



INTRODUCING...

X-MILL
Patent Pending

**REVOLUTIONIZING
THE WAY END MILLS
ARE MADE.**

DEBOERTOOL
CUTTING TOOL EXCELLENCE

"Milling flame cut 4140, the X-Mill improved tool life by over 145% over the 'world leader in variable flute end mills'. UNBELIEVABLE!"

BP, Brampton ON

"We are roughing a steel casting... the X-Mill makes 1500 pcs, we were changing the indexables every 100 pieces (\$100 / 1000 pcs) so the X-Mill is faster, much quieter, cheaper and a the tighter tolerance is much more consistently held."

JB, Winnipeg MB

"After years of running this stainless steel job, this is the first tool to replace 'the world leader in variable helix end mills' I have been using. The X-Mill matched their performance at a reduced cost!"

JM, Toronto ON

Traditional tools are no longer sufficient for today's demanding applications. A new breed of tools are rising to meet the challenge, greatly improving productivity and profitability!

- ✕ **Exceptional material removal rates**
- ✕ **Excellent surface finishes**
- ✕ **Extended tool life**

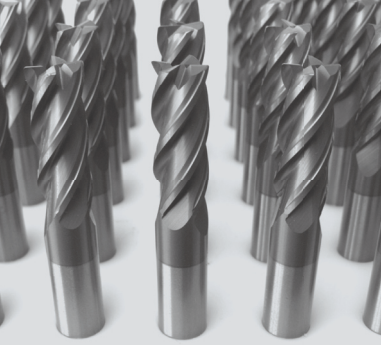
- The X-Mill is suited for milling titanium, stainless steel, low carbon steels, high temperature alloys, cast iron and many more.
- Primarily designed for roughing, The X-Mill's unique built-in vibration dampening technology dramatically extends tool life while leaving an excellent surface finish.
- New high performance **Swiss Technology** coating designed for ultra-aggressive milling that resists heat build up in extreme conditions.
- The X-Mill can be reground back to original specifications with our full remanufacturing process.
- World class patent pending technology from a Canadian manufacturer.

Backed by our **Performance Guarantee**, try one today!

Visit us at WWW.DEBOERTOOL.COM
or call us at **1-888-4-DE-BOER**

DEBOERTOOL
CUTTING TOOL EXCELLENCE





INTRODUCING...

X-MILL
Patent Pending

**REVOLUTIONIZING
THE WAY END MILLS
ARE MADE.**

DEBOERTOOL
CUTTING TOOL EXCELLENCE

STUB LENGTH High Performance 4 Flute

- **Patent Pending** Varying Flute Geometry
- Dramatically increased tool life
- Roughing and Finishing
- NEW High performance coating
- Higher feed rates
- Higher metal removal rates
- Improved surface finishes

Flat Bottom

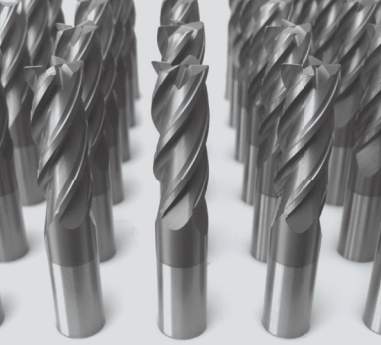
Cutting Diameter	Shank Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	.17	.17	1.5	Sharp	\$13.17	600-0125-401X
3/16	3/16	.24	.24	2	Sharp	\$17.06	600-0187-401X
1/4	1/4	.32	.32	2	Sharp	\$20.72	600-0250-401X
5/16	5/16	.40	.40	2	Sharp	\$26.27	600-0312-401X
3/8	3/8	.44	.44	2	Sharp	\$33.48	600-0375-401X
1/2	1/2	.60	.60	2.5	Sharp	\$51.11	600-0500-401X
5/8	5/8	.72	.72	3	Sharp	\$93.48	600-0625-401X
3/4	3/4	.90	.90	4	Sharp	\$150.09	600-0750-401X

Corner Radius

Cutting Diameter	Shank Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	0.170	0.170	1.5	0.008	\$13.86	600-0125-4R08X
3/16	3/16	0.240	0.240	2	0.010	\$18.06	600-0187-4R10X
1/4	1/4	0.320	0.320	2	0.010	\$21.66	600-0250-4R10X
5/16	5/16	0.400	0.400	2	0.015	\$27.93	600-0312-4R15X
3/8	3/8	0.440	0.440	2	0.020	\$35.93	600-0375-4R20X
1/2	1/2	0.600	0.600	2.5	0.020	\$53.84	600-0500-4R20X
5/8	5/8	0.720	0.720	3	0.025	\$97.32	600-0625-4R25X
3/4	3/4	0.900	0.900	4	0.030	\$154.42	600-0750-4R30X

