

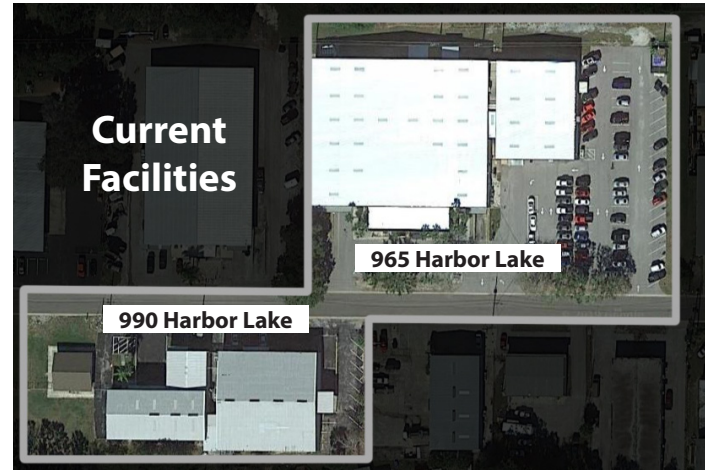


Our Best Selling Products

In-Stock and Ready to Ship



Our Facility



Inside our 70,000 square foot facility we utilize the most technologically advanced machinery from leading manufacturers. We also have several custom built machines and robots.

Our plant floor plan is designed with high output production at the forefront.



Our Story



1985-1988



1988-1996



1996-1999



Main Building
1999 to Present



990 Building
2015 to Present



1000 Marketing Center
2015 to Present

In October 1985, a small one-man tool-grinding operation became incorporated in Florida as Mastercut Tool Corp. At that time, the business resided in a 600 square foot garage.

By 1988, five employees crammed into the garage, and by the end of that year, growth necessitated a move to an 1100 square foot rental unit. Mastercut soon occupied three side-by-side rental units at this address, and in 1993 it purchased the rental property, which had a front and back building. Mastercut rented the front to a catering service and occupied the back until 1996, when it also took over the front building and moved offices, inventory, and packaging there.

To keep up with demand, the company made most of its own grinding machines until 1994. Between 1994 and 1997 it invested heavily in plant and equipment modernization. By 1998, facilities were again filled to capacity. A 37,000 sq. ft. building was purchased in December of 1998 at 965 Harbor Lake Drive, and the company occupied the building in March of 1999.

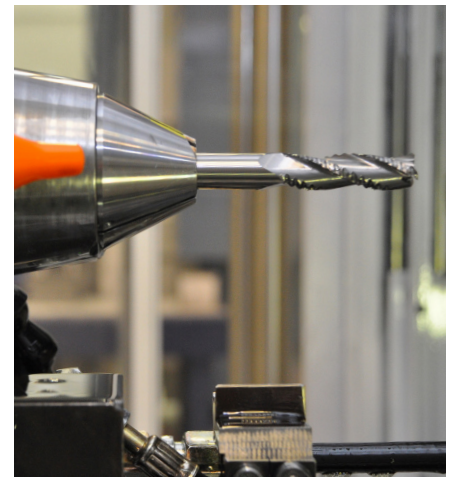
By 2006 we had incorporated in-house tool coating and acquired new state of the art CNC Machines

By 2015 we had filled our main facility to capacity. We then purchased the facility directly across the street from 965. Our new 990 building adds another 30,000 square feet of production space, as well as several offices and conference rooms.

Mastercut Tool Corp's successful history comes from a commitment by all of its associates to satisfy customer needs with a willingness to change and adapt. Company representatives believe that success and growth will continue as long as the company is unrelenting in its pursuit of quality and total customer satisfaction.



1985 - All tools manually ground on hand-grinder



Today - Automated production with MAP® standards

ISO 9001:2015

In 2003, Mastercut Tool Corp. successfully achieved registration under ISO 9001:2000 and has maintained our quality systems to our current ISO 9001:2015 certification and Lean Six Sigma practices. We maintain these strict standards to further guarantee that every tool you buy from Mastercut Tool Corp. is of the highest quality.



The “MAP” to Your Success!

Our continuous improvement has led us to a process that gives you unmatched, consistent quality. That process is our unique MAP Technology! Mastercut Automated Production is our exclusive method of standardization and quality repeatability. The MAP combines technology, skill, and rigid processes to provide you with the most precise products that money can buy, batch to batch and year to year.



Our MAP...your map to success!

CNC 1st Team



Customers' Needs Come First! This is what truly matters to us. To ensure you the fastest possible service, we have assembled simulation, engineering, production scheduling, customer service, and inventory personnel into one unit. They collaborate on any and all special requests from you, the moment your request is received. They are dedicated and qualified to assist you with solutions, fast!

Mastercut's Superior Carbide Blend – A-Gr-SiV (Active Grain Sized-Volume)

Our superior tungsten carbide gives you the ability to be aggressive when you need to be. Growth inhibitors in our submicron carbide blanks maintain the most consistent grain size available, giving you superior hardness and toughness.

Core Values



CNC 1st:
Customers' Needs Come First














MISSION:
Best Quality & Leader in Innovation

VISION:
Leader In Its Field, Well Respected and Preferred

PURPOSE:
Manufacture and Distribute the Highest Quality Carbide Tools Available



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	V4 Ball Endmills . . . V4% 9	Cermet	H	K	S		M	P
	V4 Corner Radius Endmills . . . V4% 10	Cermet	H	K	S		M	P
	V5 Square Endmills . . . VE% 11	Cermet	H	K	S		M	P
	V5 Ball Endmills . . . VE% 12	Cermet	H	K	S		M	P
	V5 Corner Radius Endmills . . . VE% 12	Cermet	H	K	S		M	P
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	45° 2 Flute Hypermills 17					N		
	55° AlumaZips 17					N		

























PRO+ PERFORMANCE ENDMILLS (Page 18)		Cermet	H	K	S	N	M	P
	V4 Pro+ Square Endmills . . . V4% 18	Cermet	H	K	S		M	P
	V4 Pro+ Ball Endmills . . . V4% 19	Cermet	H	K	S		M	P
	V4 Pro+ Corner Radius Endmills . . . V4% 20	Cermet	H	K	S		M	P
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	Ball Endmills 25	Cermet		K	S	N	M	P
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	90° Drill Mills 29	Cermet		K	S	N	M	P

CARBIDE DRILLS AND COUNTERSINKS (Page 30)		Cermet	Hardened	Cast Iron	Titanium	Non-Ferrous	Stainless	Steel
			H	K	S	N	M	P
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	Stub Drills 34	Cermet	H	K	S	N	M	P
	Spade Drills 36	Cermet	H	K	S	N	M	P
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HIGH PERFORMANCE HURRICANE DRILLS (Page 39)		Cermet	Hardened	Cast Iron	Titanium	Non-Ferrous	Stainless	Steel
			H	K	S	N	M	P
	Hurricane 3XD Non-Coolant Through & Coolant Through 39		H	K	S	N	M	P
	Hurricane 5XD Non-Coolant Through & Coolant Through 41		H	K	S	N	M	P
	Hurricane 8XD Coolant Through 42		H	K	S	N	M	P
























BURS (Page 42)		Cermet	Hardened	Cast Iron	Titanium	Non-Ferrous	Stainless	Steel
			H	K	S	N	M	P
	SA Burs - Cylindrical Shape, No Endcut 43	Cermet	H	K	S	N	M	P
	SB Burs - Cylindrical Shape with End Cut 44	Cermet	H	K	S	N	M	P
	SC Burs - Radius Cylindrical Shape 45	Cermet	H	K	S	N	M	P
	SD Burs - Ball Shape 46	Cermet	H	K	S	N	M	P

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BURS Continued

	Cermet	Hardened	Cast Iron	Titanium	Non-Ferrous	Stainless	Steel
	C	H	K	S	N	M	P
 SE Burs - Oval Shape 47	C	H	K	S	N	M	P
 SF Burs - Radius Tree Shape 48	C	H	K	S	N	M	P
 SG Burs - Pointed Tree Shape. 49	C	H	K	S	N	M	P
 SH Burs - Flame Shape 50	C	H	K	S	N	M	P
 SJ Burs - 60° Included Cone Shape 51	C	H	K	S	N	M	P
 SK Burs - 90° Included Cone Shape 52	C	H	K	S	N	M	P
 SL Burs - Radius Cone Shape 53	C	H	K	S	N	M	P
 SM Burs - Pointed Cone Shape. 54	C	H	K	S	N	M	P
 SN Burs - Inverted Cone Shape 55	C	H	K	S	N	M	P
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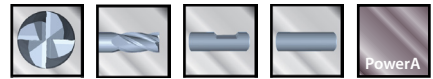
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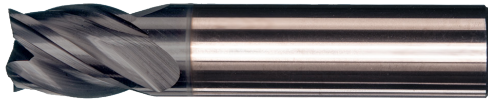
V4 SQUARE ENDMILLS



4 Flutes • Coated • With and without Flat



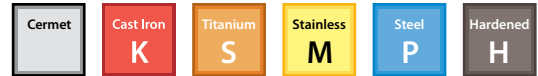
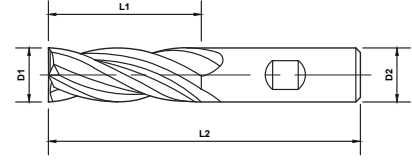
- High Performance A-Gr-SiV submicron grain carbide
- Unique variable helix design for faster speeds and feeds
- Quiet operation and better finish
- MAP certified quality



Stub, Series 402, PowerA

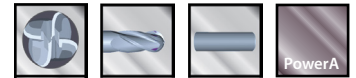
Standard, Series 400, PowerA

Long, Series 401, PowerA



OD	LOC	SHK	OAL	4 Flute	4 Flute
D1	L1	D2	L2	PowerA	PowerA with Flat
1/8	1/4	1/8	1-1/2	402-004-1	-
1/8	3/8	1/8	1-1/2	400-002-1	-
3/16	3/8	3/16	2	402-006-1	-
3/16	7/16	3/16	2	400-006-1	-
1/4	1/2	1/4	2	402-010-1	-
1/4	5/8	1/4	2-1/2	400-010-1	400-010W-1
1/4	1-1/8	1/4	3	401-002-1	-
5/16	13/16	5/16	2-1/2	400-012-1	400-012W-1
3/8	7/8	3/8	2-1/2	400-016-1	400-016W-1
3/8	1-1/8	3/8	3	401-006-1	401-006W-1
7/16	1	7/16	2-3/4	400-020-1	-
1/2	1	1/2	3	400-022-1	400-022W-1
1/2	1-1/4	1/2	3	400-024-1	400-024W-1
1/2	2	1/2	4	401-008-1	401-008W-1
3/4	1-1/2	3/4	4	400-030-1	400-030W-1
3/4	2-1/4	3/4	5	401-012-1	401-012W-1

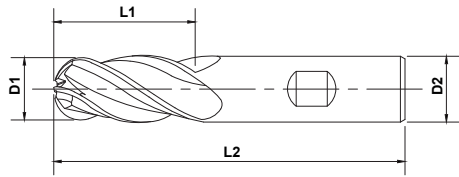
V4 BALL ENDMILLS



4 Flutes • Coated



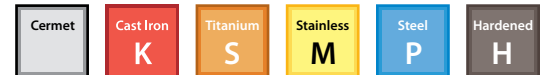
- High Performance A-Gr-SiV submicron grain carbide
- Unique variable helix design for faster speeds and feeds
- Quiet operation and better finish
- MAP certified quality



Stub, Series 402, PowerA

Standard, Series 400, PowerA

Long, Series 401, PowerA



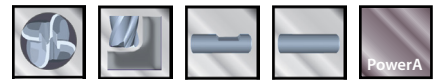
OD	LOC	SHK	OAL	4 Flute
D1	L1	D2	L2	PowerA
1/8	1/4	1/8	1-1/2	402-204-1
1/8	3/8	1/8	1-1/2	400-202-1
3/16	7/16	3/16	2	400-206-1
1/4	1/2	1/4	2	402-210-1
1/4	5/8	1/4	2-1/2	400-210-1
1/4	1-1/8	1/4	3	401-202-1
3/8	7/8	3/8	2-1/2	400-216-1
1/2	1	1/2	3	400-222-1
1/2	1-1/4	1/2	3	400-224-1
1/2	2	1/2	4	401-208-1
3/4	1-1/2	3/4	4	400-230-1

Many Additional Sizes Available

Email: sales@mastercuttool.com
www.mastercuttool.com



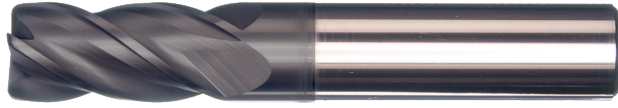
V4 CORNER RADIUS ENDMILLS



4 Flutes • Coated • With and without Flat



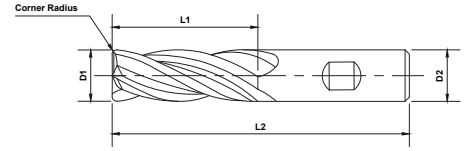
- High Performance A-Gr-SiV submicron grain carbide
- Unique variable helix design for faster speeds and feeds
- Quiet operation and better finish
- MAP certified quality



Stub, Series 402, PowerA

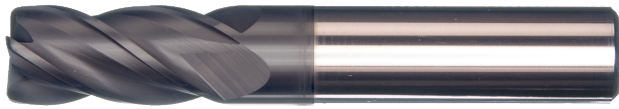
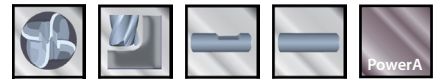
Standard, Series 400, PowerA

Long, Series 401, PowerA



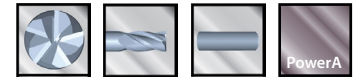
OD	LOC	SHK	OAL	Corner Radius	4 Flute	4 Flute
D1	L1	D2	L2	R	PowerA	PowerA With Flat
1/8	3/8	1/8	1-1/2	.015	400-401-1	-
1/8	3/8	1/8	1-1/2	.020	400-402-1	-
1/8	3/8	1/8	1-1/2	.030	400-403-1	-
5/32	5/16	3/16	2	.015	402-411-1	-
5/32	5/16	3/16	2	.030	402-413-1	-
3/16	3/8	3/16	2	.015	402-421-1	-
3/16	7/16	3/16	2	.015	400-411-1	-
3/16	7/16	3/16	2	.020	400-412-1	-
3/16	7/16	3/16	2	.030	400-413-1	-
7/32	7/16	1/4	2	.020	402-432-1	-
1/4	1/2	1/4	2	.010	402-440-1	-
1/4	1/2	1/4	2	.015	402-441-1	-
1/4	5/8	1/4	2-1/2	.015	400-421-1	400-421W-1
1/4	5/8	1/4	2-1/2	.020	400-422-1	400-422W-1
1/4	5/8	1/4	2-1/2	.030	400-423-1	-
1/4	1-1/8	1/4	3	.015	401-401-1	-
1/4	1-1/8	1/4	3	.020	401-402-1	401-402W-1
1/4	1-1/8	1/4	3	.030	401-403-1	-
5/16	1/2	5/16	2	.015	402-451-1	402-451W-1
5/16	1/2	5/16	2	.020	402-452-1	-
5/16	13/16	5/16	2-1/2	.015	400-431-1	-
5/16	13/16	5/16	2-1/2	.020	400-432-1	400-432W-1
5/16	13/16	5/16	2-1/2	.045	400-434-1	-
5/16	1-1/8	5/16	3	.020	401-412-1	-
3/8	5/8	3/8	2	.020	402-462-1	-
3/8	5/8	3/8	2	.045	402-464-1	-
3/8	7/8	3/8	2-1/2	.015	400-441-1	400-441W-1
3/8	7/8	3/8	2-1/2	.020	400-442-1	400-442W-1
3/8	7/8	3/8	2-1/2	.030	400-443-1	-
3/8	7/8	3/8	2-1/2	.060	400-445-1	-
3/8	1-1/8	3/8	3	.020	401-422-1	-
3/8	1-1/8	3/8	3	.060	401-425-1	-
7/16	1	7/16	2-3/4	.020	400-452-1	-

V4 CORNER RADIUS ENDMILLS



OD	LOC	SHK	OAL	Corner Radius	4 Flute	4 Flute
D1	L1	D2	L2	R	PowerA	PowerA With Flat
1/2	5/8	1/2	2-1/2	.030	402-483-1	-
1/2	1	1/2	3	.020	400-462-1	400-462W-1
1/2	1	1/2	3	.030	400-463-1	400-463W-1
1/2	1	1/2	3	.125	400-467-1	-
1/2	1-1/4	1/2	3	.030	400-473-1	400-473W-1
1/2	1-1/4	1/2	3	.060	400-475-1	400-475W-1
1/2	1-1/4	1/2	3	.125	400-477-1	-
1/2	2	1/2	4	.030	401-433-1	401-433W-1
5/8	3/4	5/8	3	.030	402-493-1	-
5/8	1-1/4	5/8	3-1/2	.060	400-495-1	-
5/8	2-1/4	5/8	5	.030	401-443-1	-
3/4	1	3/4	3	.015	402-501-1	-
3/4	1-5/8	3/4	4	.030	400-513-1	-
3/4	3	3/4	6	.030	401-463-1	-

V5 SQUARE ENDMILLS



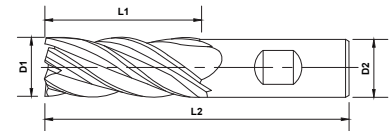
5 Flutes • Coated



- High Performance A-Gr-SiV submicron grain carbide
- Unique variable helix design for faster speeds and feeds
- Quiet operation and better finish
- MAP certified quality



