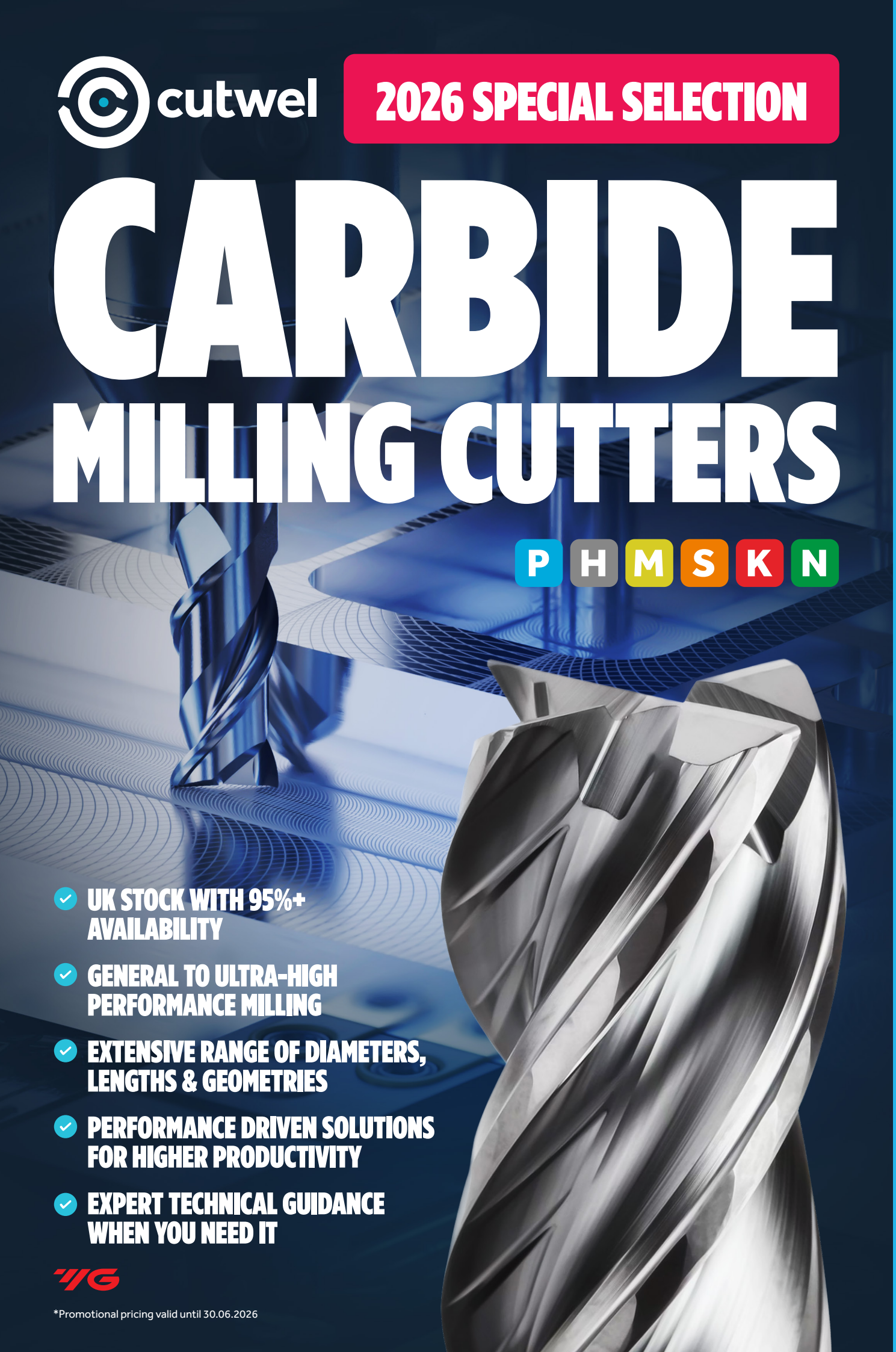
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2026 SPECIAL SELECTION

CARBIDE MILLING CUTTERS

P H M S K N



- UK STOCK WITH 95%+ AVAILABILITY
- GENERAL TO ULTRA-HIGH PERFORMANCE MILLING
- EXTENSIVE RANGE OF DIAMETERS, LENGTHS & GEOMETRIES
- PERFORMANCE DRIVEN SOLUTIONS FOR HIGHER PRODUCTIVITY
- EXPERT TECHNICAL GUIDANCE WHEN YOU NEED IT

YG

*Promotional pricing valid until 30.06.2026

03330 389849 SALES@CUTWEL.NET CUTWEL.CO.UK

Quick, accurate tooling solutions to boost your productivity

We invest in rigorous training so that our customer services team and time-served technical engineers can answer your queries and provide tailored solutions quickly and accurately, to save you time.

Whether you need over the phone recommendations, in-depth drawings, advice on how you can improve productivity or face to face support, we will give you independent advice on what is right for you and your project.

- **Fast, accurate guidance from trained tooling specialists**
- **Application-led recommendations tailored to your machining needs**
- **Expert insight that gives you clarity and confidence in every tooling decision**











FOR ENQUIRIES PLEASE CALL **03330 389849** OR EMAIL **SALES@CUTWEL.NET**

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Carbide Rippers

Low cutting loads combined with high metal removal rates.

P H M S K

Page 8-13

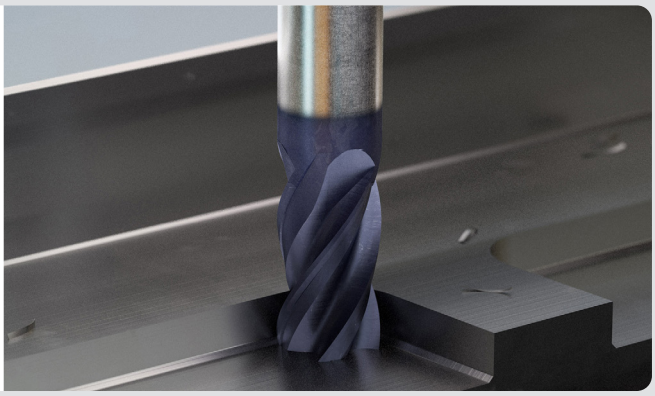


HPC Milling

High metal removal & anti-vibration milling.

P M S K

Page 14-23

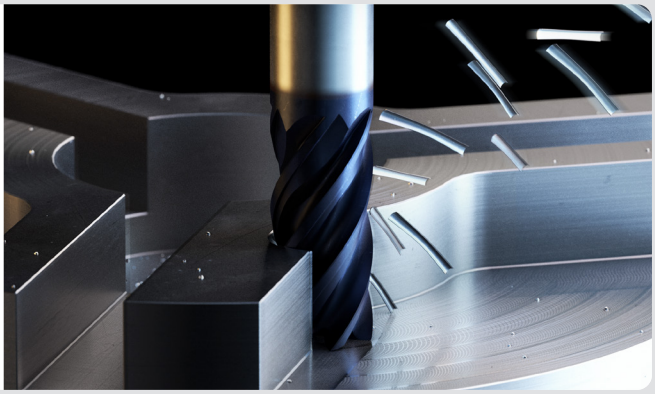


HSC & General Milling

High speed & general milling applications.

P H M S K

Page 24-61

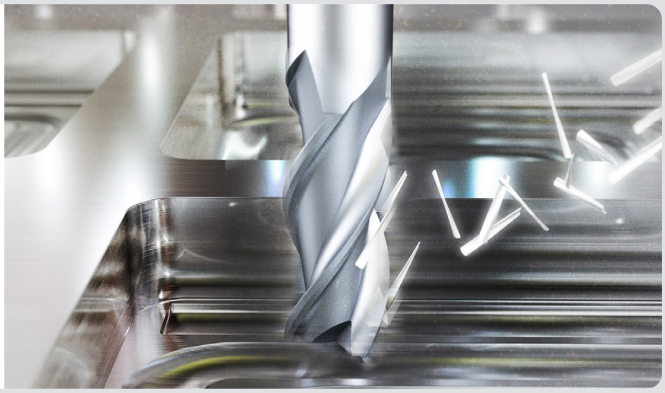


Non-Ferrous Milling

Cut faster with cleaner, controlled swarf removal.

N

Page 62-79

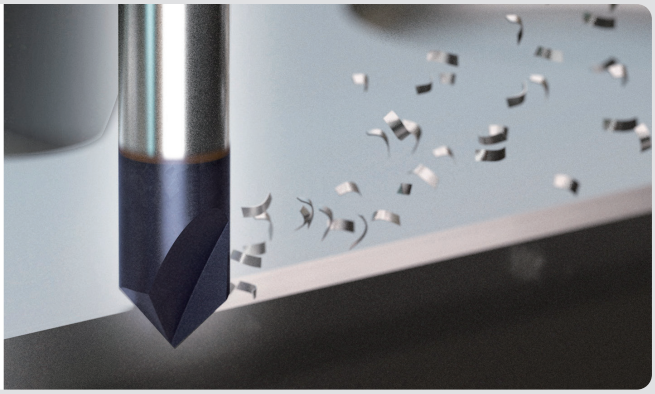


Form Milling

Reliable chamfering, engraving, corner rounding & more.

P M S K N

Page 80-87



Founded in 1981, YG-1 has developed into one of the world's most trusted and recognised manufacturers of high performance cutting tools.

With a foundation built on exceptional people, advanced technology and end users at the forefront, YG-1 creates products and services that customers rely on to maximise productivity and precision in machining applications across industries.

From its headquarters in Incheon, South Korea, YG-1 operates a comprehensive global network with numerous production facilities and sales offices, supplying tooling solutions to customers in every industry.

Established in
1981



Overseas Subsidiaries
30



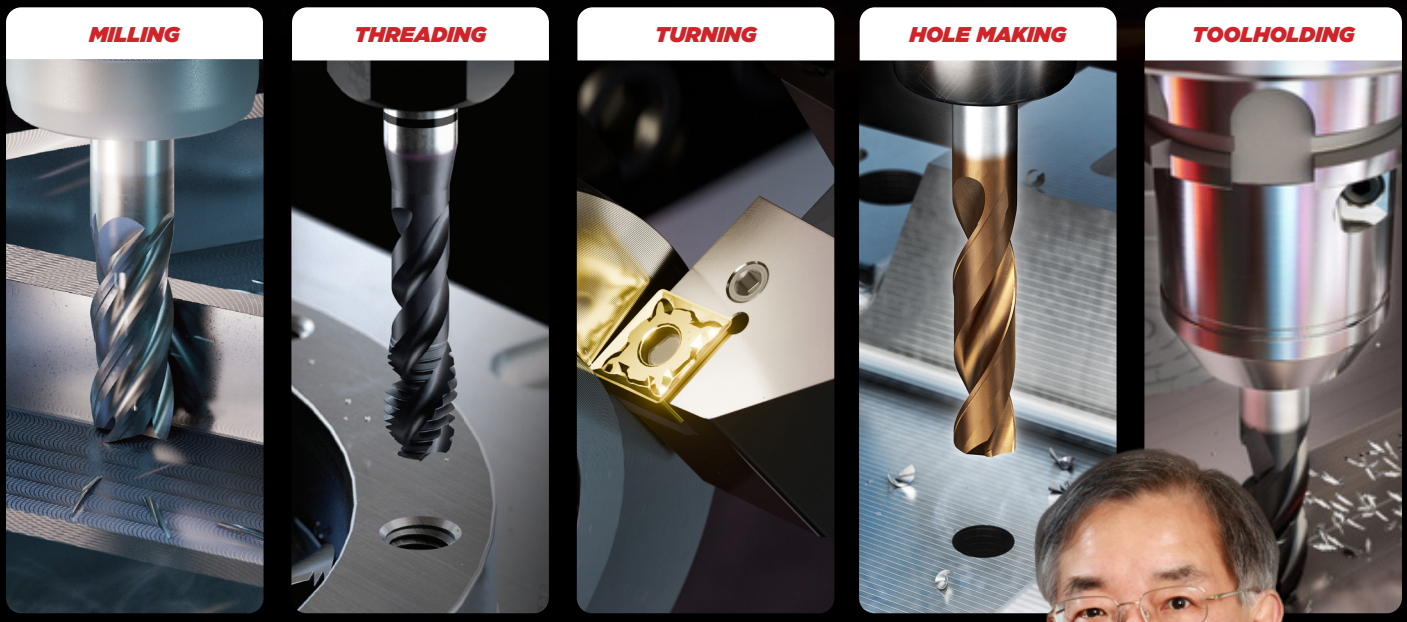
Production Plants
15



As your principal supplier for precision cutting tools, YG-1 brings:

- Proven global performance and precision engineering
- A partner committed to innovation and ongoing improvement
- Broad product range covering milling, drilling, threading and turning
- Products engineered for durability, high-feed machining and challenging materials
- Cutting edge R&D to raise the standards of performance, reliability & productivity

By choosing YG-1, our distribution network offers you world-class tools that boost productivity, optimise processes and ensure quality across every application.



