

\$8.62

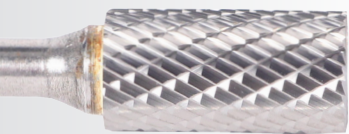
HTC[®]

TOOL-CUTTER & MFG.

BURR DIVISION



100% MADE IN MICHIGAN, U.S.A.



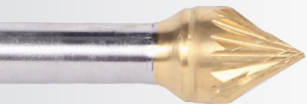
BURR DIVISION

TOOL - CUTTER MANUFACTURING



Our Promise:

What is your definition of the word quality? Is it high endurance? Outstanding performance? Here at HTC we craft our tools to uphold and maintain that interpretation of quality. We implement only the best raw use of complex geometries and specialized coatings ensures satisfaction for both you and your customer.



Corporations recognize the excellence of HTC's product not only across the continent but around the world as well.



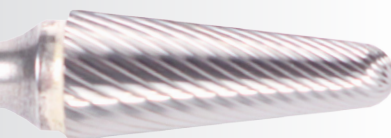
Quality can also be defined as excellence, which is attributed to our customer service team. Our experienced and knowledgeable staff members are ready and eager to advise and assist our customers expediently.



We greatly appreciate the support afforded to us by our customers, and every day we do what we can to reciprocate it back. HTC encourages all customers to take advantage of our open door policy, and all visits to our facility are welcome with no appointment necessary.



HTC believes in building strong working relationships with our customers and keeping an open pathway for any comments or concerns, because part of perpetuating quality is a willingness to constantly improve. Forward thinking is on the daily agenda for the staff at HTC, but we are here to listen to our customers as well and take into account what you'd like to see from us. Supporting our customers is at the base of our company.



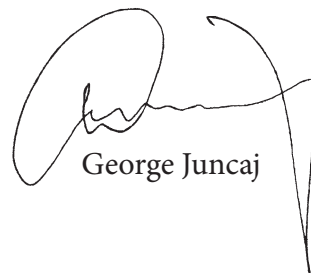
HTC, like most companies and corporations, arose from humble beginnings. It is for that reason that we offer our superior product at affordable prices, making it possible for every company, to be able to supply their customers with the best tool the market has to offer.



We take pride in our work here at HTC, and it is our pleasure to help facilitate the needs of our customers whether it be a special tool, technical advice or economical pricing. You can depend on HTC, because quality is our foundation.



Thank you for your trust!



George Juncaj

PROUDLY MADE IN THE U.S.A....



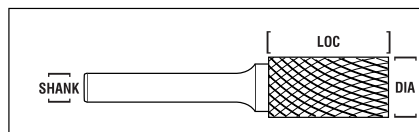
... A NAME YOU CAN TRUST.



TOOL - CUTTER MANUFACTURING

BURR DIVISION

SA
BURRS



SA STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SA-1	1/4	5/8	1/4	2"	\$ 7.75
SA-1L	1/4	1"	1/4	2"	\$ 10.12
SA-1L3	1/4	1"	1/4	3 1/4	\$ 12.15
SA-1L6	1/4	1/2	1/4	6 1/4	\$ 16.55
SA-1NF	1/4	5/8	1/4	2"	\$ 10.25
SA-2	5/16	3/4	1/4	2 1/16	\$ 9.75
SA-3	3/8	3/4	1/4	2 1/8	\$ 10.50
SA-3L	3/8	1"	1/4	2 1/8	\$ 11.95
SA-3L6	3/8	3/4	1/4	6 3/8	\$ 21.85
SA-3X	3/8	1 1/2	1/4	2 1/8	\$ 15.65
SA-3NF	3/8	3/4	1/4	2 1/8	\$ 15.25
SA-4	7/16	1"	1/4	2 3/16	\$ 15.50
SA-5	1/2	1"	1/4	2 1/4	\$ 17.40
SA-5L6	1/2	1"	1/4	6 1/2	\$ 30.62
SA-5NF	1/2	1"	1/4	2 1/4	\$ 23.65
SA-6	5/8	1"	1/4	2 3/8	\$ 21.25
SA-7	3/4	1"	1/4	2 1/2	\$ 33.00
SA-7NF	3/4	1"	1/4	2 1/2	\$ 47.50
SA-8	7/8	1"	1/4	2 5/8	\$ 40.97
SA-9	1"	1"	1/4	2 3/4	\$ 63.25
SA-11	1/8	1/2	1/4	2"	\$ 10.12
SA-12	1/8	5/8	1/4	2"	\$ 9.00
SA-13	5/32	5/8	1/4	2"	\$ 7.62
SA-14	3/16	5/8	1/4	2"	\$ 9.00
SA-15	3/4	1/2	1/4	2 1/2	\$ 27.32
SA-16	3/4	3/4	1/4	2 1/2	\$ 32.60
SA-41	1/16	1/4	1/8	1 1/2	\$ 4.95
SA-41L2	1/16	1/4	1/8	2"	\$ 5.75
SA-41L3	1/16	1/4	1/8	3"	\$ 6.47
SA-42	3/32	7/16	1/8	1 1/2	\$ 4.95
SA-42L2	3/32	7/16	1/8	2"	\$ 5.75
SA-42L3	3/32	7/16	1/8	3"	\$ 6.47
SA-43	1/8	9/16	1/8	1 1/2	\$ 4.95
SA-43L2	1/8	9/16	1/8	2"	\$ 5.75
SA-43L3	1/8	9/16	1/8	3"	\$ 6.47
SA-51	1/4	1/2	1/8	1 3/4	\$ 8.50
SA-52	5/32	1/2	1/8	1 3/4	\$ 8.50
SA-53	3/16	1/2	1/8	1 11/16	\$ 8.50
SA-61	1/16	1/4	3/32	1 1/2	\$ 5.05
SA-63	3/32	3/8	3/32	1 1/2	\$ 5.05
SA-81	3/16	5/8	3/16	2"	\$ 8.20