Standard, Series 408, PowerA



Hardened
H



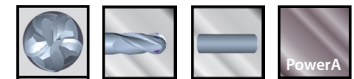
OD	LOC	SHK	OAL	5 Flute
D1	L1	D2	L2	PowerA
3/8	7/8	3/8	2-1/2	408-010-1
7/16	1	7/16	2-3/4	408-012-1
1/2	1	1/2	3	408-014-1
5/8	1-1/4	5/8	3-1/2	408-020-1
3/4	1-1/2	3/4	4	408-024-1

Many Additional
Sizes Available

Email: sales@mastercuttool.com
www.mastercuttool.com



V5 BALL ENDMILLS



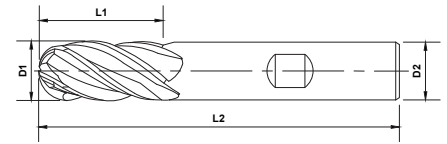
5 Flutes • Coated



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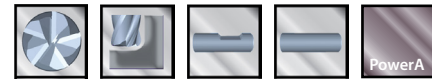


Standard, Series 408, PowerA



OD	LOC	SHK	OAL	5 Flute
D1	L1	D2	L2	PowerA
3/8	7/8	3/8	2-1/2	408-210-1
7/16	1	7/16	2-3/4	408-212-1
1/2	1	1/2	3	408-214-1
1/2	1-1/4	1/2	3	408-216-1
5/8	1-1/4	5/8	3-1/2	408-220-1
3/4	1-1/2	3/4	4	408-222-1
1	1-1/2	1	4	408-226-1

V5 CORNER RADIUS ENDMILLS



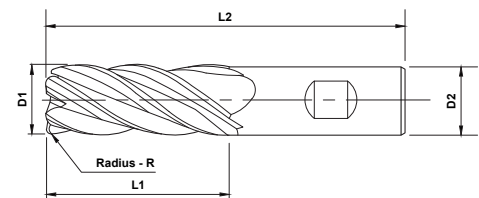
5 Flutes • Coated • With and without Flat



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- Unique variable helix design for faster speeds and feeds
- Quiet operation and better finish
- MAP certified quality

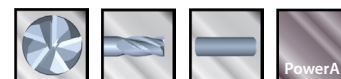


Standard, Series 408, PowerA



OD	LOC	SHK	OAL	Corner Radius	5 Flute	5 Flute
D1	L1	D2	L2	R	PowerA	PowerA - With Flat
3/8	7/8	3/8	2-1/2	.030	408-443-1	408-443W-1
7/16	1	7/16	2-3/4	.030	408-453-1	408-453W-1
1/2	1	1/2	3	.030	408-463-1	408-463W-1
1/2	1-1/4	1/2	3	.030	408-473-1	408-473W-1
5/8	1-1/4	5/8	3-1/2	.030	408-493-1	408-493W-1
3/4	1-1/2	3/4	4	.030	408-503-1	408-503W-1
1	1-1/2	1	4	.030	408-523-1	408-523W-1

HY5 SQUARE ENDMILLS



5 Flutes • Coated • 45° Helix



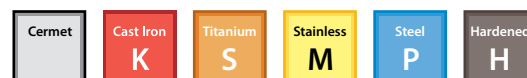
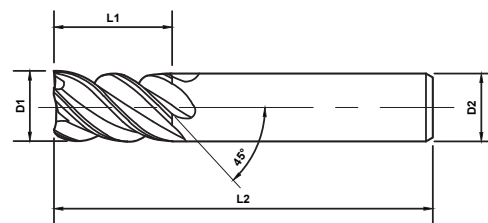
- High Performance A-Gr-SiV submicron grain carbide
- Unique 5 flute design for faster speeds and feeds
- MAP certified quality



Stub, Series 447, PowerA

Standard, Series 445, PowerA

Long, Series 446, PowerA



OD	LOC	SHK	OAL	5 Flute
D1	L1	D2	L2	PowerA
1/8	1/4	1/8	1-1/2	447-004-1
1/8	1/2	1/8	1-1/2	445-002-1
5/32	5/16	3/16	2	447-002-1
7/32	7/16	1/4	2	447-008-1
1/4	1/2	1/4	2	447-010-1
1/4	3/4	1/4	2-1/2	445-010-1
3/8	5/8	3/8	2	447-014-1
3/8	7/8	3/8	2-1/2	445-016-1
1/2	5/8	1/2	2-1/2	447-018-1
1/2	1-1/4	1/2	3	445-024-1
1/2	2	1/2	4	446-008-1
5/8	3/4	5/8	3	447-020-1
3/4	1-5/8	3/4	4	445-032-1
1	4	1	7	446-022-1

Many Additional
Sizes Available

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HY5 CORNER RADIUS ENDMILLS



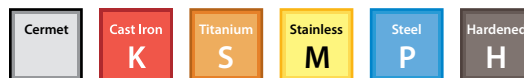
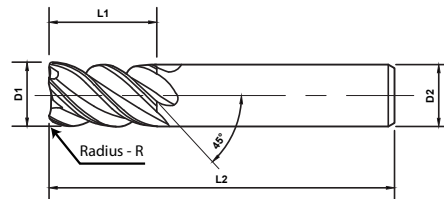
5 Flutes • Coated • 45° Helix



- High Performance A-Gr-SiV submicron grain carbide
- Unique 5 flute design for faster speeds and feeds
- MAP certified quality

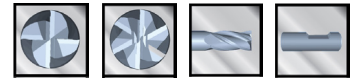


Standard, Series 445, PowerA



OD	LOC	SHK	OAL	Corner Radius	5 Flute
D1	L1	D2	L2	R	PowerA
1/8	1/2	1/8	1-1/2	.030	445-403-1
3/16	7/16	3/16	2	.030	445-413-1
1/4	3/4	1/4	2-1/2	.030	445-423-1
5/16	13/16	5/16	2-1/2	.030	445-433-1
3/8	7/8	3/8	2-1/2	.030	445-443-1
7/16	1	7/16	2-3/4	.030	445-453-1
1/2	1	1/2	3	.030	445-463-1
1/2	1-1/4	1/2	3	.030	445-473-1
5/8	1-1/4	5/8	3-1/2	.030	445-493-1
3/4	1-1/2	3/4	4	.030	445-503-1
1	1-1/2	1	4	.030	445-523-1

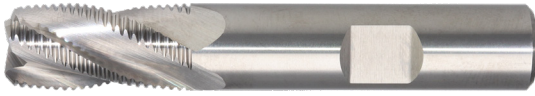
ROUGHERS



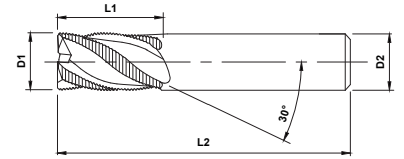
FINE PITCH

4 and 6 Flutes • Uncoated • With flat

- High Performance A-Gr-SiV submicron grain carbide
- Rigid design for fast material removal
- MAP certified quality

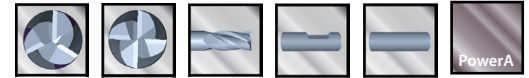


Standard, Series 433



OD	LOC	SHK	OAL	Flutes	Uncoated
D1	L1	D2	L2		With Flat
1/2	1	1/2	3	4	433-108W
5/8	1-1/4	5/8	3-1/2	4	433-110W
3/4	1-1/2	3/4	4	4	433-112W
1	1-1/2	1	4	6	433-114W

ROUGHERS



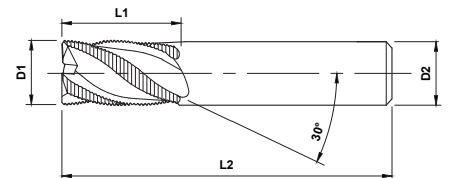
MEDIUM PITCH

3, 4 and 5 Flutes • Coated • With and without flat

- High Performance A-Gr-SiV submicron grain carbide
- Rigid design for fast material removal
- MAP certified quality



Standard, Series 433, PowerA



OD	LOC	SHK	OAL	Flutes	PowerA
D1	L1	D2	L2		Coated
1/4	3/4	1/4	2-1/2	3	433-202-1
5/16	3/4	5/16	2-1/2	3	433-204-1
3/8	7/8	3/8	2-1/2	3	433-206-1
1/2	1	1/2	3	4	433-208W-1
5/8	1-1/4	5/8	3-1/2	4	433-210W-1
3/4	1-1/2	3/4	4	4	433-212W-1

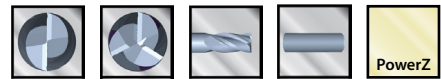
"W" in Part number denotes Weldon Flat

Many Additional
Sizes Available

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SQUARE END AXMILLS



2 and 3 Flutes • Coated



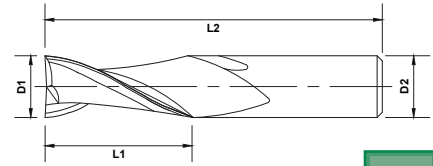
- High Performance A-Gr-SiV submicron grain carbide
- Unique flute and relief angles for aluminum
- Faster speeds and feeds
- MAP certified quality



Stub, Series 422, PowerZ

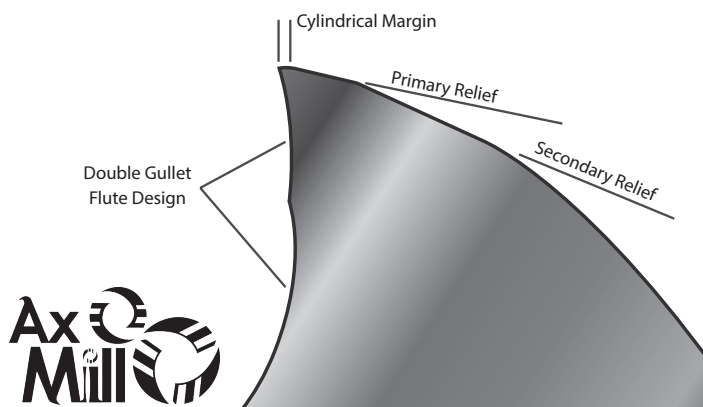
Standard, Series 414, 420, PowerZ

Long, Series 421, PowerZ



OD	LOC	SHK	OAL	2 Flute	3 Flute
D1	L1	D2	L2	PowerZ	PowerZ
1/8	1/2	1/8	1-1/2	414-002-4	420-002-4
5/32	9/16	5/32	2	414-004-4	420-004-4
3/16	3/4	3/16	2	414-006-4	420-006-4
1/4	3/4	1/4	2-1/2	414-008-4	420-008-4
1/4	1	1/4	2-1/2	414-010-4	420-010-4
1/4	2	1/4	4	-	421-092-4
5/16	3/4	5/16	2-1/2	414-012-4	420-012-4
3/8	1/2	3/8	2-1/2	-	422-028-4
3/8	7/8	3/8	2-1/2	414-016-4	420-016-4
3/8	1	3/8	2-1/2	414-018-4	420-018-4
3/8	2	3/8	4	-	421-034-4
1/2	1	1/2	3	414-022-4	420-022-4
1/2	1-1/4	1/2	3	-	420-024-4
1/2	2	1/2	4	-	421-052-4
5/8	1-5/8	5/8	3-1/2	414-030-4	420-030-4
3/4	1-1/2	3/4	4	-	420-032-4
3/4	1-3/4	3/4	4	-	420-034-4

Premium flute design for aluminum



37° Helix Flute

- Increased tool strength = higher feed-rate capacity
- Decreased axial load demands
- Robust corner integrity
- Less vertical pull on workpiece
- Broad-spectrum "roughing-finishing" applications

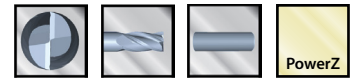
Cylindrical Margins

- Reduced chatter and improved surface finishes
- Both cutting diameter and shank diameter maintain h6 tolerance

Double Gullet Flute Design

- Aids in efficient chip evacuation

45° 2 FLUTE HYPERMILLS

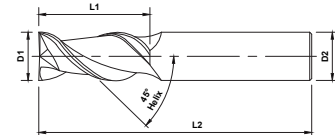


2 Flutes • Coated and Uncoated • 45° Helix

- High Performance A-Gr-SiV submicron grain carbide
- Proven performer in aluminum

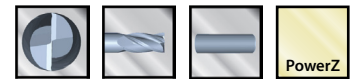


Standard, Series 428, PowerZ



OD	LOC	SHK	OAL	2 Flute Uncoated	2 Flute PowerZ
D1	L1	D2	L2		
1/4	1	1/4	2-1/2	428-002	428-002-4
3/8	1	3/8	2-1/2	428-006	428-006-4
1/2	1-1/4	1/2	3	428-008	428-008-4

55° HELIX SQUARE ALUMAZIPS

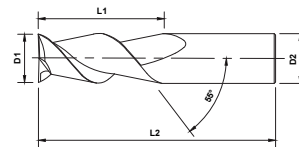


2 Flutes • Coated • 55° Helix

- High Performance A-Gr-SiV submicron grain carbide
- Unique design for speed and finish in aluminum



Standard, Series 428



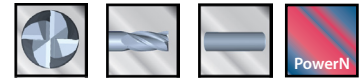
OD	LOC	SHK	OAL	2 Flute PowerZ
D1	L1	D2	L2	
1/8	1/2	1/8	1-1/2	428-202
3/16	3/4	3/16	2	428-206
1/4	3/4	1/4	2-1/2	428-208
5/16	3/4	5/16	2-1/2	428-210
3/8	7/8	3/8	2-1/2	428-212
1/2	1	1/2	3	428-214

Many Additional
Sizes Available

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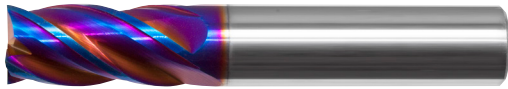
V4 PRO+ SQUARE ENDMILLS



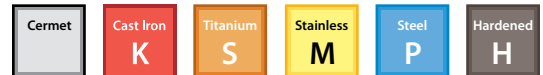
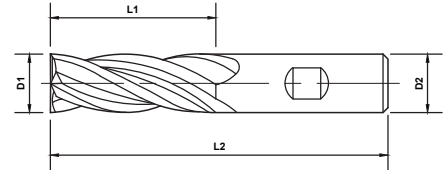
4 Flutes • Coated



- Pro+ performance A-Gr-SiV submicron grain carbide
- Unique variable design, coating, and edge quality
- Best performance and finish on wide range of materials

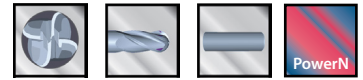


Standard, Series 450, PowerN



OD	LOC	SHK	OAL	4 Flute
D1	L1	D2	L2	PowerN
1/8	3/8	1/8	1-1/2	450-002-5
3/16	7/16	3/16	2	450-006-5
3/16	3/4	3/16	2-1/2	450-042-5
1/4	5/8	1/4	2-1/2	450-010-5
1/4	3/4	1/4	2-1/2	450-040-5
5/16	13/16	5/16	2-1/2	450-012-5
3/8	7/8	3/8	2-1/2	450-016-5
1/2	1	1/2	3	450-022-5
1/2	1-1/4	1/2	3	450-024-5
3/4	1-1/2	3/4	4	450-030-5

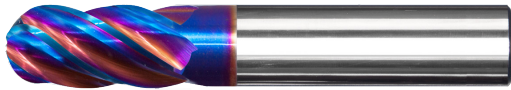
V4 PRO+ BALL ENDMILLS



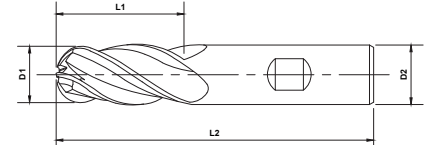
4 Flutes • Coated



- Pro+ performance A-Gr-SiV submicron grain carbide
- Unique variable design, coating, and edge quality
- Best performance and finish on wide range of materials



Stub, Series 452, PowerN
 Standard, Series 450, PowerN
 Long, Series 451, PowerN



OD	LOC	SHK	OAL	4 Flute
D1	L1	D2	L2	PowerN
1/8	3/8	1/8	1-1/2	450-202-5
3/16	7/16	3/16	2	450-206-5
3/16	3/4	3/16	2-1/2	450-242-5
1/4	1/2	1/4	2	452-210-5
1/4	5/8	1/4	2-1/2	450-210-5
1/4	3/4	1/4	2-1/2	450-240-5
5/16	13/16	5/16	2-1/2	450-212-5
3/8	5/8	3/8	2	452-214-5
3/8	7/8	3/8	2-1/2	450-216-5

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V4 PRO+ CORNER RADIUS



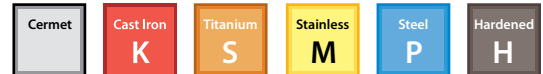
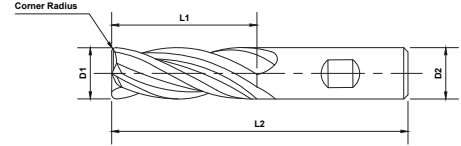
4 Flutes • Coated



- Pro+ performance A-Gr-SiV submicron grain carbide
- Unique variable design, coating, and edge quality
- Best performance and finish on wide range of materials

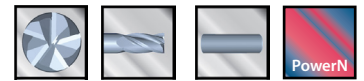


Stub, Series 452, PowerN
 Standard, Series 450, PowerN
 Long, Series 451, PowerN



OD	LOC	SHK	OAL	Radius	4 Flute
D1	L1	D2	L2	R	PowerN
1/8	1/4	1/8	1-1/2	.015	452-401-5
1/8	1/4	1/8	1-1/2	.020	452-402-5
3/16	3/8	3/16	2	.020	452-422-5
3/16	7/16	3/16	2	.020	450-412-5
1/4	1/2	1/4	2	.020	452-442-5
1/4	5/8	1/4	2-1/2	.020	450-422-5
1/4	3/4	1/4	2-1/2	.020	450-542-5
1/4	1-1/8	1/4	3	.020	451-402-5
5/16	13/16	5/16	2-1/2	.030	450-433-5
3/8	5/8	3/8	2	.030	452-463-5
3/8	7/8	3/8	2-1/2	.030	450-443-5
3/8	1-1/8	3/8	3	.030	451-423-5
1/2	1	1/2	3	.030	450-463-5
1/2	1-1/4	1/2	3	.030	450-473-5
5/8	1-1/4	5/8	3-1/2	.030	450-493-5

