

P M S K

HPC MILLING

**High metal removal &
anti-vibration milling**

3 Flute P 16

4 Flute P 17-22

5 Flute P 23

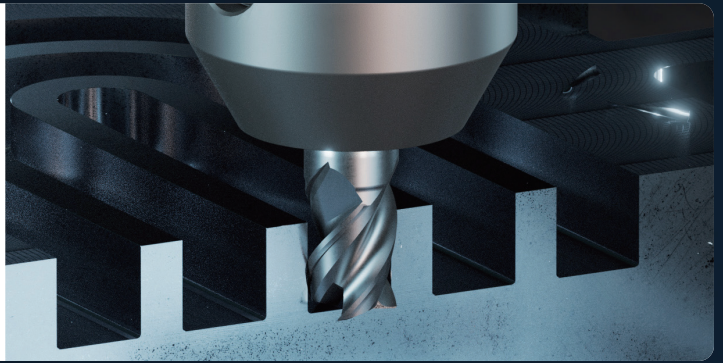
- ✓ 3-5 flute variable & multiple helix end mills
- ✓ For roughing & semi-finishing applications
- ✓ Excellent performance in steel <HRC40, stainless steel, titanium, inconel & cast iron machining
- ✓ Aggressive feed rates with large cut depths

HPC MILLING HIGHLIGHTS

WEG EV MILLS

Stop paying for carbide you never use. EV Mills variable helix stub design reduce your costs on <1.2xD jobs.

P M S K



WEG V7 Plus 4 FLUTE

V7+ minimises vibration issues for stable, high-metal removal machining performance.

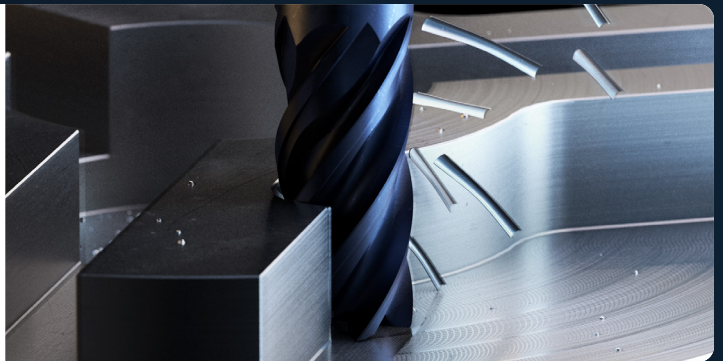
P M S K



WEG TitaNox 4 FLUTE

Titanox speeds up production in titanium and sticky stainless by maintaining controlled chip flow, preventing premature tool failure.

P M S



WEG TitaNox 5 FLUTE

Get the highest metal removal rates on stainless steel & exotics without compromising on tool life.

P M S



WEG K-2 MULTIPLE HELIX

Improve your productivity in general purpose milling with double the tool life & larger cut depths.

P M K



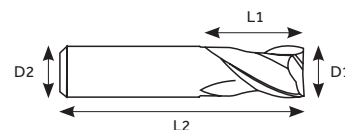


High Performance

3 FLUTE VARIABLE HELIX CARBIDE END MILL (STUB LENGTH)

Economic High Performance Machining of Steels <HRC40, Stainless Steel, HRSA's, Cast Iron

- The EV Mill 3 flute geometry is a stub length high performance all-rounder with exceptional stability
- The 3 flute design enables better chip control in pocketing and slotting applications
- Featuring 1 edge to centre, ideal for plunging and ramping
- Variable and multiple helix + unequal flute spacing eliminates vibration
- Depth of cut slotting: $0.8 \times D \text{ Ap}$ / side cutting: $0.5 \times D \text{ Ae} \times 1 \times D \text{ Ap}$



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	D2	L1	L2	Order Code	
				Plain Shank	Weldon Shank
2	6	4.5	38	GMK58020	GMK59020
3	6	5.5	38	GMK58030	GMK59030
4	6	7.5	38	GMK58040	GMK59040
5	6	9	38	GMK58050	GMK59050
6	6	9	38	GMK58060	GMK59060
8	8	12	43	GMK58080	GMK59080
10	10	14	50	GMK58100	GMK59100
12	12	16.5	55	GMK58120	GMK59120

