

ACME BOR-A-TOOL

ACME Tech
Smith
Inc.

Offering a Complete
Selection of Carbide
Boring Tools in C2, C6,
and 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 Boromatics, Automatics, N.C. Machining Centers, Lathes, Jig Bores and Boring Machines.
- Acme offers C2, C6 and MicroGrain Carbide. C2 is for softer metals such as bronze, aluminum, cast iron and brass. C6 is used for boring stainless steel and harder alloys. 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

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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, Boromatics, Boring Machines and Jig Bores.
- Metric tools are available in C2 carbide for bronze, aluminum, cast iron and brass; C6 carbide for harder stainless steel and sophisticated alloys. 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	
Carbide Tipped 10 mm	MO63808	6	38	70	
	MO82010	8	20	52	
	MO83010	8	30	62	
	M104010	10	40	72	
	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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Micro-Miniature, Solid Carbide Stemmed and Carbide Tipped Boring Bar Sets

All sets are shipped with their own oak wood holder and are available in C2, C6 and MicroGrain Carbide. All sets consist of our best selling, most asked for bars. Please be sure to specify desired grade when ordering.

Micro-Miniature

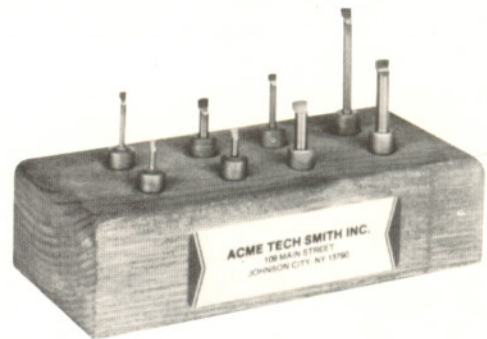


10 Tool Micro Kit
(consists of all Micro's available)

C2, C6 and 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

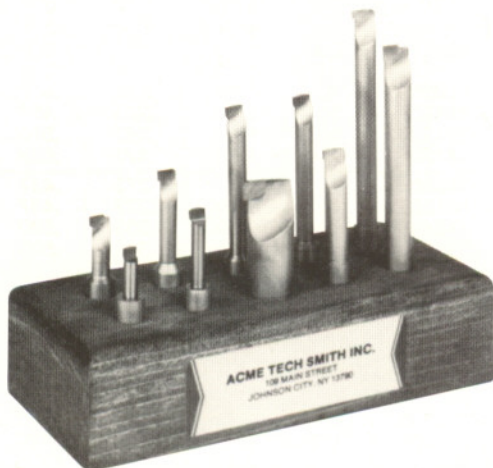


8 Tool Standard Kit
(please specify shank size when ordering)

C2, C6 and 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

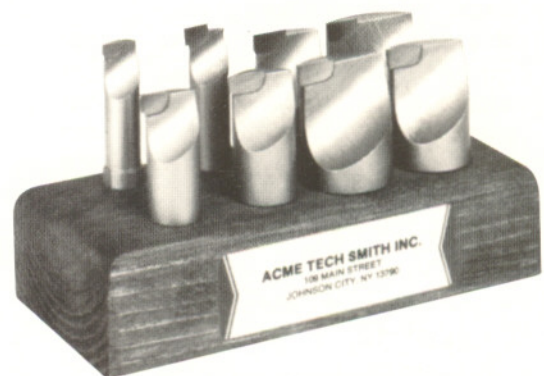
Carbide Tipped



10 Tool Versa Kit

C2, C6 and 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	



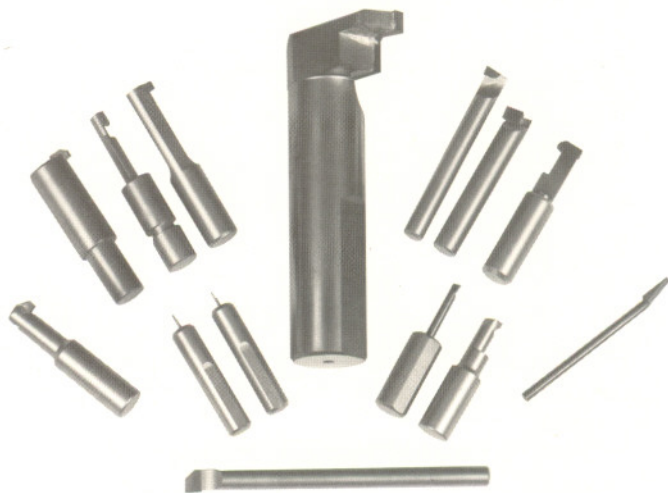
8 Tool Stubi Kit

C2, C6 and 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

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.

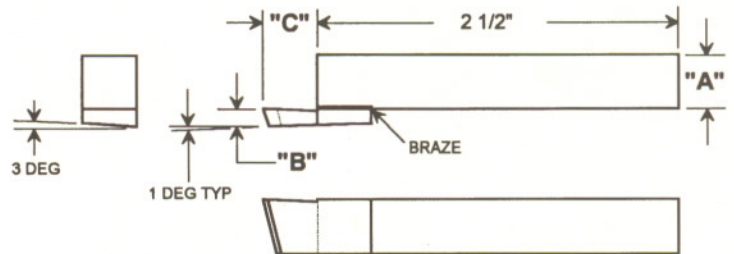
BOR=A=TOOL

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.
- Available in C2 or C6 carbide. C2 is for softer metals such as bronze, aluminum cast iron and brass. C6 is used for stainless steel and harder alloys. There is no difference in price among the two grades.
- 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



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