-643-799-200	64.3-79.9		MBX4-290T16
	504-798-954-200	79.8-95.4		
	504-953-1109-200	95.3-110.9		



For shank dimensions please refer to page 2

RIGIBORE

MBX Units

Accuracy through rigidity
For fine-finishing

INSTRUCTIONS FOR USE

Technical Information and Instructions for Use

1. **Mounting**
   Ensure that the unit is correctly secured in its mounting hole and the 3 screws are clamping correctly.

2. **Adjustment**
   The units are pre-tensioned and adjustment is made from the front only. To adjust outward, rotate the dial clockwise with the correct adjusting spanner. Each graduation on the adjusting dial = 0.005mm/.0002 inch on radius. Each graduation on the bush = 0.001mm/.00004inch adjustment on radius.

   When adjusting downward, rotate the dial in the opposite direction a little more than required and adjust up to the new setting on the dial.

3. **Maintenance**
   The unit is lubricated and assembled to very close tolerances. It should not require any further attention under normal operating conditions. If a unit is accidentally damaged, it is recommended that it is returned to Rigibore for assessment / repair.

CAD files & additional support information : www.rigibore.com/en/rigibore-units/

RIGIBORE

Inserts by Rigibore®

All areas of production catered for including low speed roughing, interrupted cuts and optimised machining of specialist materials.

Ground to ISO H tolerance, long lasting, fast metal removal.

Finishing

Choice of geometries - Uncoated and coated grades

Inserts for cast iron, aluminum, steel, brass, bronze and titanium alloys.

Rigibore Insert Grades

Grade	I.S.O	ANSI	Description	Coating	Materials
RC217	M10 - M25 K05 - K25	C2-C3	High-speed finishing. Exceptional resistance to wear, oxidation & thermal shock	PVD composite coated	Cast iron heat-resisting titanium alloy
R71	P05-P25 M10-M20	P6-P7	Light roughing & finishing. High cutting speeds with moderate feeds. High resistance to wear & thermal shock	Uncoated	Steel, cast steel
R22	K10-K25 M10-M30	C2-C3	Wide range of applications. High resistance to wear & good edge sharpness. Moderate cutting	Micro-grain uncoated	Cast Iron, ferrous materials, heat resisting titanium alloy & aircraft aluminum

Chipbreaker Geometries

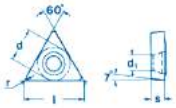
A choice of 4 geometries is available to suit most applications Ultra-precision ground to I.S.O. "H" tolerance for indexing within .0005"/0.013mm	
0 ° T.R.	Brass, S.G. Cast Iron, hardened steel, short-chipping Bronze
8 °T.R.	Alloy steels, tool steels, some bronzes, some grey cast irons & tougher materials
14 ° T.R.	Mild steels, stainless steels, some tool steels, heat-resisting steel alloys, hard plastics
22 ° T.R.	Aluminum, aluminum alloys, soft plastics, rubber, magnesium alloys, copper

Inserts for Aluminum

Size	Order Code	Available Grades	d (I.C)		l*		d1		s		r	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
06-16	TCHT 06 11 04 FN-AL	R22	.156	3.97	.27	6.87	.087	2.2	.078	1.98	.016	0.4
	TCHT 09 02 04 FN-AL		.22	5.56	.38	9.63	.098	2.5	.094	2.38		
	TCHT 11 02 04 FN-AL		.25	6.35	.43	11.0	.11	2.8	.094	2.38		
	TCHT 16 T3 08 FN-AL		.375	9.525	.65	16.5	.17	4.4	.156	3.97	.031	0.8
06-12	CCHT 06 02 04 FN-AL		.25	6.35	.25	6.35	.11	2.8	.094	2.38	.016	0.4
	CCHT 09 T3 08 FN-AL		.375	9.525	.375	9.525	.17	4.4	.156	3.97	.031	0.8
	CCHT 12 02 08 FN-AL		.5	12.7	.5	12.7	.217	5.5	.187	4.74		