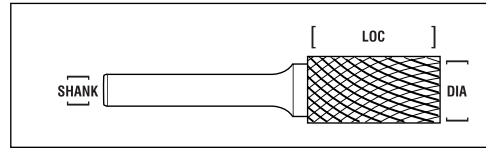
TiN Coating
Available



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SB STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SB-1	1/4	5/8	1/4	2"	\$ 8.35
SB-1L	1/4	1"	1/4	2"	\$ 10.92
SB-2	5/16	3/4	1/4	2 1/16	\$ 10.07
SB-3	3/8	3/4	1/4	2 1/8	\$ 11.80
SB-3NF	3/8	3/4	1/4	2 1/8	\$ 18.70
SB-3L	3/8	1"	1/4	2 1/8	\$ 12.37
SB-3X	3/8	1 1/2	1/4	2 1/8	\$ 15.82
SB-4	7/16	1"	1/4	2 3/16	\$ 14.25
SB-5	1/2	1"	1/4	2 1/4	\$ 17.12
SB-5NF	1/2	1"	1/4	2 1/4	\$ 24.45
SB-6	5/8	1"	1/4	2 3/8	\$ 22.30
SB-7	3/4	1"	1/4	2 1/2	\$ 29.05
SB-8	7/8	1"	1/4	2 5/8	\$ 41.55
SB-9	1"	1"	1/4	2 3/4	\$ 64.70
SB-11	1/8	1/2	1/4	2"	\$ 7.72
SB-12	1/8	5/8	1/4	2"	\$ 7.72
SB-13	5/32	5/8	1/4	2"	\$ 9.77
SB-14	3/16	5/8	1/4	2"	\$ 7.72
SB-15	3/4	1/2	1/4	2 1/2	\$ 32.07
SB-16	3/4	3/4	1/4	2 1/2	\$ 32.07
SB-41	1/16	1/4	1/8	1 1/2	\$ 5.32
SB-41L2	1/16	1/4	1/8	2"	\$ 5.75
SB-41L3	1/16	1/4	1/8	3"	\$ 6.47
SB-42	3/32	7/16	1/8	1 1/2	\$ 5.32
SB-42L2	3/32	7/16	1/8	2"	\$ 5.75
SB-42L3	3/32	7/16	1/8	3"	\$ 6.47
SB-43	1/8	9/16	1/8	1 1/2	\$ 5.32
SB-43L2	1/8	9/16	1/8	2"	\$ 5.75
SB-43L3	3/32	9/16	1/8	3"	\$ 6.47
SB-51	1/4	1/2	1/8	1 3/4	\$ 7.45

TiN Coating
Available



SHANKS AVAILABLE UP TO 12" OVERALL LENGTH.

3/8 SHANKS AND SPECIALS AVAILABLE UPON REQUEST.

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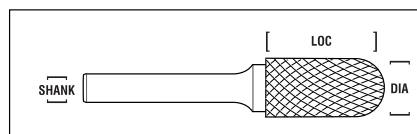


TOOL - CUTTER MANUFACTURING

BURR DIVISION

SC

BURRS



SC STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SC-1	1/4	5/8	1/4	2"	\$ 8.62
SC-1L	1/4	1"	1/4	2"	\$ 10.92
SC-1L6	1/4	1/2	1/4	6 1/4	\$ 16.55
SC-1NF	1/4	5/8	1/4	2"	\$ 10.65
SC-2	5/16	3/4	1/4	2 1/16	\$ 10.07
SC-3	3/8	3/4	1/4	2 1/8	\$ 11.50
SC-3L	3/8	1"	1/4	2 1/8	\$ 11.95
SC-3X	3/8	1 1/2	1/4	2 1/8	\$ 14.67
SC-3L6	3/8	3/4	1/4	6 3/8	\$ 22.00
SC-3NF	3/8	3/4	1/4	2 1/8	\$ 15.40
SC-4	7/16	1"	1/4	2 3/16	\$ 14.10
SC-5	1/2	1"	1/4	2 1/4	\$ 15.82
SC-5L6	1/2	1"	1/4	6 1/2	\$ 28.75
SC-5NF	1/2	1"	1/4	2 1/4	\$ 23.00
SC-6	5/8	1"	1/4	2 3/8	\$ 20.70
SC-6NF	5/8	1"	1/4	2 3/8	\$ 27.75
SC-7	3/4	1"	1/4	2 1/2	\$ 31.92
SC-7NF	3/4	1"	1/4	2 1/2	\$ 38.52
SC-9	1"	1"	1/4	2 3/4	\$ 51.62
SC-11	1/8	1/2	1/4	2"	\$ 7.62
SC-12	1/8	5/8	1/4	2"	\$ 7.62
SC-13	5/32	5/8	1/4	2"	\$ 7.62
SC-14	3/16	5/8	1/4	2"	\$ 7.62
SC-15	3/4	1/2	1/4	2 1/2	\$ 33.00
SC-16	3/4	3/4	1/4	2 1/2	\$ 41.40
SC-41	3/32	7/16	1/8	1 1/2	\$ 5.32
SC-42	1/8	9/16	1/8	1 1/2	\$ 5.32
SC-42L2	1/8	9/16	1/8	2"	\$ 5.75
SC-42L3	1/8	9/16	1/8	3"	\$ 6.47
SC-51	1/4	1/2	1/8	1 3/4	\$ 8.50
SC-52	5/32	1/2	1/8	1 21/32	\$ 8.50
SC-53	3/16	1/2	1/8	1 11/16	\$ 8.50
SC-61	3/32	3/8	3/32	1 1/2	\$ 5.05
SC-81	3/16	5/8	3/16	2"	\$ 6.62

TiN Coating
Available



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SD STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SD-1	1/4	7/32	1/4	2"	\$ 8.77
SD-1L6	1/4	7/32	1/4	6 1/4	\$ 16.10
SD-1NF	1/4	7/32	1/4	2"	\$ 10.07
SD-2	5/16	1/4	1/4	2 1/16	\$ 9.35
SD-3	3/8	5/16	1/4	2 1/8	\$ 10.50
SD-3L6	3/8	5/16	1/4	6 3/8	\$ 19.85
SD-3NF	3/8	5/16	1/4	2 1/8	\$ 13.80
SD-4	7/16	3/8	1/4	2 3/16	\$ 11.95
SD-5	1/2	7/16	1/4	2 1/4	\$ 14.10
SD-5L6	1/2	7/16	1/4	6 1/2	\$ 23.00
SD-5NF	1/2	7/16	1/4	2 1/4	\$ 18.80
SD-6	5/8	9/16	1/4	2 3/8	\$ 19.42
SD-6NF	5/8	9/16	1/4	2 3/8	\$ 24.72
SD-7	3/4	11/16	1/4	2 1/2	\$ 23.57
SD-7NF	3/4	11/16	1/4	2 1/2	\$ 33.07
SD-9	1"	15/16	1/4	2 3/4	\$ 39.82
SD-11	1/8	3/32	1/4	2"	\$ 7.47
SD-14	3/16	1/8	1/4	2"	\$ 7.62
SD-41	3/32	3/32	1/8	1 1/2	\$ 5.32
SD-42	1/8	1/8	1/8	1 1/2	\$ 5.32
SD-42L2	1/8	1/8	1/8	2"	\$ 5.75
SD-42L3	1/8	1/8	1/8	3"	\$ 6.47
SD-51	1/4	7/32	1/8	1 3/4	\$ 8.50
SD-52	5/32	5/32	1/8	1 21/32	\$ 8.50
SD-53	3/16	3/16	1/8	1 11/16	\$ 8.50
SD-61	3/32	3/32	3/32	1 1/2	\$ 5.05
SD-81	3/16	5/32	3/16	2"	\$ 6.62