Ho-Keun Song — CEO & Founder

Ho-Keun Song's leadership philosophy centres on challenge, quality and global engagement. Meeting customers face-to-face across continents, Song champions hands-on involvement in product development and plant operations, driving YG-1's strategy and growth on the world stage.

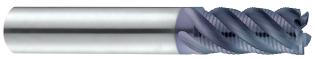
Under his guidance, YG-1 has expanded into more than 70 countries and become recognised as one of the top five cutting tool brands globally, while maintaining its position as Korea's leading tooling manufacturer.



GP **General Purpose**
Suitable for a wide range of materials in general cutting conditions

HPC **High Performance Cutting**
Machining with large depths of cut & aggressive feed rates

HSC **High Speed Cutting**
Machining at high RPM with small depths of cut

Product Range	Brand	Coating or Finish	General Purpose	Ripper	HPC	HSC	Non Ferrous
K2 CARBIDE 	YG	K2	●	●			
V7 PLUS HPC 	YG	Y1200			●	●	
TITANOX 	YG	Y1200		●	●		
4G MILLS 	YG	Y1200				●	
X-POWER PRO 	YG	Y Coating		●		●	
X-SPEED ROUGHER 	YG	X1100		●			
JET POWER 	YG	TiAlN 850		●		●	
X5070 	YG	X5070 (Silicon Based)				●	
EV MILLS 	YG	Y Coating			●		
ALU POWER 	YG	Uncoated (Lapped)		●			●
ALU POWER HPC 	YG	Uncoated & DLC Coated (Lapped)					●
PLASTIC-CUT 	Karnasch	Uncoated (Lapped)					●
A+ 	KORLOY	Uncoated (Lapped)					●

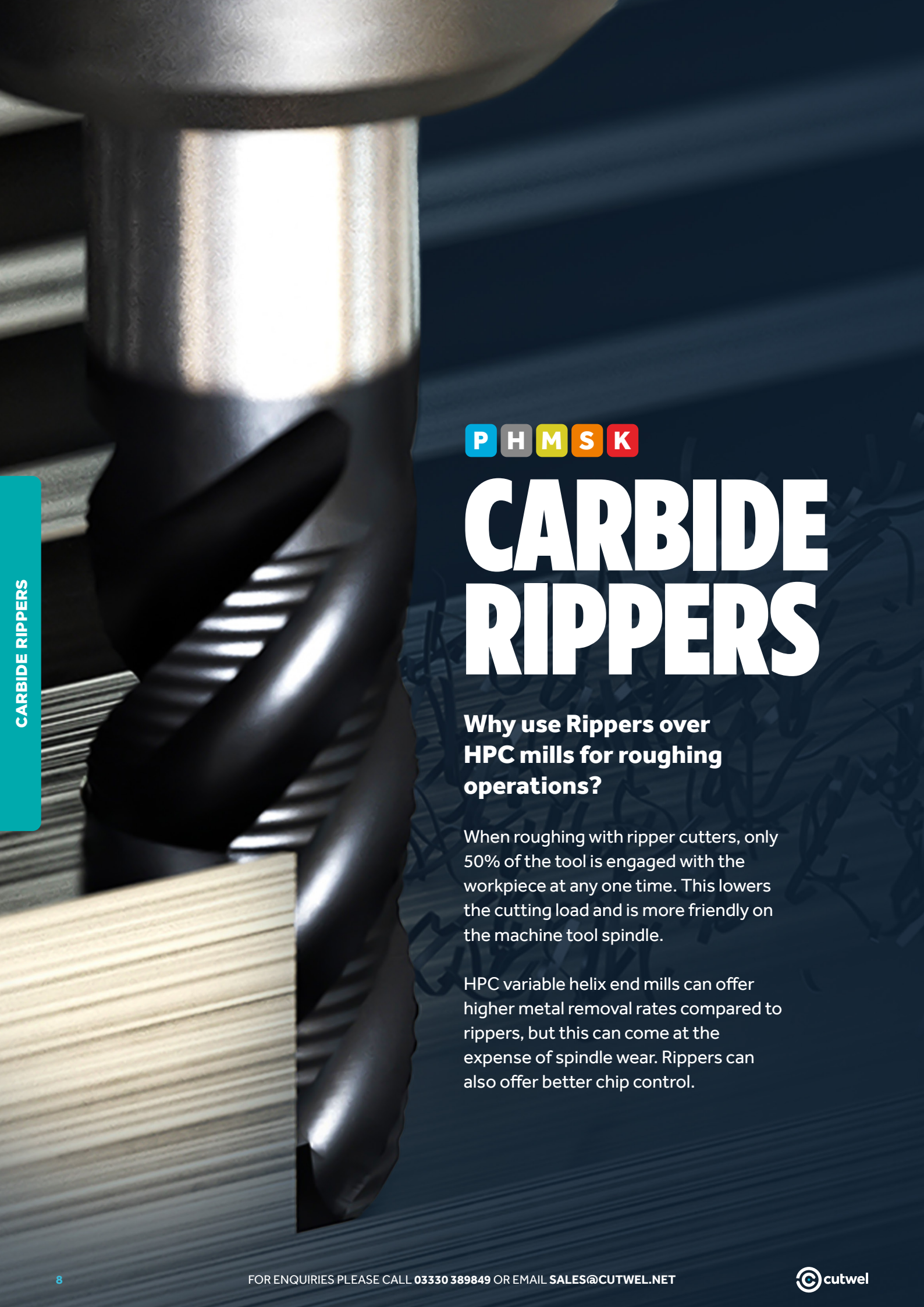
MATERIAL APPLICATION

Application within a range may vary, please check the table on each product page.

● **EXCELLENT** - For this material or application ○ **GOOD** - For this material or application

◉ **SELECTED** - Some tools in the range are suitable for this material or application

Carbon Steels ~HB225	Alloy Steels HB225~325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Hardened Steels HRC45~55	High Hard. Steels HRC55~70	Stainless Steel	Titanium	HRSA's e.g. Inconel	Cast Iron	Copper	Aluminium	Graphite	Plastic	Composites CFRP/GFRP
●	●	●	○			●		○	●	○	○			
●	●	●				●	●	●	●					
○	○	○				●	●	○						
●	●	●	●	○		◉			○					
○	●	●	●	○		○			●					
●	●	●	○						●					
○	●	●	○			●	●	◉						
		○	●	●	●	○								
●	●	●				●	●	●	●					
									●	●			○	
										●	●		○	
										○	○		●	
										●	●		○	



P H M S K

CARBIDE RIPPERS

Why use Rippers over HPC mills for roughing operations?

When roughing with ripper cutters, only 50% of the tool is engaged with the workpiece at any one time. This lowers the cutting load and is more friendly on the machine tool spindle.

HPC variable helix end mills can offer higher metal removal rates compared to rippers, but this can come at the expense of spindle wear. Rippers can also offer better chip control.

FOR ENQUIRIES PLEASE CALL **03330 389849** OR EMAIL **SALES@CUTWEL.NET**

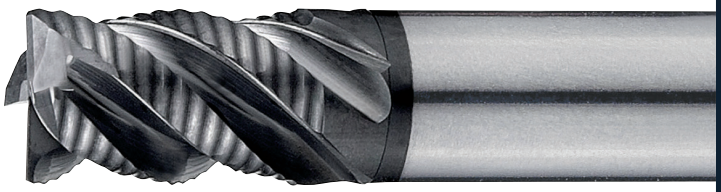
cutwel

CARBIDE RIPPERS HIGHLIGHTS

YG X-SPEED ROUGHER

Heavy roughing is faster, quieter and more controlled with the cutting power of the X-Speed Rougher.

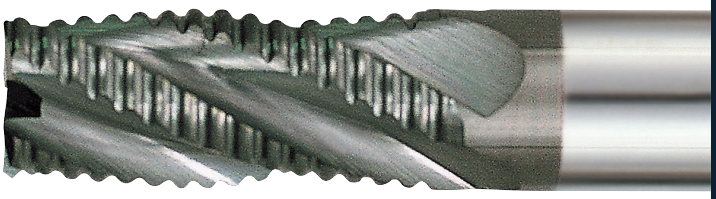
P H K



YG K-2

General machining stays consistent and predictable with the reliability of K2 Coated Carbide.

P H M K



YG TitaNox

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

P M S



YG X-POWER PRO

Reliable, durable & tough, X-Power Pro is the perfect choice for hardened steels in medium or high speed machining.

P H



YG JET-POWER

Stainless & heat resistant alloys machine cleanly and predictably with the superior performance of Jet Power.

P M S



YG K-2

General Purpose

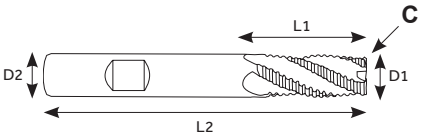
GENERAL PURPOSE CARBIDE COARSE PITCH RIPPER

For General Purpose Milling of Steel <HRC45, Cast Iron & Stainless Steel

- Designed for general purpose roughing applications
- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Chamfer corner prep prevents tool chipping







MG SC | 3-5 | 30° | COARSE | DIN 6535HB | C x 45° | X COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	●	○	●

D1	D2	L1	L2	Chamfer Prep	No. of Flutes	Order Code
6	6	16	57	0.6	3	G9A42060
8	8	16	63	0.6		G9A42080
10	10	22	72	0.6	4	G9A42100
12	12	26	83	0.74		G9A42120
14	14	26	83	0.94		G9A42140
16	16	32	92	0.94		G9A42160
18	18	32	92	0.94		G9A42180
20	20	38	104	0.94		G9A42200
25	25	45	121	0.94	5	G9A42250

YG X-SPEED ROUGHER

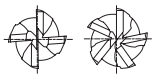
High Performance

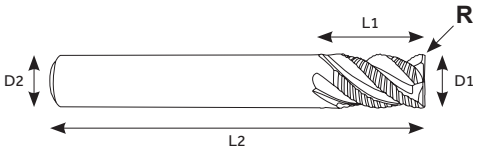
4 & 5 FLUTE VARIABLE HELIX CARBIDE RIPPER

Nothing Removes Steel Faster, Quieter or For Longer!

- Special variable pitch profile reduces cutting force and stress on your machine spindle at high feed rates & large depth of cut. Nothing rips out steel faster than X-Speed!
- Micrograin carbide with special X1100 coating
- HPC = High performance cutting
- Strong end tooth design for ramping and pocket milling
- Recommended for use with a high performance holder for best tool life & rigidity







MG SC | 4&5 | 44°~45° | VAR | PLAIN | WELDON | X1100 COATED | HPC

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Cast Iron
●	●	●	●

D1	R	D2	L1	L2	No. of Flutes	Order Code	
						Plain Shank	Weldon Shank
6	0.5	6	9	57	4	G9D75060	G9D67060
			12			G9D76060	G9D68060
8	0.5	8	12	63		G9D75080	G9D67080
			16			G9D76080	G9D68080
10	0.5	10	15	72		G9D75100	G9D67100
			20			G9D76100	G9D68100
12	0.5	12	18	83		G9D75120	G9D67120
			24			G9D76120	G9D68120
16	1	16	24	92	5	G9D75160	G9D67160
			32			G9D76160	G9D68160
20	1	20	30	104		G9D75200	G9D67200
			40			G9D76200	G9D68200

YG X-SPEED ROUGHER

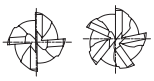
High Performance

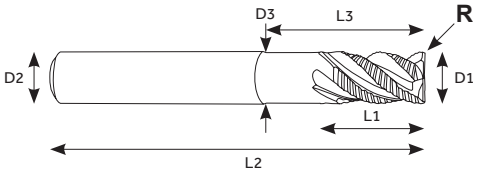
4 & 5 FLUTE VARIABLE HELIX CARBIDE RIPPER NECKED

Nothing Removes Steel Faster, Quieter or For Longer!