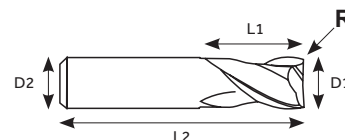


High Performance

3 FLUTE VARIABLE HELIX CARBIDE END MILL (STUB LENGTH) KEYWAY MILL

Economic High Performance Machining of Steels <HRC40, Stainless Steel, HRSA's, Cast Iron

- Undersized end mills designed for keyway milling to DIN 6885 standard. Ramping, roughing, slotting & finishing with 1 tool
- The EV Mill 3 flute geometry is a stub length high performance all-rounder with exceptional stability
- The 3 flute design enables better chip control in pocketing and slotting applications
- Featuring 1 edge to centre, ideal for plunging and ramping
- Variable and multiple helix + unequal flute spacing eliminates vibration
- Depth of cut slotting: $0.8 \times D \text{ Ap}$ / side cutting: $0.5 \times D \text{ Ae} \times 1 \times D \text{ Ap}$



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	R	D2	L1	L2	Order Code	
					Plain Shank	Weldon Shank
1.8	0.12	6	4.5	38	GMK60018	GMK61018
2.8		6	5.5	38	GMK60028	GMK61028
3.8		6	7.5	38	GMK60038	GMK61038
4.8	0.2	6	9	38	GMK60048	GMK61048
5.75		6	9	38	GMK600575	GMK610575
7.75		8	12	43	GMK600775	GMK610775
9.7	0.33	10	14	50	GMK60097	GMK61097
11.7		12	16.5	55	GMK60117	GMK61117

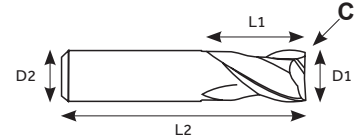


High Performance

4 FLUTE VARIABLE HELIX CARBIDE END MILL (STUB LENGTH)

Economic High Performance Machining of Steels <HRC40, Stainless Steel, HRSA's, Cast Iron

- The EV Mill 4 flute geometry is a stub length high performance all-rounder with exceptional stability
- Featuring 2 edges to centre, ideal for plunging and ramping
- Variable and multiple helix + unequal flute spacing eliminates vibration
- Chamfer edge prep to protect against chipping
- Excellent performance in roughing and finishing applications
- Depth of cut slotting: $0.8 \times D \text{ Ap}$ / side cutting: $0.5 \times D \text{ Ae} \times 1 \times D \text{ Ap}$



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	D2	L1	L2	C	Order Code	
					Plain Shank	Weldon Shank
2	6	4.5	38	0.1	GMK63020	GMK64020
3	6	5.5	38	0.1	GMK63030	GMK64030
4	6	7.5	38	0.15	GMK63040	GMK64040
5	6	9	38	0.15	GMK63050	GMK64050
6	6	9	38	0.2	GMK63060	GMK64060
8	8	12	43	0.2	GMK63080	GMK64080
10	10	14	50	0.3	GMK63100	GMK64100
12	12	16.5	55	0.35	GMK63120	GMK64120

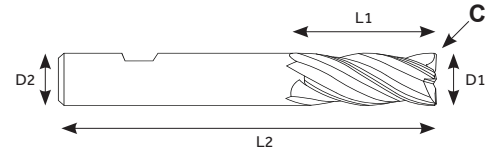
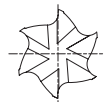


General Purpose

4 FLUTE MULTIPLE HELIX HPC CARBIDE END MILL (SEMI-RIPPER)

Vibration Free Milling, Medium-High Metal Removal Rates for Steel <HRC35, Stainless & Cast Iron

- Bridging the gap between general purpose and high performance machining
- Good cost/performance ratio
- Designed for vibration free semi-rough multi-material milling
- Multiple helix gives optimal chip formation and evacuation
- Suitable for slotting and profiling
- Chamfer corner prep prevents tool chipping
- Depth of cut slotting: $0.8 \times D \text{ Ap}$ / side cutting: $0.3 \times D \text{ Ae} \times 1.5 \times D \text{ Ap}$