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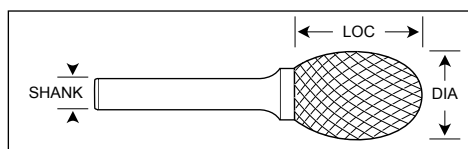
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TOOL - CUTTER MANUFACTURING

BURR DIVISION

SE
BURRS



SE STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SE-1	1/4	3/8	1/4	2"	\$ 8.77
SE-1L6	1/4	3/8	1/4	6 1/4	\$ 16.22
SE-3	3/8	5/8	1/4	2 1/8	\$ 11.37
SE-3L6	3/8	5/8	1/4	6 3/8	\$ 22.57
SE-3NF	3/8	5/8	1/4	2 1/8	\$ 15.52
SE-5	1/2	7/8	1/4	2 1/4	\$ 15.82
SE-5L6	1/2	7/8	1/4	6 1/2	\$ 28.75
SE-5NF	1/2	7/8	1/4	2 1/4	\$ 23.00
SE-6	5/8	1"	1/4	2 3/8	\$ 21.27
SE-6NF	5/8	1"	1/4	2 3/8	\$ 28.47
SE-7	3/4	1"	1/4	2 1/2	\$ 32.20
SE-7NF	3/4	1"	1/4	2 1/2	\$ 38.67
SE-11	3/16	5/16	1/4	2"	\$ 8.20
SE-41	1/8	7/32	1/8	1 1/2	\$ 5.32
SE-41L2	1/8	7/32	1/8	2"	\$ 5.75
SE-42L3	1/8	7/32	1/8	3"	\$ 6.47
SE-51	1/4	3/8	1/8	1 3/4	\$ 8.50
SE-53	3/16	9/32	1/8	1 11/16	\$ 8.50
SE-61	3/32	1/8	3/32	1 1/2	\$ 5.05
SE-81	3/16	9/32	3/16	2"	\$ 6.62

TiN Coating
Available



SHANKS AVAILABLE UP TO 12" OVERALL LENGTH.

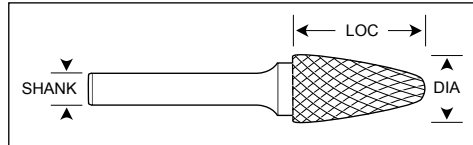
3/8 SHANKS AND SPECIALS AVAILABLE UPON REQUEST.

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SF STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SF-1	1/4	5/8	1/4	2"	\$ 11.37
SF-1L6	1/4	5/8	1/4	6 1/4	\$ 16.97
SF-1NF	1/4	5/8	1/4	2"	\$ 10.50
SF-3	3/8	3/4	1/4	2 1/8	\$ 12.95
SF-3L6	3/8	3/4	1/4	6 3/8	\$ 21.57
SF-3NF	3/8	3/4	1/4	2 1/8	\$ 15.40
SF-4	7/16	1"	1/4	2 3/16	\$ 16.45
SF-5	1/2	1"	1/4	2 1/4	\$ 17.25
SF-5L6	1/2	1"	1/4	6 1/2	\$ 28.05
SF-5NF	1/2	1"	1/4	2 1/4	\$ 22.87
SF-6	5/8	1"	1/4	2 3/8	\$ 28.75
SF-6NF	5/8	1"	1/4	2 3/8	\$ 27.60
SF-7	3/4	1"	1/4	2 1/2	\$ 31.92
SF-11	1/8	1/2	1/4	2"	\$ 7.77
SF-13	1/2	3/4	1/4	2 1/4	\$ 14.82
SF-14	3/4	1 1/4	1/4	2 1/2	\$ 41.12
SF-14NF	3/4	1 1/4	1/4	2 1/2	\$ 51.32
SF-15	3/4	1 1/2	1/4	2 1/2	\$ 43.12
SF-41	1/8	1/4	1/8	1 1/2	\$ 5.32
SF-42	1/8	1/2	1/8	1 1/2	\$ 5.32
SF-42L2	1/8	1/2	1/8	2"	\$ 5.75
SF-42L3	1/8	1/2	1/8	3"	\$ 6.47
SF-51	1/4	1/2	1/8	1 3/4	\$ 8.50
SF-53	3/16	1/2	1/8	1 11/16	\$ 8.50
SF-61	3/32	1/4	3/32	1 1/2	\$ 5.05
SF-81	3/16	1/2	3/16	2"	\$ 6.62

TiN Coating
Available



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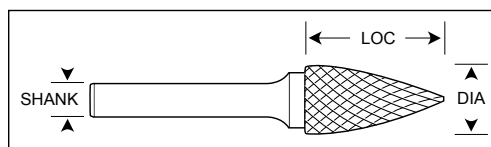
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TOOL - CUTTER MANUFACTURING