- Special variable pitch profile reduces cutting force and stress on your machine spindle at high feed rates & large depth of cut. Nothing rips out steel faster than X-Speed!
- Micrograin carbide with special X1100 coating
- HPC = High performance cutting
- Strong end tooth design for ramping and pocket milling
- Recommended for use with high performance holder for best tool life & rigidity







MG SC | 4&5 | 44°~45° | VAR | PLAIN | WELDON | X1100 COATED | HPC

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Cast Iron
●	●	●	●

D1	R	D2	D3	L1	L2	L3	No. of Flutes	Order Code	
								Plain Shank	Weldon Shank
6	0.5	6	5.7	9	57	18	4	G9D77060	G9D69060
8		8	7.7	12	63	24		G9D77080	G9D69080
10		10	9.7	15	72	30		G9D77100	G9D69100
12		12	11.7	18	83	36		G9D77120	G9D69120
16	1	16	15.7	24	100	48	5	G9D77160	G9D69160
20		20	19.7	30	110	60		G9D77200	G9D69200

YG JET-POWER

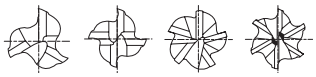
High Performance

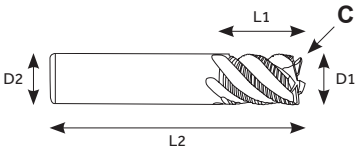
3-6 FLUTE FINE PITCH RIPPER, 45° HELIX

High Performance Machining of Stainless Steel, Titanium, Hastelloy & Inconel

- Ideal for high performance roughing of stainless steels, titanium, inconel & also suitable for soft to medium hardness steels
- The 45° geometry and deep flute pockets give excellent chip cotrol in sticky materials
- TiAlN coated ultrafine micrograin carbide
- HSC = Suitable for high speed machining
- High chip removal and minimising breakages of cutting edges







MG SC | 3-6 | 45° | FINE | PLAIN | WELDON | C x 45° | TiAlN 850 | HSC

Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium
○	○	●	●

D1	D2	L1	L2	No. of Flutes	C	Order Code Plain Shank	Order Code Weldon Shank
4	6	11	57	3	0.10	EH919040	EH920040
5	6	13	57	4	0.13	EH919050	EH920050
6	6	7	54	4	0.15	EH917060	EH918060
		16	57	4	0.15	EH919060	EH920060
7	8	16	63	4	0.15	EH919070	EH920070
8	8	9	58	4	0.18	EH917080	EH918080
		16	63	4	0.18	EH919080	EH920080
9	10	19	72	4	0.18	EH919090	EH920090
10	10	14	66	4	0.20	EH917100	EH918100
		22	72	4	0.20	EH919100	EH920100
12	12	16	73	4	0.20	EH917120	EH918120
		26	83	4	0.20	EH919120	EH920120
14	14	26	83	4	0.20	EH919140	EH920140
16	16	22	82	5	0.20	EH917160	EH918160
		32	92	5	0.20	EH919160	EH920160
20	20	26	92	6	0.20	EH917200	EH918200
		38	104	6	0.20	EH919200	EH920200
25	25	45	121	6	0.20	EH919250	EH920250

YG X-POWER PRO

High Performance

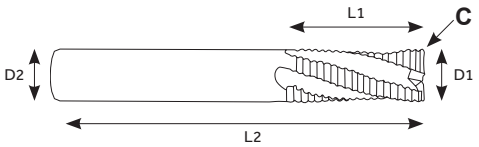
3 & 4 FLUTE FINE PITCH RIPPER, 20° HELIX

Dedicated Design for Hardened Steel Roughing <HRC60

- Y coated ultrafine micrograin carbide
- Dry or wet cutting
- 20° helix gives highest strength in hard steel roughing







MG SC | 3&4 | 20° | FINE | PLAIN | C x 45° | Y COATED | HSC

Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-60
●	●	●

D1	D2	L1	L2	C	No. of Flutes	Order Code
6	6	16	57	0.38	3	GM814060
8	8	16	63	0.38	3	GM814080
10	10	22	72	0.6	4	GM814100
12	12	26	83	0.6	4	GM814120
16	16	32	92	0.6	4	GM814160
20	20	38	104	0.6	4	GM814200

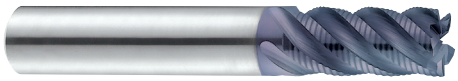
YG TitaNox

High Performance

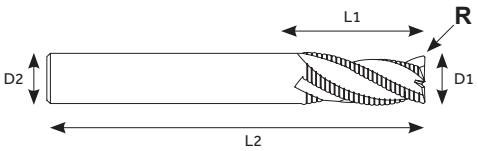
5 FLUTE FINE PITCH RIPPER, 40° HELIX

Exceptional Metal Removal Rates on Titanium, Hastelloy, Stainless Steel & Inconel

- TiAlN coated micrograin carbide
- HPC = High performance cutting
- Optimised flute design for chip evacuation and rigidity when machining difficult-to-cut materials
- Special roughing profile for stainless steel and titanium
- Corner protection from chipping







MG SC | 5 | 40° | FINE | PLAIN | WELDON | TiAlN COATED | HPC

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

D1	R	D2	L1	L2	Order Code	
					Plain Shank	Weldon Shank
6	0.2	6	16	57	EHE54060	EHE55060
8		8	16	63	EHE54080	EHE55080
10	0.3	10	22	72	EHE54100	EHE55100
12		12	26	83	EHE54120	EHE55120
14		14	26	83	EHE54140	EHE55140
16		16	32	92	EHE54160	EHE55160
20		20	38	104	EHE54200	EHE55200
25		25	45	121	EHE54250	EHE55250



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
- Exellent performance in steel <HRC40, stainless steel, titanium, inconel & cast iron machining
- Aggressive feed rates with large cut depths

FOR ENQUIRIES PLEASE CALL **03330 389849** OR EMAIL **SALES@CUTWEL.NET**

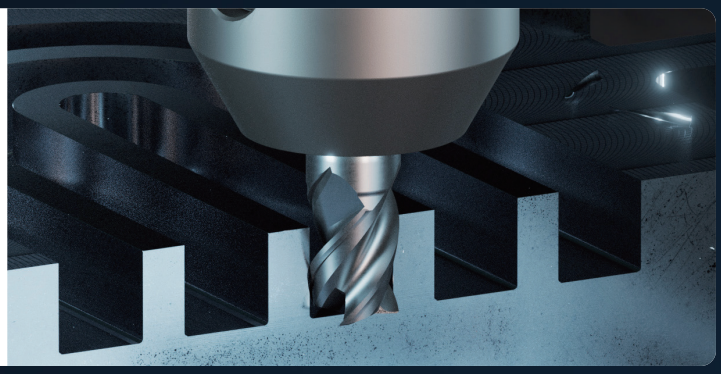
cutwel

HPC MILLING HIGHLIGHTS

YG 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



YG V7 Plus 4 FLUTE

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

P M S K



YG TitaNox 4 FLUTE

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

P M S



YG TitaNox 5 FLUTE

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

P M S



YG K-2 MULTIPLE HELIX

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

P M K



YG EV MILLS

High Performance

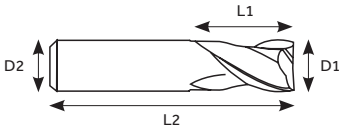
3 FLUTE VARIABLE HELIX CARBIDE END MILL (STUB LENGTH)

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: 0.8xD Ap / side cutting: 0.5xD Ae X 1xD Ap







MG SC | 3 | 43°/45°/47° | PLAIN | WELDON | Y COATED | HPC

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

YG EV MILLS

High Performance

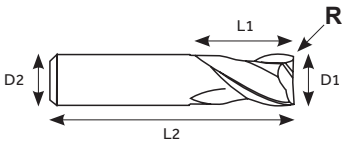
3 FLUTE VARIABLE HELIX CARBIDE END MILL (STUB LENGTH) KEYWAY MILL

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: 0.8xD Ap / side cutting: 0.5xD Ae X 1xD Ap







MG SC | 3 | 43°/45°/47° | PLAIN | WELDON | Y COATED | HPC | CORNER RADIUS

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	0.2	6	7.5	38	GMK60038	GMK61038
4.8		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

YG EV MILLS

High Performance

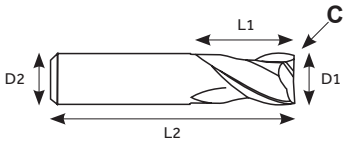
4 FLUTE VARIABLE HELIX CARBIDE END MILL (STUB LENGTH)

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: 0.8xD Ap / side cutting: 0.5xD Ae X 1xD Ap







MG SC | 4 | 43°/45°/47° | PLAIN | WELDON | Y COATED | HPC

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

YG K-2

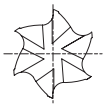
General Purpose

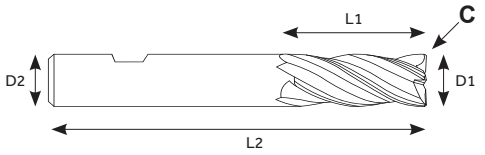
4 FLUTE MULTIPLE HELIX HPC CARBIDE END MILL (SEMI-RIPPER)

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: 0.8xD Ap / side cutting: 0.3xD Ae X 1.5xD Ap







MG SC | 4 | M-Helix | WELDON | K2 COATED

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

YG V7Plus

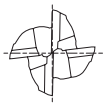
High Performance

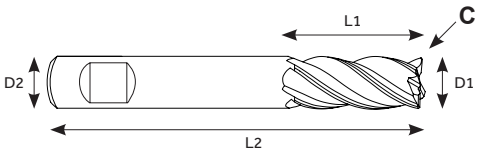
4 FLUTE MULTIPLE HELIX HPC CARBIDE END MILL

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: 1xD Ap / side cutting: 0.5xD Ae X 1.5xD Ap



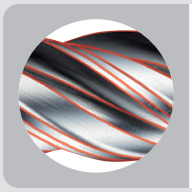




MG SC | 4 | 35°/37° | PLAIN | WELDON | C x 45° | Y1200 COATED | HPC

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



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.

YG V7Plus

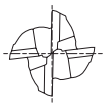
High Performance

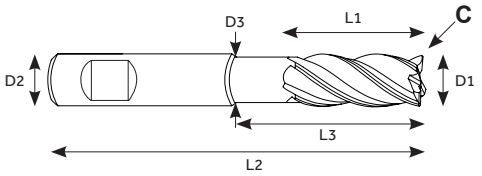
4 FLUTE MULTIPLE HELIX HPC CARBIDE NECKED END MILL

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



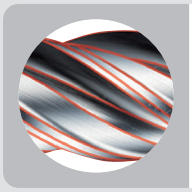




MG SC | 4 | 35°/37° | PLAIN | WELDON | C x 45° | Y1200 COATED | HPC

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



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.

YG V7 Plus

High Performance

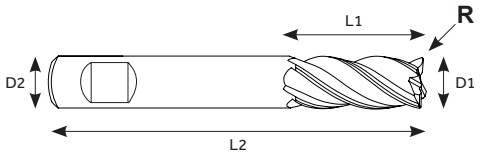
4 FLUTE CORNER RADIUS, MULTIPLE HELIX

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



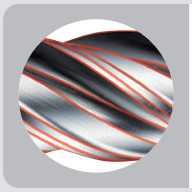




MG SC | 4 | 35°/37° | PLAIN | WELDON | Y1200 COATED | HPC | CORNER RADIUS

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
	2		26	83	GMF58909	GMF59909
14	0.5	14	18	75	GMF54140	GMF55140
	0.5		26	83	GMF58140	GMF59140
16	1	16	22	82	GMF54160	GMF55160
	2		22	82	GMF54912	GMF55912
	3		22	82	GMF54913	GMF55913
	1		32	92	GMF58160	GMF59160
	2		32	92	GMF58912	GMF59912
	3		32	92	GMF58913	GMF59913
18	1	18	24	84	GMF54180	GMF55180
	1		32	92	GMF58180	GMF59180
20	1	20	26	92	GMF54200	GMF55200
	2		26	92	GMF54916	GMF55916
	3		26	92	GMF54917	GMF55917
	1		38	104	GMF58200	GMF59200
	2		38	104	GMF58916	GMF59916
	3		38	104	GMF58917	GMF59917
25	1	25	38	104	GMF58250	GMF59250



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.

