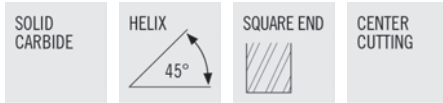


NIAGARA CUTTER™ SOLID END MILLING PROMOTION

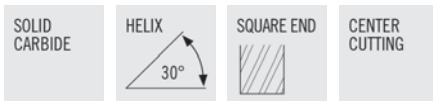
ELITE HIGH PERFORMANCE- A245



- Cylindrical land to eliminate chatter
- Form ground flute shape, Eccentric primary relief
- Ideal for slotting in aluminum and non-ferrous materials

DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	EDP	LIST PRICE	SELL PRICE
A245-0.125-D3-S.0-Z2	1/8	1/8	3/8	1-1/2	2	N61351	\$0.00	\$0.00
A245-0.188-D3-S.0-Z2	3/16	3/16	9/16	2	2	N61355	\$0.00	\$0.00
A245-0.250-D3-S.0-Z2	1/4	1/4	3/4	2-1/2	2	N61359	\$0.00	\$0.00
A245-0.313-D4-S.0-Z2	5/16	5/16	1-1/4	3-1/2	2	N61365	\$0.00	\$0.00
A245-0.375-D4-S.0-Z2	3/8	3/8	1-1/2	4	2	N61371	\$0.00	\$0.00
A245-0.500-D4-S.0-Z2	1/2	1/2	2	4	2	N61380	\$0.00	\$0.00
A245-0.625-D4-S.0-Z2	5/8	5/8	2-1/2	5	2	N61384	\$0.00	\$0.00
A245-0.750-D4-S.0-Z2	3/4	3/4	3-1/4	6	2	N61389	\$0.00	\$0.00

GENERAL PURPOSE- C430M



DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	EDP	LIST PRICE	SELL PRICE
C430M-030-D4-S.0-Z4	3mm	3mm	12mm	39mm	4	AlTiN	N46420	\$0.00	\$0.00
C430M-040-D4-S.0-Z4	4mm	4mm	14mm	51mm	4	AlTiN	N46424	\$0.00	\$0.00
C430M-050-F3-S.0-Z4	5mm	6mm	16mm	51mm	4	AlTiN	N46428	\$0.00	\$0.00
C430M-060-D3-S.0-Z4	6mm	6mm	19mm	51mm	4	AlTiN	N46430	\$0.00	\$0.00
C430M-080-D2-S.0-Z4	8mm	8mm	20mm	64mm	4	AlTiN	N46434	\$0.00	\$0.00
C430M-100-D2-S.0-Z4	10mm	10mm	22mm	73mm	4	AlTiN	N46438	\$0.00	\$0.00
C430M-120-D2-S.0-Z4	12mm	12mm	25mm	74mm	4	AlTiN	N46442	\$0.00	\$0.00

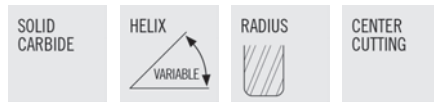
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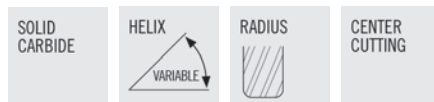
STABILIZER™ GP- STR430



- Eccentric primary relief
- Asymmetrical flute geometry
- Weldon flat standard on shank sizes 3/8" and larger
- US Patent # 6,991,409
- Ideal for carbon steels, alloy steels, tool steels, cast iron, copper

DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	RADIUS	EDP	LIST PRICE	SELL PRICE
STR430-0.125-D3-R010.0-Z4	1/8	1/8	3/8	1-1/2	4	AlTiN	0.010	N60680	\$0.00	\$0.00
STR430-0.188-D2-R010.0-Z4	3/16	3/16	7/16	2	4	AlTiN	0.010	N60684	\$0.00	\$0.00
STR430-0.250-D2-R020.0-Z4	1/4	1/4	1/2	2-1/2	4	AlTiN	0.020	N60688	\$0.00	\$0.00
STR430-0.313-D3-R020.0-Z4	5/16	5/16	13/16	2-1/2	4	AlTiN	0.020	N60691	\$0.00	\$0.00
STR430-0.375-D2-R020.3-Z4	3/8	3/8	7/8	2-1/2	4	AlTiN	0.020	N60694	\$0.00	\$0.00
STR430-0.438-D2-R020.3-Z4	7/16	7/16	1	2-3/4	4	AlTiN	0.020	N60697	\$0.00	\$0.00
STR430-0.500-D2-R030.3-Z4	1/2	1/2	1	3	4	AlTiN	0.030	N60700	\$0.00	\$0.00
STR430-0.625-D2-R030.3-Z4	5/8	5/8	1-1/4	3-1/2	4	AlTiN	0.030	N60703	\$0.00	\$0.00
STR430-0.750-D2-R030.3-Z4	3/4	3/4	1-1/2	4	4	AlTiN	0.030	N60705	\$0.00	\$0.00
STR430-1.000-D2-R030.3-Z4	1	1	1-1/2	4	4	AlTiN	0.030	N60707	\$0.00	\$0.00