Carbon & Alloy Steels <HRC35	Stainless Steel	Cast Iron
●	●	●

D1	D2	L1	L2	C	Order Code
3	6	5	50	0.1	G9H74030N
		8	57		G9H76030N
4	6	8	54	0.15	G9H74040N
		11	57		G9H76040N
5	6	9	54	0.15	G9H74050N
		13	57		G9H76050N
6	6	10	54	0.2	G9H74060N
		13	57		G9H76060N
8	8	12	58	0.2	G9H74080N
		19	63		G9H76080N
10	10	14	66	0.3	G9H74100N
		22	72		G9H76100N
12	12	16	73	0.35	G9H74120N
		26	83		G9H76120N
16	16	22	82	0.4	G9H74160N
		32	92		G9H76160N
20	20	26	92	0.5	G9H74200N
		38	104		G9H76200N

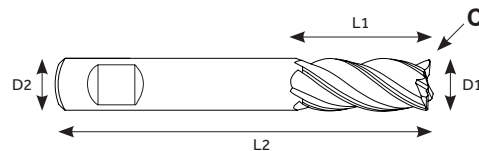
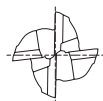


High Performance

4 FLUTE MULTIPLE HELIX HPC CARBIDE END MILL

HPC High Metal All-Rounder End Mill - For Steel <HRC40, Stainless Steel, HRSA's & Cast Iron

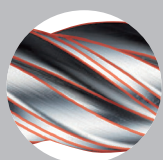
- V7+ offers exceptional metal removal rates and tool life across a wide range of metals
- Y1200 coated ultrafine micrograin carbide
- Chamfer corner protection to prevent against tool chipping
- Special flute geometry and multiple helix eliminates vibration
- Unequal flute spacing reduces harmonics
- Depth of cut slotting: $1 \times D \text{ Ap}$ / side cutting: $0.5 \times D \text{ Ae} \times 1.5 \times D \text{ Ap}$



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	D2	L1	L2	C	Order Code	
					Plain Shank	Weldon Shank
3	6	7	54	0.1	GMF52030	GMF53030
		8	57		GMF56030	GMF57030
4	6	8	54	0.15	GMF52040	GMF53040
		11	57		GMF56040	GMF57040
5	6	10	54	0.15	GMF52050	GMF53050
		13	57		GMF56050	GMF57050
6	6	10	54	0.2	GMF52060	GMF53060
		13	57		GMF56060	GMF57060
8	8	12	58	0.2	GMF52080	GMF53080
		19	63		GMF56080	GMF57080
10	10	14	66	0.3	GMF52100	GMF53100
		22	72		GMF56100	GMF57100
12	12	16	73	0.35	GMF52120	GMF53120
		26	83		GMF56120	GMF57120
14	14	18	75	0.4	GMF52140	GMF53140
		26	83		GMF56140	GMF57140
16	16	22	82	0.4	GMF52160	GMF53160
		32	92		GMF56160	GMF57160
18	18	24	84	0.5	GMF52180	GMF53180
		32	92		GMF56180	GMF57180
20	20	26	92	0.5	GMF52200	GMF53200
		38	104		GMF56200	GMF57200
25	25	38	104	0.5	GMF56250	GMF57250

HPC MILLING



MULTIPLE HELIX DESIGN

The multiple helix design gives the end mill extra strength in both semi-roughing and finishing conditions, enabling heavier cutting and reducing vibration. The reduced vibration increases tool life and improves surface finish.

