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CAD CAM
MILLING

HAND
PIECE &
LATHE

ISO
BURS

Buy Direct from the Manufacturer



PRECISION



RELIABILITY



TRUST

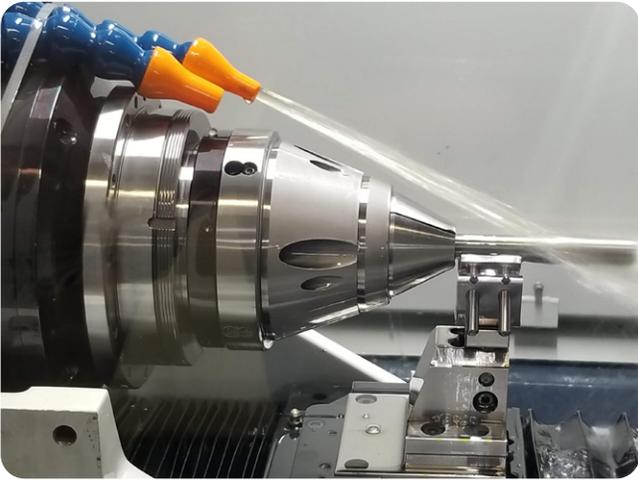


BEST VALUE

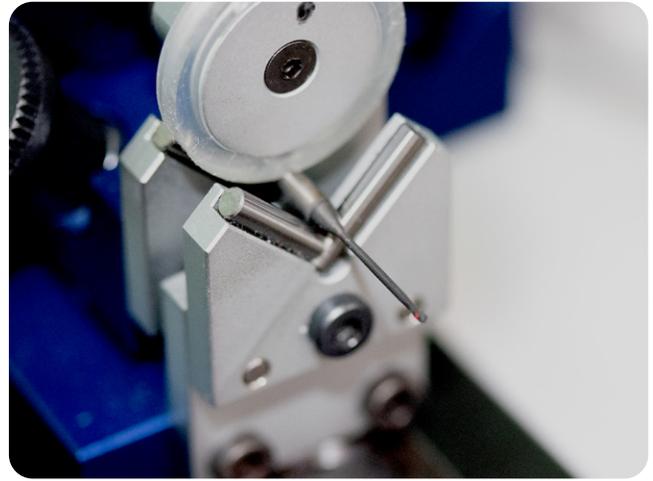
FEBRUARY 2024



Highest Quality Manufacturing -- Highest Quality Laboratory Burs



Precision Grinding



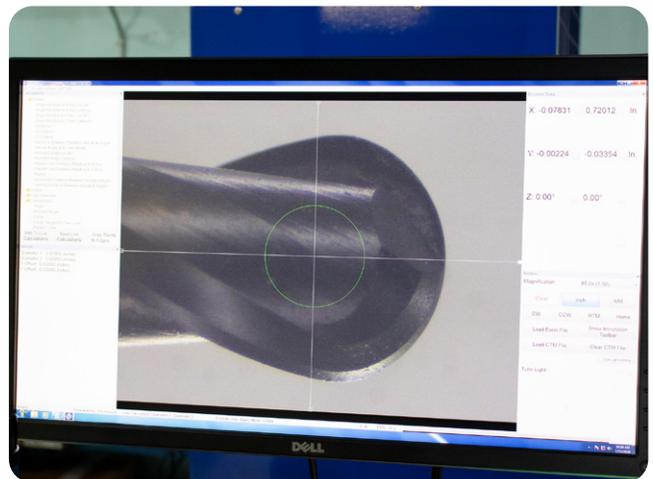
Laser Micrometer Measurement Systems



Innovative Production Cell



Advanced In-House Coating Systems



Tool Inspection at 100x Magnification

A Leader in Innovation

From meeting existing market needs to implementing advanced solutions, Mastercut Dental Tools is recognized as a leader in innovation.

Utilizing various quality processes, we lead with creative solutions, positioning us on the forefront of the dental laboratory industry evolution.

Custom Tooling

If you need a non-standard tool for a specific application, or our catalog offering does not feature your desired tool, please call and our team will offer the best solution.



Quality Processes

ISO 9001:2015 certified- since 2003 we have maintained our quality systems to these strict international standards.



MAP- Mastercut Automated Production- providing you unmatched, consistent quality with a full line of CAD CAM burs, as well as standard HP, lathe and ISO burs.



A-Gr-SiV Carbide, the highest quality raw materials available, resulting in superior hardness and toughness in all laboratory applications.

STORY OF MASTERCUT TOOL CORP.

In 1982, Mastercut Tool Corp. began in a small garage in Safety Harbor Florida, with one man and one hand grinding machine. Today we operate in over 70,000 square feet of manufacturing space.

For over 35 years, Mastercut Tool Corp. has successfully served various markets at home and abroad. All products are still manufactured in Florida, using the most advanced equipment, skilled craftspeople, and the exclusive Mastercut Automated Production technology.

STORY OF MASTERCUT DENTAL TOOLS

Over a decade ago, we identified the dental lab industry as a market demanding premium precision burs to achieve the highest quality dental restorations. Mastercut Dental Tools was born to address that need for precision and quality.

In 2017, we formalized our vision and launched Mastercut Dental Tools meeting the needs of the dental lab industry, while offering convenient online buying direct from the manufacturer.

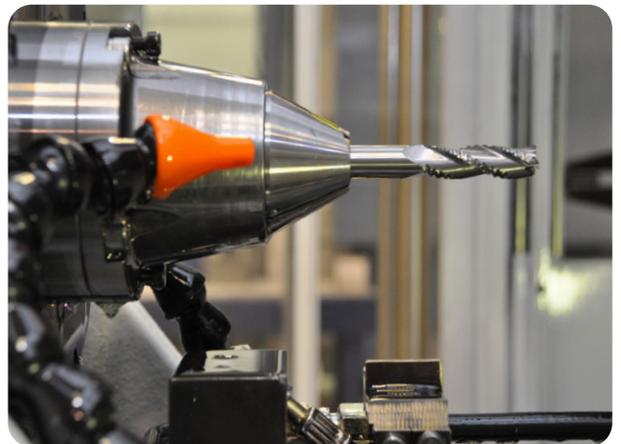
Whether it's a bur for an Amann Girrbach Ceramill or a bur for a ZirkonZahn, we've got what you need from A to Z.

OUR TIMELINE

- 1985** > Mastercut Tool is incorporated in Safety Harbor, Florida with one man and one grinding machine.
- 1989** > Company builds its first bur manufacturing machine
- 1993** > Company abandons machine building to focus exclusively on tool manufacturing
- 1995** > Laser inspection systems implemented
- 2003** > ISO 9001:2000 certification achieved; first coating machine implemented
- 2004** > The MAP (Mastercut Automated Production) process is implemented
- 2005** > CNC 1st team (Customers' Needs Come 1st) implemented
- 2009** > ISO 9001:2008 certification achieved
- 2015** > 30th anniversary brings Florida facility expansion, European warehouse opens
- 2017** > Mastercut Dental Tools is created to meet demands for precision dental laboratory tools.
- 2018** > ISO 9001:2015 certification achieved
- 2020** > Mastercut Tool celebrates 35 years of quality and innovation.



Original Hand Grinder (1985)



Automated CNC Grinding (2024)

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Our CAD CAM offering includes burs compatible with the industry's most popular milling machines.

CAD CAM MILLING



3M™ Lava™
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Aidite
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Amann Girrbach
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ARUM - Axsys
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DATRON
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Dentsply Sirona
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imes-icore
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Roland
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vhf
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Wieland
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Yenadent
pages 40-41



Zirkonzahn
pages 42-43

Mastercut Dental CAD CAM Bur Coatings

Best Suited for:



Uncoated

Uncoated Milling Burs

Reliable performance in an array of materials including wax, PMMA and PEEK.

In CAD CAM milling, our uncoated burs with highly polished flutes provide an ideal option for the milling of wax, PMMA and PEEK. While uncoated burs are commonly used for milling zirconia, our CVD Real Diamond coated tools offer enhanced tool life with these more abrasive materials.



PowerRD (Real Diamond CVD)



Best Suited for:



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.

PowerRD (Chemical Vapor Deposition Diamond) (append-7)

Vickers Hardness: approximately 8,000 Vickers
Our CVD Real Diamond Coating has all the extreme chemical and physical properties of natural diamond. Essentially pure diamond formed as interconnected diamond micro-crystallites, it is grown directly on the tool substrate using Chemical Vapor Deposition.

Our PowerRD is not to be mistaken for competitive DLC (Diamond Like Carbon) coated milling burs. Diamond-like carbon coating is a PVD nanocomposite and although it shares some properties of natural diamond it has a dramatically inferior performance.

For the highest yield in Zirconia milling, always choose a MasterCut CVD Real Diamond coated tool. The difference is REAL.



PowerN (nACo)



Best Suited for:



PowerN Coating ideal for machining Titanium and Cobalt Chrome.

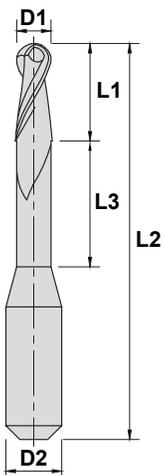
PowerN (nACo) nano-composite (nc-AlTiN)/(α -Si³N⁴) (append-5)

Vickers Hardness: approximately 4,500 Vickers
PowerN coated milling burs are extremely wear-resistant, permitting the high machining speeds encountered in dental CAD CAM milling. PowerN coating offers outstanding performance in superalloys, hard material machining and high heat applications. Tough materials such as Titanium and CoCr are optimally machined using our PowerN coated tools.



Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM308-002		0.6	1.8	3	39	8.2	2	Ball	-	28.92
DM308-004		1	3	3	39	13	2	Ball	-	28.92
DM308-006		1	3	3	50	22	2	Ball	-	28.92
DM308-008		2	6	3	39	10	2	Ball	-	28.92
DM308-010		2	6	3	50	19	2	Ball	-	28.92
DM308-002-7		0.6	1.8	3	39	8.2	2	Ball		86.20
DM308-004-7		1	3	3	39	13	2	Ball		86.20
DM308-006-7		1	3	3	50	22	2	Ball		86.20
DM308-008-7		2	6	3	39	10	2	Ball		86.20
DM308-010-7		2	6	3	50	19	2	Ball		86.20
DM308-004-5		1	3	3	39	13	2	Ball		31.88
DM308-008-5		2	6	3	39	10	2	Ball		31.88

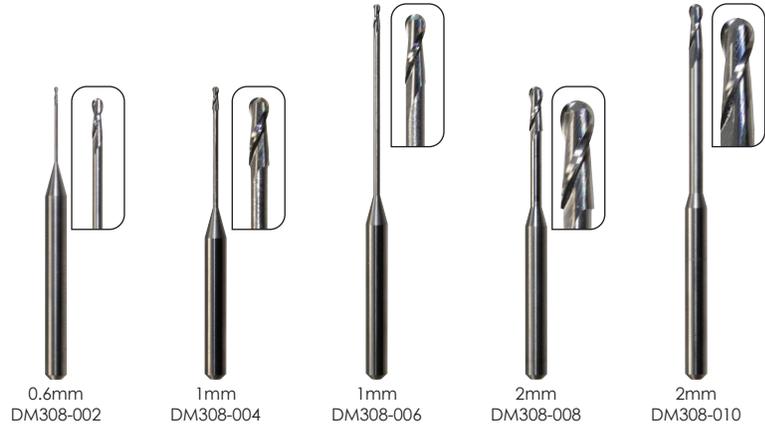
CUTTING EDGE TOLERANCE +0.000/-0.051mm
3mm SHANK TOLERANCE (h6) +0.000/-0.006mm



Machine Models
Lava™: CNC 240,
CAM 4-K4, CNC 500

Uncoated

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$

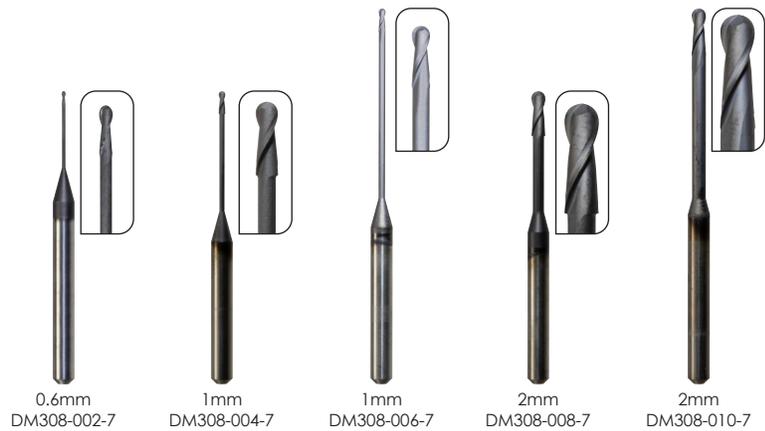


CVD Real Diamond Coating - PowerRD

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.

