

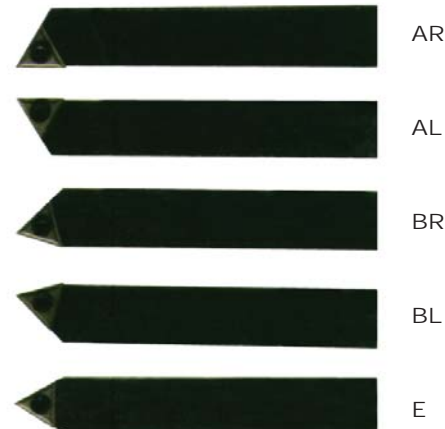
5pcs Indexable Tool Bits Set

- Hardened and ground steel shanks for maximum rigidity.
- Sets including inserts and wrenches in a fitted wooden case.
- Individual tools are supplied without wrenches or inserts.

Features:

- Includes each of following styles:AR,AL,BR,BL,E.
- AR,AL are straight turning tools,BR,BL are 15° lead angle tools, E is for threading.
- Use TNMA and TNMG inserts.

Model No.	Size(in)
BTS-3/8	3/8 Square x 2-1/2 Overall Length
BTS-1/2	1/2 Square x 3-1/2 Overall Length
BTS-5/8	5/8 Square x 4 Overall Length
BTS-3/4	3/4 Square x 4-1/2 Overall Length



Carbide Tipped Boring Tools

Features:

- All shanks are ground to $\pm 0/-0.0005"$
- Tool life is extended because each bar has far more steel behind the cutting edge for heavier chatter free cut, deeper bore and more precise work
- The same bar can bore flat-bottom hole or face
- Grind bar on cutting end for special tools such as grooving, threading or automatic operations
- material:C6



Model No.	Shank Dia.	Length	Bore Depth	Min. Bore	Mfg. No.	
BB1-34/318	3/4"	3-1/8"	1-1/8"	7/16"	D7S	12 PC. SET Model BBS-3/4
BB1-34/31116	3/4"	3-11/16"	1-11/16"	7/16"	D7M	
BB1-34/414	3/4"	4-1/4"	2-1/4"	7/16"	D7L	
BB1-34/312	3/4"	3-1/2"	1-1/2"	9/16"	D9S	
BB1-34/414	3/4"	4-1/4"	2-1/4"	9/16"	D9M	
BB1-34/5	3/4"	5"	3"	9/16"	D9L	
BB1-34/378	3/4"	3-7/8"	1-7/8"	11/16"	D11S	
BB1-34/41316	3/4"	4-13/16"	2-13/16"	11/16"	D11M	
BB1-34/534	3/4"	5-3/4"	3-3/4"	11/16"	D11L	
BB1-34/414	3/4"	4-1/4"	2-1/4"	13/16"	D13S	
BB1-34/538	3/4"	5-3/8"	3-3/8"	13/16"	D13M	
BB1-34/612	3/4"	6-1/2"	4-1/2"	13/16"	D13L	
BB1-1/5	1"	5"	3"	9/16"	E9L	7 PC. SET Model BBS-1
BB1-1/534	1"	5-3/4"	3-3/4"	11/16"	E11L	
BB1-1/612	1"	6-1/2"	4-1/2"	7/8"	E14L	
BB1-1/612	1"	6-1/2"	4-1/2"	1-1/16"	E18L	
BB1-1/734	1"	7-3/4"	5-3/4"	1-1/4"	E20L	
BB1-1/814	1"	8-1/4"	6-1/4"	1-1/2"	E24L	
BB1-1/912	1"	9-1/2"	7-1/2"	1-5/8"	E26L	

T-type Cut-off Blades



Parallel Type

Model No.	Tool No.	W	H	L
COB-P1N	P1N	0.04"	1/2"	3-1/2"
COB-P1	P1	1/16"	1/2"	4-1/2"
COB-P2N	P2N	5/64"	1/2"	4-1/2"
COB-P2	P2	3/32"	1/2"	4-1/2"
COB-P3S	P3S	1/8"	1/2"	4-1/2"
COB-P3N	P3N	3/32"	11/16"	5"
COB-P3	P3	1/8"	11/16"	5"
COB-P4	P4	5/32"	11/16"	5"
COB-PP5S	PP5S	3/16"	11/16"	5"
COB-P3W	P3W	1/8"	3/4"	5"
COB-P4W	P4W	5/32"	3/4"	5"
COB-P5W	P5W	3/16"	3/4"	5"
COB-P5	P5	1/8"	7/8"	6"
COB-P5N	P5N	5/32"	7/8"	6"
COB-P5	P5	3/16"	7/8"	6"
COB-P6	P6	1/4"	7/8"	6"
COB-P8	P8	1/8"	1-1/8"	6-1/2"
COB-P8	P8	5/32"	1-1/8"	6-1/2"
COB-P8	P8	3/16"	1-1/8"	6-1/2"
COB-P9	P9	1/4"	1-1/8"	6-1/2"
COB-P10	P10	5/16"	1-1/8"	6-1/2"