YG V7Plus

High Performance

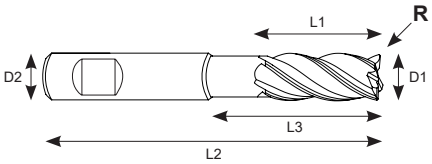
4 FLUTE MULTIPLE HELIX HPC CARBIDE NECKED CORNER RAD END MILL

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



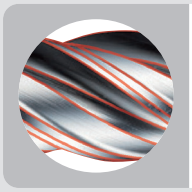




MG SC | 4 | 35°/37° | PLAIN | WELDON | HPC | CORNER RADIUS

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	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
	1			74	32	GMF62917	GMF63917
8	0.5	8	12	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
10	0.5	10	14	72	25	GMF62100	GMF63100
	1			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
12	0.5	12	16	83	30	GMF62120	GMF63120
	1			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
	3			141	87	GMF62943	GMF63943
20	1	20	26	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.

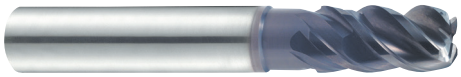
YG TitaNox

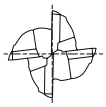
High Performance

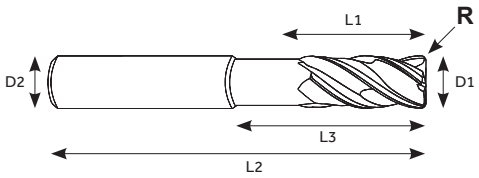
4 FLUTE VARIABLE HELIX DOUBLE CORE END MILL CORNER RAD

For BEST Performance & Chip Management on Stainless Steel & Titaninium 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: 1xD Ap / side cutting: 0.4xD Ae X 1xD Ap







MG SC | 4 | 43°/45° | PLAIN | WELDON | Y1200 COATED | HPC | CORNER RADIUS

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

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

YG TitaNox

High Performance

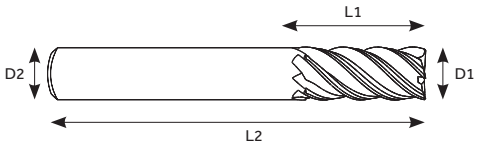
5 FLUTE HPC END MILL CHAMFER PREP / CORNER RADIUS

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







MG SC | 5 | 38° | PLAIN | Y1200 COATED | HPC

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
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
	3	12	26	83	EMI94914
16	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
	3	16	36	92	EMI94919
	4	16	36	92	EMI94920
20	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

P H M S K

HSC & GENERAL MILLING

High speed & general milling applications

2 Flute	P 26-33	Corner Rad	P 40-45
3 Flute	P 34-35	6 & 8 Flute	P 46-51
4 Flute	P 36-39	Ball Nose	P 52-61

- 2, 3, 4, 6 & 8 flute milling cutters
- Extensive range of diameters, corner radius, lengths & reach to suit almost any application
- Geometries are available for general purpose milling or high speed cutting of steel, high hardened steels <HRC70, stainless steel, titanium, inconel & cast iron

FOR ENQUIRIES PLEASE CALL **03330 389849** OR EMAIL **SALES@CUTWEL.NET**

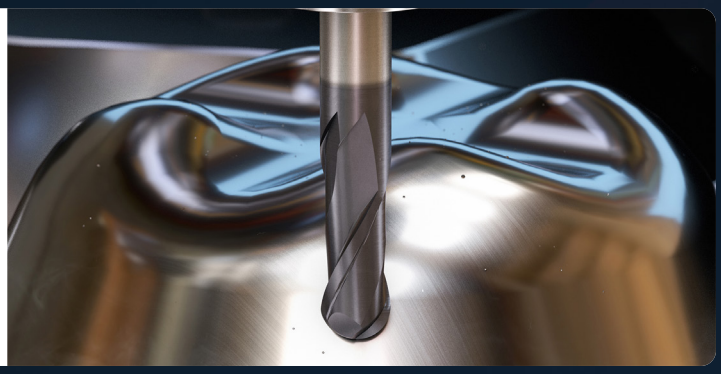
cutwel

HSC MILLING HIGHLIGHTS

YG 4G MILLS

4G Mills deliver performance, tool life and precision, the perfect upgrade from general purpose carbide.

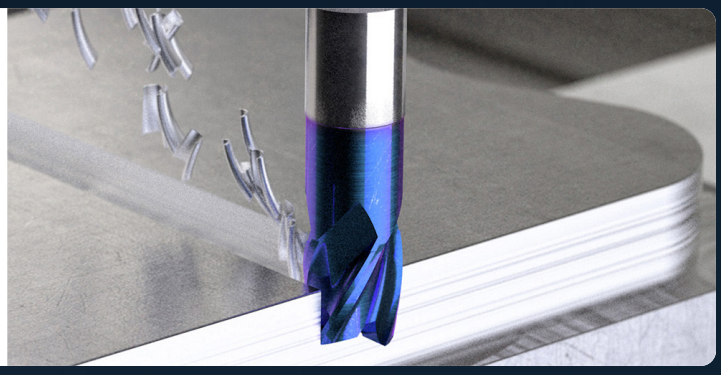
P H M K



YG X5070

Hardened steel machining is transformed with the accuracy and durability delivered by X5070.

P H M K



YG JET-POWER

Stainless & heat resistant alloys machine cleanly and predictably with the advanced performance of Jet Power.

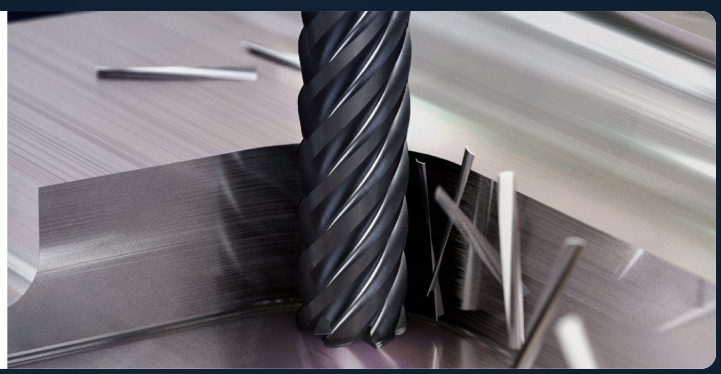
P M S



YG V7 Plus 6 FLUTE TRP

High-velocity milling stays stable and efficient with the smooth-cutting performance of V7+.

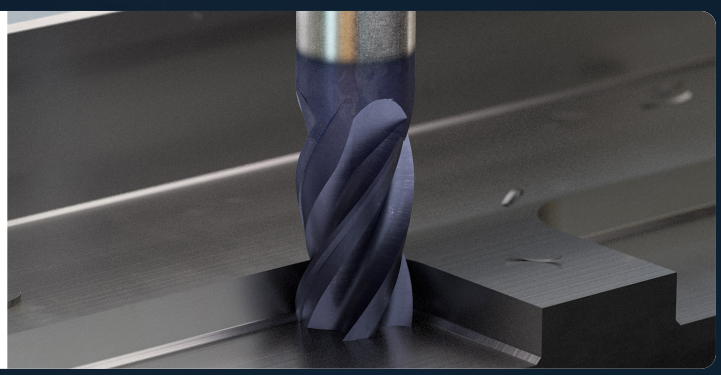
P M S K



YG K-2

General machining stays consistent and predictable with the reliability of K2 Coated Carbide.

P H M K



YG K-2

General Purpose

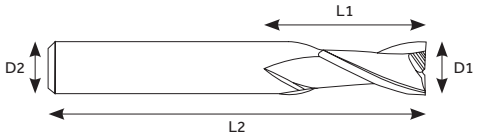
2 FLUTE K2 COATED CARBIDE SLOT DRILL

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining where the best quality is required
- Suitable for dry milling applications at high temperatures (steel only)







MG SC | 2 | 30° | DIN 6535HA | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	Order Code
1	4	3	50	G9424010
1.5	4	4	50	G9424015
2	4	6	50	G9424020
2.5	4	8	50	G9424025
3	3	8	50	G9424030
3	3	20	60	G9452903
3.5	4	10	50	G9424035
4	4	10	50	G9424040
4	4	20	60	G9452904
4.5	4.5	12	50	G9424045
5	5	13	50	G9424050
5	5	25	75	G9452905
5.5	5.5	15	50	G9424055
6	6	15	50	G9424060
6	6	30	75	G9452906
7	7	20	60	G9424070
8	8	20	60	G9424080
8	8	30	75	G9452908
9	9	20	60	G9424090
10	10	25	75	G9424100
10	10	40	100	G9452910
12	12	30	75	G9424120
12	12	45	100	G9452912
14	14	40	100	G9424140
14	14	45	100	G9452914
16	16	40	100	G9424160
16	16	45	100	G9452916
18	18	45	100	G9452918
20	20	40	100	G9424200
20	20	45	100	G9452920

YG K-2

General Purpose

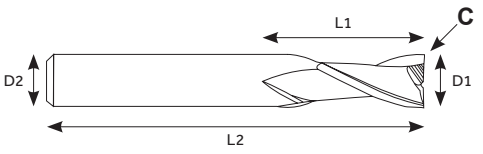
2 FLUTE K2 COATED CARBIDE CHAMFER PREP SLOT DRILL

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining where the best quality is required
- Suitable for dry milling applications at high temperatures (steel only)
- Chamfer edge preparation, ideal to protect cutting edge against vibration







MG SC | 2 | 30° | DIN 6535HA | K2 COATED | C x 45°

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	C	Order Code
3	3	8	50	0.1	G9G44030
4	4	10	50		G9G44040
5	5	13	50		G9G44050
6	6	15	50		G9G44060
8	8	20	60	0.13	G9G44080
10	10	25	75		G9G44100
12	12	30	75	0.18	G9G44120
14	14	40	100		G9G44140
16	16	40	100		G9G44160
20	20	40	100	0.23	G9G44200

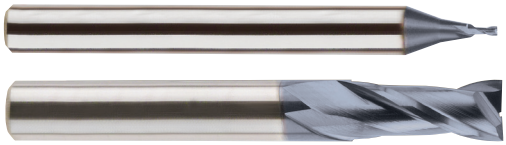
YG 4G MILLS

High Performance

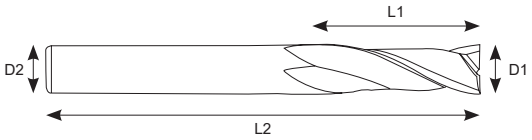
2 FLUTE COATED CARBIDE SLOT DRILL

Dry or Wet Cutting all Steel, Stainless Steel, Cast Iron & Hardened Steel <HRC55

- Ulitmate high performance, high precision all-rounder for steel, stainless, cast iron and hardened steel milling
- HSC = High speed cutting
- Temperature resistant 1200°C with outstanding wear resistance
- High accuracy, tolerance 0~-0.012mm ≤Ø6, 0~-0.015mm >Ø6
- Huge choice of lengths and diameters







MG SC | 2 | 30° | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Hardened Steels HRC45~55	Stainless Steel	Cast Iron
●	●	●	●	●	●

D1	D2	L1	L2	Order Code
0.03	4	0.04	40	SEME350003E
0.04	4	0.06	40	SEME350004E
0.1	4	0.2	40	SEME35001E
0.15	4	0.3	40	SEME350015E
0.2	4	0.4	40	SEME35002E
0.25	4	0.5	40	SEME350025E
0.3	4	0.6	40	SEME35003E
0.35	4	0.7	40	SEME350035E
0.4	4	0.8	40	SEME35004E
0.45	4	0.9	40	SEME350045E
0.5	4	1	40	SEME35005E
0.55	4	1.1	40	SEME350055E
0.6	4	1.2	40	SEME35006E
0.65	4	1.3	40	SEME350065E
0.7	4	1.4	40	SEME35007E
0.75	4	1.5	40	SEME350075E
0.8	4	1.6	40	SEME35008E
0.85	4	1.7	40	SEME350085E
0.9	4	1.8	40	SEME35009E
1	6	3	60	SEME7001003E
		6	60	SEME7001006E
		8	60	SEME7001008E
		10	60	SEME7001010E
1.2	6	3	50	SEME35012E
1.5	6	4	50	SEME35015E
		8	60	SEME7001508E
		10	60	SEME7001510E
		12	60	SEME7001512E
		16	60	SEME7001516E
2	6	6	50	SEME35020E
		8	60	SEME7002008E
		12	60	SEME7002012E
		16	60	SEME7002016E
2.5	6	7	50	SEME35025E
		16	60	SEME7002516E
3	6	8	50	SEME35030E
		12	70	SEME7003012E
		20	70	SEME7003020E
		26	70	SEME7003026E
3.5	6	10	50	SEME35035E
4	6	10	50	SEME35040E
		12	70	SEME7004012E
		20	70	SEME7004020E
		30	70	SEME7004030E
4.5	6	14	50	SEME35045E
5	6	15	60	SEME35050E
		20	70	SEME7005020E