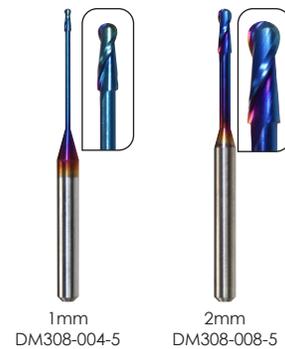


nACo Coating - PowerN

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



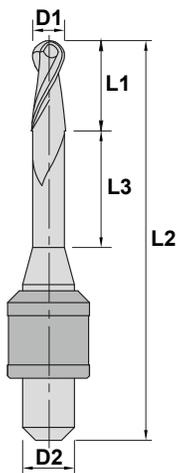
PowerN Coating ideal for machining Titanium and CoCr.





Part No.	Materials	Cut Diameter		Length of Cut		Shank Diameter		Overall Length		No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3							
DM317-002		0.6	1	4	50	5.3	2	Ball	-	32.46			
DM317-004		1	2.5	4	50	13.5	2	Ball	-	32.46			
DM317-008		1.5	4	4	50	16	4	Square	-	32.46			
DM317-006		2	5.75	4	50	10.5	2	Ball	-	32.46			
DM317-002-7		0.6	1	4	50	5.3	2	Ball		86.20			
DM317-004-7		1	2.5	4	50	13.5	2	Ball		86.20			
DM317-008-7		1.5	4	4	50	16	4	Square		86.20			
DM317-006-7		2	5.75	4	50	10.5	2	Ball		86.20			

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$

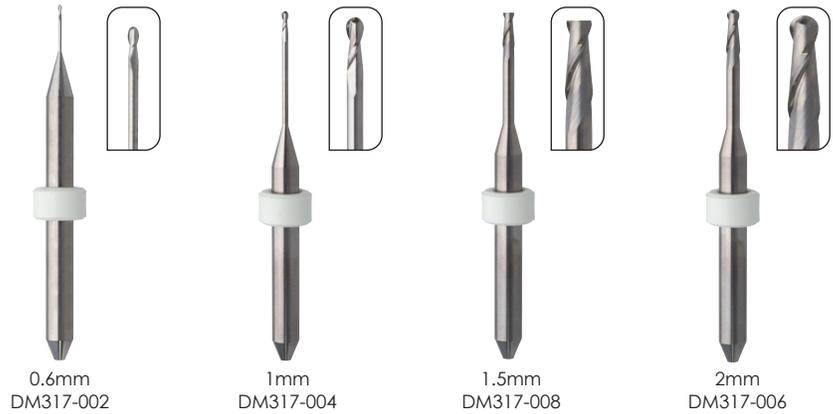


Machine Models
AMW-520, AMD-500, AMD-500DC

Uncoated



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



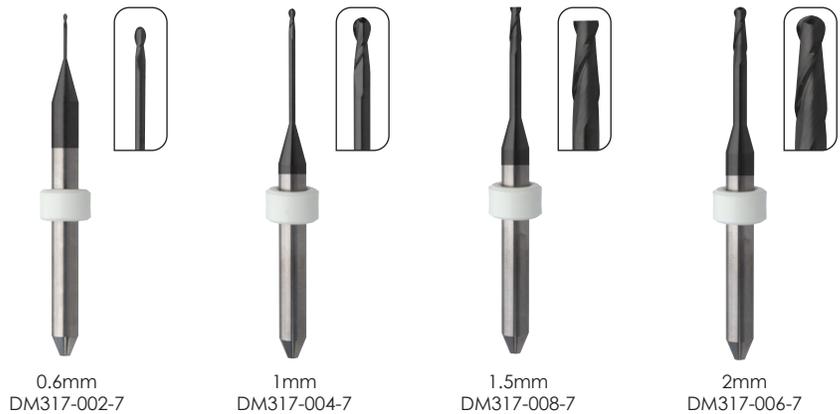
CVD Real Diamond Coating - PowerRD



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



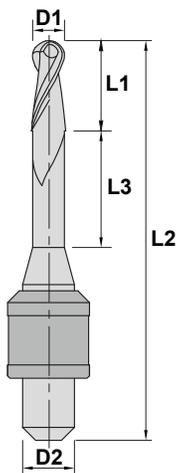
Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.





Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM309-002		0.3	0.6	3	47	9.4	2	Ball	-	32.46
DM309-004		0.6	1	3	47	9	2	Ball	-	32.46
DM309-006		1	2	3	47	14	2	Ball	-	32.46
DM309-008		2.5	4	3	47	13	2	Ball	-	32.46
DM309-004-7		0.6	1	3	47	9	2	Ball		86.20
DM309-006-7		1	2	3	47	14	2	Ball		86.20
DM309-008-7		2.5	4	3	47	13	2	Ball		86.20
DM309-006-5		1	2	3	47	14	2	Ball		35.41
DM309-008-5		2.5	4	3	47	13	2	Ball		35.41

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$

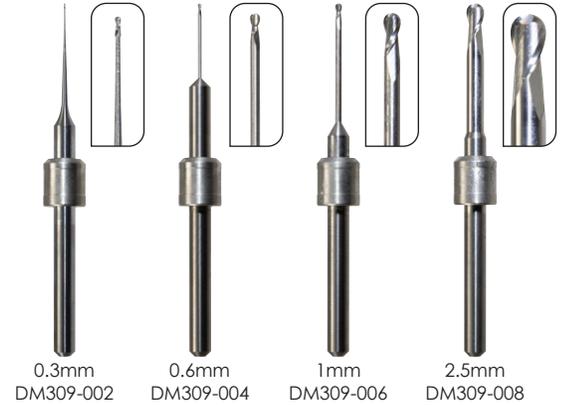


Machine Models

Amann Girrbach
Ceramill Matik, Mikro 4X, 5X, Micro ic, Motion2

Uncoated

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



CVD Real Diamond Coating - PowerRD

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.



nACo Coating - PowerN

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



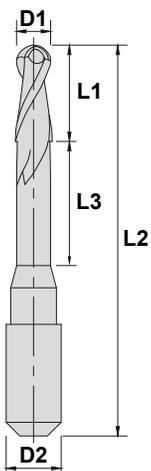
PowerN Coating ideal for machining Titanium and CoCr.





Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM315-050		0.6	1.5	4	45	9.5	2	Ball	-	31.49
DM315-052		1	2	4	44	9	2	Ball	-	31.49
DM315-054		1.5	3	4	47	12	2	Ball	-	31.49
DM315-056		2	6	4	50	12.5	2	Ball	-	31.49
DM315-048		3	6	4	50	14	1	Ball	-	31.49
DM315-046		4	10	4	50	11	1	Ball	-	31.49
DM315-002-7		0.3	1	4	45	-	2	Ball		86.20
DM315-008-7		0.6	1.8	4	45	11.2	2	Ball		86.20
DM315-014-7		1	3	4	50	13	2	Ball		86.20
DM315-020-7		1.5	4.5	4	50	11.5	2	Ball		86.20
DM315-026-7		2	6	4	50	14	2	Ball		86.20
DM315-004-7		0.3	1	6	63	-	2	Ball		86.20
DM315-010-7		0.6	1.8	6	63	11.2	2	Ball		86.20
DM315-016-7		1	3	6	63	13	2	Ball		86.20
DM315-022-7		1.5	4.5	6	63	11.5	2	Ball		86.20
DM315-028-7		2	6	6	63	14	2	Ball		86.20
DM315-032-7		3	9	6	63	11	2	Ball		86.20
DM315-006-5		0.3	1	6	50	-	2	Ball		41.90
DM315-012-5		0.6	1.2	6	50	1.8	2	Ball		41.90
DM315-018-5		1	2	6	50	8	2	Ball		41.90
DM315-024-5		1.5	3	6	50	7	2	Ball		41.90
DM315-030-5		2	4	6	50	8	2	Ball		41.90
DM315-034-5		3	6	6	50	6	2	Ball		41.90
DM315-136-5		1.75	7	6	50	7	2	Square		41.90
DM315-138-5		2	9	6	55	9	2	Square		41.90
DM315-140-5		2	4	6	50	2	2	Square		41.90
DM315-242-5		1.5	14	6	50	-	2	Split Point Drill		41.90
DM315-244-5		2.3	18	6	55	-	2	Split Point Drill		41.90

CUTTING EDGE TOLERANCE +0.000/-0.051mm
4mm SHANK TOLERANCE (h6) +0.000/-0.008mm
6mm SHANK TOLERANCE (h6) +0.000/-0.008mm



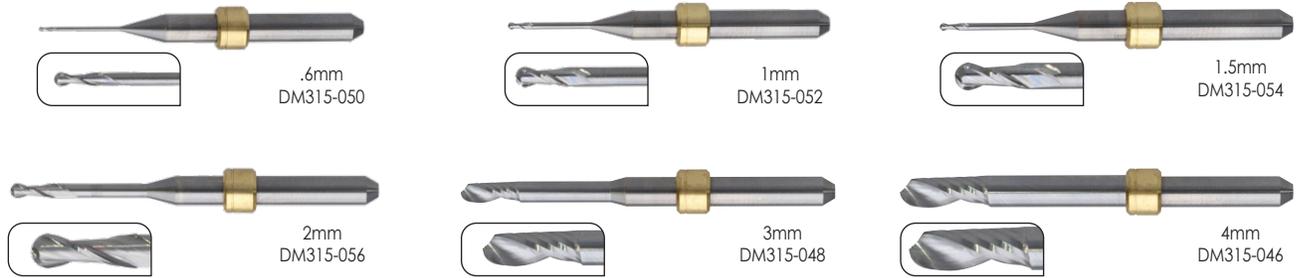
Machine Models
ARUM/Axsys VersaMill

5X, 5X-200, 4X-100, 5X400,
and 5X450

Uncoated



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



CVD Real Diamond Coating - PowerRD



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$, 4mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$, 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$

Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.

