

BOR=A=TOOL

ACME

Offering a Complete
Selection of Carbide
Boring Tools

MicroGrain Carbide:

Micro-Miniature



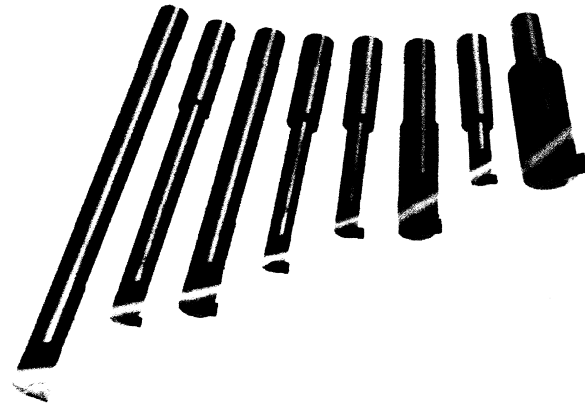
.040 - .170 Minimum Bore Diameter

Solid Carbide Stemmed



.093 - .250 Minimum Bore Diameter

Carbide Tipped Standard



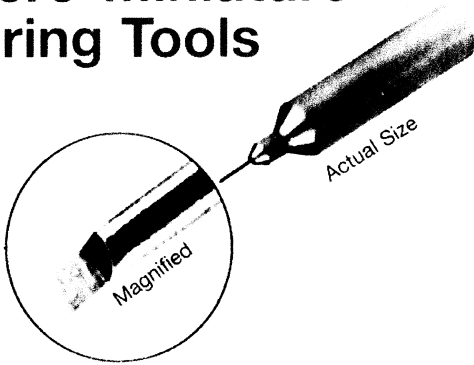
.3125 - 1.125 Minimum Bore Diameter

Specials

Requests for quotation on special carbide cutting tools are invited. We manufacture to customer specifications.

BOR-A-TOOL

Solid Stemmed Micro-Miniature Boring Tools



Features:

- Bore diameters from .040" to .170" and bore depths from .250" to .875".
- Shank diameter is .375" for all Miniature tools.
- Close tolerance shanks are held +.000 - .001 to size.
- Solid Carbide Stem brazed to fatigue-proof hardened steel shank.
- Miniature tools are made for use in Boramatics, Automatics, N.C. Machining Centers, Lathes, Jig Bores and Boring Machines.
- Acme MicroGrain Carbide.

brass.

MicroGrain is the preferred grade due to its superior edge holding, longer tool life and universal application for most metals.

- There is no difference in price among the three grades.

** Left Handed tools also available **

Specifications

Shank Diameter	Tool No.	Min Bore	Max Bore Depth	Overall Length
3/8"	04004	.040	1/4	1 7/8
	05005	.050	5/16	1 15/16
	06006	.060	3/8	2
	07007	.070	7/16	2 1/16
	08008	.080	1/2	2 1/8
	09009	.090	9/16	2 3/16
	10010	.100	5/8	2 1/4
	11511	.115	11/16	2 5/16
	13512	.135	3/4	2 3/8
	17014	.170	7/8	2 1/2

Size Code

040 04

Bore depth in 16ths

Bore diameter

All shank diameters are .375 + .000 - .001

BOR-A-TOOL

Metric Boring Tools



All Acme Metric tools are manufactured with shank sizes which are adaptable to metric tool holders

Features:

- Bore diameters from 2 mm to 20 mm. Choose appropriate bore depth depending on requirements.
- Shanks available in 8, 10, and 12 mm diameters (see chart) for metric tool holders.
- 8 mm shank tools are solid carbide stemmed.
- 10 mm shank tools are carbide tipped.
- Shanks are held to tolerances of +.000 - .0254 mm from stated size.
- Designed for a wide variety of production machines including N.C. Machining Centers, Automatics, Lathes, Boramatics, Boring Machines and Jig Bores.

MicroGrain

carbide is the preferred grade due to its superior edge holding, longer tool life and universal application for most metals.

- There is no difference in price among the three grades.