BURR DIVISION

SG
BURRS



SG STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SG-1	1/4	5/8	1/4	2"	\$ 8.62
SG-1L6	1/4	1/2	1/4	6 1/4	\$ 16.97
SG-2	5/16	3/4	1/4	2 1/16	\$ 9.20
SG-3	3/8	3/4	1/4	2 1/8	\$ 10.92
SG-3L6	3/8	3/4	1/4	6 3/8	\$ 22.57
SG-5	1/2	1"	1/4	2 1/4	\$ 6.33
SG-5L6	1/2	1"	1/4	6 1/2	\$ 28.75
SG-6	5/8	1"	1/4	2 3/8	\$ 21.00
SG-7	3/4	1"	1/4	2 1/2	\$ 31.92
SG-13	1/2	3/4	1/4	2 1/4	\$ 12.95
SG-15	3/4	1 1/2	1/4	2 1/2	\$ 43.12
SG-41	1/8	1/4	1/8	1 1/2	\$ 5.32
SG-42	1/8	5/16	1/8	1 1/2	\$ 5.32
SG-43	1/8	3/8	1/8	1 1/2	\$ 5.32
SG-44	1/8	1/2	1/8	1 1/2	\$ 5.32
SG-44L2	1/8	1/2	1/8	2"	\$ 5.75
SG-44L3	1/8	1/2	1/8	3"	\$ 6.47
SG-51	1/4	1/2	1/8	1 3/4	\$ 8.50
SG-53	3/16	1/2	1/8	1 11/16	\$ 8.50
SG-61	3/32	1/4	3/32	1 1/2	\$ 5.05
SG-81	3/16	1/2	3/16	2"	\$ 6.62

TiN Coating
Available



SHANKS AVAILABLE UP TO 12" OVERALL LENGTH.

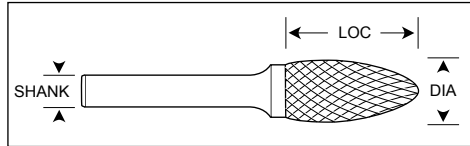
3/8 SHANKS AND SPECIALS AVAILABLE UPON REQUEST.

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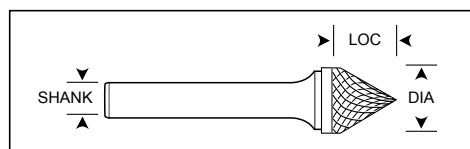
SH STYLE CARBIDE BURRS					
LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE					
TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SH-1	1/4	5/8	1/4	2"	\$ 8.92
SH-2	5/16	3/4	1/4	2 1/16	\$ 10.07
SH-2L6	5/16	3/4	1/4	2 1/16	\$ 23.00
SH-5	1/2	1 1/4	1/4	2 1/4	\$ 17.55
SH-5L6	1/2	1 1/4	1/4	6 1/2	\$ 31.50
SH-6	5/8	1 7/16	1/4	2 1/2	\$ 35.95
SH-7	3/4	1 5/8	1/4	2 1/2	\$ 46.37
SH-41	1/8	1/4	1/8	1 1/2	\$ 5.32
SH-41L2	1/8	1/4	1/8	2"	\$ 5.75
SH-41L3	1/8	1/4	1/8	3"	\$ 6.47
SH-53	3/16	3/8	1/8	1 11/16	\$ 8.50

SH

BURRS



TiN Coating Available



SJ STYLE CARBIDE BURRS					
LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE					
TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SJ-3	3/8	5/16	1/4	2 1/8	\$ 10.92
SJ-5	1/2	7/16	1/4	2 1/4	\$ 14.37
SJ-6	5/8	9/16	1/4	2 3/8	\$ 17.55
SJ-7	3/4	11/16	1/4	2 1/2	\$ 20.42
SJ-9	1"	15/16	1/4	2 1/2	\$ 31.20
SJ-42	1/8	3/32	1/8	1 1/2	\$ 5.32

SJ

BURRS



TiN Coating Available

TOLL FREE: 800-916-1665 / FAX: 586-790-4918

PROUD TO BE MADE IN THE U.S.A.

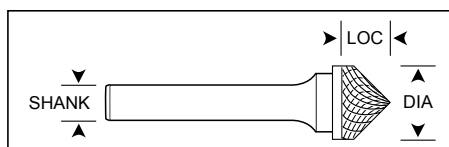
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TOOL - CUTTER MANUFACTURING

BURR DIVISION

SK
BURRS



SK STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SK-1	1/4	1/8	1/4	2"	\$ 8.62
SK-3	3/8	3/16	1/4	2 1/8	\$ 10.92
SK-5	1/2	1/4	1/4	2 1/4	\$ 14.37
SK-6	5/8	5/16	1/4	2 3/8	\$ 17.55
SK-7	3/4	3/8	1/4	2 1/2	\$ 20.42
SK-9	1"	1/2	1/4	2 3/4	\$ 31.20
SK-43	1/8	1/16	1/8	1 1/2	\$ 5.32

TiN Coating
Available



SHANKS AVAILABLE UP TO 12" OVERALL LENGTH.

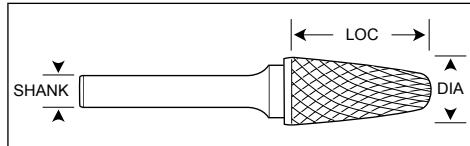
3/8 SHANKS AND SPECIALS AVAILABLE UPON REQUEST.

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TOLL FREE: 800-916-1665 / FAX:586-790-4918

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SL STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	LIST PRICE
SL-1	1/4	5/8	1/4	2"	\$ 8.77
SL-1L6	1/4	5/8	1/4	6 1/4	\$ 16.82
SL-2	5/16	7/8	1/4	2 1/16	\$ 9.50
SL-3	3/8	1 1/16	1/4	2 1/8	\$ 13.52
SL3-L6	3/8	1/16	1/4	6 3/8	\$ 23.30
SL-3NF	3/8	1 1/16	1/4	2 1/8	\$ 18.55
SL-4	1/2	1 1/8	1/4	2 1/4	\$ 17.40
SL-4L6	1/2	1 1/8	1/4	6 1/2	\$ 30.20
SL-4NF	1/2	1 1/8	1/4	2 1/4	\$ 23.87
SL-5	5/8	1 3/16	1/4	2 3/8	\$ 31.62
SL-5NF	5/8	1 3/16	1/4	2 3/8	\$ 37.95
SL-6	5/8	1 5/16	1/4	2 3/8	\$ 34.50
SL-6NF	5/8	1 5/16	1/4	2 3/8	\$ 43.00
SL-7	3/4	1 1/2	1/4	2 1/2	\$ 48.87
SL-7NF	3/4	1 1/2	1/4	2 1/2	\$ 58.95
SL-41	1/8	3/8	1/8	1 1/2	\$ 5.32
SL-42	1/8	1/2	1/8	1 1/2	\$ 5.32
SL-42L2	1/8	1/2	1/8	2"	\$ 5.75
SL-42L3	1/8	1/2	1/8	3"	\$ 6.47
SL-53	3/16	1/2	1/8	1 11/16	\$ 8.50
SL-81	3/16	1/2	3/16	2"	\$ 6.62