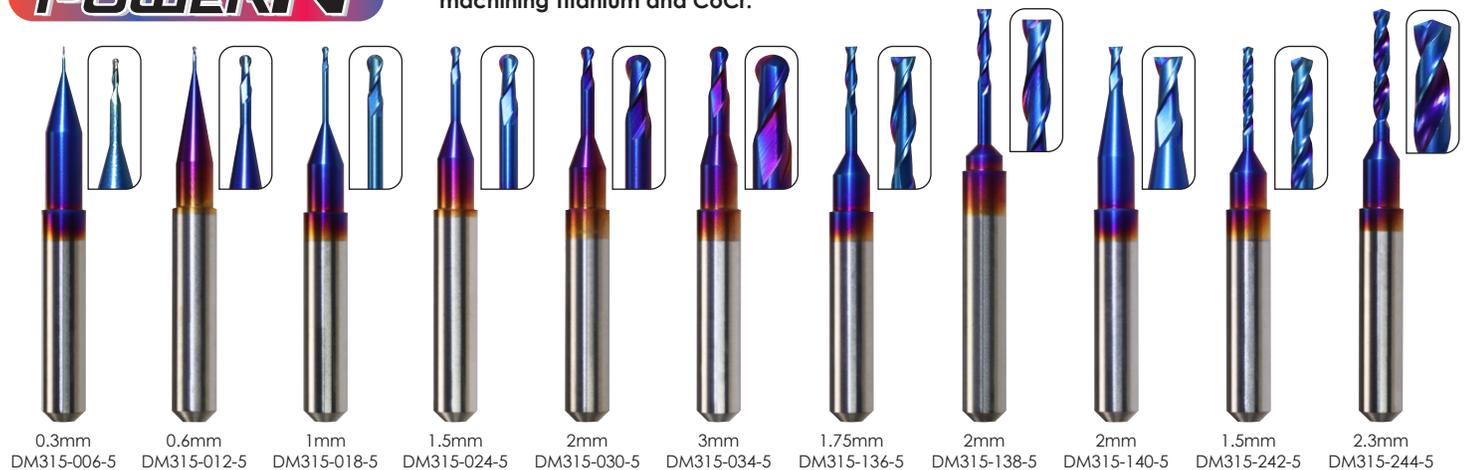


nACo Coating - PowerN

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$, 4mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$, 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



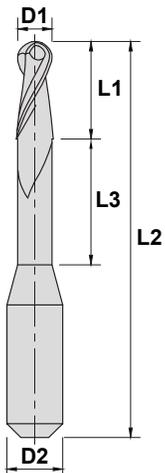
PowerN Coating ideal for machining Titanium and CoCr.





Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM316-002		0.6	2.5	3	48	7.5	2	Ball	-	33.64
DM316-006		1	4	3	48	14	2	Ball	-	33.64
DM316-010		2.5	5	3	48	20	2	Ball	-	33.64
DM316-004		0.6	2.5	6	50	7.5	2	Ball	-	33.64
DM316-008		1	4	6	50	14	2	Ball	-	33.64
DM316-012		2.5	5	6	50	20	2	Ball	-	33.64
DM316-002-7		0.6	2.5	3	48	7.5	2	Ball		86.20
DM316-006-7		1	4	3	48	14	2	Ball		86.20
DM316-010-7		2.5	5	3	48	20	2	Ball		86.20
DM316-004-7		0.6	2.5	6	50	7.5	2	Ball		86.20
DM316-008-7		1	4	6	50	14	2	Ball		86.20
DM316-012-7		2.5	5	6	50	20	2	Ball		86.20
DM316-006-5		1	4	3	48	14	2	Ball		38.37
DM316-010-5		2.5	5	3	48	20	2	Ball		38.37
DM316-008-5		1	4	6	50	14	2	Ball		38.37
DM316-012-5		2.5	5	6	50	20	2	Ball		38.37

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



Machine Models
Datron D5

Uncoated



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



CVD Real Diamond Coating - PowerRD



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.



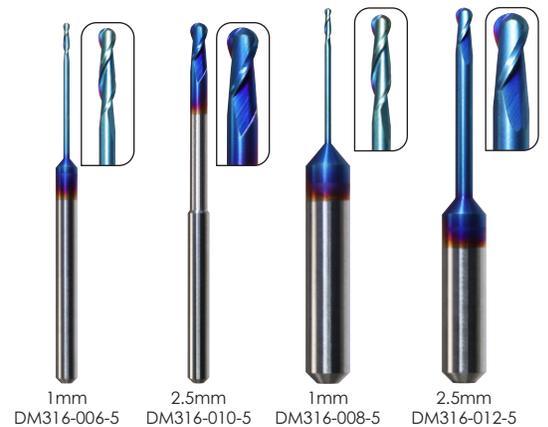
nACo Coating - PowerN



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



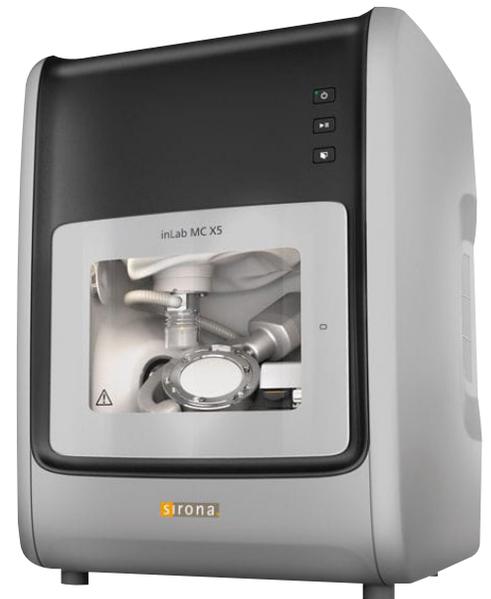
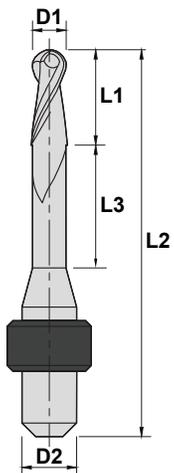
PowerN Coating ideal for machining Titanium and CoCr.





Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM306-014		0.5	1	3	42	4	2	Ball	-	32.46
DM306-016		1	3	3	43	14	2	Ball	-	32.46
DM306-018		2.5	4	3	44	20	2	Ball	-	32.46
DM306-004		0.5	1	3	42	4	2	Ball	-	32.46
DM306-008		1	3	3	43	14	2	Ball	-	32.46
DM306-010		2.5	4	3	44	20	2	Ball	-	32.46
DM306-004-7		0.5	1	3	42	4	2	Ball		86.20
DM306-008-7		1	3	3	43	14	2	Ball		86.20
DM306-012-7		2.5	4	3	44	20	4	Ball		86.20
DM306-008-5		1	3	3	43	14	2	Ball		35.41
DM306-010-5		2.5	4	3	44	20	2	Ball		35.41
DM306-012-5		2.5	4	3	44	20	4	Ball		35.41

CUTTING EDGE TOLERANCE +0.000/-0.051mm
3mm SHANK TOLERANCE (h6) +0.000/-0.006mm



Machine Models
InLab MC X5

Uncoated

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$

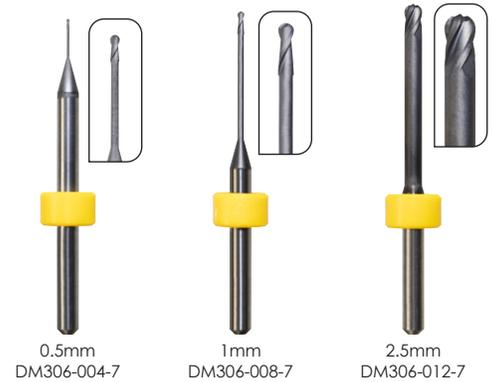


CVD Real Diamond Coating - PowerRD

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.



nACo Coating - PowerN

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$

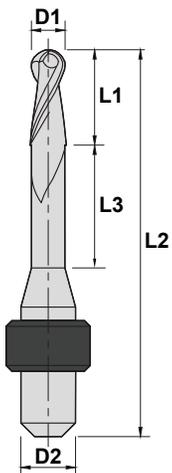


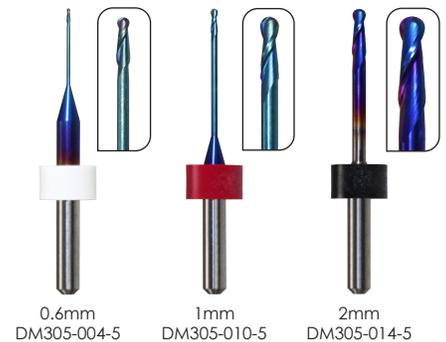
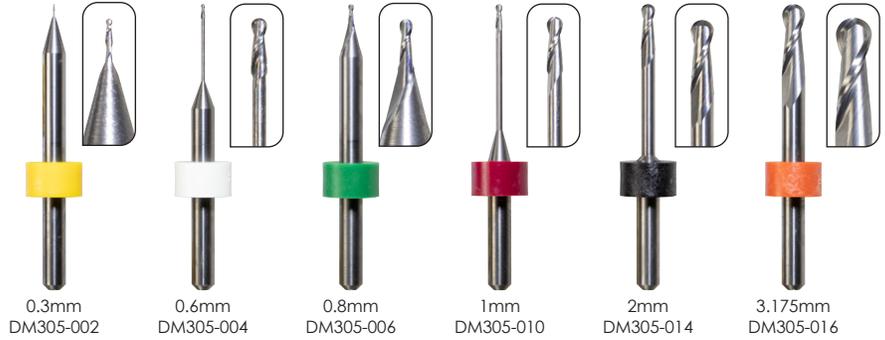
PowerN Coating ideal for machining Titanium and CoCr.