Specifications

Shank Diameter	Tool No.	Min Bore	Max Bore Depth	Overall Length
Carbide Stemmed 8 mm	MO21008	2	8	42
	MO31308	3	13	45
	MO32008	3	20	52
	MO52008	5	20	52
	MO53808	5	38	70
	MO62508	6	25	58
	MO63808	6	38	70
Carbide Tipped 10 mm	MO82010	8	20	52
	MO83010	8	30	62
	M104010	10	40	72
Carbide Tipped 12 mm	M104012	10	40	72
	M107512	10	75	110
	M123812	12	38	70
	M127512	12	75	110
	M154012	15	40	72
	M204012	20	40	72

Size Code

02 10 08

1 mm = .03937

Shank diameter in mm

Bore depth in mm

Bore diameter in mm

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Solid Carbide Stemmed and Carbide Tipped Boring Tools

Features:

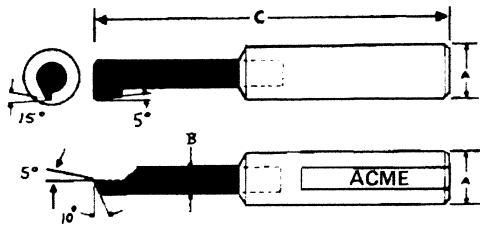
- Pocketed carbide tip and radial helix cut allow for maximum strength and rigidity of the tool and greater chip clearance from the cutting edge.
- Minimum bore sizes come in varying lengths for different boring applications.
- We offer as stock items

MicroGrain - Universal for most metals, superior edge holding, longer tool life.

- Shanks are made of durable fatigue-proof steel and are held to $\pm .000$ - $.001$ from nominal size.

** Left Handed tools also available **

Solid Carbide Stemmed



Specifications

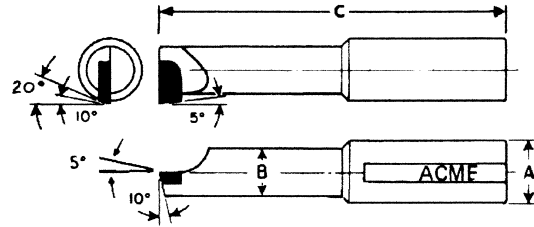
Shank Dia. A	Tool No.	Min Bore	Max Bore Depth	Tip to Center Line	Stem Dia. B	Overall Length C
5/16"	030305	3/32	3/8	.050	.077	1 5/8
	040305	1/8	3/8	.073	.086	1 5/8
	040405	1/8	1/2	.073	.086	1 3/4
	040605	1/8	3/4	.073	.086	2
	050305	5/32	3/8	.093	.106	1 5/8
	050605	5/32	3/4	.093	.106	2
	060405	3/16	1/2	.110	.135	1 3/4
	060705	3/16	7/8	.110	.135	2 1/8
	061205	3/16	1 1/2	.110	.135	2 3/4
	080505	1/4	5/8	.149	.187	1 7/8
	080805	1/4	1	.149	.187	2 1/4
3/8"	030306	3/32	3/8	.050	.077	1 5/8
	040306	1/8	3/8	.073	.086	1 5/8
	040406	1/8	1/2	.073	.086	1 3/4
	040606	1/8	3/4	.073	.086	2
	050306	5/32	3/8	.093	.106	1 5/8
	050606	5/32	3/4	.093	.106	2
	060406	3/16	1/2	.110	.135	1 3/4
	060706	3/16	7/8	.110	.135	2 1/8
	061206	3/16	1 1/2	.110	.135	2 3/4
	080506	1/4	5/8	.149	.187	1 7/8
	080806	1/4	1	.149	.187	2 1/4