D1	D2	L1	L2	Order Code
5	6	30	80	SEME7005030E
5	6	40	100	SEME7005040E
5.5	6	15	60	SEME35055E
6	6	15	60	SEME35060E
6	6	20	70	SEME7006020E
6	6	35	90	SEME7006035E
6	6	30	100	SEME7006030100E
6	6	45	150	SEME7006045E
6.5	8	18	60	SEME35065E
7	8	20	60	SEME35070E
7.5	8	20	60	SEME35075E
8	8	20	70	SEME35080E
8	8	30	80	SEME7008030E
8	8	40	90	SEME7008040E
8	8	50	100	SEME7008050E
8	8	40	120	SEME7008040120E
8.5	10	22	70	SEME35085E
9	10	22	70	SEME35090E
9.5	10	24	70	SEME35095E
10	10	25	75	SEME35100E
10	10	35	100	SEME7010035E
10	10	50	100	SEME7010050E
10	10	60	110	SEME7010060E
10	10	40	120	SEME7010040120E
10.5	12	26	75	SEME35105E
11	12	30	75	SEME35110E
11.5	12	30	80	SEME35115E
12	12	30	80	SEME35120E
12	12	35	90	SEME7012035E
12	12	40	100	SEME7012040E
12	12	40	120	SEME7012040120E
12	12	60	150	SEME7012060150E
13	12	35	100	SEME35130E
14	14	35	100	SEME3514014SE
15	16	30	100	SEME35150E
16	16	40	100	SEME35160E
16	16	40	150	SEME7016040E
17	16	42	100	SEME35170E
18	18	45	100	SEME3518018SE
19	20	45	100	SEME35190E
20	20	45	100	SEME35200E
20	20	90	200	SEME7020090200E
20	20	110	200	SEME70200110E
25	25	50	120	SEME35250E

YG X5070

High Performance

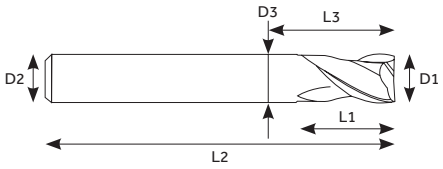
2 FLUTE COATED NANOGRAIN CARBIDE SLOT DRILL

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operations, tolerance 0~-0.012mm ≤Ø6, 0~-0.015mm >Ø6
- Silicon based coating with ultra high heat and wear-resistance







NG SC | 2 | 30° | PLAIN | X5070 COATED | HSC

Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30-40	HRC40-45	HRC45-55	HRC55-70
○	○	●	●

D1	D2	D3	L1	L2	L3	Order Code
0.1	4	-	0.2	40	-	G8A01001
0.2	4	-	0.4	40	-	G8A01002
0.3	4	-	0.6	40	-	G8A01003
0.4	4	-	0.8	40	-	G8A01004
0.5	4	-	1	40	-	G8A01005
0.6	4	-	1.2	40	-	G8A01006
0.7	4	-	1.4	40	-	G8A01007
0.8	4	-	1.6	40	-	G8A01008
0.9	4	-	2	40	-	G8A01009
1	6	0.95	1.5	50	3	G8A01010
1.5	6	1.45	1.7	50	4	G8A01015
2	6	1.95	2	50	5	G8A01020
2.5	6	2.4	2.5	55	6	G8A01025
3	6	2.85	3	55	8	G8A01030
3.5	6	3.35	3.5	55	9	G8A01035
4	6	3.85	4	55	10	G8A01040
5	6	4.85	5	55	13	G8A01050
6	6	5.85	6	55	15	G8A01060
8	8	7.7	8	65	20	G8A01080
10	10	9.7	10	75	25	G8A01100
12	12	11.7	12	85	28	G8A01120
16	16	15.7	16	90	32	G8A01160
20	20	19.7	20	105	40	G8A01200

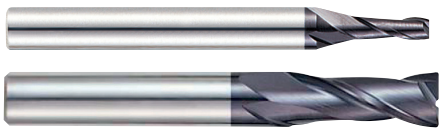
YG X-POWER PRO

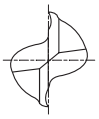
High Performance

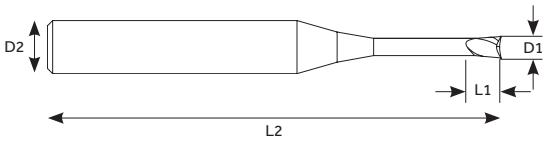
2 FLUTE COATED ULTRAFINE CARBIDE SLOT DRILL

High Speed Machining of Medium-High Hardness Steel <HRC55 & Cast Iron

- Y coated ultrafine micrograin carbide
- HSC = Suitable for high speed machining
- High precision milling in medical, optical, aerospace, electronics, mould & die industries
- Suitable for dry cutting on steel & hardened steel







MG SC | 2 | 30° | PLAIN | Y COATED | HSC

Alloy Steels	Pre Hard. Steels	Hardened Steels
HB225-325	HRC30-40	HRC40-60
●	●	●

D1	D2	L1	L2	Order Code
0.4	3	0.8	40	GM810004
0.5	3	1	40	GM810005
0.6	3	1.2	40	GM810006
0.7	3	1.4	40	GM810007
0.8	3	1.6	40	GM810008
0.9	3	2	40	GM810009
1	4	2.5	40	GM810010
1	6	2.5	40	GM810901
1.2	4	4	40	GM810012
1.4	4	4	40	GM810014
1.5	4	4	40	GM810015
1.5	6	4	40	GM810902
2	4	6	40	GM810020
2	6	6	40	GM810903
3	6	8	45	GM810030

D1	D2	L1	L2	Order Code
3.5	6	10	45	GM810035
4	6	11	45	GM810040
5	6	13	50	GM810050
6	6	13	50	GM810060
7	8	16	60	GM810070
8	8	19	60	GM810080
9	10	19	70	GM810090
10	10	22	70	GM810100
11	12	22	75	GM810110
12	12	26	75	GM810120
14	14	26	85	GM810140
16	16	32	100	GM810160
18	18	32	100	GM810180
20	20	38	105	GM810200

YG JET-POWER

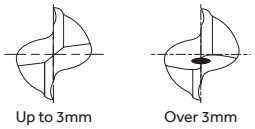
Advanced Performance

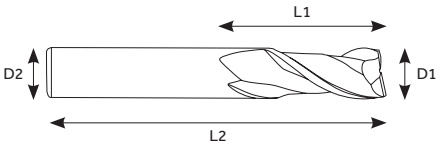
2 FLUTE COATED CARBIDE SLOT DRILL

Dedicated Geometry for Medium to High Performance Stainless Steel & Titanium Slotting

- Specific geometry and coating for best tool life and surface finish in stainless steel & titanium slotting
- HSC = Suitable for high speed machining
- Reinforced cutting edge reduces chipping of corner edges
- Also suitable for low hardness steels (under HRC45)









Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium
○	○	●	●

D1	D2	L1	L2	Order Code
1	4	2.5	40	EH911010
1	6	2.5	40	EH911901
1.5	4	4	40	EH911015
1.5	6	4	40	EH911902
2	4	6	40	EH911020
2	6	6	40	EH911903
2.5	4	8	40	EH911025
2.5	6	8	40	EH911904
3	6	8	45	EH911030
3.5	6	10	45	EH911035
4	6	11	45	EH911040
4.5	6	11	45	EH911045
5	6	13	50	EH911050
5.5	6	13	50	EH911055
6	6	13	50	EH911060
6.5	8	16	60	EH911065
7	8	16	60	EH911070
7.5	8	16	60	EH911075
8	8	19	60	EH911080
8.5	10	19	70	EH911085
9	10	19	70	EH911090
9.5	10	19	70	EH911095
10	10	22	70	EH911100
11	12	22	75	EH911110
12	12	26	75	EH911120
14	16	26	85	EH911140
16	16	32	100	EH911160
18	16	32	100	EH911180
20	20	38	105	EH911200
22	20	38	105	EH911220
25	25	45	120	EH911250

YG K-2

General Purpose

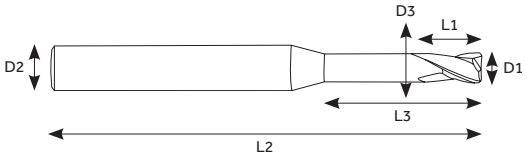
2 FLUTE COATED CARBIDE RIB PROCESSING SLOT DRILL

General Purpose Milling of Steel <HRC40

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Long neck for deep pocket milling







MG SC | 2 | 30° | DIN 6535HA | K2 COATED

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30~40	Stainless Steel	Cast Iron
●	●	○	○

D1	D2	D3	L1	L2	L3	Order Code
0.4	4	0.37	0.7	50	2	G9B80004
					4	G9B80901
0.5	4	0.45	0.75	50	2	G9B80005
				50	4	G9B80902
				50	6	G9B80903
0.6	4	0.55	0.9	50	2	G9B80006
				50	4	G9B80904
				50	6	G9B80905
0.7	4	0.65	1.1	50	4	G9B80007
				50	6	G9B80906
0.8	4	0.75	1.2	50	4	G9B80008
				50	6	G9B80907
				50	8	G9B80908
0.9	4	0.85	1.4	50	6	G9B80009
				50	8	G9B80909
				50	10	G9B80910
1	4	0.95	1.5	50	6	G9B80010
				50	8	G9B80911
				50	10	G9B80912
				50	12	G9B80913
1.2	4	1.15	1.8	50	6	G9B80012
				50	8	G9B80914
				50	10	G9B80915
				50	12	G9B80916
1.5	4	1.45	2.3	50	6	G9B80015
				50	8	G9B80917
				50	10	G9B80918
				50	12	G9B80919
				50	14	G9B80920
				50	16	G9B80921
				50	18	G9B80922
				50	20	G9B80923
2	4	1.95	3	50	6	G9B80020
				50	8	G9B80924
				50	10	G9B80925
				50	12	G9B80926
				50	14	G9B80927
				50	16	G9B80928
				50	18	G9B80929
				50	20	G9B80930
2.5	4	2.40	3.7	50	8	G9B80025
				50	12	G9B80931
				50	16	G9B80932
				50	20	G9B80933
3	6	2.85	4.5	50	8	G9B80030
				50	12	G9B80934
				60	16	G9B80935
				60	20	G9B80936
				75	25	G9B80937
4	6	3.85	6	50	12	G9B80040
				60	16	G9B80938
				75	20	G9B80939
				75	25	G9B80940
				75	30	G9B80941
				75	35	G9B80942

YG 4G MILLS

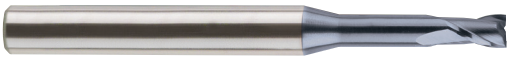
High Performance

2 FLUTE COATED CARBIDE RIB PROCESSING SLOT DRILL

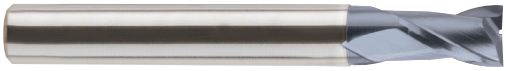
Excellent Performance on Dry or Wet Cutting all Steel, Stainless, Cast Iron & Hardened Steel <HRC55

- YG-1's Y1200 coating & premium micrograin carbide substrate
- HSC = High speed cutting
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Wide range of neck lengths for rib processing/pocket milling operations

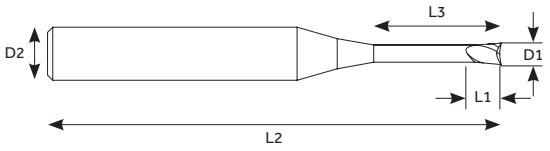
Up to Ø5mm



Over Ø5mm







MG SC | 2 | 30° | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Hardened Steels HRC45-55	Stainless Steel	Cast Iron
●	●	●	●	●	●

D1	D2	L1	L2	L3	Order Code
0.5	4	0.7	45	6	SEM84500506E
			45	10	SEM84500510E
0.6	4	0.9	45	2	SEM84500602E
			45	4	SEM84500604E
			45	6	SEM84500606E
			45	10	SEM84500610E
0.7	4	1.2	45	2	SEM84500702E
			45	4	SEM84500704E
			45	6	SEM84500706E
			45	8	SEM84500708E
			45	12	SEM84500712E
0.8	4	1.2	45	2	SEM84500802E
			45	4	SEM84500804E
			45	6	SEM84500806E
			45	10	SEM84500810E
0.9	4	1.3	45	6	SEM84500906E
			45	10	SEM84500910E
1	4	1.5	50	2	SEM84501002E
			50	4	SEM84501004E
			50	6	SEM84501006E
			50	8	SEM84501008E
			50	10	SEM84501010E
			50	16	SEM84501016E
			50	20	SEM84501020E
			70	30	SEM84501030E
1.2	4	1.8	50	4	SEM84501204E
			50	10	SEM84501210E
			50	16	SEM84501216E
			60	26	SEM84501226E
1.4	4	2.1	50	8	SEM84501408E
			50	10	SEM84501410E
			50	16	SEM84501416E
1.5	4	2.3	50	4	SEM84501504E
			50	8	SEM84501508E
			50	12	SEM84501512E
			50	16	SEM84501516E
			50	20	SEM84501520E
			70	30	SEM84501530E