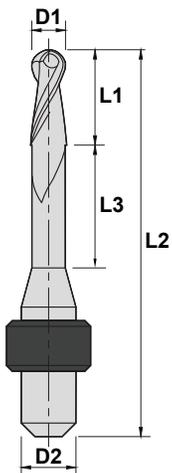
Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM305-002		0.3	0.9	3.175	38.1	-	2	Ball	-	25.38
DM305-004		0.6	1.8	3.175	38.1	8.2	2	Ball	-	25.38
DM305-006		0.8	2.4	3.175	38.1	-	2	Ball	-	25.38
DM305-010		1	3	3.175	38.1	13.6	2	Ball	-	25.38
DM305-014		2	6	3.175	38.1	14	2	Ball	-	25.38
DM305-016		3.175	9.525	3.175	38.1	-	2	Ball	-	25.38
DM305-004-7		0.6	1.8	3.175	38.1	8.2	2	Ball		86.20
DM305-006-7		0.8	2.4	3.175	38.1	-	2	Ball		86.20
DM305-010-7		1	3	3.175	38.1	13.6	2	Ball		86.20
DM305-014-7		2	6	3.175	38.1	14	2	Ball		86.20
DM305-016-7		3.175	9.525	3.175	38.1	-	2	Ball		86.20
DM305-004-5		0.6	1.8	3.175	38.1	8.2	2	Ball		31.88
DM305-010-5		1	3	3.175	38.1	13.6	2	Ball		31.88
DM305-014-5		2	6	3.175	38.1	14	2	Ball		31.88







Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM304-002	[Yellow][Red][White]	0.6	1.8	3	48	8.2	2	Ball	-	28.92
DM304-004	[Yellow][Red][White]	0.6	4.8	3	48	-	2	Ball	-	28.92
DM304-010	[Yellow][Red][White]	1	3	3	48	12	2	Ball	-	28.92
DM304-014	[Yellow][Red][White]	2.5	7.5	3	48	12.5	2	Ball	-	28.92
DM304-022	[Yellow][Red][White]	1	2	6	53	11.5	1	Ball	-	28.92
DM304-020	[Yellow][Red][White]	2.5	5	6	53	15	1	Ball	-	28.92
DM304-018	[Yellow][Red][White]	4	15	6	56	17	1	Square	-	28.92
DM304-006	[Yellow][Red][White]	0.6	1.8	6	53	8.2	2	Ball	-	28.92
DM304-008	[Yellow][Red][White]	0.6	4.8	6	53	-	2	Ball	-	28.92
DM304-012	[Yellow][Red][White]	1	3	6	53	12	2	Ball	-	28.92
DM304-016	[Yellow][Red][White]	2.5	7.5	6	53	12.5	2	Ball	-	28.92
DM304-002-7	[Green]	0.6	1.8	3	48	8.2	2	Ball	POWER RD	86.20
DM304-004-7	[Green]	0.6	4.8	3	48	-	2	Ball	POWER RD	86.20
DM304-010-7	[Green]	1	3	3	48	12	2	Ball	POWER RD	86.20
DM304-014-7	[Green]	2.5	7.5	3	48	12.5	2	Ball	POWER RD	86.20
DM304-006-7	[Green]	0.6	1.8	6	53	8.2	2	Ball	POWER RD	86.20
DM304-008-7	[Green]	0.6	4.8	6	53	-	2	Ball	POWER RD	86.20
DM304-012-7	[Green]	1	3	6	53	12	2	Ball	POWER RD	86.20
DM304-016-7	[Green]	2.5	7.5	6	53	12.5	2	Ball	POWER RD	86.20
DM304-010-5	[White][Blue]	1	3	3	48	12	2	Ball	POWER N	31.88
DM304-014-5	[White][Blue]	2.5	7.5	3	48	12.5	2	Ball	POWER N	31.88
DM304-012-5	[White][Blue]	1	3	6	53	12	2	Ball	POWER N	31.88
DM304-016-5	[White][Blue]	2.5	7.5	6	53	12.5	2	Ball	POWER N	31.88



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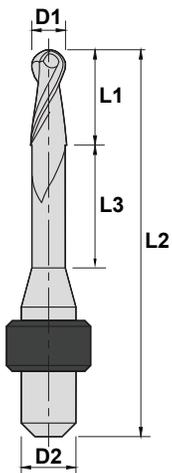
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 COBALT-CHROME

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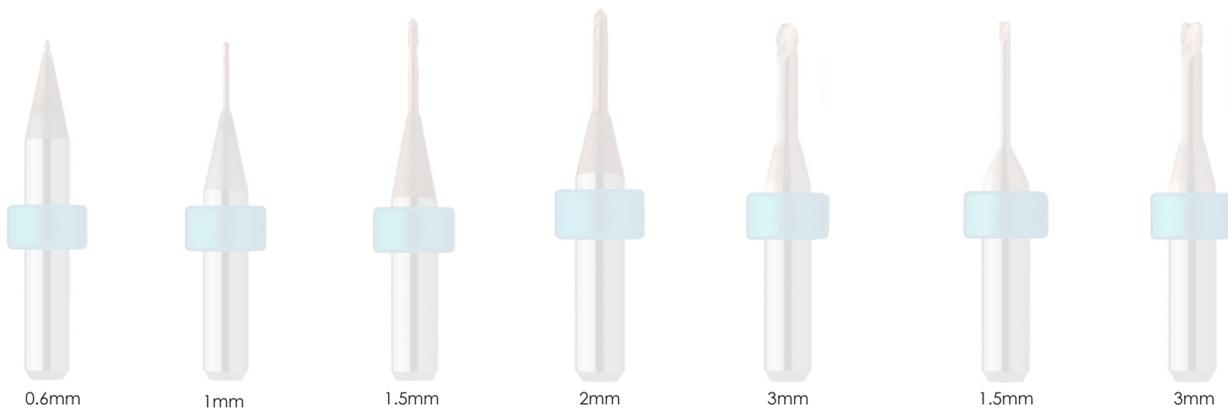


Part No.	Materials	Length of Cut			Shank Diameter		Overall Length		No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3						
DM3XX-XXX (Ivoclar #689031)		0.5	1.2	6	49	5.8	1	Ball	-	32.46		
DM3XX-XXX (Ivoclar #689030)		1		6			1	Ball	-	32.46		
DM3XX-XXX (Ivoclar #689029)		2.5	5	6	59	20	1	Ball	-	32.46		
DM3XX-XXX (Ivoclar #689027)		5	10	6	59	15	1	Ball	-	32.46		
DM3XX-XXX (Ivoclar #689028)		1.5	6	6	49	9	1	Square	-	32.46		
DM3XX-XXX (Ivoclar #689014)		0.5	2	6	51.2	4.5	2	Ball		86.20		
DM3XX-XXX (Ivoclar #689013)		1		6			2	Ball		86.20		
DM3XX-XXX (Ivoclar #689012)		2.5	6	6	52.3	14	2	Ball		86.20		
Coming Soon (Ivoclar #689035)		0.6			Coming Soon			Ball		33.06		
Coming Soon (Ivoclar #689034)		1			Coming Soon			Ball		33.06		
Coming Soon (Ivoclar #689033)		1.5			Coming Soon			Ball		33.06		
Coming Soon (Ivoclar #689032)		2			Coming Soon			Ball		33.06		
Coming Soon (Ivoclar #692445)		3			Coming Soon			Ball		33.06		
Coming Soon (Ivoclar #754521)		1.5			Coming Soon			Torus		33.06		
Coming Soon (Ivoclar #702905)		3			Coming Soon			Torus		33.06		



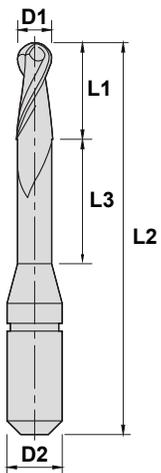


Square End





Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
M200										
DM303-002		0.6	1.2	3	35	8.8	2	Ball	-	28.92
DM303-014		0.6	2	3	35	-	2	Ball	-	28.92
DM303-004		1	2	3	35	13	2	Ball	-	28.92
DM303-006		2	4	3	35	14	2	Ball	-	28.92
DM303-018		2	10	3	35	6.35	2	Ball	-	28.92
DM303-004-5		1	2	3	35	13	2	Ball		31.88
DM303-006-5		2	4	3	35	14	2	Ball		31.88
M205/M305-X										
DM303-008		0.6	1.2	3	40	8.8	2	Ball	-	28.92
DM303-016		0.6	2	3	40	-	2	Ball	-	28.92
DM303-010		1	2	3	40	13	2	Ball	-	28.92
DM303-012		2	4	3	40	16	2	Ball	-	28.92
DM303-008-7		0.6	1.2	3	40	8.8	2	Ball		86.20
DM303-016-7		0.6	2	3	40	-	2	Ball		86.20
DM303-010-7		1	2	3	40	13	2	Ball		86.20
DM303-012-7		2	4	3	40	16	2	Ball		86.20
DM303-010-5		1	2	3	40	13	2	Ball		32.46
DM303-012-5		2	4	3	40	16	2	Ball		32.46

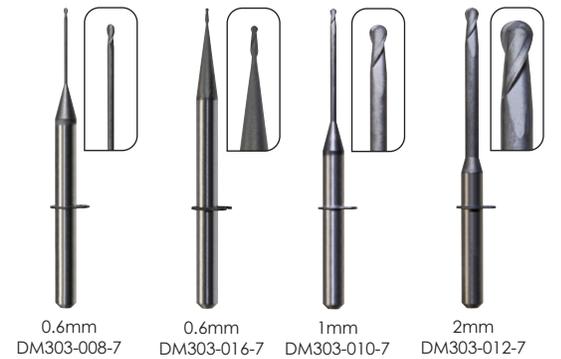


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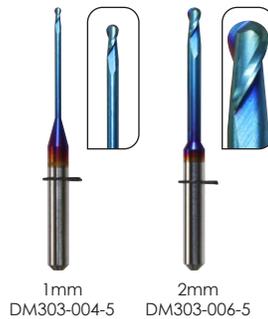
M200 **M205/M305-X**

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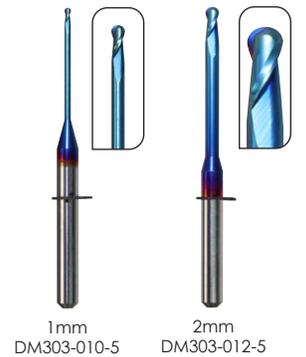


M205/M305-X

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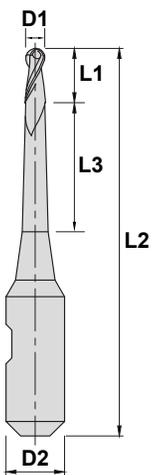
M200



M205/M305-X



Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM312-002		1	2	6	48		2	Ball	-	61.40
DM312-004		3	3	6	48		2	Ball	-	61.40
DM312-002-7		1	2	6	48		2	Ball		118.09
DM312-004-7		3	3	6	48		2	Ball		118.09





1mm
DM312-002

3mm
DM312-004

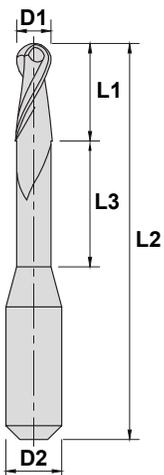


1mm
DM312-002-7

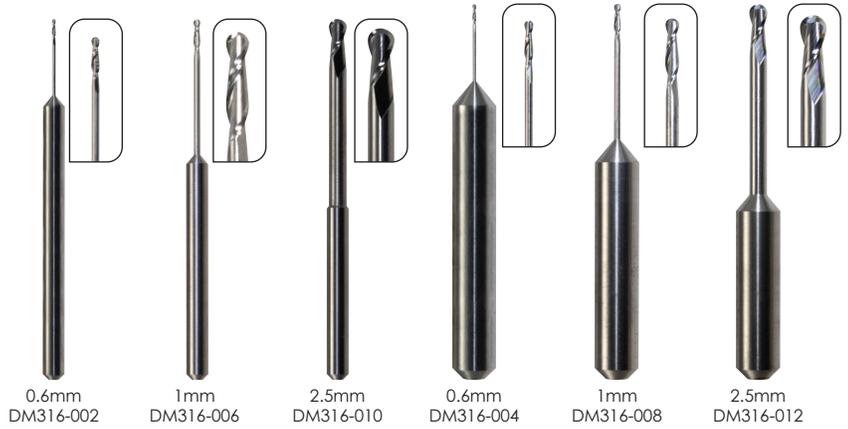
3mm
DM312-004-7



Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM316-002		0.6	2.5	3	48	7.5	2	Ball	-	33.64
DM316-006		1	4	3	48	14	2	Ball	-	33.64
DM316-010		2.5	5	3	48	20	2	Ball	-	33.64
DM316-004		0.6	2.5	6	50	7.5	2	Ball	-	33.64
DM316-008		1	4	6	50	14	2	Ball	-	33.64
DM316-012		2.5	5	6	50	20	2	Ball	-	33.64
DM316-002-7		0.6	2.5	3	48	7.5	2	Ball		86.20
DM316-006-7		1	4	3	48	14	2	Ball		86.20
DM316-010-7		2.5	5	3	48	20	2	Ball		86.20
DM316-004-7		0.6	2.5	6	50	7.5	2	Ball		86.20
DM316-008-7		1	4	6	50	14	2	Ball		86.20
DM316-012-7		2.5	5	6	50	20	2	Ball		86.20
DM316-006-5		1	4	3	48	14	2	Ball		38.37
DM316-010-5		2.5	5	3	48	20	2	Ball		38.37
DM316-008-5		1	4	6	50	14	2	Ball		38.37
DM316-012-5		2.5	5	6	50	20	2	Ball		38.37



