

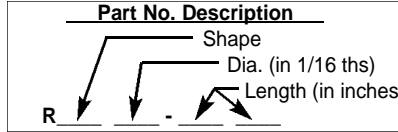
Carbide Rotary Burs

— FOR SLOT CLEANING —

Proven to be one of the handiest tools for getting at those hard-to-reach spots in armature and stator slots. These special extra long and extremely hard tungsten carbide cutting tools cut right through and remove flash welds and other hard obstructions easily. These tungsten carbide burs perform best at higher speeds in the 18,000 to 25,000 r.p.m. range, such as provided by the grinders shown under [Rotary Burs / Grinders, Hand, Air / Electric].

The 4" or 6" Length x 1/4" diameter Solid Carbide Burs are generally recommended for slot cleaning. Occasionally situations arise where a longer length bur or a slightly larger diameter are required. In these situations we do offer carbide burs brazed onto longer steel shanks, as listed under [Rotary Burs / Carbide, Burs / Long Carbide Burs with Steel Shanks], with either 1/4" or 3/8" diameter heads.

Solid Carbide Burs ground from solid carbide rod. Available with 1/4" diam. heads x 4" or 6" length, with 1/4" diam shanks:



Part No.	<u>Catalog Number</u>
RB4-04	CABURB404
RB4-06	CABURB406



RC4-04	CABURC404
RC4-06	CABURC406



RD4-04	CABURD404
RD4-06	CABURD406

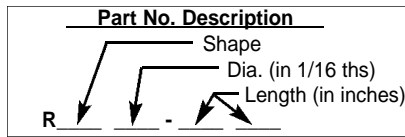


RH4-04	CABURH404
RH4-06	CABURH406



RJ4-04	CABURJ404
RJ4-06	CABURJ406

Solid Carbide Bur Heads, brazed to steel shanks. Available with 1/4" or 3/8" diam. heads, in various overall lengths, and 1/4" diam. shanks:



If the size you need isn't listed, please ask for a quotation.

Also see "Burs, High Speed Steel / Finning Burs" for long High Speed Steel burs.

Martindale CARBIDE Rotary Burs

For the toughest metal-cutting jobs, for cutting abrasive materials and metals too hard or tough for high-speed steel tools, Martindale Carbide Rotary Burs are the answer.

Each tool is ground from solid tungsten-carbide by precision automatic machinery assuring exact contours and dimensions as well as per-

fect concentricity.

Specials: The tool shapes and sizes listed below are considered stock tools, as they are the ones most commonly used. For particular operations, however, other shapes, or other sizes in the shapes listed, can easily be furnished upon receipt of your specifications.

Teeth: Standard cut tools have the following

numbers of teeth per inch of circumference (more or fewer teeth can be furnished if desired):

Diam.	Teeth per in.	Diam.	Teeth per in.
1/8"	31	1/2"	16
1/4"	25	5/8"	16
3/8"	20	3/4"	13

(See [Rotary Burs / Burs, Carbide / Small Burs] for recommended speeds and information on regrinding.)



CYLINDER
No End Cut

Tool No.	Diam.	Length	Catalog Number
RA2	1/8"	5/8"	CABURA2
RA4	1/4"	5/8"	CABURA4
RA6	3/8"	3/4"	CABURA6
RA8	1/2"	1"	CABURA8
RA10	5/8"	1"	CABURA10
RA12	3/4"	1"	CABURA12

(with end-cut — add 10%)



CYLINDER
Radius End

Tool No.	Diam.	Length	Catalog Number
RB2	1/8"	1/2"	CABURB2
RB4	1/4"	5/8"	CABURB4
RB6	3/8"	3/4"	CABURB6
RB8	1/2"	1"	CABURB8
RB10	5/8"	1"	CABURB10
RB12	3/4"	1"	CABURB12



TREE
Radius End

Tool No.	Diam.	Length	Catalog Number
RC4	1/4"	5/8"	CABURC4
RC6	3/8"	3/4"	CABURC6
RC8	1/2"	1"	CABURC8
RC10	5/8"	1"	CABURC10
RC12	3/4"	1"	CABURC12



TREE
Pointed End

Tool No.	Diam.	Length	Catalog Number
RD4	1/4"	5/8"	CABURD4
RD6	3/8"	3/4"	CABURD6
RD8	1/2"	3/4"	CABURD8
RD10	5/8"	1"	CABURD10
RD12	3/4"	1"	CABURD12



BALL

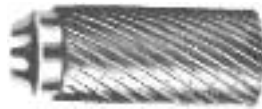
Tool No.	Diam.	Length	Catalog Number
RH2	1/8"	3/32"	CABURH2
RH4	1/4"	7/32"	CABURH4
RH6	3/8"	5/16"	CABURH6
RH8	1/2"	7/16"	CABURH8
RH10	5/8"	9/16"	CABURH10
RH12	3/4"	11/16"	CABURH12



OVAL

Tool No.	Diam.	Length	Catalog Number
RJ4	1/4"	3/8"	CABURJ4
RJ6	3/8"	5/8"	CABURJ6
RJ8	1/2"	7/8"	CABURJ8
RJ10	5/8"	1"	CABURJ10
RJ12	3/4"	1"	CABURJ12

CUTS AVAILABLE:

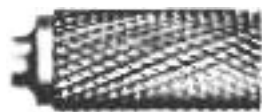


*STANDARD CUT (List Price)

*Furnished unless otherwise specified.