STABILIZER™- STR540



- Asymmetrical flute geometry
- US Patent # 6,991,409
- Ideal for profiling, high speed and trochoidal milling, stainless, titanium, high temperature alloys, carbon, alloy and tool steels

DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	RADIUS	EDP	LIST PRICE	SELL PRICE
STR540-0.250-D3-R015.0-Z5	1/4	1/4	3/4	2-1/2	5	AlCrN	0.015	N68632	\$0.00	\$0.00
STR540-0.375-D2-R015.0-Z5	3/8	3/8	7/8	2-1/2	5	AlCrN	0.015	N68634	\$0.00	\$0.00
STR540-0.500-D3-R030.0-Z5	1/2	1/2	1-1/4	3	5	AlCrN	0.030	N68642	\$0.00	\$0.00
STR540-0.625-D2-R030.0-Z5	5/8	5/8	1	3-1/2	5	AlCrN	0.030	N68643	\$0.00	\$0.00
STR540-0.750-D2-R030.0-Z5	3/4	3/4	1-1/2	4	5	AlCrN	0.030	N68644	\$0.00	\$0.00

Promotion good thru 2.28.2015

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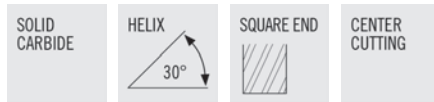
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MICRO END MILLS- ME430

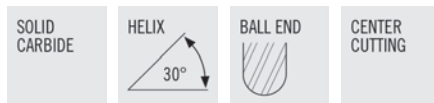


- Sub micron grain carbide
- .005" - .055" in .001" increments
- .060" - .120" in .005" increments



DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	EDP	LIST PRICE	SELL PRICE
ME430-0.005-F3-S.0-Z4	.005	1/8	.0150	1-1/2	4		N59795	\$0.00	\$0.00
ME430-0.010-F3-S.0-Z4	.010	1/8	.0300	1-1/2	4		N59800	\$0.00	\$0.00
ME430-0.012-F3-S.0-Z4	.012	1/8	.0360	1-1/2	4		N59802	\$0.00	\$0.00
ME430-0.016-F3-S.0-Z4	.016	1/8	.0480	1-1/2	4		N59806	\$0.00	\$0.00
ME430-0.020-F3-S.0-Z4	.020	1/8	.0600	1-1/2	4		N59810	\$0.00	\$0.00
ME430-0.024-F3-S.0-Z4	.024	1/8	.0720	1-1/2	4		N59814	\$0.00	\$0.00
ME430-0.032-F3-S.0-Z4	.032	1/8	.0960	1-1/2	4		N59822	\$0.00	\$0.00
ME430-0.040-F3-S.0-Z4	.040	1/8	.1200	1-1/2	4		N59830	\$0.00	\$0.00

MICRO END MILLS- MEB430

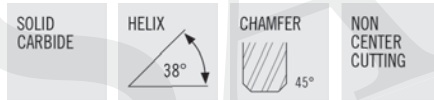


- Sub micron grain carbide
- .005" - .055" in .001" increments
- .060" - .120" in .005" increments



DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	EDP	LIST PRICE	SELL PRICE
MEB430-0.016-F3-B.0-Z4	.016	1/8	.0480	1-1/2	4		N59860	\$0.00	\$0.00
MEB430-0.020-F3-B.0-Z4	.020	1/8	.0600	1-1/2	4		N59864	\$0.00	\$0.00
MEB430-0.024-F3-B.0-Z4	.024	1/8	.0720	1-1/2	4		N59868	\$0.00	\$0.00
MEB430-0.032-F3-B.0-Z4	.032	1/8	.0960	1-1/2	4		N59876	\$0.00	\$0.00

SOLID CARBIDE END MILLS- S938



- Unequal Indexing
- Designed for high speed milling, smoother cutting performance, improved workpiece surface finish and increased feed rates
- Designed for titanium and aerospace materials



DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	CHAMFER	EDP	LIST PRICE	SELL PRICE
S938-0.625-D1-C008.0-Z9	5/8	5/8	3/4	3	9	AlTiN	0.008	N58274	\$0.00	\$0.00
S938-0.625-D3-C008.0-Z9	5/8	5/8	1-5/8	4	9	AlTiN	0.008	N58279	\$0.00	\$0.00
S938-0.625-D4-C008.0-Z9	5/8	5/8	2-1/2	5	9	AlTiN	0.008	N58284	\$0.00	\$0.00
S938-0.750-D2-C010.0-Z9	3/4	3/4	1-5/8	4	9	AlTiN	0.010	N58289	\$0.00	\$0.00
S938-0.750-D3-C010.0-Z9	3/4	3/4	2-1/4	5	9	AlTiN	0.010	N58294	\$0.00	\$0.00
S938-0.750-D4-C010.0-Z9	3/4	3/4	3-1/4	6	9	AlTiN	0.010	N58299	\$0.00	\$0.00
S938-1.000-D2-C012.0-Z9	1	1	2	5	9	AlTiN	0.012	N58304	\$0.00	\$0.00
S938-1.000-D3-C012.0-Z9	1	1	3-1/4	6	9	AlTiN	0.012	N58309	\$0.00	\$0.00
S938-1.000-D4-C012.0-Z9	1	1	4-1/8	7	9	AlTiN	0.012	N58314	\$0.00	\$0.00

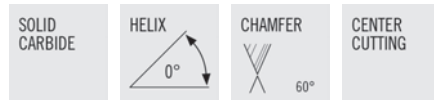
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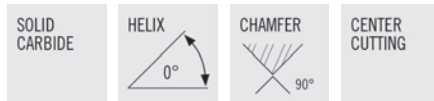
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CHAMFER- CM460, CM490



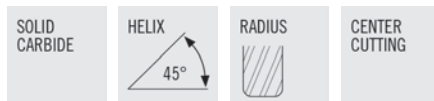
DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	CHAMFER	EDP	LIST PRICE	SELL PRICE
CM460-0.250-D1-C.0-Z4	1/4	1/4	3/16	2-1/2	4	TiAIN	60	N76596	\$0.00	\$0.00
CM460-0.375-D1-C.0-Z4	3/8	3/8	5/16	2-1/2	4	TiAIN	60	N76597	\$0.00	\$0.00
CM460-0.500-D1-C.0-Z4	1/2	1/2	7/16	3	4	TiAIN	60	N76598	\$0.00	\$0.00

CHAMFER- CM490



DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	CHAMFER	EDP	LIST PRICE	SELL PRICE
CM490-0.250-D1-C.0-Z4	1/4	1/4	1/8	2-1/2	4	TiAIN	90	N76600	\$0.00	\$0.00
CM490-0.375-D1-C.0-Z4	3/8	3/8	3/16	2-1/2	4	TiAIN	90	N76601	\$0.00	\$0.00
CM490-0.500-D1-C.0-Z4	1/2	1/2	1/4	3	4	TiAIN	90	N76602	\$0.00	\$0.00

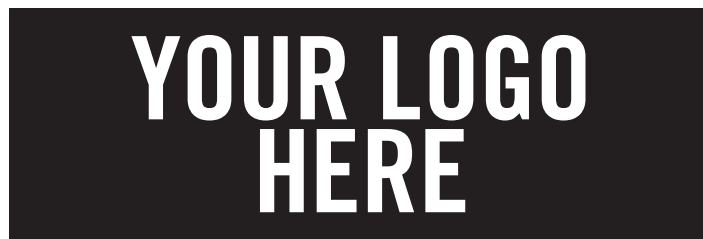
MOLD AND DIE- MZ645R



- Ideal for peripheral milling of hard steels up to 62HRc

DESCRIPTION	FLUTE DIA	SHANK DIA	LENGTH OF CUT	OVERALL LENGTH	NO. OF FLUTES	COATING	RADIUS	EDP	LIST PRICE	SELL PRICE
MZ645R-0.125-F3-R020.0-Z6	1/8	1/4	3/8	3	6	AlTiN	0.020	N76616	\$0.00	\$0.00
MZ645R-0.188-F3-R020.0-Z6	3/16	1/4	1/2	3	6	AlTiN	0.020	N76618	\$0.00	\$0.00
MZ645R-0.250-D3-R020.0-Z6	1/4	1/4	5/8	3	6	AlTiN	0.020	N76620	\$0.00	\$0.00
MZ645R-0.313-D2-R020.0-Z6	5/16	5/16	3/4	3	6	AlTiN	0.020	N76622	\$0.00	\$0.00
MZ645R-0.375-D3-R020.0-Z6	3/8	3/8	1	3	6	AlTiN	0.020	N76624	\$0.00	\$0.00
MZ645R-0.500-D2-R030.0-Z6	1/2	1/2	1-1/8	4	6	AlTiN	0.030	N76626	\$0.00	\$0.00

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