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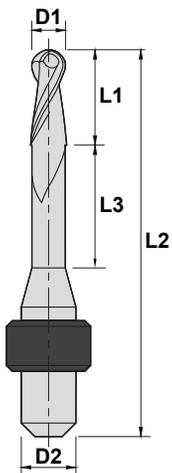


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Part No.	Materials	Cut		Shank Diameter		Overall Length		Neck Length		End Type	Coating	\$ US
		D1	L1	D2	L2	L3						
DM310-002		0.6	4.8	4	46	-	2	Ball	-	29.52		
DM310-004		0.6	1.8	4	46	8.2	2	Ball	-	29.52		
DM310-006		1	3	4	46	14.5	2	Ball	-	29.52		
DM310-008		2	6	4	46	11.5	2	Ball	-	29.52		
DM310-002-7		0.6	4.8	4	46	-	2	Ball		86.20		
DM310-004-7		0.6	1.8	4	46	8.2	2	Ball		86.20		
DM310-006-7		1	3	4	46	14.5	2	Ball		86.20		
DM310-008-7		2	6	4	46	11.5	2	Ball		86.20		
DM310-006-5		1	3	4	46	14.5	2	Ball		33.06		
DM310-008-5		2	6	4	46	11.5	2	Ball		33.06		



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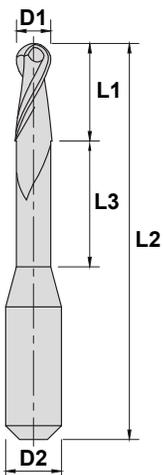


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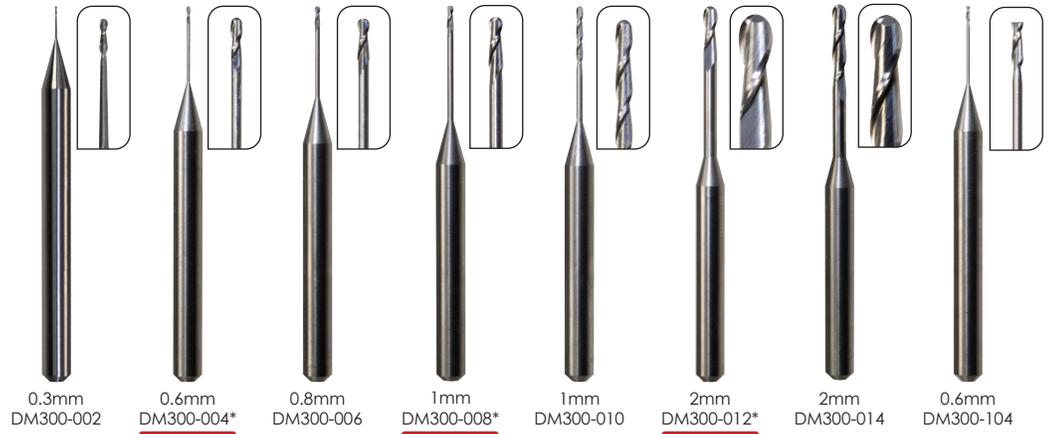




Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM300-002		0.3	0.9	4	50	3.1	2	Ball	-	29.52
DM300-004		0.6	1.8	4	50	8.2	2	Ball	-	29.52
DM300-006		0.8	2.4	4	50	9.6	2	Ball	-	29.52
DM300-008		1	3	4	50	12	2	Ball	-	29.52
DM300-010		1	7.5	4	50	7.5	2	Ball	-	29.52
DM300-012		2	6	4	50	14	2	Ball	-	29.52
DM300-014		2	10	4	50	10	2	Ball	-	29.52
DM300-104		0.6	1.8	4	50	8.2	2	Square	-	29.52
DM300-004-7		0.6	1.8	4	50	8.2	2	Ball		86.20
DM300-006-7		0.8	2.4	4	50	9.6	2	Ball		86.20
DM300-008-7		1	3	4	50	12	2	Ball		86.20
DM300-010-7		1	7.5	4	50	7.5	2	Ball		86.20
DM300-012-7		2	6	4	50	14	2	Ball		86.20
DM300-014-7		2	10	4	50	10	2	Ball		86.20
DM300-108-7		1	3	4	50	12	2	Square		86.20
DM300-112-7		2	6	4	50	14	2	Square		86.20
DM300-008-5		1	3	4	50	12	2	Ball		33.06
DM300-012-5		2	6	4	50	14	2	Ball		33.06



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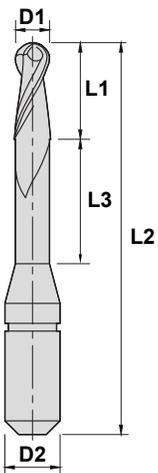


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Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
K4 / S1										
DM303-002		0.6	1.2	3	35	8.8	2	Ball	-	28.92
DM303-014		0.6	2	3	35	-	2	Ball	-	28.92
DM303-004		1	2	3	35	13	2	Ball	-	28.92
DM303-006		2	4	3	35	14	2	Ball	-	28.92
DM303-018		2	10	3	35	6.35	2	Ball	-	28.92
DM303-002-7 ‡		0.6	1.2	3	35	8.8	2	Ball		86.20
DM303-004-7 ‡		1	2	3	35	13	2	Ball		86.20
DM303-006-7 ‡		2	4	3	35	14	2	Ball		86.20
DM303-004-5		1	2	3	35	13	2	Ball		31.88
DM303-006-5		2	4	3	35	14	2	Ball		31.88
K5 / S2										
DM303-008		0.6	1.2	3	40	8.8	2	Ball	-	28.92
DM303-016		0.6	2	3	40	-	2	Ball	-	28.92
DM303-010		1	2	3	40	13	2	Ball	-	28.92
DM303-012		2	4	3	40	16	2	Ball	-	28.92
DM303-008-7		0.6	1.2	3	40	8.8	2	Ball		86.20
DM303-016-7		0.6	2	3	40	-	2	Ball		86.20
DM303-010-7		1	2	3	40	13	2	Ball		86.20
DM303-012-7		2	4	3	40	16	2	Ball		86.20
DM303-010-5		1	2	3	40	13	2	Ball		32.46
DM303-012-5		2	4	3	40	16	2	Ball		32.46



WAX **PMMA** **PEEK**



K4 / S1 **K5 / S2**

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K4 / S1 **K5 / S2**

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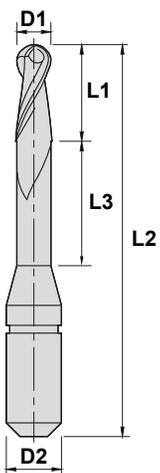
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 COBALT-CHROME



K4 / S1 **K5 / S2**

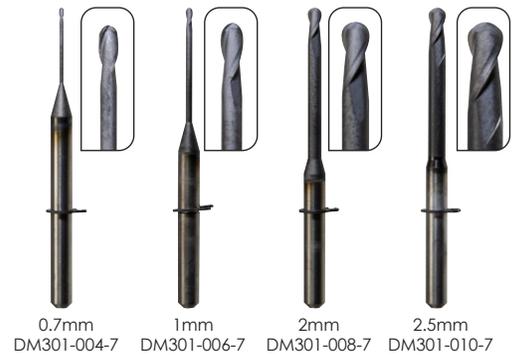


Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
Zenotec Mini										
DM302-004		0.7	1.4	3	35	8.6	2	Ball	-	30.10
DM302-006		1	2	3	35	13	2	Ball	-	30.10
DM302-008		2	4	3	35	16	2	Ball	-	30.10
DM302-010		2.5	5	3	35	15	2	Ball	-	30.10
DM302-006-5		1	2	3	35	13	2	Ball		33.06
DM302-008-5		2	4	3	35	16	2	Ball		33.06
DM302-010-5		2.5	5	3	35	15	2	Ball		33.06
Zenotec Select Hybrid										
DM301-004		0.7	1.4	3	40	8.6	2	Ball	-	28.92
DM301-006		1	2	3	40	13	2	Ball	-	28.92
DM301-008		2	4	3	40	16	2	Ball	-	28.92
DM301-010		2.5	5	3	40	15	2	Ball	-	28.92
DM301-004-7		0.7	1.4	3	40	8.6	2	Ball		86.20
DM301-006-7		1	2	3	40	13	2	Ball		86.20
DM301-008-7		2	4	3	40	16	2	Ball		86.20
DM301-010-7		2.5	5	3	40	15	2	Ball		86.20
DM301-006-5		1	2	3	40	13	2	Ball		31.88
DM301-008-5		2	4	3	40	16	2	Ball		31.88
DM301-010-5		2.5	5	3	40	15	2	Ball		31.88





Zenotec Mini | Zenotec Select Hybrid



Zenotec Select Hybrid

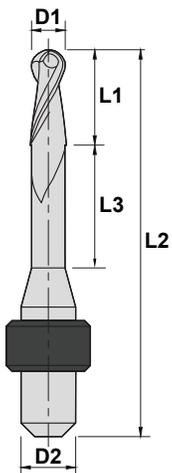


Zenotec Mini | Zenotec Select Hybrid



Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM310-002		0.6	4.8	4	46	-	2	Ball	-	29.52
DM310-004		0.6	1.8	4	46	8.2	2	Ball	-	29.52
DM310-006		1	3	4	46	14.5	2	Ball	-	29.52
DM310-008		2	6	4	46	11.5	2	Ball	-	29.52
DM310-002-7		0.6	4.8	4	46	-	2	Ball		86.20
DM310-004-7		0.6	1.8	4	46	8.2	2	Ball		86.20
DM310-006-7		1	3	4	46	14.5	2	Ball		86.20
DM310-008-7		2	6	4	46	11.5	2	Ball		86.20
DM310-006-5		1	3	4	46	14.5	2	Ball		33.06
DM310-008-5		2	6	4	46	11.5	2	Ball		33.06

CUTTING EDGE TOLERANCE +0.000/-0.051mm
4mm SHANK TOLERANCE (h6) +0.000/-0.008mm



Machine Models

Yenadent D6, D14, D10,
D15, D43, DC40

Uncoated

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 4mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



CVD Real Diamond Coating - PowerRD

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 4mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.



nACo Coating - PowerN

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 4mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



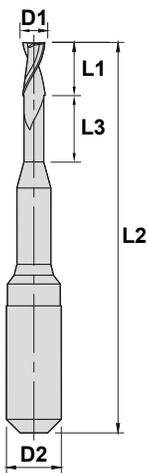
PowerN Coating ideal for machining Titanium and CoCr.