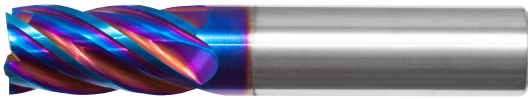
V5 PRO+ SQUARE ENDMILLS



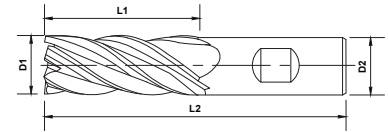
5 Flutes • Coated



- Pro+ performance A-Gr-SiV submicron grain carbide
- Unique variable design, coating, and edge quality
- Best performance and finish on wide range of materials

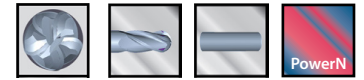


Standard, Series 453, PowerN



OD	LOC	SHK	OAL	5 Flute
D1	L1	D2	L2	PowerN
3/8	7/8	3/8	2-1/2	453-010-5
1/2	1	1/2	3	453-014-5
1/2	1-1/4	1/2	3	453-016-5
5/8	1-1/4	5/8	3-1/2	453-020-5
3/4	1-1/2	3/4	4	453-024-5
1	1-1/2	1	4	453-026-5

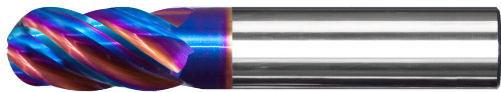
V5 PRO+ BALL ENDMILLS



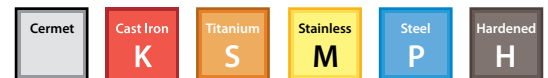
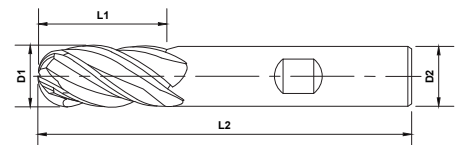
5 Flutes • Coated



- Pro+ performance A-Gr-SiV submicron grain carbide
- Unique variable design, coating, and edge quality
- Best performance and finish on wide range of materials
- MAP certified quality



Standard, Series 453, PowerN



OD	LOC	SHK	OAL	5 Flute
D1	L1	D2	L2	PowerN
3/8	7/8	3/8	2-1/2	453-210-5
1/2	1	1/2	3	453-214-5
1/2	1-1/4	1/2	3	453-216-5
5/8	1-1/4	5/8	3-1/2	453-220-5
3/4	1-1/2	3/4	4	453-222-5

Many Additional
Sizes Available

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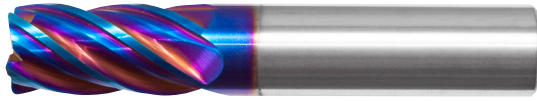
V5 PRO+ CORNER RADIUS



5 Flutes • Coated



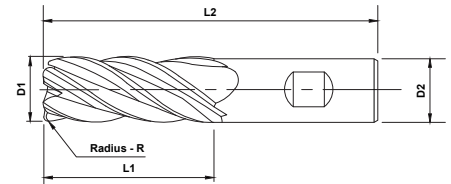
- Pro+ performance A-Gr-SiV submicron grain carbide
- Unique variable design, coating, and edge quality
- Best performance and finish on wide range of materials
- MAP certified quality



Stub, Series 455, PowerN

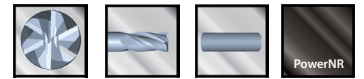
Standard, Series 453, 453, PowerN

Long, Series 454, PowerN



OD	LOC	SHK	OAL	Radius	5 Flute
D1	L1	D2	L2	R	PowerN
3/8	7/8	3/8	2-1/2	.030	453-443-5
1/2	1	1/2	3	.030	453-463-5
5/8	1-1/4	5/8	3-1/2	.030	453-493-5
3/4	1-1/2	3/4	4	.030	453-503-5

V7 PRO+ ENDMILLS



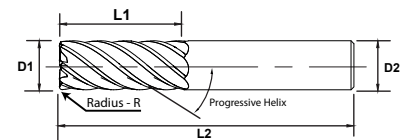
7 Flutes • Coated • Square and .030 Corner Radius



- Progressive Helix, Non-center cutting design
- High Performance, Eccentric relief
- Designed for HEM programs (High Efficiency Milling)
- Broad spectrum compatibility, including titanium alloys

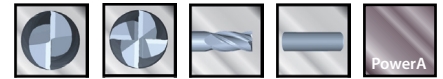


Standard, Series 449, PowerNR



OD	LOC	SHK	OAL	Square End	.030 Corner Rad.
D1	L1	D2	L2	PowerNR	PowerNR
1/4	7/8	1/4	2-1/2	449-006-8	449-423-8
1/4	1	1/4	3	449-008-8	449-433-8
3/8	7/8	3/8	2-1/2	449-020-8	449-493-8
1/2	1	1/2	3	449-030-8	449-543-8
1/2	1-1/4	1/2	3	449-032-8	449-553-8
5/8	1-5/8	5/8	4	449-046-8	449-623-8
3/4	1-1/4	3/4	3-1/2	449-052-8	449-653-8

SQUARE ENDMILLS



2 & 4 Flutes Coated and Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven versatile performance
- MAP certified quality



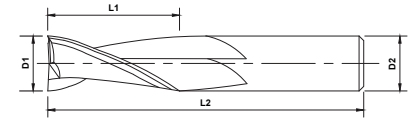
Stub, Series 213



Standard, Series 209, 210, 211



Long, Series, 204, 206



OD	LOC	SHK	OAL	2 Flute	4 Flute	2 Flute	4 Flute
D1	L1	D2	L2	Uncoated	Uncoated	PowerA	PowerA
1/32	1/16	1/8	1-1/2	-	213-702	-	-
1/32	3/32	1/8	1-1/2	209-202	211-202	209-202-1	211-202-1
3/64	1/8	1/8	1-1/2	209-204	211-204	-	211-204-1
1/16	1/8	1/8	1-1/2	213-106	213-706	-	213-706-1
1/16	1/4	1/8	1-1/2	209-206	211-206	209-206-1	211-206-1
5/64	1/4	1/8	1-1/2	209-208	211-208	-	211-208-1
3/32	3/16	1/8	1-1/2	-	-	-	213-708-1
3/32	3/8	1/8	1-1/2	209-210	211-210	209-210-1	211-210-1
7/64	3/8	1/8	1-1/2	-	211-212	-	211-212-1
1/8	1/4	1/8	1-1/2	213-112	213-712	-	-
1/8	1/2	1/8	1-1/2	209-214	211-214	209-214-1	211-214-1
1/8	5/8	1/8	2	-	206-202	-	206-202-1
1/8	3/4	1/8	2	204-204	206-204	-	206-204-1
1/8	1	1/8	3	204-206	206-206	-	206-206-1
9/64	9/16	3/16	2	209-216	211-216	-	211-216-1
5/32	9/16	3/16	2	209-218	211-218	209-218-1	211-218-1
3/16	5/8	3/16	2	209-222	211-222	209-222-1	211-222-1
3/16	3/4	3/16	2-1/2	204-208	206-208	-	206-208-1
3/16	1-1/8	3/16	3	204-210	206-210	-	206-210-1
3/16	1	3/16	4	204-212	206-212	-	206-212-1
7/32	5/8	1/4	2-1/2	209-226	211-226	-	211-226-1
1/4	1/2	1/4	2	213-118	213-718	-	213-718-1
1/4	3/4	1/4	2-1/2	209-230	211-230	209-230-1	211-230-1
1/4	1-1/8	1/4	3	204-214	206-214	-	206-214-1
1/4	1	1/4	4	-	206-216	-	206-216-1
1/4	1-1/2	1/4	4	204-218	206-218	-	206-218-1
1/4	1-1/2	1/4	6	204-220	206-220	-	206-220-1

Many Additional Sizes Available

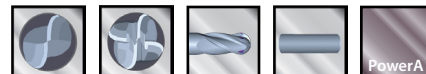
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SQUARE ENDMILLS

OD	LOC	SHK	OAL	2 Flute	4 Flute	2 Flute	4 Flute
D1	L1	D2	L2	Uncoated	Uncoated	PowerA	PowerA
9/32	7/8	5/16	2-1/2	-	211-234	-	-
5/16	7/8	5/16	2-1/2	209-238	211-238	209-238-1	211-238-1
5/16	1-1/8	5/16	3	-	206-222	-	206-222-1
5/16	1-5/8	5/16	4	204-226	206-226	-	206-226-1
3/8	5/8	3/8	2	213-122	213-722	-	213-722-1
3/8	7/8	3/8	2-1/2	209-246	211-246	209-246-1	211-246-1
3/8	1-1/8	3/8	3	204-230	206-230	-	206-230-1
3/8	1-3/4	3/8	4	204-232	206-232	-	206-232-1
3/8	2	3/8	4	204-234	206-234	-	206-234-1
3/8	1-1/2	3/8	6	-	206-236	-	206-236-1
3/8	3	3/8	6	-	206-238	-	206-238-1
7/16	1	7/16	2-1/2	209-254	211-254	209-254-1	211-254-1
7/16	2	7/16	4	-	206-242	-	206-242-1
1/2	1	1/2	3	209-262	211-262	209-262-1	211-262-1
1/2	2	1/2	4	204-252	206-252	-	206-252-1
1/2	3	1/2	6	204-254	206-254	-	206-254-1
9/16	1-1/4	9/16	3-1/2	209-264	211-264	-	211-264-1
5/8	1-1/4	5/8	3-1/2	209-266	211-266	209-266-1	211-266-1
5/8	2-1/4	5/8	5	-	206-256	-	206-256-1
5/8	3	5/8	6	-	206-258	-	206-258-1
3/4	1-1/2	3/4	4	209-270	211-270	-	211-270-1
3/4	3	3/4	6	204-262	206-262	-	206-262-1
7/8	1-1/2	7/8	4	-	211-272	-	211-272-1
1	1-1/2	1	4	-	211-274	-	211-274-1
1	3	1	6	-	-	-	206-266-1
1	4	1	6	-	-	-	206-268-1

BALL ENDMILLS



2 & 4 Flutes Coated and Uncoated

- Genuine **A-Gr-SiV** submicron grain carbide
- Proven versatile performance
- MAP certified quality



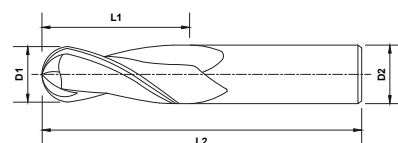
Stub, Series 213



Standard, Series 209, 210, 211



Long, Series 204, 206



OD	LOC	SHK	OAL	2 Flute	4 Flute	2 Flute	4 Flute
D1	L1	D2	L2	Uncoated	Uncoated	PowerA	PowerA
1/32	1/16	1/8	1-1/2		213-602		213-602-1
1/32	3/32	1/8	1-1/2	209-002	211-002		211-002-1
3/64	1/8	1/8	1-1/2		211-004		211-004-1
1/16	1/8	1/8	1-1/2	213-006	213-606		213-606-1
1/16	1/4	1/8	1-1/2	209-006	211-006	209-006-1	211-006-1
5/64	1/4	1/8	1-1/2		211-008		211-008-1
3/32	3/8	1/8	1-1/2	209-010	211-010		211-010-1
1/8	1/4	1/8	1-1/2	213-012	213-612		213-612-1
1/8	1/2	1/8	1-1/2	209-014	211-014	209-014-1	211-014-1
1/8	3/4	1/8	2	204-004	206-004		206-004-1
1/8	1	1/8	3	204-006	206-006		206-006-1
9/64	9/16	3/16	2		211-016		
5/32	9/16	3/16	2	209-018	211-018		211-018-1
3/16	5/8	3/16	2	209-022	211-022	209-022-1	211-022-1
3/16	1-1/8	3/16	3		206-010		206-010-1
3/16	1	3/16	4	204-012	206-012		206-012-1
1/4	1/2	1/4	2	213-018	213-618		213-618-1
1/4	3/4	1/4	2-1/2	209-030	211-030	209-030-1	211-030-1
1/4	1-1/8	1/4	3		206-014		206-014-1
1/4	1	1/4	4		206-016		206-016-1
1/4	1-1/2	1/4	4	204-018	206-018		206-018-1
1/4	1-1/2	1/4	6	204-020	206-020		206-020-1
5/16	1/2	5/16	2				213-620-1
5/16	7/8	5/16	2-1/2	209-038	211-038		211-038-1
5/16	1-5/8	5/16	4		206-026		206-026-1
5/16	1-1/2	5/16	6		206-028		
3/8	5/8	3/8	2				213-622-1

Many Additional Sizes Available

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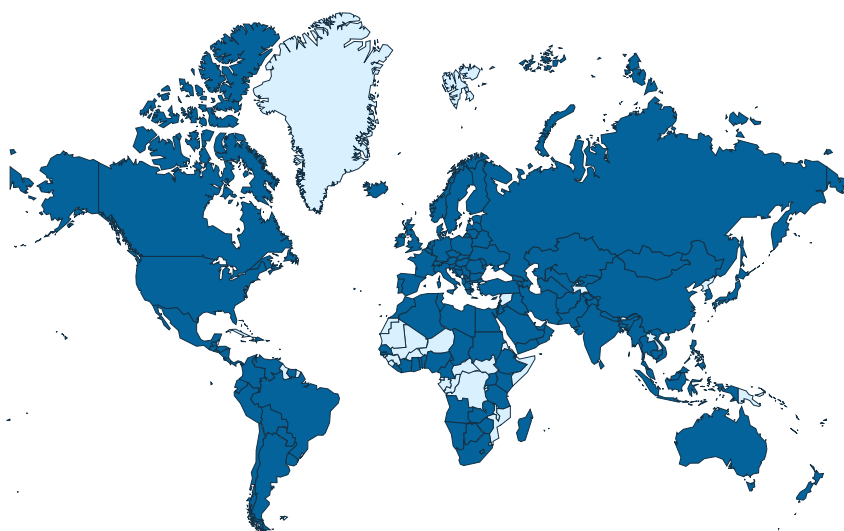
BALL ENDMILLS

OD	LOC	SHK	OAL	2 Flute	4 Flute	2 Flute	4 Flute
D1	L1	D2	L2	Uncoated	Uncoated	PowerA	PowerA
3/8	7/8	3/8	2-1/2	209-046	211-046	209-046-1	211-046-1
3/8	1-1/8	3/8	3	204-030	206-030		206-030-1
3/8	1-3/4	3/8	4				206-032-1
3/8	2	3/8	4				206-034-1
3/8	3	3/8	6		206-038		206-038-1
7/16	1	7/16	2-1/2		211-054		211-054-1
1/2	1	1/2	3	209-062	211-062	209-062-1	211-062-1
1/2	2	1/2	4	204-052	206-052		206-052-1
1/2	3	1/2	6	204-054	206-054		206-054-1
5/8	1-1/4	5/8	3-1/2		211-066		211-066-1
3/4	1-1/2	3/4	4		211-070		211-070-1

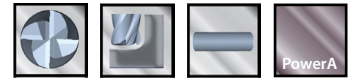
Global Growth and Focus

Utilizing the talents of our domestic and international sales representatives, Mastercut now has customers throughout the United States and in over 150 countries.

We have catalogs in 10 languages and have exhibited in trade shows in the USA, Brazil, Canada, China, France, Germany, Italy, Japan, Mexico, Peru, Russia, and Spain.