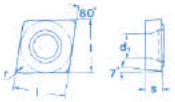

TCHX


TCHW




CCHX


CCHW



Inserts for all uses

L = Left hand (boring), R = Right hand (turning)

Size	Order Code	Available Grades	Top Rake	d (I.C)		l*		d1		s		r	
			(deg)	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
6	TCHW 06 T1 02	RC217, R22	0	0.156	3.97	0.27	6.87	0.087	2.2	0.078	1.98	0.008	0.2
	TCHW 06 T1 04											0.016	0.4
	TCHW 06 T1 08	RC217										0.031	0.8
	TCHX 06 T1 01 - L22	R22	22									0.004	0.1
	TCHX 06 T1 02 - L08	R71	8									0.008	0.2
	TCHX 06 T1 02 - L14		14										
	TCHX 06 T1 02 - L22	R22	22										
	TCHX 06 T1 04 - L08	R71	8									0.016	0.4
9	TCHW 09 02 02	RC217, R22	0	0.219	5.56	0.379	9.63	0.098	2.5	0.094	2.38	0.008	0.2
	TCHW 09 02 04											0.016	0.4
	TCHW 09 02 08											0.031	0.8
	TCHX 09 02 01 - L22	R22	22									0.008	0.2
	TCHX 09 02 02 - L14	R71	14										
	TCHX 09 02 02 - L22	R22	22									0.008	0.2
	TCHX 09 02 04 - L08	R71	8									0.016	0.4
	TCHX 09 02 04 - L14		14										
11	TCHW 11 02 02	RC217, R22	0	0.25	6.35	0.433	11	0.11	2.8	0.094	2.38	0.008	0.2
	TCHW 11 02 04											0.016	0.4
	TCHW 11 02 08											0.031	0.8
	TCHX 11 02 01 - L22	R22	22									0.004	0.1
	TCHX 11 02 02 - L08	R71	8									0.008	0.2
	TCHX 11 02 04 - L08											0.016	0.4
	TCHX 11 02 04 - L14		14										
16	TCHW 16 T3 02	R22	0	0.375	9.525	0.65	16.5	0.173	4.4	0.156	3.97	0.008	0.2
	TCHW 16 T3 04	RC217, R22										0.016	0.4
	TCHW 16 T3 08											0.031	0.8
	TCHW 16 T3 12											0.047	1.2
	TCHX 16 T3 04 - L14	R71	14									0.016	0.4
	TCHX 16 T3 08 - L22	R22	22									0.031	0.8
6	CCHW 06 02 04	RC217, R22	0	0.25	6.35	0.25	6.35	0.11	2.8	0.094	2.38	0.016	0.4
	CCHW 06 02 08	RC217										0.031	0.8
	CCHX 06 02 04 - L14		14									0.008	0.2
	CCHX 06 02 02 - L22	R22	22										
	CCHX 06 02 04 - L08	RC217, R22, R71	8									0.016	0.4
	CCHX 06 02 04 - R08	R22											
	CCHX 06 02 04 - L14	R71	14										
9	CCHW 09 T3 04	RC217, R22	0	0.375	9.525	0.375	9.525	0.173	4.4	0.156	3.97	0.016	0.4
	CCHW 09 T3 08	RC217										0.031	0.8
	CCHX 09 T3 02 - L08		8									0.008	0.2
	CCHX 09 T3 04 - L08	RC217, R71										0.016	0.4
	CCHX 09 T3 08 - L08	RC217										0.031	0.8
12	CCHW 12 04 08	RC217	0	0.5	12.7	0.5	12.7	0.216	5.5	0.187	4.74	0.031	0.8
4	CPHW 04 T1 04	RC217, R22	0	0.187	4.76	0.189	4.8	0.085	2.15	0.078	1.98	0.016	0.4