Part No.	Materials	Cut Diameter	Length of Cut	Shank Diameter	Overall Length	Neck Length	No. of Flutes	End Type	Coating	\$ US
		D1	L1	D2	L2	L3				
DM311-014	[Yellow][Red][Brown]	0.3	3	3	57	-	2	Ball	-	31.88
DM311-016	[Yellow][Red][Brown]	0.5	3	3	57	-	2	Ball	-	31.88
DM311-118	[Yellow][Red][Brown]	0.6	3	3	57	4	2	Square	-	31.88
DM311-020	[Yellow][Red][Brown]	1	8	3	57	8	2	Ball	-	31.88
DM311-122	[Yellow][Red][Brown]	1.5	5	3	57	13	2	Square	-	31.88
DM311-024	[Yellow][Red][Brown]	2	10	3	57	8	2	Ball	-	31.88
DM311-002	[Yellow][Red][Brown]	0.3	3	6	50	-	2	Ball	-	49.59
DM311-004	[Yellow][Red][Brown]	0.5	3	6	50	-	2	Ball	-	49.59
DM311-106	[Yellow][Red][Brown]	0.6	3	6	50	4	2	Square	-	49.59
DM311-008	[Yellow][Red][Brown]	1	6	6	50	6	2	Ball	-	49.59
DM311-110	[Yellow][Red][Brown]	1.5	5	6	50	13	2	Square	-	49.59
DM311-012	[Yellow][Red][Brown]	2	10	6	50	8	2	Ball	-	49.59
DM311-020-7	[Green]	1	8	3	57	8	2	Ball	POWER RD	86.20
DM311-122-7	[Green]	1.5	5	3	57	13	2	Square	POWER RD	86.20
DM311-024-7	[Green]	2	10	3	57	8	2	Ball	POWER RD	86.20
DM311-008-7	[Green]	1	6	6	50	6	2	Ball	POWER RD	118.09
DM311-110-7	[Green]	1.5	5	6	50	13	2	Square	POWER RD	118.09
DM311-012-7	[Green]	2	10	6	50	8	2	Ball	POWER RD	118.09
DM311-204-5	[White][Blue]	2	3	6	50	-	4	0.5mm Corner Rad.	POWER N	53.13
DM311-206-5	[White][Blue]	3	5	6	50	-	4	0.75mm Corner Rad.	POWER N	53.13

CUTTING EDGE TOLERANCE +0.000/-0.051mm
3mm SHANK TOLERANCE (h6) +0.000/-0.006mm
6mm SHANK TOLERANCE (h6) +0.000/-0.008mm



Machine Models
Zirkonzahn M1, M2, M4, M5, M6

Uncoated

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



0.3mm DM311-014 0.5mm DM311-016 0.6mm DM311-118 1mm DM311-020 1.5mm DM311-122 2mm DM311-024 0.3mm DM311-002 0.5mm DM311-004 0.6mm DM311-106 1mm DM311-008 1.5mm DM311-110 2mm DM311-012

CVD Real Diamond Coating - PowerRD



CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



Real Diamond CVD Coating provides outstanding milling bur life for machining Zirconia.



1mm DM311-020-7 1.5mm DM311-122-7 2mm DM311-024-7 1mm DM311-008-7 1.5mm DM311-110-7 2mm DM311-012-7

nACo Coating - PowerN

CUTTING EDGE TOLERANCE $+0.000/-0.051\text{mm}$
 3mm SHANK TOLERANCE (h6) $+0.000/-0.006\text{mm}$
 6mm SHANK TOLERANCE (h6) $+0.000/-0.008\text{mm}$



PowerN Coating ideal for machining Titanium and CoCr.



2mm DM311-204-5 3mm DM311-206-5

Our Hand Piece and Lathe Bur offering includes all of the most popular shapes and cuts.

HAND PIECE & LATHE

Hand Piece Burs

Mastercut offers a wide variety of dental laboratory carbide burs for an array of applications and materials.

This section features a complete line of carbide burs, including shapes and cuts for use with all types of dental laboratory materials.

Most of our carbide burs feature a two-piece construction, consisting of tungsten carbide heads and corrosion resistant stainless-steel shanks (not recommended for autoclaving). We do offer some solid carbide burs, which will be noted accordingly.

Bench Lathe Burs

We offer both a 3/8" and a 1/2" head diameter burs for use on all standard bench lathes. Our bench lathe burs feature aircraft quality steel shanks (not recommended for autoclaving).



All Hand Piece and Lathe Burs available in the following coatings:



PowerT (TiN)

POWER^T

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

Color: Gold

Vickers Hardness: approximately 2,300 Vickers

Our TiN coated burs are gold in color and are an excellent choice for general purpose use in hand piece or bench lathe settings. Experience extended tool life compared to an uncoated bur.



PowerZ (ZrN)

POWER^Z

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

Color: Dull Gold

Vickers Hardness: approximately 2,800 Vickers

Our ZrN coated burs are a dull gold in color and are outstanding in aluminum, cast iron, stainless steels, titanium. PowerZ is also ideal for soft materials, such as flexible partial materials like polymethyl methacrylate (PMMA).

All Hand Piece Burs available in the following cuts:



Fine Cut

For smooth surface finish of acrylic and metals



Best Suited for:



Coarse Cut

For fast reduction of acrylic and all metals, including non-precious and chrome cobalt



Best Suited for:



Regular Cut

For standard adjusting of acrylic, metals, plaster and stone



Best Suited for:



All Lathe Burs available in following cuts:

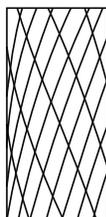


Best Suited for:



Coarse Cut

For standard adjusting of acrylic, metals, plaster and stone



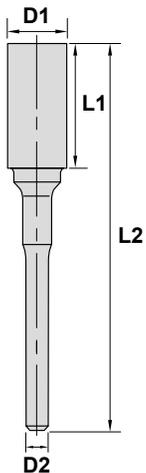
Hand Piece Carbide Burs

Fine Cut	Coarse Cut	Regular Cut	Head Diameter	Length of Cut	Shank Diameter	Overall Length	\$ US	\$US
Part No.	Part No.	Part No.	D1	L1	D2	L2	Uncoated	POWER T
DEN52CXF	DEN52CXC	DEN52C	1/4" (6.3mm)	3/8" (9.5mm)	.0925" (2.35mm)	1-7/8" (48mm)	25.83	30.88
DEN52DXF	DEN52DXC	DEN52D	1/4" (6.3mm)	1/4" (6.3mm)	.0925" (2.35mm)	1-3/4" (45mm)	25.83	30.88
DEN53AXF	DEN53AXC	DEN53A	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN63BXF	DEN63BXC	DEN63B	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN82TXF	DEN82TXC	DEN82T	1/4" (6.3mm)	5/8" (15.9mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN84TXF	DEN84TXC	DEN84T	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN83EXF	DEN83EXC	DEN83E	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN83EEXF*	DEN83EEXC*	DEN83EE*	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN88AXF	DEN88AXC	DEN88A	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN47XXF	DEN47XXC	DEN47X	5/32" (4mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88
DEN73CXF	DEN73CXC	DEN73C	1/4" (6.3mm)	1/4" (6.3mm)	.0925" (2.35mm)	1-3/4" (45mm)	25.83	30.88
DEN51AXF	DEN51AXC	DEN51A	3/16" (5mm)	3/8" (9.5mm)	.0925" (2.35mm)	1-7/8" (48mm)	25.83	30.88
DEN61A/81AXF	DEN61A/81AXC	DEN61A/81A	1/4" (6.3mm)	1/2" (12.7mm)	.0925" (2.35mm)	2" (50mm)	25.83	30.88

* Endcut Bur

CUTTING EDGE TOLERANCE ± 0.005 in (± 0.127 mm)
 2.35mm SHANK TOLERANCE $+0.0000/-0.0005$ in ($+0.000/-0.013$ mm)

The above burs are available with PowerT coating. Append -2 for PowerT



Hand Piece Carbide Burs

Fine Cut



Coarse Cut



Regular Cut



Hand Piece Solid Carbide Burs

Part No.	Head Dia.	LOC	Shank	OAL	Cone Angle	Cut	Uncoated	POWER ^T
	D1	L1	D2	L2				
DENMC-2	1/16"	1/4"	.0925	1-1/2"	-	Fine Cut	21.53	24.13
DENMC-4	.0925"	3/8"	.0925"	1-1/2"	-	Fine Cut	21.53	24.13
DENMC-5	.0925"	.070"	.0925"	1-1/2"	-	Fine Cut	21.53	24.13
DENMC-6	.0925"	3/8"	.0925"	1-1/2"	10°	Fine Cut	21.53	24.13
DENMC-7	.0925"	1/8"	.0925"	1-1/2"	10°	Fine Cut	21.53	24.13
DENMC-8	.0925"	5/8"	.0925"	1-1/2"	7°	Fine Cut	21.53	24.13
DEN71G	.0925"	1/8"	.0925"	1-1/2"	10°	Regular Cut	21.53	24.13
DEN33C	.0925"	3/8"	.0925"	1-1/2"	-	Regular Cut	21.53	24.13
DEN32P	1/16"	3/8"	.0925"	1-1/2"	-	Regular Cut	21.53	24.13
DEN31P	.0925"	5/8"	.0925"	1-1/2"	7°	Regular Cut	21.53	24.13
DEN44C	REDUCED SHANK 1/8"	9/16"	.0925"	1-1/2"	-	Regular Cut	21.53	24.13
DEN44CM(Metric)	REDUCED SHANK 3mm	14mm	2.35mm	38mm	-	Regular Cut	21.53	24.13
DEN41P	REDUCED SHANK 1/8"	5/8"	.0925"	1-1/2"	10°	Regular Cut	21.53	24.13
DEN41PM(Metric)	REDUCED SHANK 3mm	16mm	2.35mm	38mm	10°	Regular Cut	21.53	24.13

CUTTING EDGE TOLERANCE ± 0.005 in
 .0925in SHANK TOLERANCE (h6) $+0.000/-0.0002$ in

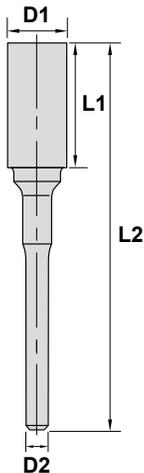
The above burs are available with PowerT coating. Append -2 for PowerT

Flexible Partial Bur Series

PowerZ coated Hand Piece burs for use with all flexible partial materials. Also, great in Die Trimming applications

Part No.	Head Dia.	LOC	Shank	OAL	Cone Angle	POWER ^Z
	D1	L1	D2	L2		
DENFP1-4	9/32"	9/16"	.0925"	2-3/32"	15°	30.28
DENFP2-4	15/64"	9/16"	.0925"	2-3/32"	-	30.28
DENFP3-4	5/32"	1/2"	.0925"	2"	11°	30.28
DENFP4-4	5/32"	1/2"	.0925"	2"	-	30.28

CUTTING EDGE TOLERANCE ± 0.005 in
 .0925in SHANK TOLERANCE $+0.0000/-0.0005$ in



Hand Piece Solid Carbide Burs



Flexible Partial Bur Series



TriCutter

PowerZ coating - advantageous for soft material applications, reducing heat for faster, longer usage

Part No.	Head Dia.	LOC	Shank	OAL	\$US
	D1	L1	D2	L2	POWERZ
101-1063-4	.0925"	.450"	.0925"	1-3/4"	35.21