D1	D2	L1	L2	L3	Order Code
1.6	4	2.3	50	8	SEM84501608E
			50	12	SEM84501612E
			50	20	SEM84501620E
1.8	4	2.7	50	8	SEM84501808E
			50	20	SEM84501820E
2	4	3	50	6	SEM84502006E
			50	12	SEM84502012E
			50	16	SEM84502016E
			50	20	SEM84502020E
			70	30	SEM84502030E
			80	40	SEM84502040E
			110	60	SEM84502060E
2.5	4	4	50	8	SEM84502508E
			50	12	SEM84502512E
			50	16	SEM84502516E
			50	20	SEM84502520E
3	6	4.5	61	16	SEM84503016E
			63	20	SEM84503020E
			65	26	SEM84503026E
			70	35	SEM84503035E
			100	60	SEM84503060E
4	6	6	50	12	SEM84504012E
			60	20	SEM84504020E
			70	30	SEM84504030E
			70	35	SEM84504035E
			100	50	SEM84504050E
			100	60	SEM84504060E
5	6	8	60	20	SEM84505020E
			70	30	SEM84505030E
			80	40	SEM84505040E
			90	50	SEM84505050E
6	6	9	60	15	SEM84506015E
			60	20	SEM84506020E
			70	30	SEM84506030E
8	8	12	80	30	SEM84508030E
			100	42	SEM84508042E
10	10	15	75	30	SEM84510030E
			80	35	SEM84510035E

YG X5070

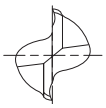
High Performance

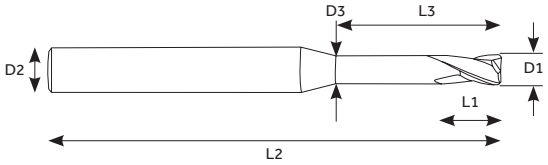
2 FLUTE COATED NANOGRAIN CARBIDE RIB PROCESSING SLOT DRILL

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operation
- Silicone based coating with ultra high heat and wear-resistance







NG SC | 2 | 30° | PLAIN | X5070 COATED | HSC

Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30-40	HRC40-45	HRC45-55	HRC55-70
○	○	●	●

D1	D2	D3	L1	L2	L3	Order Code
0.1	4	0.085	0.15	45	0.3	G8A45863
					0.5	G8A45864
0.2	4	0.17	0.3	45	0.5	G8A45002
					1	G8A45815
					1.5	G8A45816
0.3	4	0.27	0.45	45	1	G8A45003
					1.5	G8A45844
					2	G8A45817
					3	G8A45818
					4	G8A45842
0.4	4	0.37	0.6	45	1	G8A45843
					2	G8A45004
					3	G8A45984
					4	G8A45985
					5	G8A45986
0.5	4	0.45	0.7	45	2	G8A45005
					2.5	G8A45861
					4	G8A45988
					6	G8A45989
					8	G8A45990
0.6	4	0.55	0.9	45	2	G8A45006
					3	G8A45860
					4	G8A45991
					6	G8A45992
					8	G8A45993
					10	G8A45819
0.8	4	0.75	1.2	45	2	G8A45862
					4	G8A45008
					6	G8A45908
					8	G8A45909
					10	G8A45994
					12	G8A45995
1	4	0.95	1.5	45	4	G8A45996
				45	6	G8A45010
				45	8	G8A45912
				45	10	G8A45913
				45	12	G8A45914
				50	16	G8A45997
				55	20	G8A45998

D1	D2	D3	L1	L2	L3	Order Code
1.2	4	1.15	1.8	45	6	G8A45012
				45	8	G8A45915
				45	10	G8A45916
				45	12	G8A45917
				50	16	G8A45999
1.5	4	1.45	2.3	45	6	G8A45015
				45	8	G8A45923
				45	10	G8A45924
				45	12	G8A45925
				50	14	G8A45926
				50	16	G8A45927
				55	18	G8A45928
				55	20	G8A45810
2	4	1.95	3	45	6	G8A45958
				45	8	G8A45020
				45	10	G8A45959
				45	12	G8A45960
				50	14	G8A45961
				50	16	G8A45962
				55	18	G8A45963
				55	20	G8A45964
				60	25	G8A45966
				70	30	G8A45814
3	6	2.85	4.5	45	10	G8A45975
				45	12	G8A45976
				50	14	G8A45977
				55	16	G8A45978
				55	18	G8A45979
				60	20	G8A45980
				65	25	G8A45981
				70	30	G8A45832
				80	35	G8A45833
				90	40	G8A45983
4	6	3.85	6	50	12	G8A45040
				60	16	G8A45801
				60	20	G8A45802
				70	25	G8A45803
				70	30	G8A45834
				80	35	G8A45835
				90	40	G8A45836
				90	45	G8A45837
				100	50	G8A45838

YG X-POWER PRO

High Performance

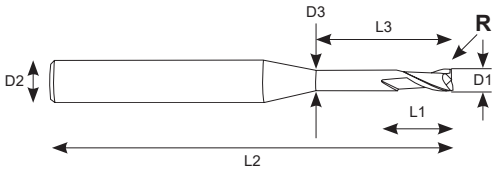
2 FLUTE COATED NANOGRAIN CARBIDE RIB PROCESSING SLOT DRILL

High Speed Machining of Medium-High Hardness Steel <HRC55 & Cast Iron

- Y coated ultrafine micrograin carbide
- HSC = Suitable for high speed machining
- Tool has reduced neck diameter to prevent interference in pocket milling
- Wide range of reach lengths (L3) from short to long
- Suitable for dry cutting on steel & hardened steel







MG SC | 2 | 30° | PLAIN | Y COATED | HSC

Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-60
●	●	●

D1	R	D2	D3	L1	L2	L3	Order Code
1	0.1	4	0.95	1.5	45	6	GM8A1010
						8	GM8A1920
						10	GM8A1921
1.2	0.2	4	1.15	1.8	45	6	GM8A1012
1.5	0.2	4	1.45	2.3	45	6	GM8A1015
					45	8	GM8A1937
					45	10	GM8A1938
					45	12	GM8A1939
					50	16	GM8A1941
1.8	0.2	4	1.75	2.7	45	6	GM8A1018
2	0.2	4	1.95	3	45	6	GM8A1960
					45	8	GM8A1020
					45	12	GM8A1962
					45	10	GM8A1961
					50	16	GM8A1964
					55	20	GM8A1966
					60	25	GM8A1967
2.5	0.2	4	2.4	3.7	45	12	GM8A1969
3	0.3	6	2.85	4.5	55	16	GM8A1981
					60	20	GM8A1983
					65	25	GM8A1984
					70	30	GM8A1976
					90	40	GM8A1985
4	0.3	6	3.85	6	50	12	GM8A1040
					60	16	GM8A1986
					60	20	GM8A1987
6	0.5	6	5.85	9	80	20	GM8A1060
					100	40	GM8A1802

YG K-2

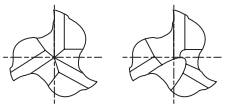
General Purpose

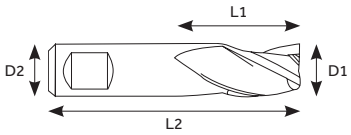
3 FLUTE COATED CARBIDE THROWAWAY SLOT DRILL

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Centre cutting
- Short length throwaway style







MG SC | 3 | 30° | WELDON | PLAIN | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	Order Code
0.5	3 ▶	1.5	38	G9553005
0.6	3 ▶	1.5	38	G9553006
0.8	3 ▶	2	38	G9553008
1	3 ▶	2	38	G9553010
1.2	3 ▶	2	38	G9553012
1.5	3 ▶	2	38	G9553015
2	6	4	35	G9410020
2.5	6	5	36	G9410025
3	6	5	36	G9410030
3.5	6	6	37	G9410035
4	6	7	38	G9410040
4.5	6	8	38	G9410045
5	6	8	39	G9410050
5.5	6	8	39	G9410055
6	6	8	39	G9410060
7	8	10	42	G9410070
8	8	11	43	G9410080
9	10	11	48	G9410090
10	10	13	50	G9410100
12	12	15	55	G9410120
14	14	15	58	G9410140
16	16	18	62	G9410160
18	18	20	70	G9410180
20	20	22	75	G9410200

▶ Plain Shank only

YG K-2

General Purpose

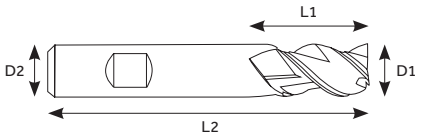
3 FLUTE 45° HELIX COATED CARBIDE SLOT DIRLL

General Purpose Milling of Steel <HRC45, Stainless Steel, Cast Iron, Copper & Aluminium

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- 45° helix and deep flute pockets improve chip control on sticky stainless steel, soft steels, aluminium & copper
- Centre cutting







MG SC | DIN 6527 | 3 | 45° | DIN 6535HB | K2 COATED

Carbon Steels -HB225	Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron	Copper	Aluminium
●	●	●	○	○	○	○	○

D1	D2	L1	L2	Order Code
3	6	7	57	G9447030
3.5	6	7	57	G9447035
4	6	8	57	G9447040
5	6	10	57	G9447050
6	6	10	57	G9447060
8	8	16	63	G9447080
9	10	16	72	G9447090
10	10	19	72	G9447100
12	12	22	83	G9447120
14	14	22	83	G9447140
16	16	26	92	G9447160
18	18	26	92	G9447180
20	20	32	104	G9447200

YG K-2

General Purpose

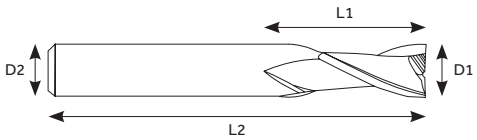
3 FLUTE COATED CARBIDE SLOT DRILL

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining where the best quality is required
- Suitable for dry milling applications at high temperatures (steel only)
- Centre cutting
- Plain shank







MG SC | 3 | 30° | PLAIN

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	Order Code
1	4	3	50	G9425010
1.5	4	4	50	G9425015
2	4	6	50	G9425020
2.5	4	8	50	G9425025
3	3	8	50	G9425030
3.5	4	10	50	G9425035
4	4	10	50	G9425040
4.5	4.5	12	50	G9425045
5	5	13	50	G9425050
5.5	5.5	15	50	G9425055
6	6	15	50	G9425060
7	7	20	60	G9425070
8	8	20	60	G9425080
9	9	20	60	G9425090
10	10	25	75	G9425100
12	12	30	75	G9425120
14	14	40	100	G9425140
16	16	40	100	G9425160
20	20	40	100	G9425200

YG K-2

General Purpose

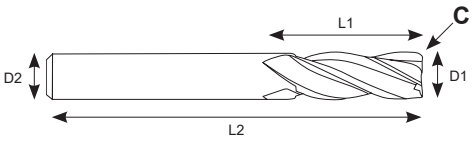
3 FLUTE COATED CARBIDE END MILL CHAMFER PREP

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining where the best quality is required
- Suitable for dry milling applications at high temperatures (steel only)
- Centre cutting with chamfer edge preparation, ideal to protect cutting edge against vibration
- Plain shank







MG SC | 3 | 30° | PLAIN | C x 45°

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	C	Order Code
3	3	8	50	0.1	G9G47030
4	4	10	50		G9G47040
5	5	13	50		G9G47050
6	6	15	50		G9G47060
8	8	20	60	0.13	G9G47080
10	10	25	75		G9G47100
12	12	30	75	0.18	G9G47120
14	14	40	100		G9G47140
16	16	40	100		G9G47160
20	20	40	100	0.23	G9G47200

YG K-2

General Purpose

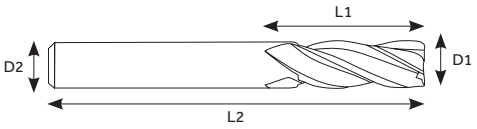
4 FLUTE COATED CARBIDE END MILL

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining where the best quality is required
- Suitable for dry milling applications at high temperatures (steel only)
- Centre cutting