TiN Coating
Available



TOLL FREE: 800-916-1665 / FAX: 586-790-4918

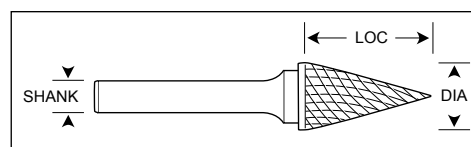
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TOOL - CUTTER MANUFACTURING

BURR DIVISION

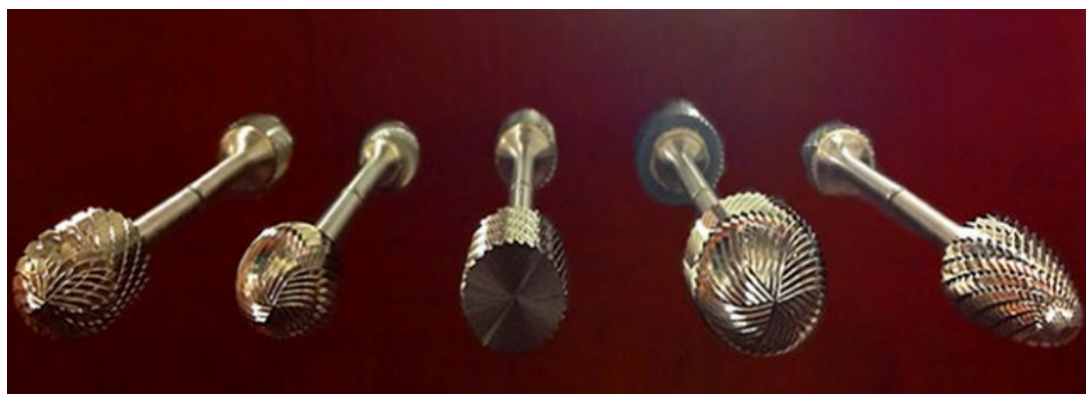


SM STYLE CARBIDE BURRS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE

TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	INCLUDED ANGLE	LIST PRICE
SM-1	1/4	1/2	1/4	2"	22	\$ 8.77
SM-2	1/4	3/4	1/4	2"	14	\$ 8.92
SM-3	1/4	1"	1/4	2"	10	\$ 9.35
SM-4	3/8	5/8	1/4	2 1/8	28	\$ 11.95
SM-5	1/2	7/8	1/4	2 1/4	28	\$ 15.52
SM-6	5/8	1"	1/4	2 3/8	31	\$ 21.42
SM-41	1/8	11/32	1/8	1 1/2	12	\$ 5.32
SM-42	1/8	7/16	1/8	1 1/2	14	\$ 5.32
SM-42L2	1/8	7/16	1/8	2"	14	\$ 5.75
SM-42L3	1/8	7/16	1/8	3"	14	\$ 6.47
SM-43	1/8	5/8	1/8	1 1/2	7	\$ 5.32
SM-51	1/4	1/2	1/8	1 1/4	22	\$ 8.50
SM-53	3/16	1/2	1/8	1 11/16	16	\$ 8.50
SM-61	3/32	1/4	3/32	1 1/2	10	\$ 5.05

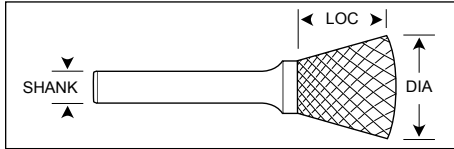
TiN Coating
Available



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SN STYLE CARBIDE BURRS						
LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE						
TOOL NUMBER	DIAMETER	LOC	SHANK DIAMETER	OAL	INCLUDED ANGLE	LIST PRICE
SN-1	1/4	5/16	1/4	2"	10	\$ 7.32
SN-2	3/8	3/8	1/4	2 1/8	13	\$ 9.50
SN-4	1/2	1/2	1/4	2 1/4	28	\$ 14.67
SN-6	5/8	3/4	1/4	2 3/8	18	\$ 23.00
SN-7	3/4	5/8	1/4	2 1/2	30	\$ 25.77
SN-41	3/32	1/8	1/8	1 1/2	10	\$ 5.32
SN-42	1/8	3/16	1/8	1 1/2	10	\$ 5.32
SN-51	1/4	1/4	1/8	1 3/4	10	\$ 8.50
SN-53	3/16	1/4	1/8	1 11/16	10	\$ 8.50
SN-61	3/32	1/8	3/32	1 1/2	10	\$ 5.05
SN-81	3/16	1/4	3/16	2"	10	\$ 6.62

TiN Coating
Available



CARBIDE TIRE BURRS				
FRACTIONAL SIZES				
DIAMETER	CUTTING LENGTH	SHANK DIAMETER	OAL	LIST PRICE
3/16	2"	3/16	3"	\$ 52.50
NOTE: TIRE BURRS ARE IN A 3-PACK PLASTIC CASE				



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TOOL - CUTTER MANUFACTURING

BURR DIVISION

MOLD, TOOL & DIE MAKING CARBIDE BURRS 1/8 SHANKS

LIST PRICE FOR SINGLE AND DOUBLE CUT BURRS - SAME PRICE



TOOL NUMBER	FLUTE DIA./ INC. ANGLE	LENGTH OF FLUTE	OVERALL	LIST PRICE
SA-41	1/16	1/4	1 ½	\$ 5.32
SA-42	3/32	7/16	1 ½	\$ 5.32
SA-43	1/8	9/16	1 ½	\$ 5.32
SB-43	1/8	9/16	1 ½	\$ 5.32
SC-41	3/32	7/16	1 ½	\$ 5.32
SC-42	1/8	9/16	1 ½	\$ 5.32
SD-41	3/32		1 ½	\$ 5.32
SD-42	1/8		1 ½	\$ 5.32
SE-41	1/8	7/32	1 ½	\$ 5.32
SF-41	1/8	1/8	1 ½	\$ 5.32
SF-42	1/8	1/2	1 ½	\$ 5.32
SG-41	1/8	1/4	1 ½	\$ 5.32
SG-43	1/8	3/8	1 ½	\$ 5.32
SG-44	1/8	1/2	1 ½	\$ 5.32
SH-41	1/8	1/4	1 ½	\$ 5.32
SJ-42	1/8- 60°		1 ½	\$ 5.32
SK-42	1/8-90°		1 ½	\$ 5.32
SL-41	1/8-14°	3/8	1 ½	\$ 5.32
SL-42	1/8-8°	1/2	1 ½	\$ 5.32
SM-41	1/8-12°	3/8	1 ½	\$ 5.32
SM-42	1/8-14°	7/16	1 ½	\$ 5.32
SM-43	1/8-7°	5/8	1 ½	\$ 5.32
SN-41	3/32-10°	1/8	1 ½	\$ 5.32
SN-42	1/8-10°	3/16	1 ½	\$ 5.32