CUTTING EDGE TOLERANCE ± 0.002 in
 .0925in SHANK TOLERANCE (h6) +0.000/-0.0002in

Step Drill

For effective use in pinning all models

Part No.	Front Cut Dia. (mm)	LOC (mm)	Back Cut Dia. (mm)	Shank (mm)	OAL (mm)	\$US
	D1	L1	D3	D2	L2	Uncoated
35-0780	1.95	5.75	3	3	35	23.89

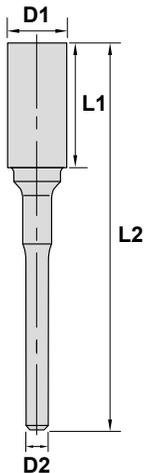
CUTTING EDGE TOLERANCE +0.008/-0.000mm
 3mm SHANK TOLERANCE (h6) +0.000/-0.006mm

Fastmill Burs

For 'clog-free' bulk reduction of acrylic, plaster and stone

Part No.	Head Dia.	LOC	Shank	OAL	\$US
	D1	L1	D2	L2	Uncoated
DEN84TSP	1/4"	1/2"	.0925"	2"	34.44
DEN88ASP	1/4"	1/2"	.0925"	2"	34.44

CUTTING EDGE TOLERANCE ± 0.005 in
 .0925in SHANK TOLERANCE +0.0000/-0.0005in



TriCutter



Step Drill



Fastmill Burs



Bench Lathe Series

3/8" Cut Diameter (OD)

Part No.	Head Diameter	LOC	Shank	OAL	Cut	Cut		Cut		
	D1	L1	D2	L2		Uncoated	POWER ^T	Uncoated	POWER ^T	
DENA3/8	3/8"	3/4"	1/4"	2-1/2"	Regular	50.25	60.31	Coarse	53.83	63.92
DENB3/8	3/8"	1-1/16"	1/4"	2-13/16"	Regular	50.25	60.31	Coarse	53.83	63.92
DENC3/8	3/8"	3/4"	1/4"	2-1/2"	Regular	50.25	60.31	Coarse	53.83	63.92
DEND3/8	3/8"	5/8"	1/4"	2-3/8"	Regular	50.25	60.31	Coarse	53.83	63.92
DENE3/8	3/8"	3/4"	1/4"	2-1/2"	Regular	50.25	60.31	Coarse	53.83	63.92
DENF3/8	3/8"	5/16"	1/4"	2-1/8"	Regular	50.25	60.31	Coarse	53.83	63.92

CUTTING EDGE TOLERANCE ± 0.005 in
 1/4in SHANK TOLERANCE $+0.0000/-0.0005$ in

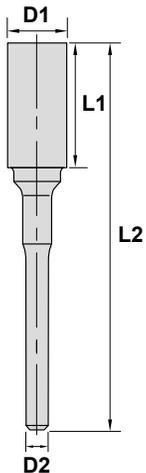
The above burs are available with Power^T coating. Append -2 for Power^T

1/2" Cut Diameter (OD)

Part No.	Head Diameter	LOC	Shank	OAL	Cut	Cut		Cut		
	D1	L1	D2	L2		Uncoated	POWER ^T	Uncoated	POWER ^T	
DENA1/2	1/2"	1"	1/4"	2-3/4"	Regular	62.81	76.52	Coarse	66.38	80.10
DENB1/2	1/2"	1-1/8"	1/4"	2-7/8"	Regular	62.81	76.52	Coarse	66.38	80.10
DENC1/2	1/2"	1"	1/4"	2-3/4"	Regular	62.81	76.52	Coarse	66.38	80.10
DEND1/2	1/2"	7/8"	1/4"	2-5/8"	Regular	62.81	76.52	Coarse	66.38	80.10
DENE1/2	1/2"	1"	1/4"	2-3/4"	Regular	62.81	76.52	Coarse	66.38	80.10
DENF1/2	1/2"	7/16"	1/4"	2-1/4"	Regular	62.81	76.52	Coarse	66.38	80.10

CUTTING EDGE TOLERANCE ± 0.005 in
 1/4in SHANK TOLERANCE $+0.0000/-0.0005$ in

The above burs are available with Power^T coating. Append -2 for Power^T



Bench Lathe Series

3/8" Cut Diameter (OD)



1/2" Cut Diameter (OD)



Our ISO bur offering includes a wide array of bur shapes and sizes, including a standard numbering system to help identify burs.

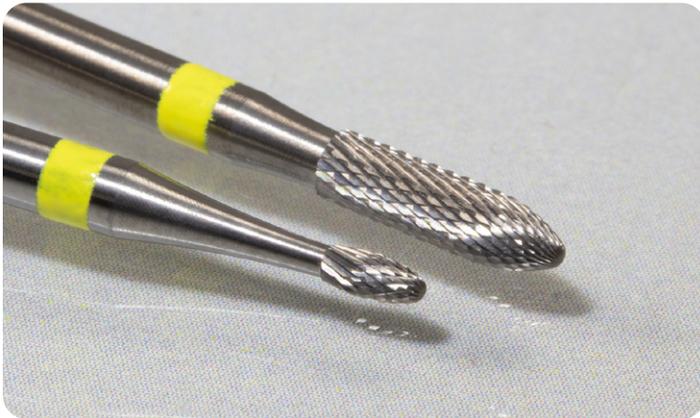
ISO BURS

ISO Burs

One of the most common numbering systems is ISO (International Standards Organization). You will also find our MasterCut Dental color-coded band system helpful when identifying burs.

Our ISO burs feature a two-piece construction, consisting of tungsten carbide heads and corrosion resistant stainless-steel shanks (not recommended for autoclaving).
Optional coatings are available, see page 40.

Burs shown are right hand burs, except several left- hand burs, noted accordingly.



Very Fine

Yellow Band

For fine, difficult work in the following applications:

- Titanium Implant Abutments - trim and contour
- Soft Acrylic Denture Reline - trim
- Acrylic Appliances – trim



Fine

Red Band

For fine, difficult work in the following applications:

- Porcelain to Metal Margins - fine adjustments
- Precision Metal - crowns and bridges- finishing prior to veneering
- Non-Precious Metal - crowns and bridges
- Titanium and titanium alloys- fine adjustments



Medium

Blue Band

For speedy work in the following applications:

- Hard Acrylic - trimming dentures, trays, temporary restorations
- Composite - trimming temporary appliance and restorations
- Plaster & Stone - trimming models and dies
- Chrome Cobalt - trimming partial dental framework
- Metal Alloy - trimming crown and bridge metal substructures



Coarse

Green Band

For extensive trimming in the following applications:

- Ceramic Restorations - trim and finish
- Composite Restorations - trim and finish
- Acrylic Appliances - trim and contour
- Soft acrylic dentures- reline and trim
- Titanium implant abutment- trim and contour



Very Coarse

Black Band

For bulk reductions in the following applications:

- Hard Acrylic – bulk reduction, trim and finish
- Composite - bulk reduction, trim and finish
- Cobalt Chrome - bulk reduction, trim and finish
- Metal Alloy - bulk reduction, trim and finish

Very Fine Double Cut ISO 110

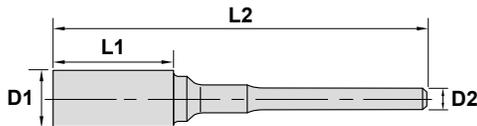
Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D277110014	1.4	2.9	2.35	44.5	110	Egg	20.69
D289110023	2.3	8	2.35	44.5	110	Torpedo Cylindrical	20.69

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Fine Diamond Cut ISO 141

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D141141023	2.3	8	2.35	44.5	141	Cylindrical Domed End	20.69
D198141023	2.3	8	2.35	44.5	141	Conical Domed End (Neck)	20.69
D199141023	2.3	11.5	2.35	44.5	141	Conical Domed End (No Neck)	20.69
D200141040	4	13	2.35	51	141	Conical Domed End	26.74
D219141016	1.6	8	2.35	44.5	141	Conical Domed End Side-Cutting Only	20.69
D289141023	2.3	8	2.35	44.5	141	Torpedo Cylindrical (Neck)	20.69
D292141023	2.3	15	2.35	44.5	141	Torpedo Cylindrical (No Neck)	20.69

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Very Fine Double Cut ISO 110



D277110014



D289110023

Fine Diamond Cut ISO 141



D141141023



D198141023



D199141023



D200141040



D219141016



D289141023



D292141023

Fine Double Cut ISO 140

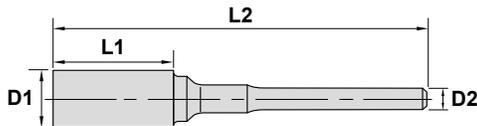
Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D141140023	2.3	8	2.35	44.5	140	Cylindrical Domed End	20.69
D144140023	2.3	15	2.35	44.5	140	Cylindrical Domed End	20.69
D187140023	2.3	15	2.35	44.5	140	Conical Side-Cutting Only	20.69
D187140060	6	14	2.35	52	140	Conical Side-Cutting Only	26.74
D198140023	2.3	8	2.35	44.5	140	Conical Domed End (Neck)	20.69
D199140023	2.3	11.5	2.35	44.5	140	Conical Domed End (No Neck)	20.69
D199140031	3.1	11.5	2.35	44.5	140	Conical Domed End	26.74
D200140040	4	13	2.35	51	140	Conical Domed End	26.74
D200140045	4.5	13	2.35	51	140	Conical Domed End	26.74
D200140060	6	13	2.35	51	140	Conical Domed End	26.74
D201140060	6	14	2.35	52	140	Conical Domed End	26.74
D237140023	2.3	5.5	2.35	44.5	140	Pear	26.74
D237140029	2.9	5.5	2.35	44.5	140	Pear	26.74
D257140060	6	12	2.35	50	140	Bud Slender	26.74
D275140060	6	14	2.35	52	140	Bullet	26.74
D277140023	2.3	3.8	2.35	44.5	140	Egg	20.69
D289140023	2.3	8	2.35	44.5	140	Torpedo Cylindrical (Neck)	20.69
D292140023	2.3	15	2.35	44.5	140	Torpedo Cylindrical (No Neck)	20.69

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Fine Double Left Cut ISO 142

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D200142040	4	13	2.35	51	142	Conical Domed End LEFT CUT	26.74

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Fine Double Cut ISO 140



Fine Double Left Cut ISO 142



Fine Double Upcut with Chipbreaker ISO 145

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D141145023	2.3	8	2.35	44.5	145	Cylindrical Domed End	20.69
D198145023	2.3	8	2.35	44.5	145	Conical Domed End (Neck)	20.69
D200145040	4	13	2.35	51	145	Conical Domed End	26.74
D200145060	6	13	2.35	51	145	Conical Domed End	26.74
D237145023	2.3	5.5	2.35	44.5	145	Pear	20.69
D273145040	4	9	2.35	47	145	Bullet	26.74
D275145060	6	14	2.35	52	145	Bullet	26.74
D277145014	1.4	2.9	2.35	44.5	145	Egg	20.69
D289145023	2.3	8	2.35	44.5	145	Torpedo Cylindrical (Neck)	20.69

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Fine Straight Cut with Chipbreaker ISO 132