Size Code

03 03 05

- Shank diameter in 16ths
- Bore depth in 8ths
- Bore diameter in 32nds

Carbide Tipped



Specifications

Shank Dia. A	Tool No.	Min Bore	Max Bore Depth	Tip to Center Line	Stem Dia. B	Overall Length C
5/16"	100605	5/16	3/4	.180	.250	2
	101005	5/16	1 1/4	.180	.250	2 1/2
	121205	3/8	1 1/2	.211	.312	2 3/4
3/8"	100606	5/16	3/4	.180	.250	2
	101006	5/16	1 1/4	.180	.250	2 1/2
	101606	5/16	2	.180	.250	3 1/4
	121206	3/8	1 1/2	.211	.312	2 3/4
	122406	3/8	3	.211	.312	4 1/4
	142206	7/16	2 3/4	.242	.375	4
	143406	7/16	4 1/4	.242	.375	5 1/2
	144306	7/16	5 3/8	.242	.375	6 5/8
	146006	7/16	7 1/2	.242	.375	8 3/4
	160806	1/2	1	.273	.437	2 1/4
	161206	1/2	1 1/2	.273	.437	2 3/4
201206	5/8	1 1/2	.360	.500	2 3/4	
241206	3/4	1 1/2	.422	.625	2 11/32	
1/2"	160808	1/2	1	.273	.437	2 1/4
	161208	1/2	1 1/2	.273	.437	2 3/4
	192608	19/32	3 1/4	.333	.500	4 1/2
	194308	19/32	5 3/8	.333	.500	6 5/8
	196008	19/32	7 1/2	.333	.500	8 3/4
	200808	5/8	1	.360	.500	2 1/4
	201208	5/8	1 1/2	.360	.500	2 3/4
	240808	3/4	1	.422	.625	1 27/32
	241208	3/4	1 1/2	.422	.625	2 11/32
	280808	7/8	1	.485	.750	1 27/32
	281208	7/8	1 1/2	.485	.750	2 11/32
321208	1	1 1/2	.547	.875	2 11/32	
361208	1 1/8	1 1/2	.610	1.000	2 11/32	

5/8"	224310	11/16	5 3/8	.364	.625	6 5/8
	226010	11/16	7 1/2	.364	.625	8 3/4
3/4"	282612	7/8	3 1/4	.485	.750	4 1/4
	284312	7/8	5 3/8	.485	.750	6 5/8
	286012	7/8	7 1/2	.485	.750	8 3/4

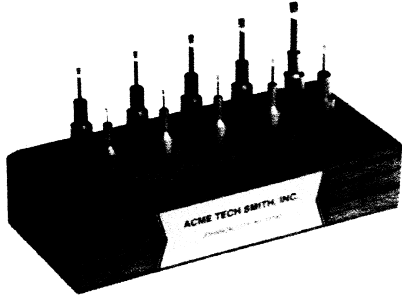
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Micro-Miniature, Solid Carbide Stemmed and Carbide Tipped Boring Bar Sets

All sets are shipped with their own oak wood holder of our best selling, most asked for bars. Please be sure to specify desired grade when ordering.

MicroGrain Carbide. All sets consist

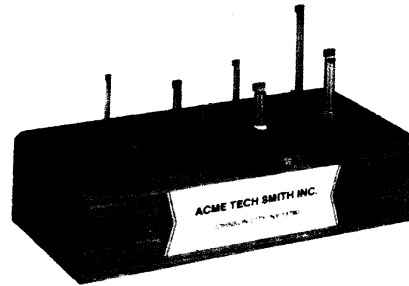
Micro-Miniature



10 Tool Micro Kit
(consists of all Micro's available)

		MicroGrain Carbide	
Min. Bores	.040 to .170	04004	09009
Bore Depths	1/4 to 7/8	05005	10010
Shanks	3/8	06006	11511
		07007	13512
		08008	17014

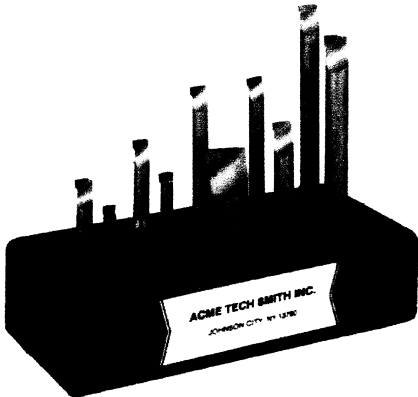
Solid Carbide Stemmed



8 Tool Standard Kit
(please specify shank size when ordering)

		MicroGrain Carbide	
		3/8 shank size shown	
Min. Bores	3/32 to 1/4	030306	060406
Bore Depths	3/8 to 1 1/2	040306	061206
Shanks	5/16 or 3/8	040606	080506
		050606	080806

Carbide Tipped



10 Tool Versa Kit

		MicroGrain Carbide	
Min. Bores	1/4 to 3/4	*080506	122406
Bore Depths	5/8 to 4 1/4	*080806	142206
Shanks	3/8	100606	143406
		101606	161206
		121206	241206
		*Solid Stem	