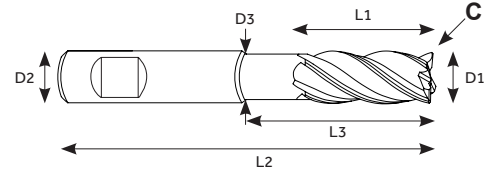
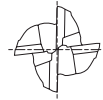


High Performance

4 FLUTE MULTIPLE HELIX HPC CARBIDE NECKED END MILL

HPC High Metal All-Rounder End Mill - For Steel <HRC40, Stainless Steel, HRSA's & Cast Iron

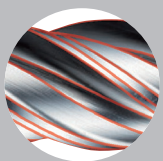
- V7+ offers exceptional metal removal rates and tool life across a wide range of metals in roughing & finishing applications
- Y1200 coated ultrafine micrograin carbide
- Chamfer corner protection to prevent against tool chipping
- Special flute geometry and multiple helix eliminates vibration
- Unequal flute spacing reduces harmonics
- Depth of cut slotting: 1xD Ap / side cutting: 0.5xD Ae X 1.5xD Ap



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	D2	D3	L1	L2	L3	C	Order Code	
							Plain Shank	Weldon Shank
3	6	2.7	7	54	12	0.1	GMF60030	GMF61030
			7	57	17		GMF60901	GMF61901
			8	57	14		GMF60902	GMF61902
4	6	3.7	8	57	15	0.15	GMF60040	GMF61040
			8	63	22		GMF60903	GMF61903
			11	57	16		GMF60904	GMF61904
5	6	4.7	10	57	17	0.15	GMF60050	GMF61050
			10	67	27		GMF60905	GMF61905
			13	57	18		GMF60906	GMF61906
6	6	5.5	10	57	15	0.2	GMF60060	GMF61060
			10	62	20		GMF60907	GMF61907
			10	74	32		GMF60908	GMF61908
			13	57	21		GMF60909	GMF61909
8	8	7.5	12	63	20	0.2	GMF60080	GMF61080
			12	73	30		GMF60910	GMF61910
			12	90	46		GMF60911	GMF61911
			19	63	27		GMF60912	GMF61912
10	10	9.2	14	72	25	0.3	GMF60100	GMF61100
			14	82	35		GMF60913	GMF61913
			14	102	55		GMF60914	GMF61914
			22	72	32		GMF60915	GMF61915
12	12	11	16	83	30	0.35	GMF60120	GMF61120
			16	93	40		GMF60916	GMF61916
			16	117	64		GMF60917	GMF61917
			26	83	38		GMF60918	GMF61918
16	16	15	22	92	38	0.4	GMF60160	GMF61160
			22	109	55		GMF60919	GMF61919
			22	141	87		GMF60920	GMF61920
			32	92	44		GMF60921	GMF61921
20	20	19	26	104	50	0.5	GMF60200	GMF61200
			26	124	70		GMF60922	GMF61922
			26	164	110		GMF60923	GMF61923
			38	104	54		GMF60924	GMF61924

HPC MILLING



MULTIPLE HELIX DESIGN

The multiple helix design gives the end mill extra strength in both semi-roughing and finishing conditions, enabling heavier cutting and reducing vibration. The reduced vibration increases tool life and improves surface finish.

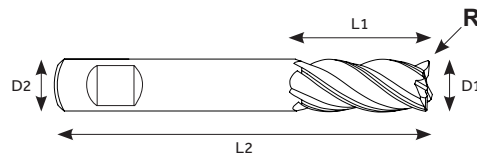


High Performance

4 FLUTE CORNER RADIUS, MULTIPLE HELIX

Excellent on Stainless Steel, HRSA's, Cast Iron & Mild Steel <HRC40

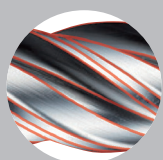
- Y1200 coated ultrafine micrograin carbide
- HPC = High performance cutting
- Special flute geometry and multiple helix eliminates vibration
- Unequal flute spacing reduces harmonics
- Depth of cut slotting: 1xD Ap / side cutting: 0.5xD Ae X 1.5xD Ap