Tapered Type

Model No.	Tool No.	W	H	L
COB-T1-N	T1-N	.040"	1/2"	3-1/2"
COB-T1	T1	1/16"	1/2"	4-1/4"
COB-T2-N	T2-N	5/64"	1/2"	4-1/4"
COB-T2	T2	3/32"	1/2"	4-1/4"
COB-T3-S	T3-S	1/8"	1/2"	4-1/4"
COB-T3-N	T3-N	3/32"	11/16"	4-1/4"
COB-T3	T3	1/8"	11/16"	4-1/4"
COB-T4	T4	5/32"	11/16"	4-1/4"
COB-T5-S	T5-S	3/16"	11/16"	5"
COB-T3-W	T3-W	1/8"	3/4"	5"
COB-T4-W	T4-W	5/32"	3/4"	5"
COB-T5-W	T5-W	3/16"	3/4"	5"
COB-T5-X	T5-X	1/8"	7/8"	5"
COB-T5-N	T5-N	5/32"	7/8"	5"
COB-T5	T5	3/16"	7/8"	5"
COB-T6	T6	1/4"	7/8"	5"
COB-T8-X	T8-X	1/8"	1-1/8"	5-1/2"
COB-T8-N	T8-N	5/32"	1-1/8"	5-1/2"
COB-T8	T8	3/16"	1-1/8"	5-1/2"
COB-T9	T9	1/4"	1-1/8"	5-1/2"
COB-T10	T10	5/16"	1-1/8"	5-1/2"

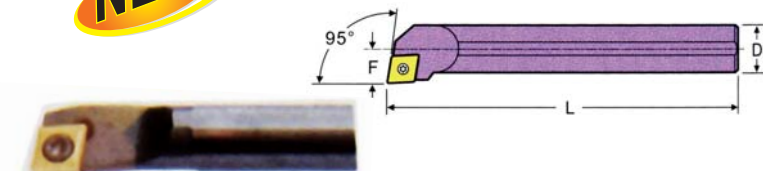
4pcs/set Indexable Boring Bars

Extreme fine gloss finish.
Utilizes 80° diamond CCMT inserts
Negative 5° end and side cutting angle
All boring bars supplied in fine wooden case
All boring bars supplied in white carbide inserts
With carbide inserts:
CCMT2151 2152 for 3/8"and 1/2"boring bars
CCMT3251 3252 for 5/8"and 3/4"boring bars



Model No.:IBBS-4

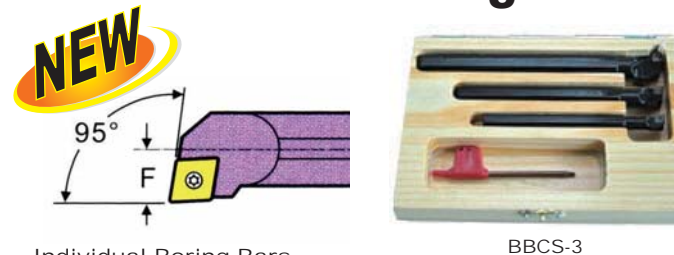
Boring Bars



Right Handed Boring Bar Shown In Picture (Left Hand Is available)

Model No.	Shank (D)	Dimension (F)	Length (L)	Inserts Used Boring Bar
S-SCLCR4-2	5/16"	0.1875"	4"	CCMT2151 CCMT2152
S-SCLCR6-2	3/8"	0.2500"	6"	CCMT2151 CCMT2152
S-SCLCR8-2	1/2"	0.2900"	7"	CCMT2151 CCMT2152
S-SCLCR8-3	1/2"	0.3120"	7"	CCMT3251 CCMT3252
S-SCLCR10-3	5/8"	0.4060"	8"	CCMT3251 CCMT3252
S-SCLCR12-3	3/4"	0.5000"	10"	CCMT3251 CCMT3252
S-SCLCR16-3	1"	0.6094"	12"	CCMT3251 CCMT3252
S-MCLNR16-4	1"	0.6400"	12"	CNMG-432
S-MCLNR20-4	1-1/4"	0.7650"	14"	CNMG-432
S-MCLNR24-4	1-1/2"	0.8900"	14"	CNMG-432
S-MCLNR28-4	1-3/4"	1.015"	14"	CNMG-432
S-MCLNR32-6	2"	1.281"	16"	CNMG-643

Coolant Thru Boring Bar Set



Individual Boring Bars

Model No.	ANSI Designation	Dia.	Dimension (F)	Length	Bore Dia.	Insert
BBC-5/8	A10M SCLCR 2	5/8"	0.43"	6.00"	0.80"	CCMT 21.5
BBC-1/2	A08K SCLCR 2	1/2"	0.35"	5.00"	0.63"	CCMT 21.5
BBC-3/8	A06J SCLCR 2	3/8"	0.28"	4.50"	0.51"	CCMT 21.5
BBCS-3	3PCS Set	Each Set Includes: 3 Boring Bars & 10 Inserts				
BBC-5/8	A10M SCLCR 2	5/8"	0.43"	6.00"	0.80"	CCMT 21.5
BBC-1/2	A08K SCLCR 2	1/2"	0.35"	5.00"	0.63"	CCMT 21.5
BBC-3/8	A06J SCLCR 2	3/8"	0.28"	4.50"	0.51"	CCMT 21.5
BBCS-3/16	A05H SCLCR 2	5/16"	0.24"	4.00"	0.39"	CCMT 21.5
BBCS-3	4PCS Set	Each Set Includes: 4 Boring Bars & 10 Inserts				