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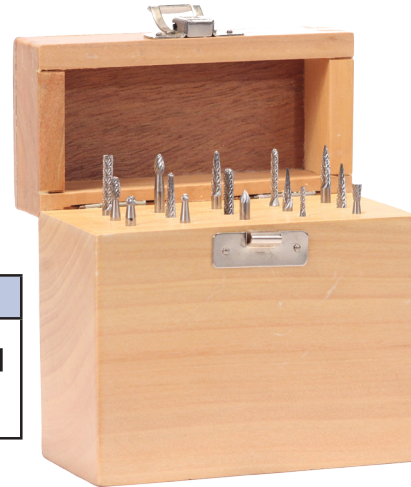
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CARBIDE 1/8" SHANK

R-115 SET - Uncoated \$123³¹ / Coated \$150⁸¹

TOOL NUMBERS

SA-41, SB-43, SC-41, SC-42, SD-41, SD-42, SE-41, SF-41
SG-43, SG-44, SH-41, SJ-42, SL-42, SM-42, SN-42



CARBIDE 1/4" SHANK

R-125 SET - Coated \$162³⁷ / Uncoated \$129⁹⁰

TOOL NUMBERS

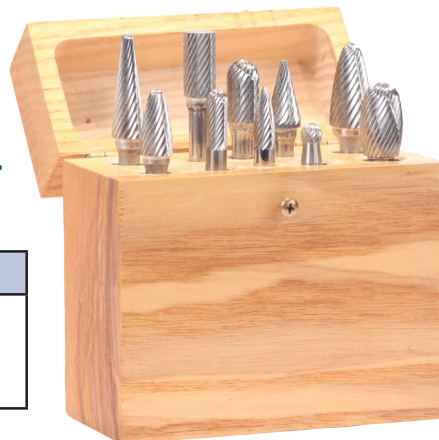
SA-1, SC-1, SD-1, SE-1, SF-1
SG-1, SH-1, SL-1, SM-2, SN-1

CARBIDE 1/4" SHANK - R-90 SET

Uncoated \$173²⁰ / Coated \$205⁷⁰

TOOL NUMBERS

SA-3, SC-1, SC-3, SD-1, SE-5
SF-3, SF-5, SG-1, SL-3, SM-42



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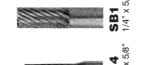
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SOLID CARBIDE BURS

CYLINDRICAL (PLAIN END)



CYLINDRICAL (END CUT)



CYLINDRICAL (END CUT)



CYLINDRICAL (RADIUS END)



CYLINDRICAL (RADIUS END)



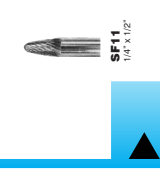
BALL



OVAL



TREE RADIUS



TREE RADIUS



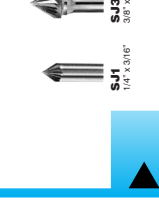
TREE POINTED



FLAME



DEBURRING 60°



DEBURRING 90°



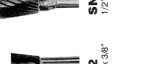
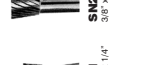
CONE (RADIUS NOSE 14° TAPER)



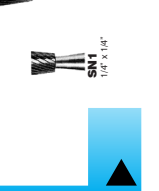
CONE



INVERTED CONE (PLAIN END)



INVERTED CONE (END CUT)



CYLINDRICAL (PLAIN END)



CYLINDRICAL (RADIUS END)

SC-1NF
1/4" x 3/4"
3/8" x 3/4"

SC-3NF
1/2" x 1"

SC-5NF
1/2" x 1"

SC-6NF
5/8" x 1"

SC-7NF
3/4" x 1"

BALL

SD-1NF
1/4" x 7/32"

SD-3NF
3/8" x 5/16"

SD-5NF
1/2" x 7/16"

SD-6NF
5/8" x 9/16"

SD-7NF
3/4" x 1 1/16"

OVAL

SE-6NF
5/8" x 1"

SE-7NF
3/4" x 1"

SF-3NF
3/8" x 3/4"

SF-4NF
1/4" x 3/4"

SF-5NF
1/2" x 1"

SF-6NF
5/8" x 1"

SF-14NF
3/4" x 1 1/4"

TREE RADIUS

CONE (RADIUS NOSE 14° TAPER)

SL-3NF
3/8" x 1 1/16"

SL-4NF
1/2" x 1 1/16"

SL-5NF
5/8" x 13/16"

SL-6NF
5/8" x 1 1/2"

SL-7NF
3/4" x 1 1/2"

CYLINDRICAL (PLAIN END)

SA-1L6
1/4" x 5/8"

SA-3L6
3/8" x 3/4"

SA-5L6
1/2" x 1"

CYLINDRICAL (RADIUS END)

SC-1L6
1/4" x 3/8"

SC-3L6
3/8" x 3/4"

SC-5L6
1/2" x 1"

BALL

SD-1L6
1/4" x 7/32"

SD-3L6
3/8" x 5/16"

SD-5L6
1/2" x 7/16"

OVAL

SE-1L6
1/4" x 3/8"

SE-3L6
3/8" x 3/4"

SE-5L6
1/2" x 7/16"

SE-6L6
5/8" x 1"

SE-7L6
3/4" x 1"

SE-8L6
5/8" x 1 1/8"

SE-9L6
3/4" x 1 1/4"

SE-10L6
3/4" x 1 1/2"

SE-11L6
3/4" x 1 3/4"

SE-12L6
3/4" x 1 7/8"

SE-13L6
3/4" x 1 9/8"

SE-14L6
3/4" x 1 11/8"

SE-15L6
3/4" x 1 3/4"