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	R	D2	L1	L2	Order Code	
					Plain Shank	Weldon Shank
3	0.3	6	7	54	GMF54030	GMF55030
	0.5		7	54	GMF54901	GMF55901
	0.3		8	57	GMF58030	GMF59030
	0.5		8	57	GMF58901	GMF59901
4	0.3	6	8	54	GMF54040	GMF55040
	0.5		8	54	GMF54902	GMF55902
	0.3		11	57	GMF58040	GMF59040
	0.5		11	57	GMF58902	GMF59902
5	0.3	6	10	54	GMF54050	GMF55050
	0.5		10	54	GMF54903	GMF55903
	0.3		13	57	GMF58050	GMF59050
	0.5		13	57	GMF58903	GMF59903
6	0.3	6	10	54	GMF54060	GMF55060
	0.5		10	54	GMF54904	GMF55904
	1		13	57	GMF54905	GMF55905
	0.3		13	57	GMF58060	GMF59060
	0.5		13	57	GMF58904	GMF59904
	1		13	57	GMF58905	GMF59905
8	0.5	8	12	58	GMF54080	GMF55080
	1		12	58	GMF54906	GMF55906
	0.5		19	63	GMF58080	GMF59080
	1		19	63	GMF58906	GMF59906
10	0.5	10	14	66	GMF54100	GMF55100
	1		14	66	GMF54907	GMF55907
	0.5		22	72	GMF58100	GMF59100
	1		22	72	GMF58907	GMF59907
12	0.5	12	16	73	GMF54120	GMF55120
	1		16	73	GMF54908	GMF55908
	2		16	73	GMF54909	GMF55909
	0.5		26	83	GMF58120	GMF59120
	1		26	83	GMF58908	GMF59908
14	0.5	14	18	75	GMF54140	GMF55140
	0.5		26	83	GMF58140	GMF59140
	1		22	82	GMF54160	GMF55160
	2		22	82	GMF54912	GMF55912
16	3	16	22	82	GMF54913	GMF55913
	1		32	92	GMF58160	GMF59160
	2		32	92	GMF58912	GMF59912
	3		32	92	GMF58913	GMF59913
	1		24	84	GMF54180	GMF55180
18	1	18	32	92	GMF58180	GMF59180
	1		26	92	GMF54200	GMF55200
	2		26	92	GMF54916	GMF55916
20	3	20	26	92	GMF54917	GMF55917
	1		38	104	GMF58200	GMF59200
	2		38	104	GMF58916	GMF59916
	3		38	104	GMF58917	GMF59917
	1		38	104	GMF58250	GMF59250

HPC MILLING



MULTIPLE HELIX DESIGN

The multiple helix design gives the end mill extra strength in both semi-roughing and finishing conditions, enabling heavier cutting and reducing vibration. The reduced vibration increases tool life and improves surface finish.

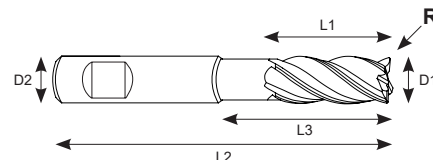


High Performance

4 FLUTE MULTIPLE HELIX HPC CARBIDE NECKED CORNER RAD END MILL

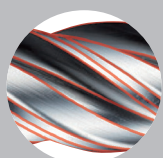
HPC High Metal All-Rounder End Mill. For Steel <HRC40, Stainless Steel, HRSA's, Cast Iron

- V7+ offers exceptional metal removal rates and tool life across a wide range of metals in roughing & finishing applications
- Y1200 coated ultrafine micrograin carbide
- Special flute geometry and multiple helix eliminates vibration
- Unequal flute spacing reduces harmonics
- Depth of cut slotting: 1xD Ap / side cutting: 0.5xD Ae X 1.5xD Ap



Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC10-40	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron
●	●	●	●	●	●