CORNER RADIUS ENDMILLS

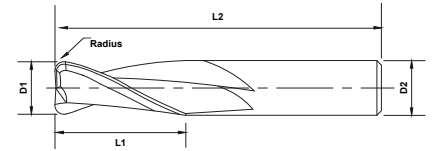


4 Flutes Coated

- Genuine A-Gr-SiV submicron grain carbide
- Corner radius for extra strength and precision
- MAP certified quality



Standard, Series 209, 211



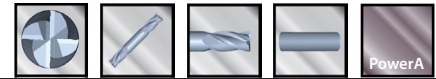
OD	LOC	SHK	OAL	Corner Radius	
D1	L1	D2	L2	R	4 Flute - PowerA
1/8	1/2	1/8	1-1/2	.030	211-403-1
3/16	5/8	3/16	2	.020	211-412-1
3/16	5/8	3/16	2	.030	211-413-1
3/16	5/8	3/16	2	.060	211-415-1
1/4	3/4	1/4	2-1/2	.015	211-421-1
1/4	3/4	1/4	2-1/2	.020	211-422-1
1/4	3/4	1/4	2-1/2	.030	211-423-1
1/4	3/4	1/4	2-1/2	.045	211-424-1
1/4	3/4	1/4	2-1/2	.060	211-425-1
5/16	13/16	5/16	2-1/2	.030	211-433-1
5/16	13/16	5/16	2-1/2	.045	211-434-1
3/8	1	3/8	2-1/2	.015	211-441-1
3/8	1	3/8	2-1/2	.020	211-442-1
3/8	1	3/8	2-1/2	.030	211-443-1
3/8	1	3/8	2-1/2	.045	211-444-1
3/8	1	3/8	2-1/2	.060	211-445-1
1/2	1	1/2	3	.010	211-450-1
1/2	1	1/2	3	.015	211-451-1
1/2	1	1/2	3	.020	211-452-1
1/2	1	1/2	3	.030	211-453-1
1/2	1	1/2	3	.045	211-454-1
1/2	1	1/2	3	.060	211-455-1
1/2	1	1/2	3	.090	211-456-1
1/2	1	1/2	4	.125	206-577-1
5/8	1-1/4	5/8	3-1/2	.060	211-465-1
3/4	1-1/2	3/4	4	.030	211-473-1

**Many Additional
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SQUARE END - DOUBLE END



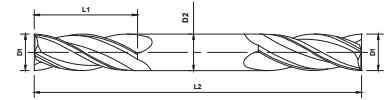
4 Flutes Uncoated

- Genuine **A-Gr-SiV** submicron grain carbide
- Proven versatile performance
- MAP certified quality



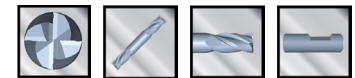
Standard, Series 201

Stub, Series 202



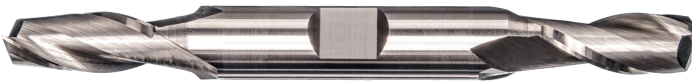
OD	LOC	SHK	OAL	
D1	L1	D2	L2	4 Flute
1/32	1/16	1/8	1-1/2	202-302
1/16	1/8	1/8	1-1/2	202-306
5/64	3/16	1/8	1-1/2	202-308
3/32	3/16	1/8	1-1/2	202-310
7/64	1/4	1/8	1-1/2	202-312
1/8	1/4	1/8	1-1/2	202-314
5/32	5/16	3/16	2	202-316
3/16	3/8	3/16	2	202-318
7/32	1/2	1/4	2-1/2	202-320
1/4	1/2	1/4	2-1/2	202-322
5/16	1/2	5/16	2-1/2	202-324
3/8	3/4	3/8	3-1/2	201-322
1/2	5/8	1/2	3	202-330

SQUARE DOUBLE END WITH FLAT

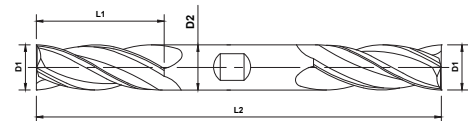


Common Shank with Flat • 4 Flutes Uncoated

- Genuine **A-Gr-SiV** submicron grain carbide
- Proven versatile performance
- MAP certified quality

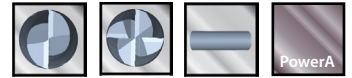


Series 200

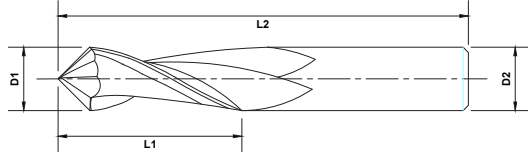


OD	LOC	SHK	OAL	
D1	L1	D2	L2	4 Flute
1/8	3/8	3/8	3	200-302W
3/16	1/2	3/8	3	200-304W
1/4	5/8	3/8	3	200-308W
5/16	3/4	3/8	3-1/2	200-310W
3/8	3/4	3/8	3-1/2	200-312W

90° DRILL MILLS



2 and 4 Flutes • Coated and Uncoated



- Genuine A-Gr-SiV submicron grain carbide
- Chamfering, countersinking, spotting, and profile milling
- MAP certified quality



2 Flute, Series 214



4 Flute, Series 214



4 Flute, Series 214, PowerA



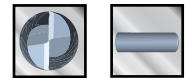
OD	LOC	SHK	OAL	2 Flute	4 Flute	2 Flute	4 Flute
D1	L1	D2	L2	Uncoated	Uncoated	PowerA	4 PowerA
1/8	1/2	1/8	1-1/2	214-002	214-302	214-002-1	214-302-1
3/16	5/8	3/16	2	214-004	214-304	214-004-1	214-304-1
1/4	3/4	1/4	2-1/2	214-006	214-306	214-006-1	214-306-1
3/8	7/8	3/8	2-1/2	214-010	214-310	214-010-1	214-310-1
1/2	1	1/2	3	214-014	214-314	214-014-1	214-314-1
5/8	1-1/4	5/8	3-1/2	-	-	214-016-1	214-316-1
3/4	1-1/2	3/4	4	-	-	214-018-1	214-318-1

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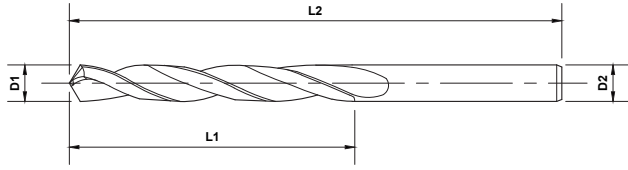


JOBBER DRILLS



2 Flute 118° Four Facet Point • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven, versatile performance
- MAP certified quality



Series 601 - 2 Flute



Series 601 - 3 Flute



OD	LOC	SHK	OAL	Wire -Letter Size	2 Flute
D1	L1	D2	L2		
.0280	5/16	.0280	1-1/4	70	601-002
.0310	5/16	.0310	1-1/4	68	601-006
1/32	5/16	1/32	1-1/4		601-008
.0320	5/16	.0320	1-1/4	67	601-010
.0330	5/16	.0330	1-1/4	66	601-012
.0350	5/8	.0350	1-3/8	65	601-014
.0360	5/8	.0360	1-3/8	64	601-016
.0370	5/8	.0370	1-3/8	63	601-018
.0380	5/8	.0380	1-3/8	62	601-020
.0390	5/8	.0390	1-3/8	61	601-022
.0394	5/8	.0394	1-1/2		601-024
.0400	3/4	.0400	1-1/2	60	601-026
.0410	3/4	.0410	1-1/2	59	601-028
.0420	3/4	.0420	1-1/2	58	601-030
.0430	3/4	.0430	1-1/2	57	601-032
.0465	3/4	.0465	1-1/2	56	601-034
3/64	3/4	3/64	1-1/2		601-036
.0520	3/4	.0520	1-1/2	55	601-038
.0550	3/4	.0550	1-1/2	54	601-040
.0591	3/4	.0591	1-1/2		601-042
.0595	3/4	.0595	1-1/2	53	601-044
1/16	3/4	1/16	1-1/2		601-046
.0635	3/4	.0635	1-1/2	52	601-048
.0670	3/4	.0670	1-1/2	51	601-050
.0700	7/8	.0700	1-3/4	50	601-052
.0730	7/8	.0730	1-3/4	49	601-054
.0760	7/8	.0760	1-3/4	48	601-056
5/64	7/8	5/64	1-3/4		601-058

JOBBER DRILLS

OD	LOC	SHK	OAL	Wire -Letter Size	2 Flute
D1	L1	D2	L2		
.0785	7/8	.0785	1-3/4	47	601-060
.0787	7/8	.0787	1-3/4		601-062
.0810	7/8	.0810	1-3/4	46	601-064
.0820	7/8	.0820	1-3/4	45	601-066
.0860	1	.0860	2	44	601-068
.0890	1	.0890	2	43	601-070
.0935	1	.0935	2	42	601-072
3/32	1	3/32	2		601-074
.0960	1	.0960	2	41	601-076
.0980	1	.0980	2	40	601-078
.0984	1	.0984	2		601-080
.0995	1-1/4	.0995	2-1/4	39	601-082
.1015	1-1/4	.1015	2-1/4	38	601-084
.1040	1-1/4	.1040	2-1/4	37	601-086
.1065	1-1/4	.1065	2-1/4	36	601-088
7/64	1-1/4	7/64	2-1/4		601-090
.1110	1-1/4	.1110	2-1/4	35	601-094
.1130	1-1/4	.1130	2-1/4	33	601-096
.1160	1-1/4	.1160	2-1/4	32	601-098
.1181	1-1/4	.1181	2-1/4		601-100
.1200	1-1/4	.1200	2-1/4	31	601-102
1/8	1-1/4	1/8	2-1/4		601-104
.1285	1-3/8	.1285	2-1/2	30	601-106
.1360	1-3/8	.1360	2-1/2	29	601-108
.1378	1-3/8	.1378	2-1/2		601-110
.1405	1-3/8	.1405	2-1/2	28	601-112
9/64	1-3/8	9/64	2-1/2		601-114
.1440	1-3/8	.1440	2-1/2	27	601-116
.1470	1-3/8	.1470	2-1/2	26	601-118
.1495	1-3/8	.1495	2-1/2	25	601-120
.1520	1-3/8	.1520	2-1/2	24	601-122
.1540	1-3/8	.1540	2-1/2	23	601-124
5/32	1-3/8	5/32	2-1/2		601-126
.1570	1-3/8	.1570	2-1/2	22	601-128
.1575	1-3/8	.1575	2-1/2		601-130
.1590	1-3/8	.1590	2-1/2	21	601-132
.1610	1-3/8	.1610	2-1/2	20	601-134
.1660	1-5/8	.1660	2-3/4	19	601-136
.1695	1-5/8	.1695	2-3/4	18	601-138
11/64	1-5/8	11/64	2-3/4		601-140
.1730	1-5/8	.1730	2-3/4	17	601-142
.1770	1-5/8	.1770	2-3/4	16	601-144
.1772	1-5/8	.1772	2-3/4		601-146
.1800	1-5/8	.1800	2-3/4	15	601-148

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JOBBER DRILLS

OD	LOC	SHK	OAL	Wire -Letter Size	2 Flute
D1	L1	D2	L2		
.1820	1-5/8	.1820	2-3/4	14	601-150
.1850	1-5/8	.1850	2-3/4	13	601-152
3/16	1-5/8	3/16	2-3/4		601-154
.1890	1-5/8	.1890	2-3/4	12	601-156
.1910	1-5/8	.1910	2-3/4	11	601-158
.1935	1-5/8	.1935	2-3/4	10	601-160
.1960	1-3/4	.1960	3	9	601-162
.1968	1-3/4	.1968	3		601-164
.1990	1-3/4	.1990	3	8	601-166
.2010	1-3/4	.2010	3	7	601-168
13/64	1-3/4	13/64	3		601-170
.2040	1-3/4	.2040	3	6	601-172
.2055	1-3/4	.2055	3	5	601-174
.2090	1-3/4	.2090	3	4	601-176
.2130	1-3/4	.2130	3	3	601-178
.2165	1-3/4	.2165	3		601-180
7/32	1-3/4	7/32	3		601-182
.2210	1-3/4	.2210	3	2	601-184
.2280	1-3/4	.2280	3	1	601-186
.2340	2	.2340	3-1/4	A	601-188
15/64	2	15/64	3-1/4		601-190
.2362	2	.2362	3-1/4		601-192
.2380	2	.2380	3-1/4	B	601-194
.2420	2	.2420	3-1/4	C	601-196
.2460	2	.2460	3-1/4	D	601-198
1/4	2	1/4	3-1/4	E	601-200
.2559	2	.2559	3-1/4		601-202
.2570	2	.2570	3-1/4	F	601-204
.2610	2-1/8	.2610	3-1/2	G	601-206
17/64	2-1/8	17/64	3-1/2		601-208
.2660	2-1/8	.2660	3-1/2	H	601-210
.2720	2-1/8	.2720	3-1/2	I	601-212
.2756	2-1/8	.2756	3-1/2		601-214
.2770	2-1/8	.2770	3-1/2	J	601-216
.2810	2-1/8	.2810	3-1/2	K	601-218
9/32	2-1/8	9/32	3-1/2		601-220
.2900	2-1/8	.2900	3-1/2	L	601-222
.2950	2-3/8	.2950	4	M	601-224
.2953	2-3/8	.2953	4		601-226
19/64	2-3/8	19/64	4		601-228
.3020	2-3/8	.3020	4	N	601-230
5/16	2-3/8	5/16	4		601-232

JOBBER DRILLS

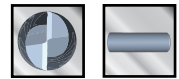
OD	LOC	SHK	OAL	Wire -Letter Size	2 Flute
D1	L1	D2	L2		
.3150	2-3/8	.3150	4		601-234
.3160	2-3/8	.3160	4	O	601-236
.3230	2-3/8	.3230	4	P	601-238
21/64	2-3/8	21/64	4		601-240
.3320	2-3/8	.3320	4	Q	601-242
.3346	2-3/8	.3346	4		601-244
.3390	2-3/8	.3390	4	R	601-246
11/32	2-3/8	11/32	4		601-248
.3480	2-3/8	.3480	4	S	601-250
.3543	2-3/4	.3543	4-1/4		601-252
.3580	2-3/4	.3580	4-1/4	T	601-254
23/64	2-3/4	23/64	4-1/4		601-256
.3680	2-3/4	.3680	4-1/4	U	601-258
.3740	2-3/4	.3740	4-1/4		601-260
3/8	2-3/4	3/8	4-1/4		601-262
.3770	2-3/4	.3770	4-1/4	V	601-264
.3860	2-7/8	.3860	4-1/2	W	601-266
25/64	2-7/8	25/64	4-1/2		601-268
.3937	2-7/8	.3937	4-1/2		601-270
.3970	2-7/8	.3970	4-1/2	X	601-272
.4040	2-7/8	.4040	4-1/2	Y	601-274
13/32	2-7/8	13/32	4-1/2		601-276
.4130	2-7/8	.4130	4-1/2	Z	601-278
.4134	2-7/8	.4134	4-1/2		601-280
27/64	2-7/8	27/64	4-1/2		601-282
.4331	2-7/8	.4331	4-1/2		601-284
7/16	2-7/8	7/16	4-1/2		601-286
.4527	3	.4527	4-3/4		601-288
29/64	3	29/64	4-3/4		601-290
15/32	3	15/32	4-3/4		601-292
.4724	3	.4724	4-3/4		601-294
31/64	3	31/64	4-3/4		601-296
1/2	3	1/2	4-3/4		601-300
17/32	4	17/32	6		601-302
9/16	4	9/16	6		601-304
19/32	4	19/32	6		601-306
5/8	4	5/8	6		601-308
11/16	4	11/16	6		601-312
3/4	4	3/4	6		601-316

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STUB DRILLS

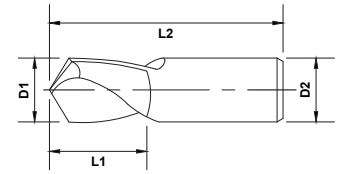


2 Flute • 135° & 118° Four Facet Point • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven, versatile performance
- MAP certified quality



Stub, Series 603



OD	LOC	SHK	OAL	Wire Letter Size	Point Angle	2 Flute
D1	L1	D2	L2			Uncoated
.0465	1/2	.0465	1-1/2	#56	135°	603-002
.0520	1/2	.0520	1-1/2	#55	135°	603-006
.0550	1/2	.0550	1-1/2	#54	135°	603-008
.0595	1/2	.0595	1-1/2	#53	135°	603-010
1/16	5/8	1/16	2		118°	603-012
.0635	5/8	.0635	2	#52	118°	603-014
.0670	5/8	.0670	2	#51	118°	603-016
.0700	5/8	.0700	2	#50	118°	603-018
.0730	5/8	.0730	2	#49	118°	603-020
.0760	5/8	.0760	2	#48	118°	603-022
5/64	5/8	5/64	2		118°	603-024
.0785	5/8	.0785	2	#47	118°	603-026
.0810	5/8	.0810	2	#46	118°	603-028
.0820	5/8	.0820	2	#45	118°	603-030
.0860	5/8	.0860	2	#44	118°	603-032
.0890	5/8	.0890	2	#43	118°	603-034
.0935	5/8	.0935	2	#42	118°	603-036
3/32	5/8	3/32	2		118°	603-038
.0960	5/8	.0960	2	#41	118°	603-040
.0980	5/8	.0980	2	#40	118°	603-042
.0995	5/8	.0995	2	#39	118°	603-044
.1015	5/8	.1015	2	#38	118°	603-046
.1065	5/8	.1065	2		118°	603-050
7/64	5/8	7/64	2		118°	603-052
.1100	5/8	.1100	2	#35	118°	603-054
.1110	5/8	.1110	2	#34	118°	603-056
.1130	5/8	.1130	2	#33	118°	603-058
.1160	5/8	.1160	2	#32	118°	603-060
.1200	5/8	.1200	2	#31	118°	603-062
1/8	5/8	1/8	2		118°	603-064
.1285	5/8	.1285	2	#30	118°	603-066
.1360	5/8	.1360	2		118°	603-068
.1405	5/8	.1405	2	#28	118°	603-070
9/64	5/8	9/64	2		118°	603-072
.1440	5/8	.1440	2	#27	118°	603-074
.1470	5/8	.1470	2	#26	118°	603-076
.1495	3/4	.1495	2-1/2		118°	603-078

STUB DRILLS

OD	LOC	SHK	OAL	Wire Letter Size	Point Angle	2 Flute
D1	L1	D2	L2			Uncoated
.1520	3/4	.1520	2-1/2	#24	118°	603-080
.1540	3/4	.1540	2-1/2	#23	118°	603-082
5/32	3/4	5/32	2-1/2		118°	603-084
.1570	3/4	.1570	2-1/2		118°	603-086
.1590	3/4	.1590	2-1/2	#21	118°	603-088
.1610	3/4	.1610	2-1/2	#20	118°	603-090
.1660	3/4	.1660	2-1/2	#19	118°	603-092
.1695	3/4	.1695	2-1/2	#18	118°	603-094
11/64	3/4	11/64	2-1/2		118°	603-096
.1730	3/4	.1730	2-1/2	#17	118°	603-098
.1770	3/4	.1770	2-1/2	#16	118°	603-100
.1800	3/4	.1800	2-1/2	#15	118°	603-102
.1820	3/4	.1820	2-1/2	#14	118°	603-104
.1850	3/4	.1850	2-1/2	#13	118°	603-106
3/16	3/4	3/16	2-1/2		118°	603-108
.1890	3/4	.1890	2-1/2	#12	118°	603-110
.1910	3/4	.1910	2-1/2	#11	118°	603-112
.1935	3/4	.1935	2-1/2	#10	118°	603-114
.1960	3/4	.1960	2-1/2	#9	118°	603-116
.1990	3/4	.1990	2-1/2	#8	118°	603-118
.2010	3/4	.2010	2-1/2	#7	118°	603-120
13/64	3/4	13/64	2-1/2		118°	603-122
.2040	3/4	.2040	2-1/2	#6	118°	603-124
.2055	3/4	.2055	2-1/2	#5	118°	603-126
.2090	3/4	.2090	2-1/2	#4	118°	603-128
.2130	1	.2130	2-1/2		118°	603-130
7/32	1	7/32	2-1/2		118°	603-132
.2210	1	.2210	2-1/2	#2	118°	603-134
.2280	1	.2280	2-1/2	#1	118°	603-136
15/64	1	15/64	2-1/2		118°	603-140
1/4	1	1/4	2-1/2		118°	603-148
17/64	1	17/64	2-1/2		118°	603-154
9/32	1	9/32	2-1/2		118°	603-166
19/64	1-1/4	19/64	2-3/4		118°	603-172
5/16	1-1/4	5/16	2-3/4		118°	603-176
21/64	1-1/4	21/64	2-3/4		118°	603-182
11/32	1-1/4	11/32	3		118°	603-188
23/64	1-1/4	23/64	3		118°	603-194
3/8	1-1/4	3/8	3		118°	603-198
25/64	1-1/4	25/64	3		118°	603-204
13/32	1-1/4	13/32	3		118°	603-210
27/64	1-1/4	27/64	3		118°	603-214
7/16	1-1/4	7/16	3		118°	603-216
29/64	1-1/4	29/64	3		118°	603-218
31/64	1-1/4	31/64	3		118°	603-222
1/2	1-1/4	1/2	3		118°	603-224