DOUBLE CUT (List Price)



DIAMOND CUT(List + 20%)



FAST MILLCUT(List + 20%)

SHANKS:

1/4" diam x 1-1/4" or more long, to give maximum of 2-1/4" overall length.

(\$20.00 Minimum Billing)



INVERTED CONE

Tool No.	Diam.	Length	Catalog Number
RT4	1/4"	5/16"	CABURT4
RT8	1/2"	1/2"	CABURT8
RT12	3/4"	5/8"	CABURT12

(with end-cut — add 10%)



CONE

Tool No.	Diam.	Length	Incl. Angle	Catalog Number
RF4	1/4"	1"	10°	CABURF4
RF6	3/8"	5/8"	28°	CABURF6
RF8	1/2"	7/8"	28°	CABURF8
RF10	5/8"	1"	31°	CABURF10



CONE
14° Included Angle

Tool No.	Diam.	Length	Incl. Angle	Catalog Number
RL4	1/4"	5/8"	14°	CABURL4
RL5	5/16"	7/8"	14°	CABURL5
RL6	3/8"	1-1/16"	14°	CABURL6
RL8	1/2"	1-1/8"	14°	CABURL8
RL10	5/8"	1-5/16"	14°	CABURL10
RL12	3/4"	1-1/2"	14°	CABURL12



CONE
60° and 90°

Tool No.	Diam.	Length	Incl. Angle	Catalog Number
RS6	3/8"	5/16"	60°	CABURS6
RS8	1/2"	7/16"	60°	CABURS8
RS10	5/8"	9/16"	60°	CABURS10
RS12	3/4"	11/16"	60°	CABURS12
RG6	3/8"	3/16"	90°	CABURG6
RG8	1/2"	1/4"	90°	CABURG8
RG10	5/8"	5/16"	90°	CABURG10
RG12	3/4"	3/8"	90°	CABURG12











FLAME

Tool No.	Diam.	Length	Catalog Number
RV5	5/16"	3/4"	CABURV5
RV8	1/2"	1-1/4"	CABURV8
RV10	5/8"	1-7/16"	CABURV10
RV12	3/4"	1-5/8"	CABURV12















Martindale CARBIDE Rotary Burs (Cont'd.)

Solid Carbide
3/32" Diam. Shank
1-1/4" Overall Length










**SMALL DIAMETER
CARBIDE ROTARY BURS**

								
Tool No.	XA-3/32	XB-3/32	XC-3/32	XD-3/32	XF-3/32	XH-3/32	XJ-3/32	XT-3/32
Diam. Cut	3/32"	3/32"	3/32"	3/32"	3/32"	3/32"	3/32"	3/32"
Length Cut	3/8"	3/8"	1/4"	1/4"	1/4"	3/32"	1/8"	1/8"
Catalog Number	CABUXA332	CABUXB332	CABUXC332	CABUXD332	CABUXF332	CABUXH332	CABUXJ332	CABUXT332

Solid Carbide
1/8" Diam. Shank
1-1/2" Overall Length









														
Tool No.	XA-1/8S	XA-1/8	XB-1/8S	XB-1/8	XC-1/8	XD-1/8	XF-1/8	XH-1/8S	XH-1/8	XJ-1/8	XT-1/8	XV-1/8	XS-1/8	XG-1/8
Diam. Cut	3/32"	1/8"	3/32"	1/8"	1/8"	1/8"	1/8"	3/32"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
Length Cut	7/16"	9/16"	7/16"	9/16"	1/2"	1/2"	1/2"	3/32"	1/8"	7/32"	3/16"	1/4"	60°	90°
Catalog Number	CABUXA18S	CABUXA18	CABUXB18S	CABUXB18	CABUXC18	CABUXD18	CABUXF18	CABUXH18S	CABUXH18	CABUXJ18	CABUXT18	CABUXV18	CABUXS18	CABUXG18