D1	R	D2	L1	L2	L3	Order Code	
						Plain Shank	Weldon Shank
3	0.3	6	7	54	12	GMF62030	GMF63030
	0.5			54	12	GMF62901	GMF63901
	0.3			57	17	GMF62902	GMF63902
	0.5			57	17	GMF62903	GMF63903
4	0.3	6	8	57	15	GMF62040	GMF63040
	0.5			57	15	GMF62904	GMF63904
	0.3			63	22	GMF62905	GMF63905
	0.5			63	22	GMF62906	GMF63906
5	0.3	6	10	57	17	GMF62050	GMF63050
	0.5			57	17	GMF62907	GMF63907
	0.3			67	27	GMF62908	GMF63908
	0.5			67	27	GMF62909	GMF63909
6	0.3	6	10	57	15	GMF62060	GMF63060
	0.5			57	15	GMF62910	GMF63910
	1			57	15	GMF62911	GMF63911
	0.3			62	20	GMF62912	GMF63912
	0.5			62	20	GMF62913	GMF63913
	1			62	20	GMF62914	GMF63914
	0.3			74	32	GMF62915	GMF63915
	0.5			74	32	GMF62916	GMF63916
8	1	8	12	74	32	GMF62917	GMF63917
	0.5			63	20	GMF62080	GMF63080
	1			63	20	GMF62918	GMF63918
	0.5			73	30	GMF62919	GMF63919
	1			73	30	GMF62920	GMF63920
	0.5			90	46	GMF62921	GMF63921
	1			90	46	GMF62922	GMF63922
	0.5			72	25	GMF62100	GMF63100
10	1	10	14	72	25	GMF62923	GMF63923
	0.5			82	35	GMF62924	GMF63924
	1			82	35	GMF62925	GMF63925
	0.5			102	55	GMF62926	GMF63926
	1			102	55	GMF62927	GMF63927
	0.5			83	30	GMF62120	GMF63120
12	1	12	16	83	30	GMF62928	GMF63928
	2			83	30	GMF62929	GMF63929
	0.5			93	40	GMF62930	GMF63930
	1			93	40	GMF62931	GMF63931
	2			93	40	GMF62932	GMF63932
	0.5			117	64	GMF62933	GMF63933
	1			117	64	GMF62934	GMF63934
	2			117	64	GMF62935	GMF63935
16	1	16	22	92	38	GMF62160	GMF63160
	2			92	38	GMF62936	GMF63936
	3			92	38	GMF62937	GMF63937
	1			109	55	GMF62938	GMF63938
	2			109	55	GMF62939	GMF63939
	3			109	55	GMF62940	GMF63940
	1			141	87	GMF62941	GMF63941
	2			141	87	GMF62942	GMF63942
20	3	20	26	141	87	GMF62943	GMF63943
	1			104	50	GMF62200	GMF63200
	1			124	70	GMF62946	GMF63946
	3			124	70	GMF62948	GMF63948
	1			164	110	GMF62949	GMF63949
	2			164	110	GMF62950	GMF63950
	3			164	110	GMF62951	GMF63951



MULTIPLE HELIX DESIGN

The multiple helix design gives the end mill extra strength in both semi-roughing and finishing conditions, enabling heavier cutting and reducing vibration. The reduced vibration increases tool life and improves surface finish.

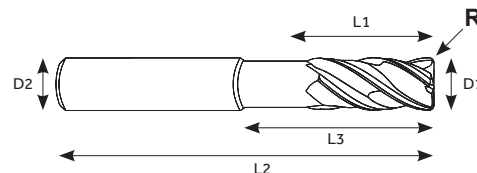
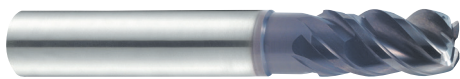


High Performance

4 FLUTE VARIABLE HELIX DOUBLE CORE END MILL CORNER RAD

For BEST Performance & Chip Management on Stainless Steel & Titanium HPC Milling

- The double core adds stability and aids chip flow, especially in sticky stainless steels and titanium HPC milling
- Geometry prevents chip clogging and premature tool failure
- Unequal flute spacing and multiple helix reduces vibration in HPC machining
- Special design for sticky materials prevents flutes from clogging in slotting operations
- Best for slotting & profiling with one tool
- Depth of cut slotting: $1 \times D \text{ Ap}$ / side cutting: $0.4 \times D \text{ Ae} \times 1 \times D \text{ Ap}$