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SPADE DRILLS

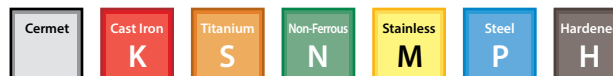
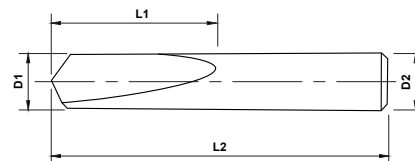


118° Point • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven versatile performance
- MAP certified quality

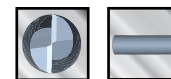


Standard, Series 600



OD	LOC	SHK	OAL	2 Flute
D1	L1	D2	L2	Uncoated
1/16	5/16	1/16	1-1/2	600-004
3/32	3/8	3/32	1-1/2	600-006
1/8	7/16	1/8	1-1/2	600-008
5/32	15/32	5/32	2	600-010
3/16	9/16	3/16	2	600-012
7/32	19/32	7/32	2	600-014
1/4	11/16	1/4	2	600-016
9/32	3/4	9/32	2-1/2	600-018
5/16	7/8	5/16	2-1/2	600-020
3/8	1	3/8	2-1/2	600-022

NC SPOTTING DRILLS

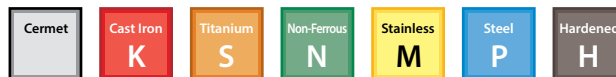
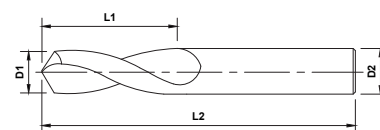


90° • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven versatile performance
- MAP certified quality

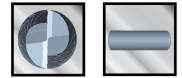


Standard, Series 600



OD	LOC	SHK	OAL	90° Point
D1	L1	D2	L2	Uncoated
1/8	3/8	1/8	2	600-402
3/16	3/4	3/16	3	600-404
1/4	3/4	1/4	3	600-406
5/16	1	5/16	2-1/2	600-408
3/8	1	3/8	3	600-410
1/2	1	1/2	4	600-412

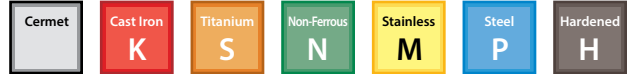
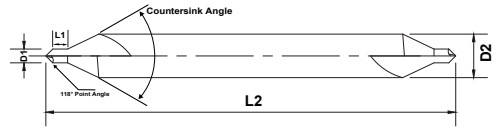
DRILL AND COUNTERSINK



118° point Center Drills • 60° Countersink • Uncoated



Standard, Series 600



OD	LOC	SHK	OAL	60° Point
D1	L1	D2	L2	Uncoated
3/64	3/64	1/8	1-1/2	600-304
5/64	5/64	3/16	2	600-306
7/64	7/64	1/4	2	600-308
1/8	1/8	5/16	2-1/8	600-310
3/16	3/16	7/16	2-3/4	600-312
7/32	7/32	1/2	3	600-314

SINGLE FLUTE COUNTERSINKS

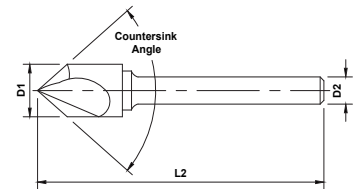


Single Flute • 82° and 90° • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven, versatile performance



Standard, Series 680



OD	SHK	OAL	82° Point	90° Point
D1	D2	L2	Uncoated	Uncoated
1/4	1/4	2	680-106	680-206
3/8	1/4	2-5/8	680-108	680-208
1/2	1/4	2-7/8	680-110	680-210
5/8	3/8	3	680-112	680-212
3/4	1/2	3	680-114	680-214
1	1/2	2-3/4	680-116	680-216

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THREE FLUTE COUNTERSINKS

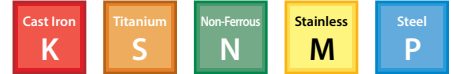
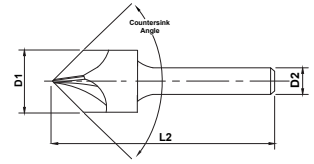


Three Flute • 60°, 82°, and 90° • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven, versatile performance

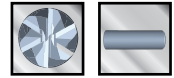


Standard, Series 680



OD	SHK	OAL	60° Point	82° Point	90° Point
D1	D2	L2	Uncoated	Uncoated	Uncoated
1/4	1/4	2	680-306	680-406	680-506
3/8	1/4	2-5/8	680-308	680-408	680-508
1/2	1/4	2-7/8	680-310	680-410	680-510
5/8	3/8	3	680-312	680-412	680-512
3/4	1/2	3	680-314	680-414	680-514
1	1/2	2-3/4	680-316	680-416	680-516

SIX FLUTE COUNTERSINKS

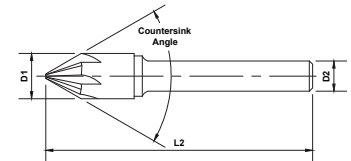


Six Flute • 60°, 82°, 90° Point • Uncoated

- Genuine A-Gr-SiV submicron grain carbide
- Proven, versatile performance

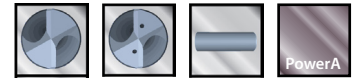


Standard, Series 680



OD	SHK	OAL	60° Point	82° Point	90° Point
D1	D2	L2	Uncoated	Uncoated	Uncoated
1/4	1/4	2	680-606	680-706	680-806
3/8	1/4	2-5/8	680-608	680-708	680-808
1/2	1/4	2-7/8	680-610	680-710	680-810
5/8	3/8	3	-	680-712	680-812
3/4	1/2	3	-	680-714	680-814
1	1/2	2-3/4	-	680-716	680-816

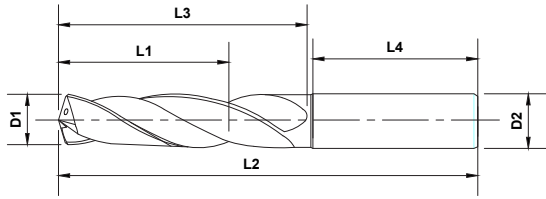
HURRICANE DRILLS - 3xD



HIGH PERFORMANCE DRILLS

3xD • 2 FL, 140° Point and 30° Helix • Coated • Coolant and Non-Coolant Through

- High Performance A-Gr-SiV submicron grain carbide
- Coolant and non-coolant through
- Rigid design for fast feed rates
- MAP certified quality



Series 750, PowerA



OD	LOC		SHK	OAL		Non-Coolant Through	Coolant Through
D1	L1	L3	D2	L4	L2	PowerA	PowerA
.1181	0.5511	0.787	0.2362	1.417	2.44	750-002-1	-
1/8	0.5511	0.787	0.2362	1.417	2.44	750-008-1	-
.1260	0.5511	0.787	0.2362	1.417	2.44	750-010-1	-
.1299	0.5511	0.787	0.2362	1.417	2.44	750-014-1	-
.1378	0.5511	0.787	0.2362	1.417	2.44	-	750-518-1
.1417	0.5511	0.787	0.2362	1.417	2.44	-	750-524-1
.1457	0.5511	0.787	0.2362	1.417	2.44	750-026-1	750-526-1
.1496	0.6690	0.944	0.2362	1.417	2.59	-	750-528-1
.1575	0.6690	0.944	0.2362	1.417	2.59	750-036-1	750-536-1
.1614	0.6690	0.944	0.2362	1.417	2.59	-	750-538-1
.1654	0.6690	0.944	0.2362	1.417	2.59	750-040-1	750-540-1
.1693	0.6690	0.944	0.2362	1.417	2.59	750-042-1	-
.1772	0.6690	0.944	0.2362	1.417	2.59	750-050-1	750-550-1
.1811	0.6690	0.944	0.2362	1.417	2.59	750-052-1	750-552-1
3/16	0.7874	1.102	0.2362	1.417	2.59	750-060-1	-
.2165	0.7874	1.102	0.2362	1.417	2.59	-	750-580-1
.2205	0.7874	1.102	0.2362	1.417	2.59	-	750-588-1
.2283	0.7874	1.102	0.2362	1.417	2.59	-	750-592-1
.2362	0.7874	1.102	0.2362	1.417	2.59	-	750-600-1
.2402	0.9448	1.338	0.3150	1.417	3.11	-	750-602-1
.2441	0.9448	1.338	0.3150	1.417	3.11	750-104-1	750-604-1
1/4	0.9448	1.338	0.3150	1.417	3.11	750-108-1	-
17/64	0.9448	1.338	0.3150	1.417	3.11	750-118-1	750-618-1
.2677	0.9448	1.338	0.3150	1.417	3.11	750-122-1	-
.2717	0.9448	1.338	0.3150	1.417	3.11	750-124-1	-

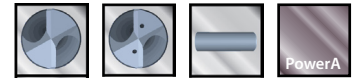
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OD	LOC		SHK		OAL	Non-Coolant Through	Coolant Through
	D1	L1	L3	D2	L4	L2	PowerA
.2756	0.9448	1.338	0.3150	1.417	3.11	-	750-626-1
.2874	1.1410	1.614	0.3150	1.417	3.11	750-136-1	-
.2913	1.1410	1.614	0.3150	1.417	3.11	750-138-1	750-638-1
.3031	1.1410	1.614	0.3150	1.417	3.11	750-148-1	-
5/16	1.1410	1.614	0.3150	1.417	3.11	750-154-1	750-654-1
.3150	1.1410	1.614	0.3150	1.417	3.11	750-158-1	750-658-1
.3228	1.3770	1.850	0.3937	1.575	3.50	-	750-662-1
21/64	1.3770	1.850	0.3937	1.575	3.50	-	750-668-1
.3386	1.3770	1.850	0.3937	1.575	3.50	750-174-1	-
.3425	1.3770	1.850	0.3937	1.575	3.50	750-176-1	-
.3465	1.3770	1.850	0.3937	1.575	3.50	-	750-682-1
.3622	1.3770	1.850	0.3937	1.575	3.50	750-194-1	750-694-1
.3740	1.3770	1.850	0.3937	1.575	3.50	750-202-1	-
3/8	1.3770	1.850	0.3937	1.575	3.50	750-206-1	750-706-1
.3937	1.3770	1.850	0.3937	1.575	3.50	750-220-1	-
.4134	1.5740	2.165	0.4724	1.772	4.01	-	750-734-1
27/64	1.5740	2.165	0.4724	1.772	4.01	-	750-740-1
.4252	1.5740	2.165	0.4724	1.772	4.01	750-242-1	-
.4331	1.5740	2.165	0.4724	1.772	4.01	750-246-1	-
7/16	1.5740	2.165	0.4724	1.772	4.01	-	750-752-1
.4409	1.5740	2.165	0.4724	1.772	4.01	750-254-1	750-754-1
29/64	1.5740	2.165	0.4724	1.772	4.01	-	750-762-1
.4724	1.5740	2.165	0.4724	1.772	4.01	-	750-776-1
31/64	1.5740	2.165	0.5512	1.772	4.01	-	750-778-1
1/2	1.6920	2.362	0.5512	1.772	4.21	750-284-1	-

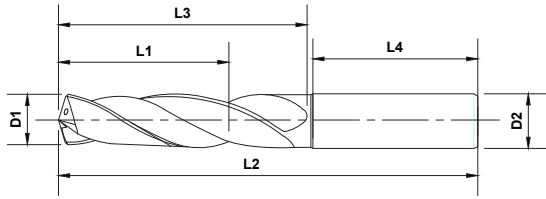
HURRICANE DRILLS - 5xD



HIGH PERFORMANCE DRILLS

5xD • 2 FL, 140° Point and 30° Helix • Coated • Coolant and Non-Coolant Through

- High Performance A-Gr-SiV submicron grain carbide
- Coolant and non-coolant through
- Rigid design for fast feed rates
- MAP certified quality



Series 751, PowerA



OD	LOC		SHK	OAL		Non-Coolant Through	Coolant Through
D1	L1	L3	D2	L4	L2	PowerA	PowerA
.1181	0.905	1.102	.2362	1.417	2.59	751-002-1	-
1/8	0.905	1.102	.2362	1.417	2.59	751-008-1	-
.1299	0.905	1.102	.2362	1.417	2.59	751-014-1	-
5/32	1.141	1.417	.2362	1.417	2.91	751-032-1	751-532-1
.1575	1.141	1.417	.2362	1.417	2.91	751-036-1	-
.1874	1.377	1.732	.2362	1.417	3.22	751-058-1	-
.1890	1.377	1.732	.2362	1.417	3.22	751-062-1	-
.1969	1.377	1.732	.2362	1.417	3.22	751-066-1	751-566-1
13/64	1.377	1.732	.2362	1.417	3.22	-	751-570-1
.2087	1.377	1.732	.2362	1.417	3.22	751-076-1	-
7/32	1.377	1.732	.2362	1.417	3.22	-	751-584-1
.2283	1.377	1.732	.2362	1.417	3.22	-	751-592-1
15/64	1.377	1.732	.2362	1.417	3.22	751-098-1	751-598-1
1/4	1.692	2.086	.3150	1.417	3.58	751-108-1	751-608-1
.2677	1.692	2.086	.3150	1.417	3.58	751-122-1	751-622-1
9/32	1.692	2.086	.3150	1.417	3.58	751-132-1	-
.2913	1.692	2.086	.3150	1.417	3.58	-	751-638-1
.3110	1.692	2.086	.3150	1.417	3.58	-	751-652-1
.3150	1.692	2.086	.3150	1.417	3.58	-	751-658-1
.3189	1.929	2.401	.3937	1.575	4.05	-	751-660-1
21/64	1.929	2.401	.3937	1.575	4.05	-	751-668-1
.3504	1.929	2.401	.3937	1.575	4.05	-	751-684-1
3/8	1.929	2.401	.3937	1.575	4.05	751-206-1	751-706-1
29/64	2.204	2.795	.4724	1.772	4.64	-	751-762-1
31/64	2.362	2.795	.5512	1.772	4.64	751-278-1	751-778-1
17/32	2.362	3.03	.5512	1.772	4.88	751-288-1	-

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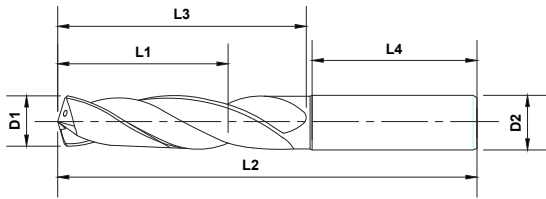
HURRICANE DRILLS - 8xD



HIGH PERFORMANCE DRILLS

8xD • 2 FL, 140° Point and 30° Helix • Coated • Coolant Through

- High Performance A-Gr-SiV submicron grain carbide
- Coolant and non-coolant through
- Rigid design for fast feed rates
- MAP certified quality



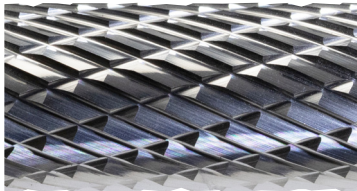
Series 750, PowerA



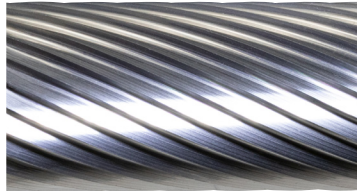
OD	LOC		SHK	OAL		Coolant Through
D1	L1	L3	D2	L4	L2	PowerA
.1850	1.417	1.692	.2362	1.3386	3.18	752-544-1
.1890	2.086	2.244	.2362	1.3386	3.74	752-548-1
.2008	2.086	2.244	.2362	1.4173	3.74	752-554-1
.2598	2.598	2.992	.3150	1.4173	4.48	752-592-1
.2953	2.598	2.992	.3150	1.4173	4.48	752-614-1
.3150	2.598	2.992	.3150	1.4173	4.48	752-628-1
.3465	3.346	3.740	.3937	1.771	5.59	752-648-1



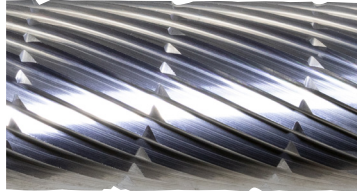
CARBIDE BURS



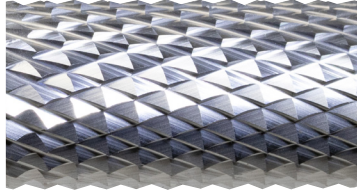
DOUBLECUT (DC)



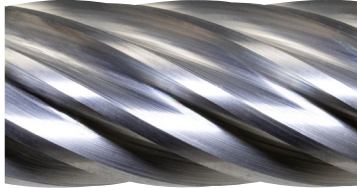
SINGLECUT (SC)