Ball Nose

Cutting Diameter	Shank Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	0.170	0.170	1.5	Ball	\$14.20	600-0125-402X
3/16	3/16	0.240	0.240	2	Ball	\$19.06	600-0187-402X
1/4	1/4	0.320	0.320	2	Ball	\$22.09	600-0250-402X
5/16	5/16	0.400	0.400	2	Ball	\$28.87	600-0312-402X
3/8	3/8	0.440	0.440	2	Ball	\$37.90	600-0375-402X
1/2	1/2	0.600	0.600	2.5	Ball	\$55.88	600-0500-402X
5/8	5/8	0.720	0.720	3	Ball	\$98.09	600-0625-402X
3/4	3/4	0.900	0.900	4	Ball	\$155.72	600-0750-402X



INTRODUCING...

X-MILL
Patent Pending

**REVOLUTIONIZING
THE WAY END MILLS
ARE MADE.**

DEBOERTOOL
CUTTING TOOL EXCELLENCE

STANDARD LENGTH High Performance 4 Flute

- **Patent Pending** Varying Flute Geometry
- Dramatically increased tool life
- Roughing and Finishing
- NEW High performance coating
- Higher feed rates
- Higher metal removal rates
- Improved surface finishes

Flat Bottom

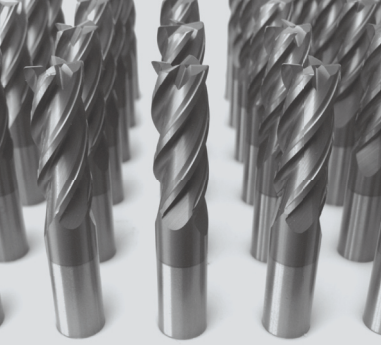
Cutting Diameter	Shank Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	.30	.30	1.5	Sharp	\$13.60	601-0125-401X
3/16	3/16	.42	.42	2	Sharp	\$18.06	601-0187-401X
1/4	1/4	.57	.57	2.5	Sharp	\$22.73	601-0250-401X
5/16	5/16	.70	.70	2.5	Sharp	\$30.00	601-0312-401X
3/8	3/8	.83	.83	2.5	Sharp	\$37.15	601-0375-401X
1/2	1/2	1.10	1.10	3	Sharp	\$60.61	601-0500-401X
1/2	1/2	1.32	1.32	3.5	Sharp	\$68.23	602-0500-401X
5/8	5/8	1.36	1.36	3.5	Sharp	\$109.14	601-0625-401X
3/4	3/4	1.65	1.65	4	Sharp	\$160.92	601-0750-401X
1	1	1.60	1.60	4	Sharp	\$236.69	601-1000-401X

Corner Radius

Cutting Diameter	Shank Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	0.300	0.300	1.5	0.008	\$14.28	601-0125-4R08X
3/16	3/16	0.420	0.420	2	0.010	\$19.06	601-0187-4R10X
1/4	1/4	0.570	0.570	2.5	0.010	\$23.66	601-0250-4R10X
5/16	5/16	0.700	0.700	2.5	0.015	\$31.90	601-0312-4R15X
3/8	3/8	0.830	0.830	2.5	0.020	\$39.62	601-0375-4R20X
1/2	1/2	1.100	1.100	3	0.020	\$63.36	601-0500-4R20X
1/2	1/2	1.320	1.320	3.5	0.020	\$70.99	602-0500-4R20X
5/8	5/8	1.360	1.360	3.5	0.025	\$112.99	601-0625-4R25X
3/4	3/4	1.650	1.650	4	0.030	\$165.25	601-0750-4R30X
1	1	1.600	1.600	4	0.030	\$244.05	601-1000-4R30X

Ball Nose

Cutting Diameter	Shank Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	0.300	0.300	1.5	Ball	\$14.63	601-0125-402X
3/16	3/16	0.420	0.420	2	Ball	\$20.05	601-0187-402X
1/4	1/4	0.570	0.570	2.5	Ball	\$24.10	601-0250-402X
5/16	5/16	0.700	0.700	2.5	Ball	\$32.84	601-0312-402X
3/8	3/8	0.830	0.830	2.5	Ball	\$40.60	601-0375-402X
1/2	1/2	1.100	1.100	3	Ball	\$64.04	601-0500-402X
1/2	1/2	1.320	1.320	3.5	Ball	\$71.68	602-0500-402X
5/8	5/8	1.360	1.360	3.5	Ball	\$113.76	601-0625-402X
3/4	3/4	1.650	1.650	4	Ball	\$166.54	601-0750-402X
1	1	1.600	1.600	4	Ball	\$247.75	601-1000-402X



INTRODUCING...