MG SC | 3 | 30° | PLAIN | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	Order Code
1	4	3	50	G9432010
1.5	4	4	50	G9432015
2	4	6	50	G9432020
2.5	4	8	50	G9432025
3	3	8	50	G9432030
3	3	20	60	G9453903
3.5	4	10	50	G9432035
4	4	10	50	G9432040
4	4	20	60	G9453904
4.5	4.5	12	50	G9432045
5	5	13	50	G9432050
5	5	25	75	G9453905
5.5	5.5	15	50	G9432055
6	6	15	50	G9432060
6	6	30	75	G9453906
7	7	20	60	G9432070
8	8	20	60	G9432080
8	8	30	75	G9453908
9	9	20	60	G9432090
10	10	25	75	G9432100
10	10	40	100	G9453910
12	12	30	75	G9432120
12	12	45	100	G9453912
14	14	40	100	G9432140
14	14	45	100	G9453914
16	16	40	100	G9432160
16	16	45	100	G9453916
18	18	45	100	G9453918
20	20	40	100	G9432200
20	20	45	100	G9453920

YG K-2

General Purpose

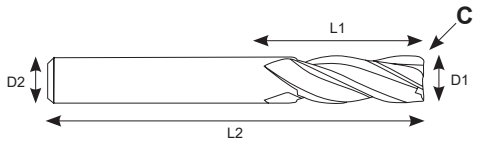
4 FLUTE COATED CARBIDE END MILL CHAMFER PREP

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining where the best quality is required
- Suitable for dry milling applications at high temperatures (steel only)
- Centre cutting with chamfer edge preparation, ideal to protect cutting edge against vibration
- Plain shank







MG SC | 4 | 30° | PLAIN | K2 COATED | C x 45°

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	D2	L1	L2	C	Order Code
3	3	8	50	0.1	G9G50030
4	4	10	50		G9G50040
5	5	13	50		G9G50050
6	6	15	50		G9G50060
8	8	20	60	0.13	G9G50080
10	10	25	75		G9G50100
12	12	30	75	0.18	G9G50120
14	14	40	100		G9G50140
16	16	40	100		G9G50160
20	20	40	100	0.23	G9G50200

YG 4G MILLS

4 FLUTE COATED CARBIDE END MILL FINISHER

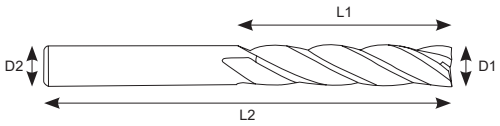
High Performance

Dry or Wet Cutting all Steel, Stainless Steel, Cast Iron & Hardened Steel <HRC55

- Exceptional performance in finishing applications for steel, stainless, cast iron and hardened steel milling
- Temperature resistant 1200°C with outstanding wear resistance
- High accuracy, tolerance 0~-0.03mm
- Wide choice of lengths and diameters
- Centre cutting







MG SC | 4 | 30° | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Hardened Steels HRC45~55	Stainless Steel	Cast Iron
●	●	●	●	○	●

D1	D2	L1	L2	Order Code
1	6	4	60	SEME7201004E
		6		SEME7201006E
1.5	6	6	60	SEME7201506E
2	6	8	60	SEME7202008E
		12		SEME7202012E
		14		SEME7202014E
2.5	6	10	60	SEME7202510E
		12		SEME7202512E
3	6	10	70	SEME7203010E
		12		SEME7203012E
		20		SEME7203020E
		30		SEME7203030E
4	6	12	70	SEME7204012E
		16		SEME7204016E
		20		SEME7204020E
		30		SEME7204030E
5	6	20	70	SEME7205020E
		25	70	SEME7205025E
		30	80	SEME7205030E
		40	100	SEME7205040E
6	6	20	70	SEME7206020E
		30	80	SEME7206030E
		35	90	SEME7206035E
6	6	40	90	SEME7206040E
		30	100	SEME7206030100E
		45	150	SEME7206045E
8	8	30	80	SEME7208030E
		40	90	SEME7208040E
		50	100	SEME7208050E
		50	150	SEME7208050150E
10	10	30	80	SEME7210030E
		50	100	SEME7210050E
		50	200	SEME7210050200E
12	12	35	90	SEME7212035E
		40	100	SEME7212040E
		60	110	SEME7212060E
		45	130	SEME7212045E
		60	150	SEME7212060150E
		60	200	SEME7212060200E
14	16	50	110	SEME7214050E
16	16	50	110	SEME7216050E
		60	120	SEME7216060E
		70	150	SEME7216070150E
20	20	60	130	SEME7220060E
		90	200	SEME7220090200E
		120	250	SEME72200120E

YG 4G MILLS

4 FLUTE COATED CARBIDE END MILL MULTIPLE HELIX HEAVY CUTTING

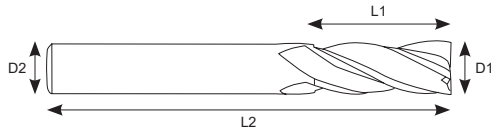
High Performance

Dry or Wet Cutting all Steel, Stainless Steel, Cast Iron & Hardened Steel <HRC55

- Multiple helix geometry for heavy cutting steel, stainless, cast iron and hardened steel milling
- Temperature resistant 1200°C with outstanding wear resistance
- Anti-vibration geometry
- Wide choice of lengths and diameters
- Centre cutting







MG SC | 4 | 35°/38° | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Hardened Steels HRC45~55	Stainless Steel	Cast Iron
●	●	●	●	○	●

D1	D2	L1	L2	Order Code
1	6	2	40	SEME7101002E
		3	50	SEME7101003E
		6	50	SEME7101006E
1.5	6	4	50	SEME71015E
		8	50	SEME7101508E
		10	50	SEME7101510E
2	6	2	40	SEME7102002E
		6	50	SEME71020E
		12	50	SEME7102012E
2.5	6	7	50	SEME71025E
		12	50	SEME7102512E
3	6	6	40	SEME7103006E
		12	50	SEME7103012E
4	6	8	40	SEME7104008E
		12	50	SEME7104012E
		16	50	SEME7104016E
5	6	10	50	SEME7105010E
		15	60	SEME71050E
		20	60	SEME7105020E
6	6	12	50	SEME7106012E
		15	60	SEME71060E
		25	60	SEME7106025E
8	8	16	60	SEME7108016E
		20	70	SEME71080E
		30	70	SEME7108030E
10	10	22	65	SEME7110022E
		25	75	SEME71100E
		35	75	SEME7110035E
12	12	30	80	SEME71120E
		40	80	SEME7112040E
14	16	35	100	SEME71140E
16	16	32	100	SEME7116032E
		40	100	SEME71160E
20	20	45	100	SEME71200E

YG JET-POWER

Advanced Performance

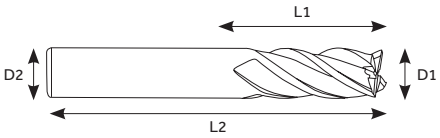
4 FLUTE 35° HELIX COATED CARBIDE SLOT DRILL

High Performance Machining of Stainless Steel & Titanium

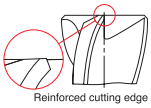
- Specific geometry and coating for best tool life and surface finish in stainless steel & titanium milling
- HSC = Suitable for high speed machining
- Reinforced cutting edge reduces chipping of corner edges
- Also suitable for low hardness steels (under HRC45)







MG SC | 4 | 35° | PLAIN | TiAlN 850 | HSC



Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Stainless Steel	Titanium
○	○	●	●

D1	D2	L1	L2	Order Code
2	4	6	40	EH913020
2	6	6	40	EH913901
2.5	4	8	40	EH913025
2.5	6	8	40	EH913902
3	6	8	45	EH913030
3.5	6	10	45	EH913035
4	6	11	45	EH913040
4.5	6	11	45	EH913045
5	6	13	50	EH913050
5.5	6	13	50	EH913055
6	6	13	50	EH913060
6.5	8	16	60	EH913065
7	8	16	60	EH913070
7.5	8	16	60	EH913075
8	8	19	60	EH913080
8.5	10	19	70	EH913085
9	10	19	70	EH913090
9.5	10	19	70	EH913095
10	10	22	70	EH913100
11	12	22	75	EH913110
12	12	26	75	EH913120
14	16	26	85	EH913140
16	16	32	100	EH913160
18	16	32	100	EH913180
20	20	38	105	EH913200
22	20	38	105	EH913220
25	25	45	120	EH913250

YG X5070

High Performance

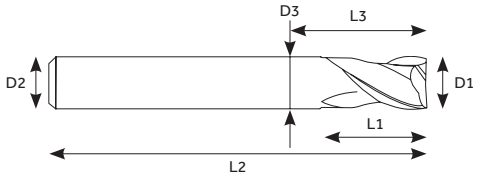
4 FLUTE COATED NANOGRAIN CARBIDE NECKED END MILL

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operation, tolerance 0~-0.012mm ≤Ø6, 0~-0.015mm >Ø6
- Silicon based coating with ultra high heat and wear-resistance







NG SC | 2 | 30° | PLAIN | X5070 COATED | HSC

Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30~40	HRC40~45	HRC45~55	HRC55~70
○	○	●	●

D1	D2	D3	L1	L2	L3	Order Code
1	6	0.95	1.5	50	3	G8A02010
2	6	1.95	2	50	5	G8A02020
3	6	2.85	3	55	8	G8A02030
4	6	3.85	4	55	10	G8A02040
5	6	4.85	5	55	13	G8A02050
6	6	5.85	6	55	15	G8A02060
8	8	7.7	8	65	20	G8A02080
10	10	9.7	10	75	25	G8A02100
12	12	11.7	12	85	28	G8A02120
16	16	15.7	16	90	32	G8A02160
20	20	19.7	20	105	40	G8A02200

YG 4G MILLS

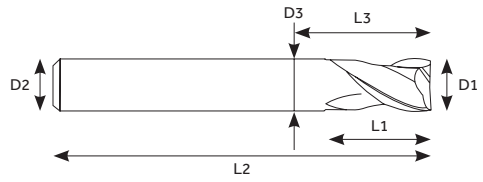
High Performance

4 FLUTE COATED CARBIDE NECKED END MILL

Excellent Performance on Dry or Wet Cutting all Steel, Stainless, Cast Iron & Hardened Steel <HRC55

- YG-1's Y1200 coating & premium micrograin carbide substrate
- HSC = High speed cutting
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Wide range of neck lengths for rib processing/pocket milling operations





NG SC | 4 | 30° | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels	Pre Hard. Steels	Hardened Steels		Stainless Steel	Cast Iron
~HB325	HRC30~40	HRC40~45	HRC45~55		
●	●	●	●	●	●

D1	D2	L1	L2	L3	Order Code
1	4	1.5	50	4	SEME7301004E
			50	5	SEME7301005E
			50	6	SEME7301006E
			50	8	SEME7301008E
			50	12	SEME7301012E
			50	16	SEME7301016E
			50	20	SEME7301020E
			70	30	SEME7301030E
1.5	4	2.3	50	8	SEME7301508E
			50	10	SEME7301510E
			50	12	SEME7301512E
			50	16	SEME7301516E
			60	22	SEME7301522E
			70	30	SEME7301530E
2	4	3	50	8	SEME7302008E
			50	10	SEME7302010E
			50	12	SEME7302012E
			50	14	SEME7302014E
			50	16	SEME7302016E
			50	20	SEME7302020E
			60	26	SEME7302026E
			70	35	SEME7302035E
			90	45	SEME7302045E

D1	D2	L1	L2	L3	Order Code
3	6	4.5	50	10	SEME7303010E
			60	16	SEME7303016E
			65	22	SEME7303022E
			70	30	SEME7303030E
			80	40	SEME7303040E
			100	60	SEME7303060E
4	6	6	60	16	SEME7304016E
			60	20	SEME7304020E
			65	26	SEME7304026E
			70	35	SEME7304035E
			80	40	SEME7304040E
			100	60	SEME7304060E
5	6	8	60	20	SEME7305020E
			75	35	SEME7305035E
			100	60	SEME7305060E
6	6	9	60	15	SEME7306015E
			70	30	SEME7306030E
8	8	12	70	25	SEME7308025E
			100	42	SEME7308042E
10	10	15	75	30	SEME7310030E
			100	45	SEME7310045E
12	12	20	80	35	SEME7312035E
			110	50	SEME7312050E