CHIPBREAKER (CB)



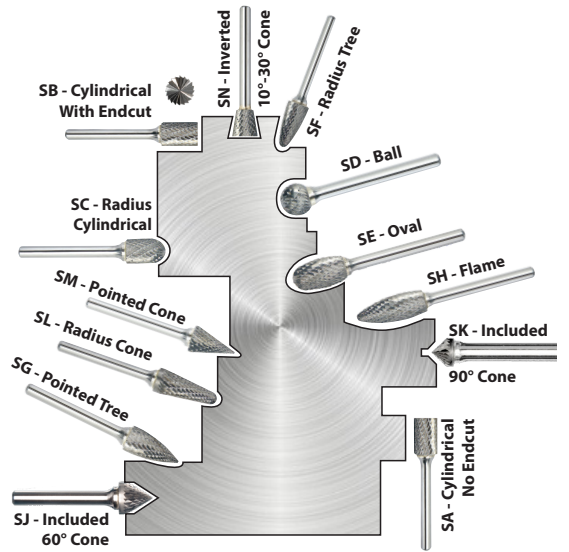
DIAMONDCUT (DM)



ALUMACUT (FM)
For Aluminum



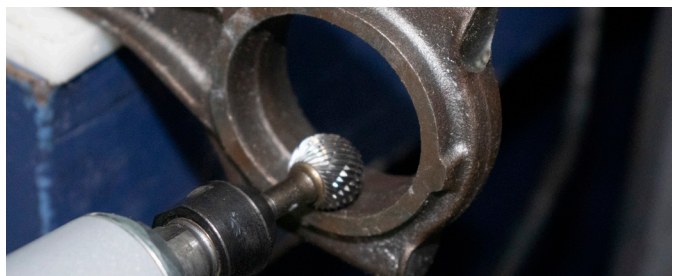
NX CUT (NX)
For Stainless Steel



Bur Shape Guide

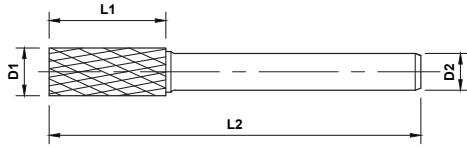
SG-5	L6	DC
Shape	Size	6" Shank
		Cut Type

Part ID Guide



SA BURS - CYLINDRICAL SHAPE

Without End Cut



Standard, Singlecut, Series SA-SC



Standard, Doublecut, Series SA-DC



Standard, Alumacut, Series SA-FM



Long, Singlecut, Series SA-SC

Length Key (K)

Standard Long * Solid Carbide

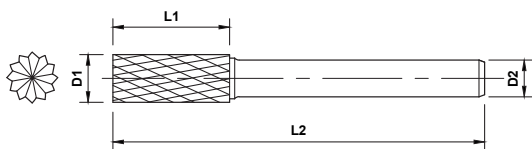
Non-Ferrous **N** Alumacuts recommended for non-ferrous materials

Cermet
Cast Iron **K**
Titanium **S**
Stainless **M**
Steel **P**
Hardened **H**

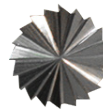
	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	1/16	1/4	1/8	1-1/2	SA-41SC	SA-41DC	-
*	3/32	7/16	1/8	1-1/2	SA-42SC	SA-42DC	-
*	1/8	9/16	1/8	1-1/2	SA-43SC	SA-43DC	SA-43FM
*	1/4	1/2	1/8	2	SA-51SC	SA-51DC	SA-51FM
*	1/8	5/8	1/4	2	SA-12SC	SA-12DC	-
*	3/16	5/8	1/4	2	SA-14SC	SA-14DC	-
*	1/4	5/8	1/4	2	SA-1SC	SA-1DC	SA-1FM
	1/4	5/8	1/4	6-3/4	-	SA-1L6DC	SA-1L6FM
	5/16	3/4	1/4	2-1/2	SA-2SC	SA-2DC	SA-2FM
	3/8	3/4	1/4	2-1/2	SA-3SC	SA-3DC	SA-3FM
	3/8	3/4	1/4	6-3/4	SA-3L6SC	SA-3L6DC	SA-3L6FM
	7/16	1	1/4	2-3/4	SA-4SC	SA-4DC	-
	1/2	1	1/4	2-3/4	SA-5SC	SA-5DC	SA-5FM
	1/2	1	1/4	7	SA-5L6SC	SA-5L6DC	-
	5/8	1	1/4	2-3/4	-	SA-6DC	SA-6FM
	3/4	3/4	1/4	2-1/2	-	SA-16DC	-
	3/4	1	1/4	2-3/4	SA-7SC	SA-7DC	SA-7FM
	1	1	1/4	2-3/4	SA-9SC	SA-9DC	SA-9FM

SB BURS - CYLINDRICAL SHAPE

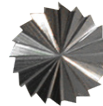
With End Cut



Standard, Singlecut, Series SB-SC



Standard, Doublecut, Series SB-DC



Standard, Alumacut, Series SB-FM



Long, Singlecut, Series SB-SC

Non-Ferrous **N** Alumacuts recommended for non-ferrous materials

Length Key (K)

Standard Long * Solid Carbide

Cermet
Cast Iron **K**
Titanium **S**
Stainless **M**
Steel **P**
Hardened **H**

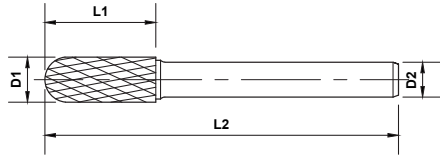
	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	1/16	1/4	1/8	1-1/2	SB-41SC	SB-41DC	-
*	3/32	7/16	1/8	1-1/2	SB-42SC	SB-42DC	-
*	1/8	9/16	1/8	1-1/2	SB-43SC	SB-43DC	-
*	1/4	3/16	1/8	2-15/16	SB-51SC	SB-51DC	-
*	1/8	5/8	1/4	2	SB-12SC	SB-12DC	-
*	3/16	5/8	1/4	2	SB-14SC	SB-14DC	-
*	1/4	5/8	1/4	2	SB-1SC	SB-1DC	SB-1FM
	1/4	5/8	1/4	6-3/4	-	SB-1L6DC	-
	5/16	3/4	1/4	2-1/2	SB-2SC	SB-2DC	-
	3/8	3/4	1/4	2-1/2	SB-3SC	SB-3DC	SB-3FM
	3/8	3/4	1/4	6-3/4	-	SB-3L6DC	-
	7/16	1	1/4	2-3/4	-	SB-4DC	-
	1/2	1	1/4	2-3/4	SB-5SC	SB-5DC	SB-5FM
	1/2	1	1/4	7	SB-5L6SC	SB-5L6DC	-
	5/8	1	1/4	2-3/4	-	SB-6DC	SB-6FM
	3/4	3/4	1/4	2-1/2	-	SB-16DC	-
	3/4	1	1/4	2-3/4	-	SB-7DC	-
	1	1	1/4	2-3/4	SB-9SC	SB-9DC	-

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SC BURS - RADIUS CYLINDRICAL SHAPE



Standard, Singlecut, Series SC-SC



Standard, Doublecut, Series SC-DC



Standard, Alumacut, Series SC-FM Series



Long, Series, Singlecut SC-SC

Non-Ferrous
N Alumacuts recommended for non-ferrous materials

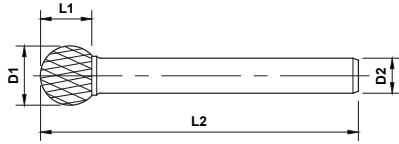
Length Key (K)

Standard Long * Solid Carbide



	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	3/32	7/16	1/8	1-1/2	SC-41SC	SC-41DC	-
*	1/8	9/16	1/8	1-1/2	SC-42SC	SC-42DC	SC-42FM
*	1/4	1/2	1/8	2	SC-51SC	SC-51DC	SC-51FM
*	1/8	5/8	1/4	2	SC-12SC	SC-12DC	-
*	3/16	5/8	1/4	2	SC-14SC	SC-14DC	-
*	1/4	5/8	1/4	2	SC-1SC	SC-1DC	SC-1FM
	1/4	5/8	1/4	6-3/4	SC-1L6SC	SC-1L6DC	-
	5/16	3/4	1/4	2-1/2	SC-2SC	SC-2DC	-
	3/8	3/4	1/4	2-1/2	SC-3SC	SC-3DC	SC-3FM
	3/8	3/4	1/4	6-3/4	-	SC-3L6DC	-
	7/16	1	1/4	2-3/4	SC-4SC	SC-4DC	SC-4FM
	1/2	1	1/4	2-3/4	SC-5SC	SC-5DC	SC-5FM
	1/2	1	1/4	7	SC-5L6SC	SC-5L6DC	SC-5L6FM
	5/8	1	1/4	2-3/4	SC-6SC	SC-6DC	-
	5/8	1	1/4	7	-	SC-6L6DC	-
	3/4	1	1/4	2-3/4	-	SC-7DC	SC-7FM

SD BURS - BALL SHAPE



Standard, Singlecut SD-SC Series



Standard, Doublecut SD-DC Series



Standard, Alumacut SD-FM Series



Long, Singlecut SD-SC Series

Length Key (K)

Standard Long * Solid Carbide

Non-Ferrous
N Alumacuts recommended for non-ferrous materials

Cermet
Cast Iron K
Titanium S
Stainless M
Steel P
Hardened H

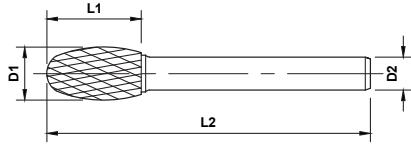
	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	3/32	3/32	1/8	1-1/2	SD-41SC	SD-41DC	-
*	1/8	1/8	1/8	1-1/2	SD-42SC	SD-42DC	SD-42FM
*	1/4	7/32	1/8	1-3/4	SD-51SC	SD-51DC	SD-51FM
*	1/8	3/32	1/4	2	SD-12SC	SD-12DC	-
	3/16	1/8	1/4	2	SD-14SC	SD-14DC	SD-14FM
*	1/4	7/32	1/4	2	SD-1SC	SD-1DC	SD-1FM
	1/4	7/32	1/4	6-3/4	SD-1L6SC	SD-1L6DC	-
	5/16	1/4	1/4	2-1/16	SD-2SC	SD-2DC	SD-2FM
	3/8	5/16	1/4	2-1/8	SD-3SC	SD-3DC	SD-3FM
	3/8	5/16	1/4	6-3/8	SD-3L6SC	SD-3L6DC	SD-3L6FM
	7/16	3/8	1/4	2-3/16	SD-4SC	SD-4DC	-
	1/2	7/16	1/4	2-1/4	SD-5SC	SD-5DC	SD-5FM
	1/2	7/16	1/4	6-1/2	SD-5L6SC	SD-5L6DC	SD-5L6FM
	5/8	9/16	1/4	2-3/8	SD-6SC	SD-6DC	SD-6FM
	3/4	11/16	1/4	2-1/2	SD-7SC	SD-7DC	SD-7FM
	1	15/16	1/4	2-3/4	SD-9SC	SD-9DC	-

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SE BURS - OVAL SHAPE



Length Key (K)

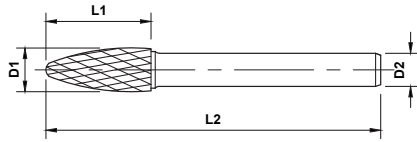
Standard
 Long
 Solid Carbide

Non-Ferrous
N Alumacuts recommended for non-ferrous materials



	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	1/8	7/32	1/8	1-1/2	SE-41SC	SE-41DC	-
	1/4	3/8	1/8	1-3/4	SE-51SC	SE-51DC	-
*	1/4	3/8	1/4	2	SE-1SC	SE-1DC	-
	1/4	3/8	1/4	7	-	SE-1L6DC	-
	3/8	5/8	1/4	2-3/8	SE-3SC	SE-3DC	SE-3FM
	3/8	5/8	1/4	6-5/8	-	SE-3L6DC	-
	1/2	7/8	1/4	2-5/8	SE-5SC	SE-5DC	SE-5FM
	1/2	7/8	1/4	6-7/8	SE-5L6SC	SE-5L6DC	-
	5/8	1	1/4	2-3/4	SE-6SC	SE-6DC	-
	3/4	1	1/4	2-3/4	-	SE-7DC	-

SF BURS - RADIUS TREE SHAPE



Standard, Singlecut, Series SF-SC



Standard, Doublecut, Series SF-DC



Standard, Alumacut, Series SF-FM



Long, Singlecut, Series SF-SC

Length Key (K)

Standard Long * Solid Carbide

Non-Ferrous **N** Alumacuts recommended for non-ferrous materials

Cermet	Cast Iron K	Titanium S	Stainless M	Steel P	Hardened H
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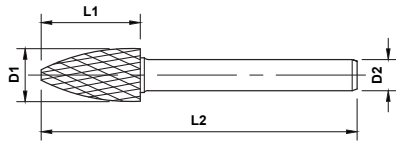
	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	1/8	1/4	1/8	1-1/2	SF-41SC	SF-41DC	-
*	1/8	1/2	1/8	1-1/2	SF-42SC	SF-42DC	-
	1/4	1/2	1/8	2	SF-51SC	SF-51DC	SF-51FM
*	1/4	5/8	1/4	2	SF-1SC	SF-1DC	SF-1FM
	1/4	5/8	1/4	6-3/4	-	SF-1L6DC	-
	3/8	3/4	1/4	2-1/2	SF-3SC	SF-3DC	SF-3FM
	3/8	3/4	1/4	6-3/4	-	SF-3L6DC	SF-3L6FM
	7/16	1	1/4	2-3/4	-	SF-4DC	-
	1/2	3/4	1/4	2-1/2	SF-13SC	SF-13DC	-
	1/2	1	1/4	2-3/4	SF-5SC	SF-5DC	SF-5FM
	1/2	1	1/4	7	SF-5L6SC	SF-5L6DC	SF-5L6FM
	5/8	1	1/4	2-3/4	-	SF-6DC	SF-6FM
	3/4	1	1/4	2-3/4	-	SF-7DC	-
	3/4	1-1/4	1/4	3	SF-14SC	SF-14DC	SF-14FM

Many Additional Sizes Available

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SG BURS - POINTED TREE SHAPE



Standard, Singlecut, Series SG-SC



Standard, Doublecut, Series SG-DC



Standard, Alumacut, Series SG-FM



Long, Singlecut, Series SG-SC

Length Key (K)

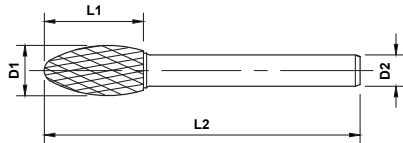
Standard Long * Solid Carbide

Non-Ferrous **N** Alumacuts recommended for non-ferrous materials

Cermet
Cast Iron **K**
Titanium **S**
Stainless **M**
Steel **P**
Hardened **H**

	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	1/8	1/4	1/8	1-1/2	SG-41SC	SG-41DC	-
*	1/8	3/8	1/8	1-1/2	SG-43SC	SG-43DC	-
*	1/8	1/2	1/8	1-1/2	SG-44SC	SG-44DC	-
	1/4	1/2	1/8	2	SG-51SC	SG-51DC	SG-51FM
*	1/4	5/8	1/4	2	SG-1SC	SG-1DC	SG-1FM
	1/4	5/8	1/4	6-3/4	SG-1L6SC	SG-1L6DC	-
	5/16	3/4	1/4	2-1/2	-	SG-2DC	SG-2FM
	3/8	3/4	1/4	2-1/2	SG-3SC	SG-3DC	SG-3FM
	3/8	3/4	1/4	6-3/4	SG-3L6SC	SG-3L6DC	-
	1/2	3/4	1/4	2-1/2	SG-13SC	SG-13DC	-
	1/2	1	1/4	2-3/4	SG-5SC	SG-5DC	SG-5FM
	1/2	1	1/4	7	SG-5L6SC	SG-5L6DC	-
	5/8	1	1/4	2-3/4	SG-6SC	SG-6DC	-
	3/4	1	1/4	2-3/4	-	SG-7DC	-

SH BURS - FLAME SHAPE



Standard, Singlecut, Series SH-SC



Standard, Doublecut, Series SH-DC



Standard, Alumacut, Series SH-FM



Long, Singlecut, Series SH-SC

Length Key (K)

Standard Long * Solid Carbide

Non-Ferrous
N Alumacuts recommended for non-ferrous materials

Cermet
Cast Iron K
Titanium S
Stainless M
Steel P
Hardened H

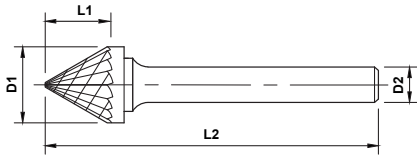
	OD	LOC	SHK	OAL	Cut Type		
K	D1	L1	D2	L2	Singlecut	Doublecut	Alumacut
*	1/8	1/4	1/8	1-1/2	SH-41SC	SH-41DC	SH-41FM
*	1/4	1/2	1/4	2	SH-1SC	SH-1DC	-
	5/16	3/4	1/4	2-1/2	SH-2SC	SH-2DC	-
	5/16	3/4	1/4	6-3/4	-	SH-2L6DC	-
	1/2	1-1/4	1/4	3	SH-5SC	SH-5DC	SH-5FM
	1/2	1-1/4	1/4	7-1/4	-	SH-5L6DC	-
	5/8	1-7/16	1/4	3-3/16	-	SH-6DC	-
	3/4	1-5/8	1/4	3-3/8	-	SH-7DC	-

Many Additional Sizes Available

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SJ BURS - 60° INCLUDED CONE SHAPE