8 Tool Stubi Kit

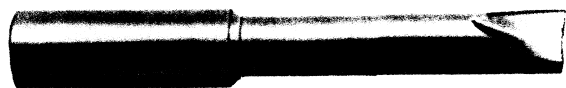
		MicroGrain Carbide	
Min. Bores	1/2 to 1 3/8	161208	321208
Bore Depths	1 1/2	201208	361208
Shanks	1/2	241208	401208
		281208	441208

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Straight Fluted Solid Carbide Boring Bars

Features:

- Available in carbide only.
- Bore diameters from .020 to .360.
- Shank sizes from 1/16 to 3/8.
- Straight cutting edge allows for a light finishing cut associated with precision boring.

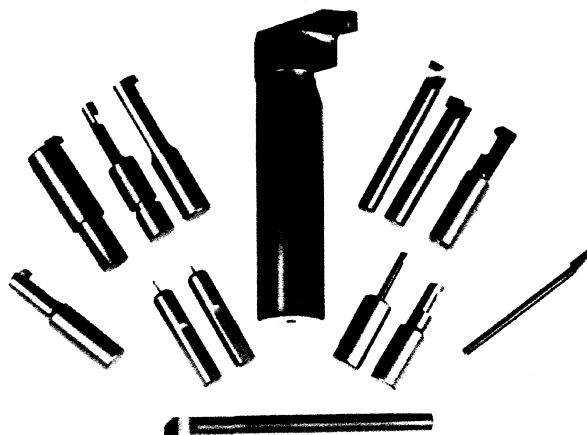


Specifications

Shank Diameter	Tool No.	Min Bore	Max Bore Depth	Overall Length
1/16	AF20	.020	1/16	3/4
1/16	AF30	.030	5/64	3/4
3/32	AF40	.040	3/32	1
3/32	AF50	.050	1/8	1
1/8	AF60	.060	3/16	1 1/2
1/8	AF70	.070	1/4	1 1/2
1/8	AF80	.080	3/8	1 1/2
1/8	AF90	.090	1/2	1 1/2
1/8	AF120	.120	5/8	1 1/2
3/16	AF150	.150	3/4	2
3/16	AF180	.180	1	2
1/4	AF210	.210	1 1/4	2
1/4	AF240	.240	1 1/4	2
5/16	AF270	.270	1 1/4	2 1/2
5/16	AF300	.300	1 1/4	2 1/2
3/8	AF330	.330	1 1/2	2 1/2
3/8	AF360	.360	1 1/2	2 1/2

Special Carbide Tools

- Boring Tools
- Facing Tools
- Threading Tools
- Turning Tools



In addition to our line of brazed carbide boring bars ACME Tech Smith, Inc. manufactures special cutting tools for I.D. and O.D. work. These special tools provide real economy and the greatest efficiency in your most demanding operations.

Boring Tools

We manufacture carbide tipped and carbide stemmed single point tooling for special boring applications from 8" bore diameter down to .045" diameter with shank diameters from 3" to .0625". For very precise tolerance diameter boring, our special sizing tools for jig bores, are generally solid carbide steel point tools with a tool tolerance of $\pm .001$ ".

Threading Tools

We will manufacture, to your print, single point tooling for creating internal screw threads.

Facing Tools

We will manufacture, to your print, single point tooling for cross axis metal cutting on the end of a work piece.

Turning Tools

We will manufacture, to your print, turning tools used for metal cutting along axis on the O.D. of a work piece.

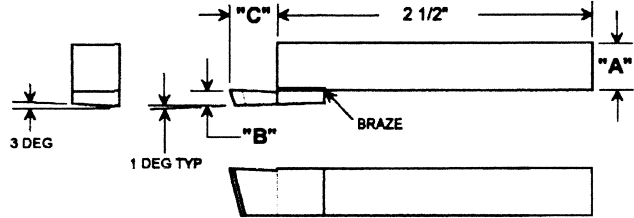
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Carbide Brazed Cut-Off Tools

Features:

- Shank has a .375" diameter and is 2 1/2 inches in length.
 - Solid carbide tip brazed to steel shank.
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- Cut-Off tools can be used in lathes or chuckers.

"A" Shank Diameter	Tool No.	"B" Tip Thickness	"C" Tip Length
.375	88415	.125	.375
.375	68400	.062	.375



Order by tool number

ACME