D1	R	D2	L1	L2	L3	Order Code	
						Plain Shank	Weldon Shank
6	0.5	6	13	57	20	GMG40060	GMG41060
	1					GMG40901	GMG41901
8	0.5	8	19	63	25	GMG40080	GMG41080
	1					GMG40902	GMG41902
	1.5					GMG40903	GMG41903
	2					GMG40904	GMG41904
10	0.5	10	22	72	30	GMG40100	GMG41100
	1					GMG40905	GMG41905
	1.5					GMG40906	GMG41906
	2					GMG40907	GMG41907
12	0.5	12	26	83	35	GMG40120	GMG41120
	1					GMG40908	GMG41908
	1.5					GMG40909	GMG41909
	2					GMG40910	GMG41910
	3					GMG40911	GMG41911
14	1	14	26	83	35	GMG40140	GMG41140
	2					GMG40912	GMG41912
16	1	16	35	92	43	GMG40160	GMG41160
	1.5					GMG40913	GMG41913
	2					GMG40914	GMG41914
	3					GMG40915	GMG41915
	4					GMG40916	GMG41916
20	1	20	44	110	56	GMG40200	GMG41200
	1.5					GMG40917	GMG41917
	2					GMG40918	GMG41918
	3					GMG40919	GMG41919
	3.5					GMG40920	GMG41920
	4					GMG40921	GMG41921
25	1	25	55	130	70	GMG40250	GMG41250
	1.5					GMG40922	GMG41922
	2					GMG40923	GMG41923
	3					GMG40924	GMG41924
	4					GMG40925	GMG41925

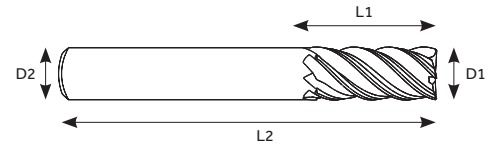


High Performance

5 FLUTE HPC END MILL CHAMFER PREP / CORNER RADIUS

Exceptional Performance & Maximum Metal Removal Rates For Steel, Stainless Steel & Titanium

- The Titanox 5 flute HPC geometry offers incredible metal removal rates in steel, stainless steel & titanium milling
- Vibration free machining with ultra high tool life
- Special geometry can be used for slotting, heavy side cutting, and peel milling
- Chamfer edge preparation OR corner radius
- Depth of cut slotting: 1xD Ap / side cutting: 0.5xD Ae X 1.5xD Ap



Carbon & Alloy Steels <HRC40	Stainless Steel	Titanium	HRSA's e.g. Inconel
☐	☒	☒	☒

D1	R	D2	L1	L2	Order Code
Chamfer Prep					
6	-	6	13	57	EMI93060
8	-	8	19	63	EMI93080
10	-	10	22	72	EMI93100
12	-	12	26	83	EMI93120
16	-	16	36	92	EMI93160
20	-	20	44	104	EMI93200
25	-	25	54	121	EMI93250
Corner Radius					
6	0.3	6	13	57	EMI94060
	0.5	6	13	57	EMI94901
	1	6	13	57	EMI94902
8	0.5	8	19	63	EMI94080
	1	8	19	63	EMI94903
	1.5	8	19	63	EMI94904
	2	8	19	63	EMI94905
	2.5	8	19	63	EMI94906
10	0.5	10	22	72	EMI94100
	1	10	22	72	EMI94906
	1.5	10	22	72	EMI94907
	2	10	22	72	EMI94908
	2.5	10	22	72	EMI94909
12	0.5	12	26	83	EMI94120
	1	12	26	83	EMI94910
	1.5	12	26	83	EMI94911
	2	12	26	83	EMI94912
	2.5	12	26	83	EMI94913
16	3	12	26	83	EMI94914
	0.5	16	36	92	EMI94160
	1	16	36	92	EMI94915
	1.5	16	36	92	EMI94916
	2	16	36	92	EMI94917
	2.5	16	36	92	EMI94918
20	3	16	36	92	EMI94919
	4	16	36	92	EMI94920
	1	20	44	104	EMI94200
	1.5	20	44	104	EMI94921
	2	20	44	104	EMI94922
	2.5	20	44	104	EMI94923
	3	20	44	104	EMI94924
	4	20	44	104	EMI94925
	5	20	44	104	EMI94926

HPC MILLING