Standard, Singlecut Series SJ-SC



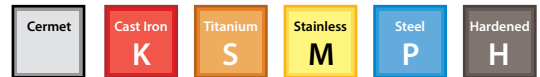
Standard, Doublecut Series SJ-DC



Standard, Alumacut Series SJ-FM

Length Key (K)

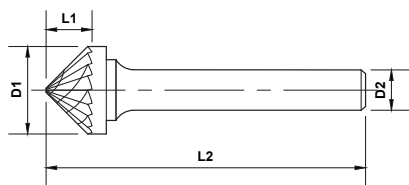
Standard Long * Solid Carbide



	OD	LOC	SHK	OAL	
K	D1	L1	D2	L2	Doublecut
*	1/8	3/32	1/8	1-1/2	SJ-42DC
*	1/8	3/32	1/8	1-1/2	SJ-42DEDC
*	3/16	3/16	3/16	2	SJ-81DC
*	1/4	3/16	1/4	2	SJ-1DC
*	1/4	3/16	1/4	2	SJ-1DEDC
	3/8	5/16	1/4	2-1/16	SJ-3DC
	1/2	7/16	1/4	2-3/16	SJ-5DC

^ Denotes Double End

SK BURS - 90° INCLUDED CONE SHAPE



Standard, Singlecut SK-SC Series



Standard, Doublecut SK-DC Series



Standard, Alumacut SK-FM Series

Length Key (K)

Standard Long * Solid Carbide



	OD	LOC	SHK	OAL	Cut Type	
K	D1	L1	D2	L2	Singlecut	Doublecut
*	1/8	1/16	1/8	1-1/2	SK-42SC	SK-42DC
*	1/8	1/16	1/8	1-1/2	SK-42DESC	SK-42DEDC
*	1/4	1/8	1/4	2	SK-1SC	SK-1DC
*	1/4	1/8	1/4	2	-	SK-1DEDC
	3/8	3/16	1/4	2-1/16	SK-3SC	SK-3DC
	7/16	1/4	1/4	2	SK-4SC	-
	1/2	1/4	1/4	2	SK-5SC	SK-5DC
	5/8	5/16	1/4	2-1/16	SK-6SC	SK-6DC
	3/4	3/8	1/4	2-1/8	SK-7SC	SK-7DC
	1	1/2	1/4	2-1/4	SK-9SC	SK-9DC

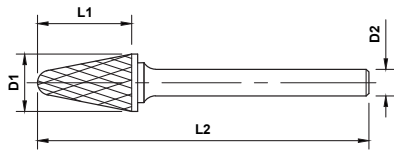
^ Denotes Double End

**Many Additional
Sizes Available**

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SL BURS - RADIUS CONE SHAPE



Standard, Singlecut, Series SL-SC



Standard, Doublecut, Series SL-DC



Standard, Alumacut SL-FM Series



Long, Singlecut, Series SL-SC

Length Key (K)

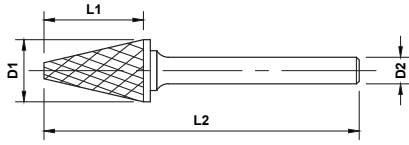
Standard Long * Solid Carbide

Non-Ferrous N Alumacuts recommended for non-ferrous materials

Cermet Cast Iron K Titanium S Stainless M Steel P Hardened H

	OD	LOC	SHK	OAL	Angle	Cut Type		
K	D1	L1	D2	L2	Inclusive	Singlecut	Doublecut	Alumacut
*	1/8	3/8	1/8	1-1/2	8°	SL-41SC	SL-41DC	-
*	1/8	1/2	1/8	1-1/2	8°	SL-42SC	SL-42DC	SL-42FM
*	1/4	5/8	1/4	2	14°	SL-1SC	SL-1DC	SL-1FM
	1/4	5/8	1/4	6-3/4	14°	-	SL-1L6DC	-
	5/16	7/8	1/4	2-5/8	14°	SL-2SC	SL-2DC	SL-2FM
	3/8	1-1/16	1/4	2-13/16	14°	SL-3SC	SL-3DC	SL-3FM
	3/8	1-1/16	1/4	7-1/16	14°	SL-3L6SC	SL-3L6DC	SL-3L6FM
	1/2	1-1/8	1/4	3-1/64	14°	SL-4SC	SL-4DC	SL-4FM
	1/2	1-1/8	1/4	7-1/8	14°	-	SL-4L6DC	SL-4L6FM
	5/8	1-3/16	1/4	2-15/16	14°	-	SL-5DC	SL-5FM
	5/8	1-5/16	1/4	3-1/16	14°	SL-6SC	SL-6DC	-
	3/4	1-1/2	1/4	3-1/4	14°	-	SL-7DC	SL-7FM

SM BURS - POINTED CONE SHAPE



Standard, Singlecut, Series SM-SC



Standard, Doublecut, Series SM-DC



Standard, Alumacut, Series SM-FM



Long, Singlecut, Series SM-SC

Length Key (K)

Standard Long * Solid Carbide



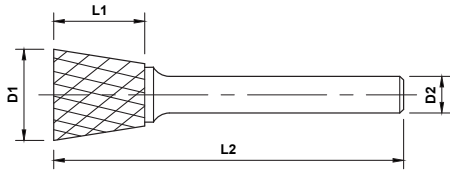
	OD	LOC	SHK	OAL	Angle	Cut Type	
K	D1	L1	D2	L2	Inclusive	Singlecut	Doublecut
*	1/8	11/32	1/8	1-1/2	12°	SM-41SC	SM-41DC
*	1/8	7/16	1/8	1-1/2	14°	SM-42SC	SM-42DC
*	1/8	5/8	1/8	1-1/2	7°	SM-43SC	SM-43DC
	1/4	1/2	1/8	2-1/8	22°	SM-51SC	SM-51DC
*	1/4	1/2	1/4	2	22°	SM-1SC	SM-1DC
	1/4	1/2	1/4	6-3/4	14°	-	SM-1L6DC
*	1/4	3/4	1/4	2	14°	SM-2SC	SM-2DC
	1/4	3/4	1/4	6-3/4	14°	-	SM-2L6DC
*	1/4	1	1/4	2	12°	SM-3SC	SM-3DC
	3/8	5/8	1/4	2-1/2	28°	SM-4SC	SM-4DC
	1/2	7/8	1/4	2-3/4	28°	SM-5SC	SM-5DC
	5/8	1	1/4	2-3/4	31°	-	SM-6DC

Many Additional Sizes Available

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SN BURS - INVERTED CONE SHAPE



Standard, Singlecut, Series SN-SC



Standard, Doublecut, Series SN-DC



Standard, Alumacut, Series SN-FM



Long, Singlecut, Series SN-SC

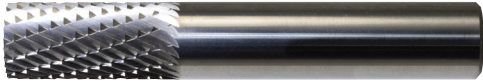
Length Key (K)

Standard Long * Solid Carbide



	OD	LOC	SHK	OAL	Angle	Cut Type	
K	D1	L1	D2	L2	Inclusive	Singlecut	Doublecut
*	3/32	1/8	1/8	1-1/2	10°	SN-41SC	SN-41DC
*	1/8	3/16	1/8	1-1/2	10°	SN-42SC	SN-42DC
	1/4	1/4	1/8	1-3/4	10°	SN-51SC	SN-51DC
*	1/4	5/16	1/4	2	10°	-	SN-1DC
	3/8	3/8	1/4	2-1/8	15°	-	SN-2DC
	1/2	1/2	1/4	2-1/4	12°	SN-3SC	-
	1/2	1/2	1/4	2-1/4	28°	SN-4SC	SN-4DC
	1/2	1/2	1/4	6-1/2	28°	SN-4L6SC	-
	5/8	3/4	1/4	2-1/2	18°	-	SN-6DC

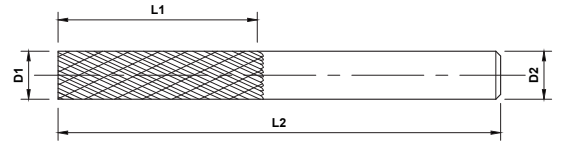
DIE MILLS



Doublecut, Series 28000's



Coarse Doublecut, Series 28000's



Length Key (K)

Standard Long * Solid Carbide

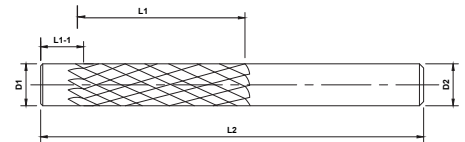


	OD	LOC	SHK	OAL	Cut Type
K	D1	L1	D2	L2	Doublecut
	1/8	1/2	1/8	1-1/2	28000
	3/16	5/8	3/16	2	28200
	1/4	3/4	1/4	2	28300
	3/8	1	3/8	2-1/2	28500

PILOTED DIE MILLS



Doublecut, Series 22000's



Length Key (K)

Standard Long * Solid Carbide



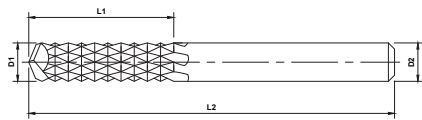
	OD	LOC	Pilot	SHK	OAL	Cut Type
K	D1	L1	L1-1	D2	L2	Doublecut
	1/8	1	1/8	1/8	3	22000
	3/16	2	3/16	3/16	3	22100
	1/4	1-1/4	1/4	1/4	3	22200
	3/8	2	3/8	3/8	4	22300

Many Additional
Sizes Available

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FIBERGLASS ROUTERS



- Diamond cut flute pattern
- Effective on laminate and fiberglass materials



Plainend, Series FGR-A



Millend, Series FGR-C



Burend, Series FGR-B



Drillend, Series FGR-D

Length Key (K)

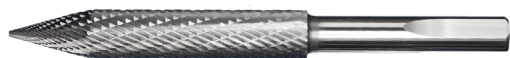
Standard Long * Solid Carbide



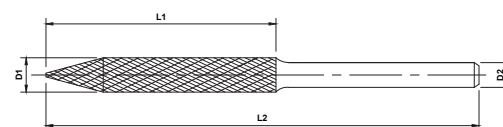
K	OD	LOC	SHK	OAL	End Cut Type			
	D1	L1	D2	L2	Plain (A)	Burend (B)	Millend (C)	Drillend (D)
*	1/16	3/16	1/8	1-1/2	-	FGR1B	FGR1C	-
*	3/32	3/8	1/8	1-1/2	FGR1-1A	FGR1-1B	FGR1-1C	-
*	1/8	1/2	1/8	1-1/2	-	FGR2B	FGR2C	FGR2D
*	3/16	5/8	3/16	2	-	FGR3B	FGR3C	-
*	3/16	5/8	1/4	2	FGR4A	FGR4B	FGR4C	-
*	1/4	3/4	1/4	2	FGR5A	FGR5B	FGR5C	FGR5D
*	1/4	3/4	1/4	2-1/2	FGR6A	FGR6B	-	FGR6D
*	1/4	1	1/4	2-1/2	FGR6-0A	FGR6-0B	FGR6-0C	FGR6-0D
*	1/4	3/4	1/4	3	-	FGR6-1B	-	FGR6-1D
*	1/4	1	1/4	3	FGR6-2A	FGR6-2B	FGR6-2C	FGR6-2D
*	5/16	1	5/16	2-1/2	FGR7A	FGR7B	-	-
*	3/8	1	3/8	2-1/2	FGR8A	FGR8B	-	FGR8D
*	1/2	1	1/2	3	FGR9A	FGR9B	FGR9C	FGR9D

TIRE BURS

- Superb for trimming and repairing steel belted tire



Tri-Shank, Series STB-T



Length Key (K)

Standard * Solid Carbide

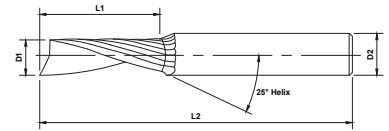
K	OD	LOC	SHK	OAL	Tri-Shank
	D1	L1	D2	L2	
*	3/16	2	3/16	3	STB-012T
*	7/32	2	1/4	3	STB-013T
*	1/4	2	1/4	3	STB-014T
*	5/16	1-1/2	5/16	3	STB-015T
*	5/16	2	5/16	4	STB-016T
*	3/8	3	3/8	4-1/2	STB-017T
*	1/2	3	3/8	5	STB-018T

Single Upcut Flute 'O' Flute Xtreme

Crescent End



Finish-Top: Inferior
 Finish-Bottom: Excellent
 End Point Type: Crescent
 Helix Angle: 25°



823-0 Fractional Upcut



OD	LOC	SHK	OAL	Soft Plastic, General Wood	Hard Plastic, Aluminum
D1	L1	D2	L2	Part ID	Part ID
1/16	1/4	1/8	2	823-002	823-502
1/8	1/4	1/4	2	823-006	823-506
1/8	1/2	1/8	2	823-008	823-508
1/8	1/2	1/4	2	823-010	823-510
1/8	3/4	1/4	2-1/2	823-046	823-546
3/16	3/8	1/4	2	823-018	823-518
3/16	5/8	3/16	2	823-016	823-516
3/16	5/8	1/4	2	823-022	823-522
3/16	7/8	1/4	2-1/2	823-042	823-542
1/4	5/8	1/4	2	823-026	823-526
1/4	3/4	1/4	2-1/2	823-028	823-528
1/4	1	1/4	2-1/2	823-048	823-548
1/4	1-1/4	1/4	3	823-030	823-530
1/4	1-1/2	1/4	3	823-044	823-544
3/8	1-1/8	3/8	3	823-032	823-532
1/2	1	1/2	3	823-034	823-534
1/2	2	1/2	4	823-036	823-536



For even greater performance, specify PowerN coating

- High nano-hardness increases hardness 2-1/2 times
- An outstanding heat and oxidation barrier
- Ultra thin coating helps retain a super sharp edge

Append "-5" to the part number for PowerN

OFX

Our OFX line stands for 'O' Flute Xtreme and it's a tool option that you should seriously consider.

OFX routers combine premium submicron carbide, a quicker helix, and a highly polished flute that guarantees you a sharper cutting edge, and enhanced flute lubricity for both superior chip evacuation and resistance to 'Built Up Edge' in a broad range of applications.

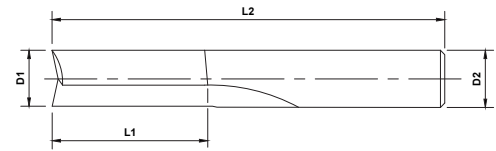
The OFX series is available in a variety of coatings: PowerA, PowerDLC, PowerT, PowerZ, and now PowerN (See Page 63 for details)

Two Flute Straight Cut

Plunge Fishtail End



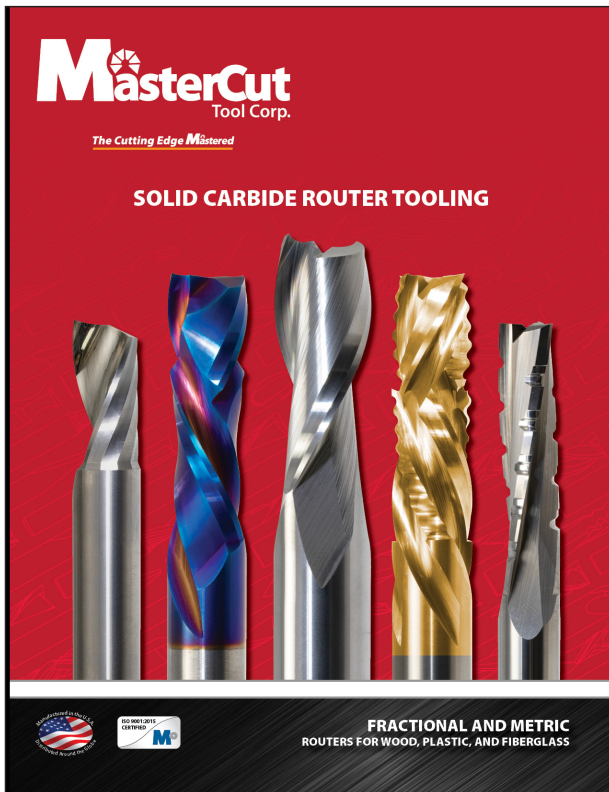
Finish-Top: Excellent
 Finish-Bottom: Excellent
 End Point Type: Plunge (Fishtail)



803-1 Fractional



OD	LOC	SHK	OAL	Soft Wood and Hard Plastic
D1	L1	D2	L2	Part ID
1/8	1/2	1/4	2	803-102
3/16	3/4	1/4	2	803-106
7/32	3/4	1/4	2-1/2	803-108
1/4	7/8	1/4	2-1/2	803-110
1/4	1	1/4	2-1/2	803-114
1/4	1-1/8	1/4	3	803-116
3/8	1-1/8	3/8	3	803-124



Request our Solid Carbide Router Tooling catalog for a complete line of carbide routing bits designed for general wood, hardwood, fiberglass, soft and hard plastics.

The routers are available in 1, 2, 3 and 4 flute styles, with many options like the 4 flute combination spiral below:



4 Flute Combination Spiral

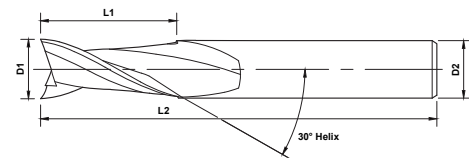
Two Flute Upcut Spiral

Plunge/Fishtail End

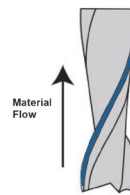
804-0 Fractional



OD	LOC	SHK	OAL	General Wood
D1	L1	D2	L2	Part ID
1/8	1/2	1/4	2	804-006
5/32	5/8	1/4	2	804-010
3/16	3/4	1/4	2	804-016
3/16	3/4	1/4	2-1/2	804-020
7/32	1	1/4	2-1/2	804-024
1/4	7/8	1/4	2-1/2	804-026
1/4	1	1/4	2-1/2	804-028
1/4	1-1/8	1/4	3	804-032
5/16	1-1/8	1/2	3	804-042
3/8	1-1/8	3/8	3	804-052
3/8	1-1/4	1/2	3	804-058
1/2	1-1/4	1/2	3-1/2	804-064
1/2	1-5/8	1/2	3-1/2	804-066
1/2	2-1/8	1/2	4	804-070



Finish-Top: Inferior
 Finish-Bottom: Excellent
 End Point Type: Plunge (Fishtail)
 Helix Angle: 30°



Upcut

Good Bottom Finish

Right hand spiral. Right hand cut.
 Pulls material toward spindle.