X-MILL
Patent Pending

**REVOLUTIONIZING
THE WAY END MILLS
ARE MADE.**

DEBOERTOOL
CUTTING TOOL EXCELLENCE

Long/XLong LENGTH High Performance 4 Flute

- **Patent Pending** Varying Flute Geometry
- Dramatically increased tool life
- Roughing and Finishing
- NEW High performance coating
- Higher feed rates
- Higher metal removal rates
- Improved surface finishes

Corner Radius

Cutting Diameter	Shank Diameter	Neck Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	0.118	0.170	0.550	1.5	0.008	\$14.48	607-0125-4R08X
3/16	3/16	0.180	0.240	0.820	2.5	0.010	\$20.23	607-0187-4R10X
1/4	1/4	0.240	0.350	0.830	3	0.010	\$26.03	606-0250-4R10X
1/4	1/4	0.240	0.350	1.350	3	0.010	\$26.39	607-0250-4R10X
5/16	5/16	0.300	0.430	1.100	3	0.015	\$35.95	606-0312-4R15X
5/16	5/16	0.300	0.430	1.600	4	0.015	\$40.77	607-0312-4R15X
3/8	3/8	0.360	0.550	1.600	3	0.020	\$44.57	606-0375-4R20X
3/8	3/8	0.360	0.550	2.100	4	0.020	\$51.86	607-0375-4R20X
1/2	1/2	0.480	0.850	2.100	4	0.020	\$71.29	607-0500-4R20X
1/2	1/2	0.480	0.850	3.100	5	0.020	\$84.62	608-0500-4R20X
5/8	5/8	0.600	0.900	2.150	4	0.025	\$114.34	606-0625-4R25X
5/8	5/8	0.600	0.900	3.100	6	0.025	\$141.89	607-0625-4R25X
3/4	3/4	0.720	1.150	2.150	5	0.030	\$179.22	607-0750-4R30X
3/4	3/4	0.720	1.150	3.150	6	0.030	\$201.88	608-0750-4R30X
1	1	0.960	1.300	3.100	5	0.030	\$279.84	607-1000-4R30X
1	1	0.960	1.300	4.100	6	0.030	\$300.88	608-1000-4R30X

Ball Nose

Cutting Diameter	Shank Diameter	Neck Diameter	Length of Cut	Length of Reach	Overall Length	Rad Size	LIST Price	Part Number
1/8	1/8	0.118	0.170	0.550	1.5	Ball	\$14.82	607-0125-402X
3/16	3/16	0.180	0.240	0.820	2.5	Ball	\$21.24	607-0187-402X
1/4	1/4	0.240	0.350	0.830	3	Ball	\$26.47	606-0250-402X
1/4	1/4	0.240	0.350	1.350	3	Ball	\$26.83	607-0250-402X
5/16	5/16	0.300	0.430	1.100	3	Ball	\$36.90	606-0312-402X
5/16	5/16	0.300	0.430	1.600	4	Ball	\$41.74	607-0312-402X
3/8	3/8	0.360	0.550	1.600	3	Ball	\$45.56	606-0375-402X
3/8	3/8	0.360	0.550	2.100	4	Ball	\$52.86	607-0375-402X
1/2	1/2	0.480	0.850	2.100	4	Ball	\$71.84	607-0500-402X
1/2	1/2	0.480	0.850	3.100	5	Ball	\$85.18	608-0500-402X
5/8	5/8	0.600	0.900	2.150	4	Ball	\$116.67	606-0625-402X
5/8	5/8	0.600	0.900	3.100	6	Ball	\$144.26	607-0625-402X
3/4	3/4	0.720	1.150	2.150	5	Ball	\$182.72	607-0750-402X
3/4	3/4	0.720	1.150	3.150	6	Ball	\$205.41	608-0750-402X
1	1	0.960	1.300	3.100	5	Ball	\$284.71	607-1000-402X
1	1	0.960	1.300	4.100	6	Ball	\$305.78	608-1000-402X