SE-16L6
3/4" x 1 7/8"

SE-17L6
3/4" x 1 9/8"

SE-18L6
3/4" x 1 11/8"

SE-19L6
3/4" x 1 3/4"

SE-20L6
3/4" x 1 7/8"

SE-21L6
3/4" x 1 9/8"

SE-22L6
3/4" x 1 11/8"

SE-23L6
3/4" x 1 3/4"

SE-24L6
3/4" x 1 7/8"

SE-25L6
3/4" x 1 9/8"

SE-26L6
3/4" x 1 11/8"

SE-27L6
3/4" x 1 3/4"

SE-28L6
3/4" x 1 7/8"

SE-29L6
3/4" x 1 9/8"

SE-30L6
3/4" x 1 11/8"

SE-31L6
3/4" x 1 3/4"

SE-32L6
3/4" x 1 7/8"

SE-33L6
3/4" x 1 9/8"

SE-34L6
3/4" x 1 11/8"

TREE RADIUS

SF-1L6
1/4" x 5/8"

SF-3L6
3/8" x 3/4"

SF-5L6
1/2" x 1"

SF-7L6
3/4" x 1"

SG-1L6
1/4" x 5/8"

SG-3L6
3/8" x 3/4"

SG-5L6
1/2" x 1"

SH-2L6
5/16" x 3/4"

SH-5L6
1/2" x 1 1/4"

SG-6L6
1/2" x 1 1/4"

SG-8L6
1/2" x 1 1/4"

SL-1L6
1/4" x 3/8"

SG-3L6
3/8" x 3/4"

SG-5L6
1/2" x 1"

SG-7L6
3/4" x 1"

SG-9L6
3/4" x 1 1/4"

SG-11L6
3/4" x 1 1/4"

SG-13L6
3/4" x 1 1/4"

SG-15L6
3/4" x 1 1/4"

SG-17L6
3/4" x 1 1/4"

SG-19L6
3/4" x 1 1/4"

SG-21L6
3/4" x 1 1/4"

SG-23L6
3/4" x 1 1/4"

SG-25L6
3/4" x 1 1/4"

SG-27L6
3/4" x 1 1/4"

SG-29L6
3/4" x 1 1/4"

SG-31L6
3/4" x 1 1/4"

3/32" DIA. SHANKS

CONE (RADIUS NOSE 14° TAPER)

FLAME

TREE POINTED

TREE RADIUS

SF-61
3/32" x 1/4"

SN-61
3/32" x 1/8"

SM-61
3/32" x 3/16"

CONE

CYLINDRICAL (PLAIN END)

SA-51
1/4" x 1/2"

SA-43
1/8" x 1/2"

SA-42
3/32" x 1/2"

SB-51
1/4" x 3/16"

CYLINDRICAL (END CUT)

CYLINDRICAL (DOUBLE END)

SB-60
1/8"

CYLINDRICAL (RADIUS END)

SC-41
3/32" x 1/2"

SC-42
1/8" x 1/2"

SC-51
1/4" x 1/2"

BALL

SD-41
3/32" x 1/8"

SD-42
1/8" x 1/8"

SD-53
3/16" x 3/16"

SD-51
1/4" x 1/4"

OVAL

SE-41
1/8" x 7/32"

SE-51
1/4" x 3/8"

FLAME

SH-41
1/8" x 1/4"

DEBURRING (DOUBLE END)

SK-42
1/8" x 3/32"

TREE POINTED

SG-51
1/4" x 1/2"

SG-44
1/8" x 1/2"

SG-43
1/8" x 1/2"

SG-42
1/8" x 1/2"

SG-41
1/8" x 1/4"

TREE RADIUS

SF-51
1/4" x 1/2"

SF-42
1/8" x 1/2"

SF-41
1/8" x 3/8"

CONE (RADIUS END)

SL-41
1/8" x 3/8"

SL-42
1/8" x 1/2"

INVERTED CONE (PLAIN END)

SN-41
3/32" x 1/8"

SN-42
1/8" x 1/8"

SN-51
1/4" x 1/4"

CONE

SM-41
1/8" x 3/8"

SM-42
1/8" x 1/2"

SM-43
1/8" x 1/2"

SM-51
1/4" x 1/2"



HTC
TOOL-CUTTER & MFG. CO.

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Shanks available up to 12" overall length. High-speed burrs available. Specials quoted upon request.

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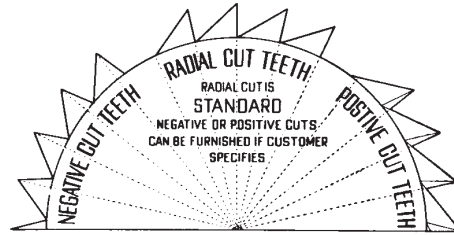
100% MFG IN MICHIGAN, USA



SELECTION OF BASIC CUTS AND TYPES OF FLUTES

The proper flute selection is necessary to obtain best results. Selecting the right size cut assures that the job will be done to perfection required. RIGHT is a chart that shows the types of flutes available at Rico. BELOW are three charts that show the types of cuts. NOTE what each cut is best suited for.

TYPES OF FLUTES AVAILABLE



Three types of cuts are available. The radial cut is the standard cut for all Rico rotary cutters. However, a few special cut patterns are listed. If soft metals, like aluminum are to be cut, specify a negative cut.



Fine Cut



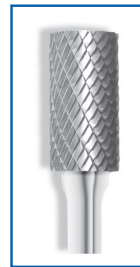
Medium Cut



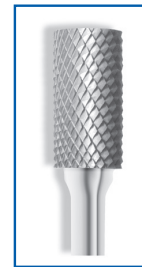
Coarse Cut



Medium Cut
Chipbreaker



Medium
Double Cut



Medium
Diamond Cut



Steady Cut
for Aluminum



End Cut

FINE CUT

Fine Flutes: Use when a good finish is necessary and where removal of stock is not primary. Inadvisable for use on non-ferrous material. Fine cut available only upon specification. Diamond or Double cut may be requested.

STANDARD CUT

General Purpose Fluting: For use when medium stock removal and finish is desired. Standard cut is stocked, only and supplied unless otherwise specified. Diamond or Double cut may be requested.

COARSE CUT

Coarse Fluting: For rapid stock removal on non-ferrous materials, when finish is not the primary object. Diamond or Double cut is available on specification only.

