



World Class Manufacturer  
of Rotary Cutting Tools



# OFX

"O" Flute Extreme

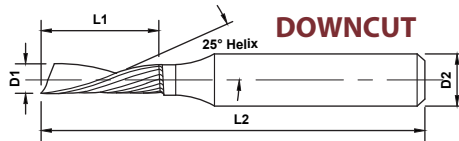
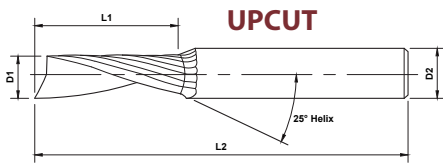
- Single "O" Flute
- Upcut or Downcut
- Fractional and Metric



# Fractional Upcut "O" Flute Extreme

# OFX

D1	L1	D2	L2	Uncoated	PowerN
1/16	1/4	1/8	2	823-002	823-002-5
1/8	1/4	1/8	2	823-004	823-004-5
1/8	1/4	1/4	2	823-006	823-006-5
1/8	1/2	1/8	2	823-008	823-008-5
1/8	1/2	1/4	2	823-010	823-010-5
5/32	9/16	1/4	2	823-012	823-012-5
3/16	3/8	3/16	2	823-014	823-014-5
3/16	5/8	3/16	2	823-016	823-016-5
3/16	3/8	1/4	2	823-018	823-018-5
3/16	1/2	1/4	2	823-020	823-020-5
3/16	5/8	1/4	2	823-022	823-022-5
3/16	7/8	1/4	2-1/2	823-042	823-042-5
3/16	1-1/4	1/4	3	823-040	823-040-5
7/32	3/4	1/4	2-1/2	823-024	823-024-5
1/4	5/8	1/4	2	823-026	823-026-5
1/4	3/4	1/4	2-1/2	823-028	823-028-5
1/4	1-1/4	1/4	3	823-030	823-030-5
3/8	1-1/8	3/8	3	823-032	823-032-5
1/2	1	1/2	3	823-034	823-034-5
1/2	2	1/2	4	823-036	823-036-5



Tolerances:

D1	+0.000° / -0.003° (+0.00mm / - 0.051mm)
D2	+0.000° / -0.003° (+0.00mm / - 0.051mm)

# Fractional Downcut "O" Flute Extreme

# OFX

D1	L1	D2	L2	Uncoated	PowerN
1/16	1/4	1/8	2	823-102	823-102-5
1/8	1/4	1/8	2	823-104	823-104-5
1/8	1/4	1/4	2	823-106	823-106-5
1/8	1/2	1/8	2	823-108	823-108-5
1/8	1/2	1/4	2	823-110	823-110-5
5/32	9/16	1/4	2	823-112	823-112-5
3/16	3/8	3/16	2	823-114	823-114-5
3/16	5/8	3/16	2	823-116	823-116-5
3/16	3/8	1/4	2	823-118	823-118-5
3/16	1/2	1/4	2	823-120	823-120-5
3/16	5/8	1/4	2	823-122	823-122-5
3/16	7/8	1/4	2-1/2	823-142	823-142-5
3/16	1-1/4	1/4	3	823-140	823-140-5
7/32	3/4	1/4	2-1/2	823-124	823-124-5
1/4	5/8	1/4	2	823-126	823-126-5
1/4	3/4	1/4	2-1/2	823-128	823-128-5
1/4	1-1/4	1/4	3	823-130	823-130-5
3/8	1-1/8	3/8	3	823-132	823-132-5
1/2	1	1/2	3	823-134	823-134-5
1/2	2	1/2	4	823-136	823-136-5

Perfect for Soft & Hard Plastics, Aluminum, and General Wood



## O Flute Extreme Routers are specially designed for High Feed Rates & High Finish.

Mastercut's O Flute Extreme is a premium router of the highest quality Submicron Grade Carbide. We manufacture our OFX tools with special flute geometry and edge preparation, proven to outperform the competition. This highly polished fluting improves chip evacuation, allowing faster feed rates and exceptionally high finish. Using the highest ISO 9001:2015 quality control practices and exclusive MAP processes, the OFX series is available in a variety of coatings: PowerA, PowerDLC, PowerT, PowerZ, and now PowerN.



**For even greater performance, specify PowerN (nACo) coating**

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



### Metric Upcut "O" Flute Extreme

# OFX

D1	L1	D2	L2	Uncoated	PowerN
3	6	3	50	923-102	923-102-5
3	12	3	50	923-104	923-104-5
5	10	5	50	923-106	923-106-5
3	6	6	50	923-108	923-108-5
3	12	6	50	923-110	923-110-5
4	14	6	50	923-112	923-112-5
5	10	6	50	923-114	923-114-5
5	16	6	50	923-116	923-116-5
3	12	6	63	923-118	923-118-5
4	12	6	63	923-120	923-120-5
6	19	6	63	923-122	923-122-5
6	30	6	75	923-124	923-124-5
10	28	10	75	923-126	923-126-5
8	25	8	63	923-128	923-128-5
8	38	8	75	923-130	923-130-5

### Metric Downcut "O" Flute Extreme

# OFX

D1	L1	D2	L2	Uncoated	PowerN
3	6	3	50	923-002	923-002-5
3	12	3	50	923-004	923-004-5
5	10	5	50	923-006	923-006-5
3	6	6	50	923-008	923-008-5
3	12	6	50	923-010	923-010-5
4	14	6	50	923-012	923-012-5
5	10	6	50	923-014	923-014-5
5	16	6	50	923-016	923-016-5
3	12	6	63	923-018	923-018-5
4	12	6	63	923-020	923-020-5
6	19	6	63	923-022	923-022-5
6	30	6	75	923-024	923-024-5
8	25	8	63	923-028	923-028-5
8	38	8	75	923-030	923-030-5

## Mastercut Premier Coating Options

With Mastercut's advanced coating technologies, your tool life will increase up to 10 times. Experience improved finishes with increased speed and feed rates by 30-200%. Mastercut offers a full range of coatings, see below. Call for a quote today!



### PowerT (Titanium Nitride, TiN)

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



### PowerC (Titanium Carbon Nitride, TiCN)

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



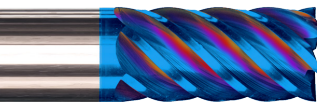
### PowerA (Aluminum Titanium Nitride, AlTiN)

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



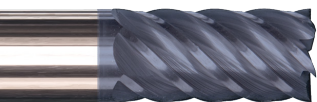
### PowerZ (Zirconium Nitride, ZrN)

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-Si<sup>3</sup>N<sup>4</sup>)

Color: varying shades of blue-gray; blue-based color dissipates immediately upon use.  
Vickers Hardness: approximately 4,500 Vickers  
Outstanding performance in superalloys, hard material machining, high heat applications and best when used with very rigid setup.



### PowerNR (nACRo) nano-composite (nc-AlCrN/a-Si<sup>3</sup>N<sup>4</sup>)

Color: gray  
Vickers Hardness: 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)

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)

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

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