Solid Carbide
1/8" Diam. Shank
1-1/2" Overall Length











									
Tool No.	LA-3	LB-3	LC-3	LD-3	LF-3	LH-3	LJ-3	LT-3	LV-3
Diam. Cut	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
Length Cut	1/2"	1/2"	1/2"	1/2"	1/2"	5/32"	9/32"	1/4"	3/8"
Catalog Number	CABULA3	CABULB3	CABULC3	CABULD3	CABULF3	CABULH3	CABULJ3	CABULT3	CABULV3

Carbide Bur Sets
See [Rotary Burs /
Burs, Carbide /
Sets] for special
prices on 8 sets
of 6 pc. Carbide
Bur Sets









**Solid Carbide Head
Steel Shank**
1/8" Diam. Shank
1-1/4" Shank Length

								
Tool No.	KA-4	KB-4	KC-4	KD-4	KF-4	KH-4	KJ-4	KT-4
Diam. Cut	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Length Cut	1/2"	1/2"	1/2"	1/2"	1/2"	7/32"	3/8"	1/4"
Catalog Number	CABUKA4	CABUKB4	CABUKC4	CABUKD4	CABUKF4	CABUKH4	CABUKJ4	CABUKT4

Solid Carbide
3/16" Diam. Shank
2" Overall Length

										
Tool No.	XA-3/16	XB-3/16	XC-3/16	XD-3/16	XF-3/16	XH-3/16	XJ-3/16	XT-3/16	XS-3/16	XG-3/16
Diam. Cut	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"	3/16"
Length Cut	1/2"	1/2"	1/2"	1/2"	7/16"	5/32"	9/32"	1/4"	60°	90°
Catalog Number	CABUXA316	CABUXB316	CABUXC316	CABUXD316	CABUXF316	CABUXH316	CABUXJ316	CABUXT316	CABUXS316	CABUXG316

Solid Carbide Head
1/4" Diam. Shank
2" Overall Length

								
Tool No.	RA-4	RB-4	RC-4	RD-4	RF-4	RH-4	RJ-4	RT-4
Diam. Cut	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Length Cut	5/8"	5/8"	5/8"	5/8"	1"	7/32"	3/8"	5/16"
Catalog Number	CABURA4	CABURB4	CABURC4	CABURD4	CABURF4	CABURH4	CABURJ4	CABURT4

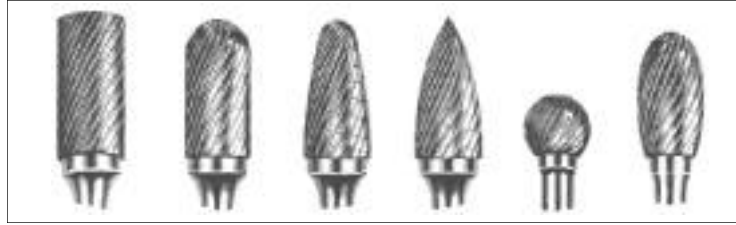
Regrinding: Martindale Carbide Rotary Burs can be reground many times with only a very small alteration in the size of the tool and with no reduction of new tool cutting ability. Cost is approximately 25% of a new tool cost.
* If tools need reconditioning work, other than ordinary regrinding (chipped teeth, damaged shanks, etc.), price will be double that of rearinding.

Recommended Speeds for Carbide Burs:

Diam.	R.P.M.	Diam.	R.P.M.
1/8"	45,000	5/8"	18,000
1/4"	30,000	3/4"	16,000
3/8"	24,000	7/8"	14,500
1/2"	20,000	1"	13,000

(Diameter means largest cutting surface diameter).

(These speeds may be varied up to 50% on some jobs with very good results as to stock removal and finish obtained.)



Carbide Bur Sets in the above 6 shapes are available in 8 different sizes as indicated below and as detailed under Standard and Small Burs.

Sets	Bur Diameter	Shank Diameter	Burs Included In Set	Catalog Number
X-3/32	3/32"	3/32"	XA-3/32, XB-3/32, XC-3/32, XD-3/32, XH-3/32, XJ-3/32	CABUX332
X-1/8	1/8"	1/8"	XA-1/8, XB-1/8, XC-1/8, XD-1/8, XH-1/8, XJ-1/8	CABUX18
X-3/16	3/16"	3/16"	XA-3/16, XB-3/16, XC-3/16, XD-3/16, XH-3/16, XJ-3/16	CABUX316
R-4	1/4"	1/4"	RA-4, RB-4, RC-4, RD-4, RH-4, RJ-4	CABUR4
R-3/8	3/8"	1/4"	RA6, RB6, RC6, RD6, RH6, RJ6	CABUR38
R-1/2	1/2"	1/4"	RA8, RB8, RC8, RD8, RH8, RJ8	CABUR12
L3	3/16"	1/8"	LA-3, LB-3, LC-3, LD-3, LH-3, LJ-3	CABUL3
K4	1/4"	1/8"	KA-4, KB-4, KC-4, KD-4, KH-4, KJ-4	CABUK4