Cut No.	1	2	3	4	5	6	7
Teeth Per Inch	62	50	40	31	25	20	16
Pitch	.016	.020	.025	.032	.040	.050	.062

Cut No.	8	9	10	11	12	13	14
Teeth Per Inch	13	11	9	8	7	6	5
Pitch	.076	.092	.111	.125	.143	.166	.200

Above is a table showing pitches available on Rico rotary cutters. (Pitch is distance between flutes.) RIGHT - this chart shows fine, standard, and coarse cuts for the corresponding diameters. NOTE - state cut number when ordering a cut different from this table.

Diameter	Fine	Standard	Coarse
3/32"	2	3	5
1/8"	3	4	5
3/16"	3	5	6
1/4"	4	5	7
5/16"	4	6	7
3/8"	4	6	8
7/16"	5	6	8
1/2"	5	7	9
9/16"	5	7	9
5/8"	5	7	9
3/4"	6	8	10
7/8"	6	8	10
1"	6	8	10
1 - 1/8"	6	9	11
1 - 1/4"	6	9	11

TOLL FREE: 800-916-1665 / FAX: 586-790-4918

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GENERAL INFORMATION - CARBIDE TOOL SELECTION & USE

BURRS - Select the shape which conforms to the contour being machined. The choice of fine, medium, or coarse cut depends on the material to be cut, the finish required and the shape of the burr. Medium cut is used for general purpose deburring of steel, cast iron, and other ferrous materials. A fine cut burr is used for a finer finish. Diamond cut (across flute pattern) will cut fast and permit better control in free hand operation. Stringy materials are cut easily because it produces a powder like chip with its hundreds of chisel-like flutes.

Insert shank as far as possible into the chuck. This will help prevent whipping or chatter. Use just enough pressure to keep

the burr cutting. Excessive pressure will slow spindle speed and damage the cutting edges. Keep the burr moving at all times to prevent it from digging into the work. Do not run burr beyond point of normal resharping. The heat and pressures will cause excessive chipping of the cutting edges. Thus, the life of the burr will be greatly reduced or damaged beyond repair. Solid carbide burrs will out perform high speed steel tools and mounted wheels as much as 50 to 1 and reduce machining up to 65% when properly used.

NOTE: Medium cuts will be furnished unless otherwise specified.

MAXIMUM SPEEDS RECOMMENDED ON BURRS WITH 1/4" DIAMETER SHANKS

Table No. 1: Malleable Iron, Cast Iron, Die Steels, Aluminum, Steel Welds, Tool Steels, Nabal Bronze, Brass, Etc.

BURR DIAMETER	STANDARDS CUT NO. OF FLUTES	SPEED RPM	
		TABLE NO. 1	TABLE NO. 2
1/16	14	50,000	75,000
3/32	16	40,000	60,000
1/8	18	35,000	53,000
3/16	20	25,000	38,000
1/4	24	22,000	33,000
5/16	26	20,000	30,000
3/8	28	18,000	27,000
7/16	30	17,000	26,000
1/2	32	16,000	24,000
5/8	34	15,000	23,000
3/4	36	14,000	21,000
7/8	38	13,000	20,000
1	40	12,000	18,000

Table No. 2: Refers to Stainless Steel

BURR DIA.	COARSE CUT NO. OF FLUTES	SPEED RPM		FINE CUT NO. OF FLUTES	SPEED RPM	
		TABLE 1	TABLE 2		TABLE 1	TABLE 2
1/16	8	65,000	98,000	20	30,000	45,000
3/32	10	55,000	83,000	22	25,000	38,000
1/8	12	45,000	68,000	26	20,000	30,000
3/16	14	39,000	59,000	30	16,000	24,000
1/4	16	35,000	53,000	34	14,000	21,000
5/16	16	32,000	48,000	38	12,000	18,000
3/8	18	29,000	44,000	42	11,000	17,000
7/16	18	27,000	41,000	46	10,500	15,800
1/2	20	25,000	38,000	50	10,000	15,000
5/8	22	23,000	35,000	54	9,500	14,300
3/4	24	20,000	30,000	58	9,000	13,500
7/8	26	19,000	29,000	60	8,500	12,700
1	28	18,000	27,000	62	8,000	12,000

DRILLS - Solid carbide drills will produce clean holes to close tolerance. They have extended life because of their extra rigidity and resistance to abrasion, if they are properly used. Riding the drill or allowing it to dwell, or not feed, will dull the edges causing a need for excessive resharping. Hand feed, using steady speed and feed, is recommended for drilling hardened steel. Too much pressure can cause breakage. Run at approximately twice the speed of high speed steel drills with the same feed. Dulling and possible breakage are caused by vibration and chatter. To eliminate this, decrease speed and increase feed. Spindles must be in good condition and the work should be held rigidly.

MATERIAL	LUBRICANT
Aluminum	Kerosene or Soluble Oil
Bakelite, Fibre, Rubber, Plastics	Dry or Air Blast
Copper, Brass, Bronze, etc.	Dry, Air Blast or Soluble Oil
Magnesium	Soluble Oil or Light Oil
Cast & Malleable Iron	Soluble Oil, Dry or Air Blast
Monel Metal	Soluble Oil
Stainless Steels	Light or Soluble Oil
Steels Softer than Rockwell C-50	Light or Soluble Oil
Steels Harder than Rockwell C-50	Light Oil

DRILL DIAMETER	INCHES PER REVOLUTION	
	MIN.	MAX.
Under 1/16	.001	.002
1/16 to 1/8	.001	.003
1/8 to 3/16	.002	.005
3/16 to 1/4	.002	.008
1/4 to 3/8	.003	.012
3/8 to 1/2	.004	.012

MATERIALS	SURFACE FT./MINUTE	
	MINIMUM	MAXIMUM
Rockwell C-30 & Under	80	148
Rockwell C-30 to C-40	45	91
Rockwell C-40 to C-50	32	49
Rockwell C-50 to C-60	23	30
Rockwell C-60 & Over	15	20
Aluminum & Aluminum Alloys	198	400
Brass & Bronze	200	395
Cast & Malleable Iron	92	200
Magnesium	300	597
Stainless Steel	82	200
Copper	200	400
Fibre	205	597
Hard Rubber	198	602
Monel Metal	80	200
Plastics	253	698
Glass Epoxy	150	253

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NOTES

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