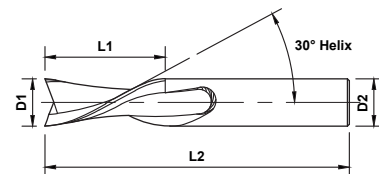
Two Flute Downcut Spiral

Plunge/Fishtail End

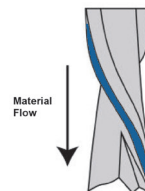
804-2 Fractional



OD	LOC	SHK	OAL	General Wood
D1	L1	D2	L2	Part ID
1/8	1/2	1/8	2	804-204
1/8	1/2	1/4	2	804-206
5/32	5/8	1/4	2	804-210
3/16	3/4	1/4	2	804-216
3/16	3/4	1/4	2-1/2	804-220
1/4	7/8	1/4	2-1/2	804-226
1/4	1	1/4	2-1/2	804-228
1/4	1-1/8	1/4	3	804-232
9/32	1	5/16	2-1/2	804-234
5/16	1-1/8	5/16	3	804-238
5/16	1-1/8	1/2	3	804-242
3/8	1	3/8	2-1/2	804-248
3/8	1-1/8	3/8	3	804-252
3/8	1-1/4	3/8	3	804-254
3/8	1-1/4	1/2	3	804-258
1/2	1-1/8	1/2	3	804-262
1/2	1-1/4	1/2	3-1/2	804-264
1/2	1-5/8	1/2	3-1/2	804-266
1/2	1-5/8	1/2	3-1/2	804-268 (Left Hand)
1/2	2-1/8	1/2	4	804-270
5/8	1-5/8	5/8	3-1/2	804-274
5/8	2-1/8	5/8	4	804-276
3/4	1-5/8	3/4	4	804-280



Finish-Top: Excellent
 Finish-Bottom: Inferior
 End Point Type: Fishtail
 Helix Angle: 30°



Downcut

Good Top Finish

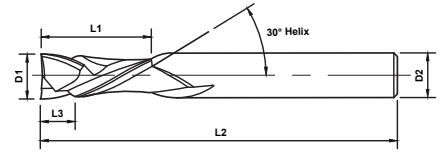
Left hand spiral. Right hand cut.
 Pushes material away from spindle.

Two Flute Compression

Endmill End



Finish-Top: Excellent
 Finish-Bottom: Excellent
 End Point: Endmill
 Helix Angle: 30°



810-0 Fractional



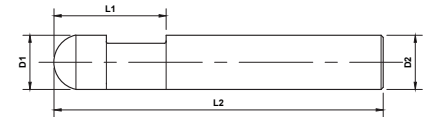
OD	LOC	UPCUT	SHK	OAL	General Wood
D1	L1	L3	D2	L2	Part ID
1/4	7/8	.385	1/4	2-1/2	810-020
3/8	1-1/8	.495	3/8	3	810-002
1/2	1	.44	1/2	3	810-004
1/2	1-1/8	.495	1/2	3	810-006
1/2	1-3/8	.605	1/2	3-1/2	810-008
1/2	1-5/8	.715	1/2	4	810-010
3/4	2-1/2	1.1	3/4	5	810-018

Laminate Trimmers

Bevel Flush - Round End



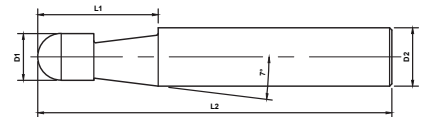
Finish-Top: Good
 Finish-Bottom: Good
 End Point: Round
 Bevel Flush & 7°



7° Bevel - Round End



Finish-Top: Good
 Finish-Bottom: Good
 End Point: Round
 Bevel Flush & 7°



822-0 Fractional



OD	LOC	SHK	OAL	Composites and Laminates
D1	L1	D2	L2	Bevel
Part ID				
1/4	3/8	1/4	1-1/2	Flush
1/4	1/4	1/4	1-1/2	Flush
.200	1/4	1/4	1-1/2	7°

MASTERCUT TOOL COATING OPTIONS



PowerT (Titanium Nitride, TiN) (append -2)*

Color: Gold
Vickers Hardness: approximately 2,300 Vickers
General purpose, entry level over uncoated carbide



PowerC (Titanium Carbon Nitride, TiCN) (append -3)*

Color: ranges from slight violet to brown-gray
Vickers Hardness: approximately 3,000 Vickers
Used on ferrous, non-ferrous and non-magnetic stainless steel
Good abrasion resistance, low heat resistance, for applications requiring low RPMs and high thrust



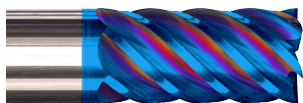
PowerA (Aluminum Titanium Nitride, AlTiN) (append -1)*

Color: Dark Gray
Vickers Hardness: approximately 3,600 Vickers
Nickel Alloys, Stainless Steel, Hardened Steels, Tool Steels, Cast Iron
An excellent broad spectrum grade. May be run in dry or minimum quantity lubrication applications, where heat can be a problem. Also handles light chip loads very well



PowerZ (Zirconium Nitride, ZrN) (append -4)*

Color: Dull Gold
Vickers Hardness: approximately 2,800 Vickers
Outstanding on aluminum, including high silica aluminum. Can also be used on cast iron, stainless steels, titanium



PowerN (nACo) nano-composite (nc-AlTiN)/(a-Si³N⁴) (append -5)*

Color: Varying hues of blue and red
Vickers Hardness: approximately 4,500 Vickers
Outstanding performance in superalloys, hard material machining, and high heat applications.



PowerNR (nACRo) nano-composite (nc-AlCrN/a-Si³N⁴)(append -8)*

Color: gray
Vickers Hardness: approximately 4,000 Vickers
Outstanding in high heat applications, better resistance to shock and chipping than nACo, for tough, aggressive cutting applications.



PowerDLC (Diamond Like Carbon)(append -6)*

Color: variable gray to black
Vickers Hardness: approximately 4,000 Vickers
Non-ferrous metals, high silicone aluminum, copper, plastic, graphite, fiberglass or reinforced plastics
Can be applied to any carbide substrate



PowerRD (Real Diamond)(append -7)*

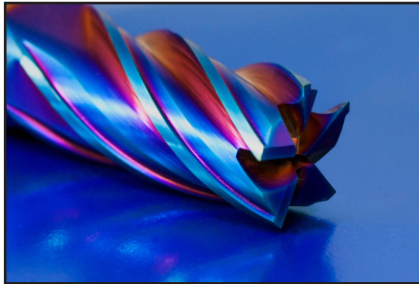
Color: variable gray to black
Vickers Hardness: approximately 8,000 Vickers
Non-ferrous, metals, aluminum, graphite, green ceramics, and composites
Requires 6% cobalt carbide for application

* *append -#* indicates that this coating is applied to uncoated tool part number

Devotion to Innovation

Since 1985, Mastercut Tool Corp. has created and manufactured defect free, quality cutting tools for our customers and their subsidiaries. This record of innovation, perfect quality, and near perfect on-time delivery continues to this day.

At Mastercut, we pride ourselves with a focus on manufacturing innovative products with recent developments that include Nano Coated Pro+ Performance Endmills, NX Burs for Stainless Steel, and High Performance Coolant Through Hurricane Drills. Mastercut Tool Corp. remains devoted to innovation and success for our customers.



Nano Coated Pro+ Endmills



NX Burs for Stainless Steel

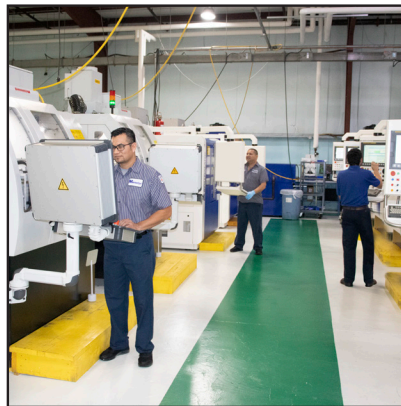


Coolant Through Hurricane Drills

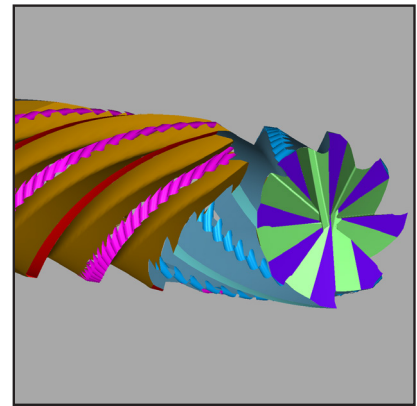
The Mastercut Advantage



Computer generated production schedules



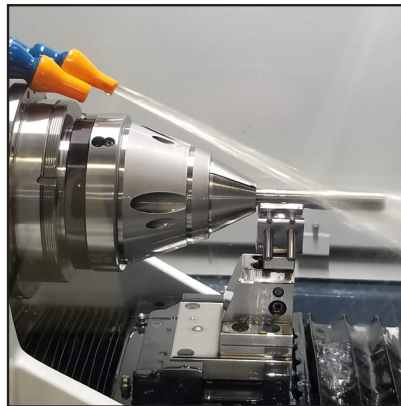
Individual production cells classified by tool type



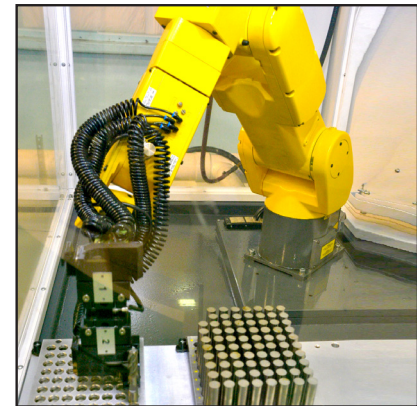
Custom/Special Tool Design



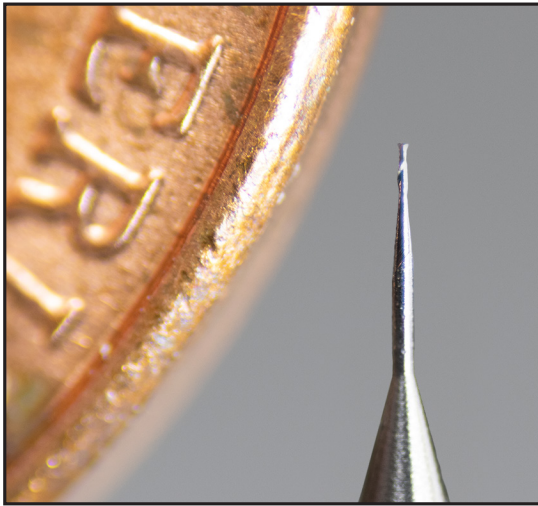
Automated Bur Brazing



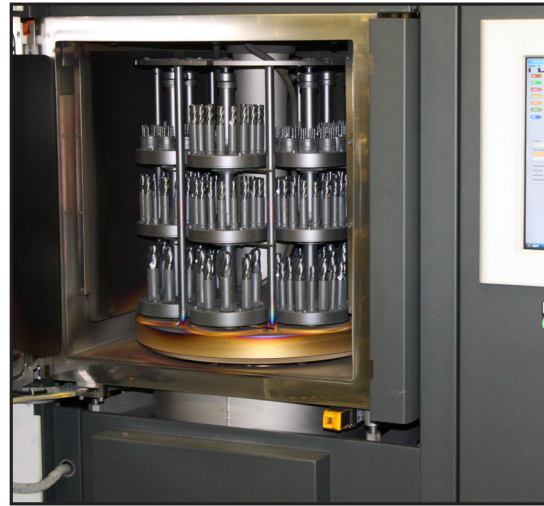
Top of the line CNC machines and equipment



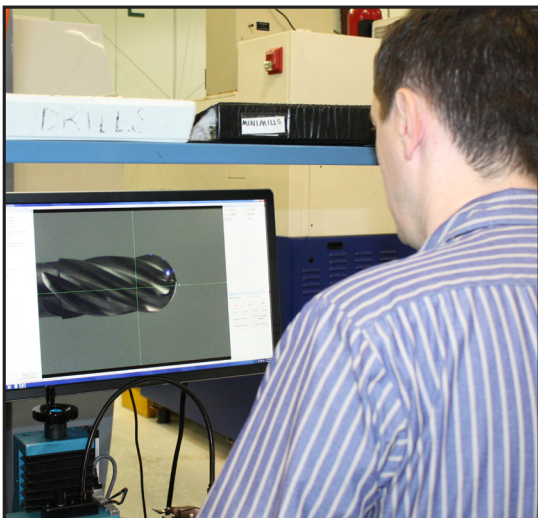
Robotic load and unload of raw materials and finished tools



Micro Precision Manufacturing
.005" 2 Flute Square Endmill



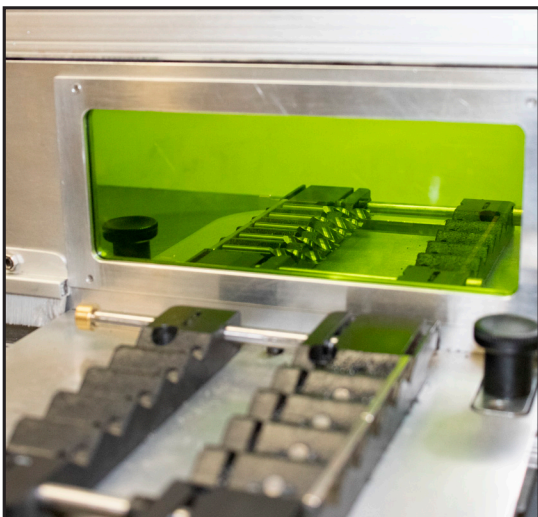
In house coating room



Camera and laser measuring
and quality control equipment



Vertical, barcode controlled
inventory storage



Custom Laser Etching



Custom UV Printing
package labels

Main Product Catalogs



FRACTIONAL CATALOG



METRIC CATALOG

Fractional and Metric catalogs are available featuring Standard Performance Endmills, High Performance Endmills, Pro+ Performance Endmills, a section of Routers for Wood and Plastic, Standard Drills, High Performance Drills, Reamers, and our complete line of Carbide Burs.

Our Metric Catalog is available in the following languages:

- Chinese • English • French
- German • Italian • Japanese
- Korean • Portuguese • Russian
- Spanish



ROUTER CATALOG

Our Solid Carbide Router Tooling catalog showcases a complete line of routers designed for all types of wood, plastic, and aluminum.

The catalog features straight flute bits, as well as upcut, downcut and compression spiral routing bits in one, two, three, and four flutes.



DENTAL CATALOG

Our dental lab catalog includes CAD CAM Burs for the lab industry's most popular milling machines, and our ISO, hand piece and bench lathe burs.

Our Mastercut Dental Tools catalog is available in English, French, German and Spanish.

Flyers and Custom Marketing Materials

We are able to customize over 20 different flyers and product listing sheets with your logo and contact information. Mastercut is dedicated to providing materials that will help your customers.



OVERVIEW FLYER



PRO+ PERFORMANCE



V4



AXMILL



NX BURS



BUR SHAPES POSTER



HURRICANE DRILLS



TRIFOLD BUR FLYER

Email our Marketing Team for catalogs or flyers:
marketing@mastercuttool.com

Quick Ship TERMS AND CONDITIONS

To Order

Faxed or e-mailed orders are required. Please specify quantity and EDP/Part numbers.

Minimum Orders

\$50 for standard items, \$200 for special orders. Orders below \$50 are subject to a \$7.50 handling fee.

Standard Payment Terms

Overseas customers: Prepaid.

US customers: Net 30 Days, pending credit approval, past due after 30 days from billing date.

Freight

Freight is F.O.B. Origin. Mastercut Tool Corp. offers daily service with FedEx and UPS. Shipments made Pre-Pay & Add on Mastercut's FedEx or UPS accounts are subject to a \$2.50 handling fee for domestic shipments and a \$25.00 handling fee for international shipments. We are also happy to utilize any freight carrier when shipping on a collect or third-party account with no additional handling fee.

Return Policy

Standard items that Mastercut maintains in stock may be returned with a 25% restocking fee. All returns must be received within 2 months of original ship date. We are unable to accept returns on non-stock items or specials.

ADDITIONAL OFFERINGS

Special Tooling for your Requirements

When you need a non-standard tool for a specific job, give us a call. Requirements for special tooling or modifications of existing standard items will be given prompt, expert attention.

Resharpening

Mastercut Tool Corp. employs skilled craftspersons and advanced equipment to provide excellent resharpening services. We can sharpen dull cutters, regardless of the manufacturer. This is an excellent and efficient way to get new tool performance at a fraction of the cost.

Email our Quotes department for Special Tooling :

quotes@mastercuttool.com



SOLID CARBIDE ENDMILLS



HIGH PERFORMANCE ENDMILLS

PRO+ PERFORMANCE



ROUTERS FOR WOOD, PLASTIC, AND FIBERGLASS

DRILLS, COUNTERSINKS

REAMERS



CARBIDE BURS - SOLID AND BRAZED SHANK



Mastercut Tool Corp. - Corporate Headquarters
 965 Harbor Lake Dr.
 Safety Harbor, Florida 34695 USA
 Tel: (727) 726-5336
 Fax: (727) 725-2532

Mastercut Tool Corp. - European Warehouse
 Heliumstraat 8
 7463PL Rijssen
 Netherlands
 Tel: +31 404 002839

Email: sales@mastercuttool.com
 Web: www.mastercuttool.com



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