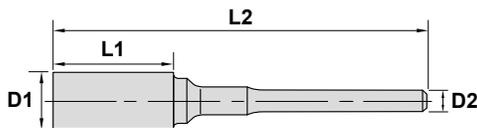
Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D141132023	2.3	8	2.35	44.5	132	Cylindrical Domed End	26.74
D200132040	4	13	2.35	51	132	Conical Domed End	26.74
D275132060	6	14	2.35	52	132	Bullet	20.69
D289132023	2.3	8	2.35	44.5	132	Torpedo Cylindrical (Neck)	20.69

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Fine Double Upcut ISO 144

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D198144023	2.3	8	2.35	44.5	144	Conical Domed End (Neck)	20.69
D289144023	2.3	8	2.35	44.5	144	Torpedo Cylindrical (Neck)	20.69

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Fine Double Upcut with Chipbreaker ISO 145



Fine Straight Cut with Chipbreaker ISO 132



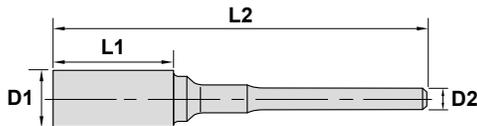
Fine Double Upcut ISO 144



Medium Single Cut ISO 175

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	US\$
	D1	L1	D2	L2			
D001175016	1.6	1.4	2.35	44.5	175	Ball	20.69
D001175050	5	4.5	2.35	42.5	175	Ball	26.74
D143175060	6	13	2.35	51	175	Cylindrical Domed End	26.74
D187175023	2.3	15	2.35	44.5	175	Conical Side-Cutting Only	20.69
D199175023	2.3	11.5	2.35	44.5	175	Conical Domed End (No Neck)	20.69
D199175031	3.1	11.5	2.35	44.5	175	Conical Domed End	26.74
D200175040	4	13	2.35	51	175	Conical Domed End	26.74
D200175045	4.5	13	2.35	51	175	Conical Domed End	26.74
D200175050	5	13	2.35	51	175	Conical Domed End	26.74
D200175060	6	13	2.35	51	175	Conical Domed End	26.74
D200175070	7	13	2.35	51	175	Conical Domed End	26.74
D201175060R	6	14	2.35	52	175	Conical Domed End	26.74
D201175060	6	14	2.35	52	175	Conical Domed End	26.74
D201175070	7	14	2.35	52	175	Conical Domed End	26.74
D237175060	6	11	2.35	49	175	Pear	26.74
D257175023	2.3	6	2.35	44.5	175	Bud Slender	20.69
D257175060	6	12	2.35	50	175	Bud Slender	26.74
D275175060	6	14	2.35	52	175	Bullet	26.74
D275175070	7	14	2.35	52	175	Bullet	26.74
D277175060	6	10	2.35	48	175	Egg	26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Medium Single Cut ISO 175



D001175016



D001175050



D143175060



D187175023



D199175023



D199175031



D200175040



D200175045



D200175050



D200175060



D200175070



D201175060R



D201175060



D201175070



D237175060



D257175023



D257175060



D275175060



D275175070

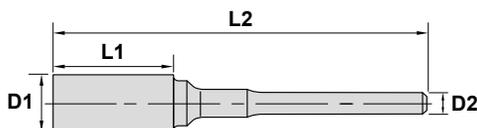


D277175060

Medium Double Cut ISO 190

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D001190014	1.4	1.25	2.35	44.5	190	Ball	20.69
D001190023	2.3	2.1	2.35	44.5	190	Ball	20.69
D001190027	2.7	2.5	2.35	44.5	190	Ball	26.74
D001190031	3.1	2.6	2.35	44.5	190	Ball	26.74
D001190040	4	3.5	2.35	41.5	190	Ball	26.74
D001190050	5	4.5	2.35	42.5	190	Ball	26.74
D001190060	6	5.5	2.35	43.5	190	Ball	26.74
D001190070	7	6.5	2.35	44.5	190	Ball	26.74
D123190023	2.3	15	2.35	44.5	190	Cylindrical Side-Cutting Only	20.69
D143190060	6	13	2.35	51	190	Cylindrical Domed End	26.74
D144190023	2.3	15	2.35	44.5	190	Cylindrical Domed End	20.69
D187190023	2.3	15	2.35	44.5	190	Conical Side-Cutting Only	20.69
D198190023	2.3	8	2.35	44.5	190	Conical Domed End (Neck)	26.74
D198190040	4	8	2.35	46	190	Conical Domed	26.74
D199190023	2.3	11.5	2.35	44.5	190	Conical Domed End (No Neck)	20.69
D199190031	3.1	11.5	2.35	44.5	190	Conical Domed End	26.74
D200190040	4	13	2.35	51	190	Conical Domed End	26.74
D200190045	4.5	13	2.35	51	190	Conical Domed End	26.74
D200190050	5	13	2.35	51	190	Conical Domed End	26.74
D200190060	6	13	2.35	51	190	Conical Domed End	26.74
D200190070	7	13	2.35	51	190	Conical Domed End	26.74
D201190060R	6	14	2.35	52	190	Conical Domed End	26.74
D201190060	6	14	2.35	52	190	Conical Domed End	26.74
D225190016	1.6	4	2.35	44.5	190	Inverted Conical	20.69
D225190023	2.3	5.5	2.35	44.5	190	Inverted Conical	26.74
D225190060	6	8	2.35	46	190	Inverted Conical	26.74
D237190060	6	11	2.35	49	190	Pear	26.74
D237190023	2.3	5.5	2.35	44.5	190	Pear	20.69
D237190029	2.9	5.5	2.35	44.5	190	Pear	26.74
D237190040	4	9	2.35	47	190	Pear	26.74
D257190023	2.3	6	2.35	44.5	190	Bud Slender	20.69
D257190040	4	9	2.35	47	190	Bud Slender	26.74
D257190060	6	12	2.35	50	190	Bud Slender	26.74
D273190040	4	9	2.35	47	190	Bullet	26.74
D275190040	4	13	2.35	51	190	Bullet	26.74
D275190060	6	14	2.35	52	190	Bullet	26.74
D275190070	7	14	2.35	52	190	Bullet	26.74
D277190023	2.3	3.8	2.35	44.5	190	Egg	20.69
D277190040	4	6	2.35	44	190	Egg	26.74
D277190060	6	10	2.35	48	190	Egg	26.74
D289190023	2.3	8	2.35	44.5	190	Torpedo Cylindrical (Neck)	20.69
D292190023	2.3	15	2.35	44.5	190	Torpedo Cylindrical (No Neck)	20.69
D110190040	4	6	2.35	44	190	Cylindrical Side and End-Cutting	26.74

CUTTING EDGE TOLERANCE < 3mm $\pm 0.1\text{mm}$
 CUTTING EDGE TOLERANCE > 3mm $\pm 0.3\text{mm}$
 2.35mm SHANK TOLERANCE $+0.000/-0.013\text{mm}$



Medium Double Cut ISO 190



Medium Double Left Cut ISO 192

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	⌘US
	D1	L1	D2	L2			
D199192023	2.3	11.5	2.35	44.5	192	Conical Domed End (No Neck)	LEFT CUT 20.69
D200192040	4	13	2.35	51	192	Conical Domed End	LEFT CUT 26.74
D292192023	2.3	15	2.35	44.5	192	Torpedo Cylindrical (No Neck)	LEFT CUT 26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Medium Straight Cut With Chipbreaker ISO 172

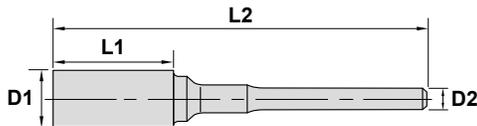
Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	⌘US
	D1	L1	D2	L2			
D199172023	2.3	11.5	2.35	44.5	172	Conical Domed End (No Neck)	20.69
D200172040	4	13	2.35	51	172	Conical Domed End	26.74
D200172060	6	13	2.35	51	172	Conical Domed End	26.74
D200172070	7	13	2.35	51	172	Conical Domed End	26.74
D201172070	7	14	2.35	52	172	Conical Domed End	26.74
D275172060	6	14	2.35	52	172	Bullet	26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Medium Single Cut With Chipbreaker ISO 176

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	⌘US
	D1	L1	D2	L2			
D200176040	4	13	2.35	51	176	Conical Domed End	26.74
D200176060	6	13	2.35	51	176	Conical Domed End	26.74
D272176016	1.6	3.5	2.35	44.5	176	Bullet	20.69
D275176060	6	14	2.35	52	176	Bullet	26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Medium Double Left Cut ISO 192



Medium Straight Cut With Chipbreaker ISO 172



Medium Single Cut With Chipbreaker ISO 176



Coarse Single Cut ISO 215

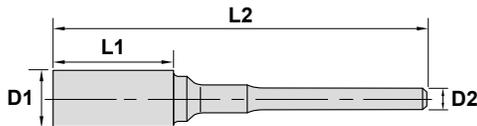
Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$US
	D1	L1	D2	L2			
D143215060	6	13	2.35	51	215	Cylindrical Domed End	26.74
D143215070	7	13	2.35	51	215	Cylindrical Domed End	26.74
D200215045	4.5	13	2.35	51	215	Conical Domed End	26.74
D200215050	5	13	2.35	51	215	Conical Domed End	26.74
D200215070	7	13	2.35	51	215	Conical Domed End	26.74
D200215060	6	13	2.35	51	215	Conical Domed End	26.74
D257215060	6	12	2.35	50	215	Bud Slender	26.74
D275215060	6	14	2.35	52	215	Bullet	26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm

Coarse Double Cut ISO 220

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$US
	D1	L1	D2	L2			
D143220060	6	13	2.35	51	220	Cylindrical Domed End	26.74
D200220045	4.5	13	2.35	51	220	Conical Domed End	26.74
D200220050	5	13	2.35	51	220	Conical Domed End	26.74
D200220060	6	13	2.35	51	220	Conical Domed End	26.74
D200220070	7	13	2.35	51	220	Conical Domed End	26.74
D201220060	6	14	2.35	52	220	Conical Domed End	26.74
D201220070	7	14	2.35	52	220	Conical Domed End	26.74
D237220060	6	11	2.35	49	220	Pear	26.74
D257220060	6	12	2.35	50	220	Bud Slender	26.74
D275220060	6	14	2.35	52	220	Bullet	26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Coarse Single Cut ISO 215



D143215060



D143215070



D200215045



D200215050



D200215070



D200215060



D257215060



D275215060

Coarse Double Cut ISO 220



D143220060



D200220045



D200220050



D200220060



D200220070



D201220060



D201220070



D237220060



D257220060

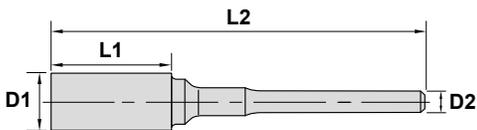


D275220060

Very Coarse Double Cut ISO 223

Part No.	Head Dia. (mm)	LOC (mm)	Shank (mm)	OAL (mm)	ISO Cut	Shape	\$/US
	D1	L1	D2	L2			
D200223050	5	13	2.35	51	223	Conical Domed End	26.74
D201223070	7	14	2.35	52	223	Conical Domed End	26.74

CUTTING EDGE TOLERANCE < 3mm ± 0.1 mm
 CUTTING EDGE TOLERANCE > 3mm ± 0.3 mm
 2.35mm SHANK TOLERANCE +0.000/-0.013mm



Very Coarse Double Cut ISO 223



D200223050



D201223070

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