YG K-2

General Purpose

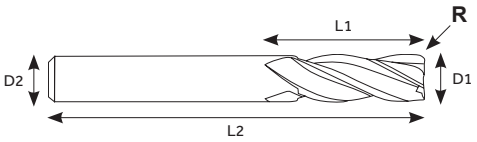
2 FLUTE COATED CARBIDE SLOT DRILLS, CORNER RADIUS

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Designed for milling of radius bottom slots, fillets and special contours







MG SC | 2 | 30° | DIN 6535HA | K2 COATED | CORNER RADIUS

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	R	D2	L1	L2	Order Code
2	0.2	4	4	50	G9B82020
	0.3				G9B82901
	0.5				G9B82902
2.5	0.2	4	5	50	G9B82025
	0.3				G9B82903
	0.5				G9B82904
3	0.2	4	6	50	G9B82030
	0.3				G9B82905
	0.5				G9B82906
	1				G9B82907
	0.5	4	6	75	G9B83030
	1				G9B83901
4	0.2	4	8	50	G9B82040
	0.3				G9B82908
	0.5				G9B82909
	1				G9B82910
	0.5	4	8	75	G9B83040
	1				G9B83902
5	0.2	6	10	50	G9B82050
	0.3				G9B82911
	0.5				G9B82912
	1				G9B82913
	0.5	6	10	75	G9B83050
	1				G9B83903
6	0.2	6	12	50	G9B82060
	0.3				G9B82914
	0.5				G9B82915
	1				G9B82916
	0.5	6	12	75	G9B83060
	1				G9B83904

D1	R	D2	L1	L2	Order Code
8	0.5	8	16	60	G9B82080
	1				G9B82917
	1.5				G9B82918
	2				G9B82919
	2.5				G9B82920
	0.5	8	16	100	G9B83080
	1				G9B83905
	1.5				G9B83906
	2				G9B83907
	2.5				G9B83908
10	0.5	10	20	75	G9B82100
	1				G9B82921
	1.5				G9B82922
	2				G9B82923
	2.5				G9B82924
	0.5	10	20	100	G9B83100
	1				G9B83909
	1.5				G9B83910
	2				G9B83911
	2.5				G9B83912
12	0.5	12	24	75	G9B82120
	1				G9B82925
	1.5				G9B82926
	2				G9B82927
	2.5				G9B82928
	0.5	12	24	100	G9B83120
	1				G9B83913
	1.5				G9B83914
	2				G9B83915
	2.5				G9B83916

YG X5070

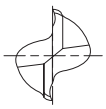
High Performance

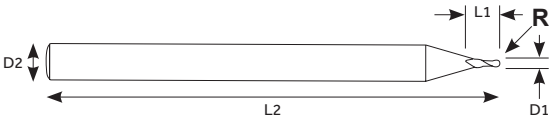
2 FLUTE COATED NANOGRAIN CARBIDE, MINIATURE, CORNER RADIUS

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Deep slotting is possible with reduced neck
- Silicon based coating with ultra high heat and wear-resistance







NG SC | 2 | 30° | R ±0.010 | PLAIN | X5070 COATED | HSC | CORNER RADIUS

Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Hardened Steels HRC45-55	High Hard. Steels HRC55-70
○	○	●	●

D1	R	D2	L1	L2	Order Code
0.3	-	6	0.45	50	G8A50003
0.4	-		0.6		G8A50004
0.5	0.05		0.7		G8A50005
0.6	0.05		0.9		G8A50006
0.8	0.05		1.2		G8A50008
1	0.1		1.5		G8A50010
1.2	0.1		1.8		G8A50012
1.5	0.15		2.2		G8A50015
2	0.15		2.2		G8A50020

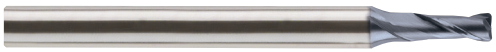
YG 4G MILLS

High Performance

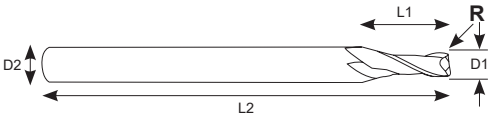
2 FLUTE COATED CARBIDE SLOT DRILLS, CORNER RADIUS

Excellent Performance on Dry or Wet Cutting all Steel, Stainless Steel, Cast Iron & Hardened Steel <HRC55

- YG-1's Y1200 coating & premium micrograin carbide substrate
- HSC = High speed cutting
- Due to special coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Available with various corner radius from R0.02mm to R5.0mm







MG SC | 2 | 30° | PLAIN | Y1200 COATED | HSC | CORNER RADIUS

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Hardened Steels HRC45-55	Stainless Steel	Cast Iron
●	●	●	●	●	●

D1	R	D2	L1	L2	Order Code
0.3	0.02	4	0.6	40	SEMD99003002E
	0.05				SEMD99003005E
0.4	0.05	4	0.8	40	SEMD99004005E
	0.1				SEMD9900401E
0.5	0.05	4	1	40	SEMD99005005E
	0.1				SEMD9900501E
1	0.05	6	2.5	50	SEMD99010005E
	0.1				SEMD9901001E
	0.2				SEMD9901002E
	0.3				SEMD9901003E
1.5	0.05	6	4	50	SEMD99015005E
	0.1				SEMD9901501E
	0.2				SEMD9901502E
	0.3				SEMD9901503E
	0.5	6	4		SEMD9901505E
2	0.1	6	6	50	SEMD9902001E
	0.2				SEMD9902002E
	0.3				SEMD9902003E
	0.5				SEMD9902005E
2.5	0.1	6	7	60	SEMD9902501E
	0.2				SEMD9902502E
	0.3				SEMD9902503E
	0.5				SEMD9902505E
3	0.1	6	8	60	SEMD9903001E
	0.2				SEMD9903002E
	0.3				SEMD9903003E
	0.5				SEMD9903005E
	1				SEMD9903010E
4	0.1	4	10	70	SEMD99040014SE
	0.2				SEMD99040024SE
	0.3				SEMD99040034SE
	0.5				SEMD99040054SE
	1				SEMD99040104SE
	0.1	4	10	100	SEMD99040011004SE
	0.2				SEMD99040021004SE
	0.3				SEMD99040031004SE
	0.5				SEMD99040051004SE
	1				SEMD99040101004SE
5	0.1	6	13	90	SEMD9905001E
	0.2				SEMD9905002E
	0.3				SEMD9905003E
	0.5				SEMD9905005E
	1				SEMD9905010E
6	0.2	6	15	60	SEMD9906002060E
	0.3				SEMD9906003060E
	0.5				SEMD9906005060E
	1				SEMD9906010060E
	0.1	6	15	90	SEMD9906001E
	0.2				SEMD9906002E
	0.3				SEMD9906003E
	0.5				SEMD9906005E
	1				SEMD9906010E
	1.5				SEMD9906015E
	2				SEMD9906020E
	0.5	6	15	130	SEMD9906005130E
	1				SEMD9906010130E

D1	R	D2	L1	L2	Order Code
8	0.3	8	20	70	SEMD9908003070E
	0.5				SEMD9908005070E
	1				SEMD9908010070E
	0.1	8	20	100	SEMD9908001E
	0.2				SEMD9908002E
	0.3				SEMD9908003E
	0.5				SEMD9908005E
	1				SEMD9908010E
	1.5				SEMD9908015E
	2				SEMD9908020E
	2.5				SEMD9908025E
	3				SEMD9908030E
	0.5	8	20	150	SEMD9908015150E
	1				SEMD9908010150E
10	0.3	10	25	75	SEMD9910003075E
	0.5				SEMD9910005075E
	1				SEMD9910010075E
	0.1	10	25	100	SEMD9910001E
	0.2				SEMD9910002E
	0.3				SEMD9910003E
	0.5				SEMD9910005E
	1				SEMD9910010E
	1.5				SEMD9910015E
	2				SEMD9910020E
	2.5				SEMD9910025E
	3				SEMD9910030E
	4				SEMD9910040E
	0.5	10	25	150	SEMD9910005150E
	1				SEMD9910010150E
12	0.3	12	30	80	SEMD9912003080E
	0.5				SEMD9912005080E
	1				SEMD9912010080E
	0.1	12	30	110	SEMD9912001E
	0.2				SEMD9912002E
	0.3				SEMD9912003E
	0.5				SEMD9912005E
	1				SEMD9912010E
	1.5				SEMD9912015E
	2				SEMD9912020E
	2.5				SEMD9912025E
	3				SEMD9912030E
	4				SEMD9912040E
	5				SEMD9912050E
	0.5	12	30	150	SEMD9912005150E
	1				SEMD9912010150E
14	0.5	16	35	150	SEMD9914005E
	1				SEMD9914010E
	2				SEMD9914020E
16	0.5	16	32	150	SEMD9916005E
	1				SEMD9916010E
	1.5				SEMD9916015E
	2				SEMD9916020E
20	0.5	20	38	150	SEMD9920005E
	1				SEMD9920010E
	1.5				SEMD9920015E
	2				SEMD9920020E

YG K-2

General Purpose

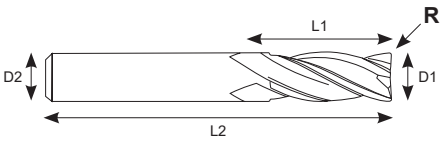
4 FLUTE COATED CARBIDE END MILLS, CORNER RADIUS

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Designed for milling of radius bottom slots, fillets and special contours







MG SC | 4 | 30° | DIN 6535HA | K2 COATED | CORNER RADIUS

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	R	D2	L1	L2	Order Code
2	0.2	4	4	50	G9B84020
	0.3				G9B84901
	0.5				G9B84902
2.5	0.2	4	5	50	G9B84025
	0.3				G9B84903
	0.5				G9B84904
3	0.2	4	6	50	G9B84030
	0.3				G9B84905
	0.5				G9B84906
	1				G9B84907
	0.5	4	6	75	G9B85030
	1				G9B85901
4	0.2	4	8	50	G9B84040
	0.3				G9B84908
	0.5				G9B84909
	1				G9B84910
	0.5	4	8	75	G9B85040
	1				G9B85902
5	0.2	6	10	50	G9B84050
	0.3				G9B84911
	0.5				G9B84912
	1				G9B84913
	0.5	6	10	75	G9B85050
	1				G9B85903
6	0.2	6	12	50	G9B84060
	0.3				G9B84914
	0.5				G9B84915
	1				G9B84916
	0.5	6	12	75	G9B85060
	1				G9B85904
8	0.5	8	16	60	G9B84080
	1				G9B84917
	1.5				G9B84918
	2				G9B84919
	2.5				G9B84920
	0.5	8	16	100	G9B85080
	1				G9B85905
	1.5				G9B85906
	2				G9B85907
	2.5				G9B85908
10	0.5	10	20	75	G9B84100
	1				G9B84921
	1.5				G9B84922
	2				G9B84923
	2.5				G9B84924
	0.5	10	20	100	G9B85100
	1				G9B85909
	1.5				G9B85910
	2				G9B85911
	2.5				G9B85912
12	0.5	12	24	75	G9B84120
	1				G9B84925
	1.5				G9B84926
	2				G9B84927
	2.5				G9B84928
	0.5	12	24	100	G9B85120
	1				G9B85913
	1.5				G9B85914
	2				G9B85915
	2.5				G9B85916

YG 4G MILLS

High Performance

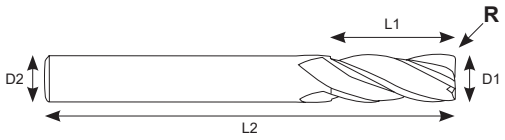
4 FLUTE COATED CARBIDE END MILLS, CORNER RADIUS, MULTIPLE HELIX

Excellent Performance on Dry or Wet Cutting all Steel, Stainless Steel, Cast Iron & Hardened Steel <HRC55

- YG-1's Y1200 coating & premium micrograin carbide substrate
- HSC = High speed cutting
- Vibration is minimised due to Multiple Helix geometry (3mm+ diameter only)
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Available with various corner radius from R0.02mm to R5.0mm





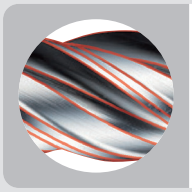


MG SC | 4 | 30° | PLAIN | M-Helix | Y1200 COATED | CORNER RADIUS

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Hardened Steels HRC45~55	Stainless Steel	Cast Iron
●	●	●	●	●	●

D1	R	D2	L1	L2	Order Code
1	0.05	6	2.5	50	SEME01010005E
	0.1				SEME0101001E
	0.2				SEME0101002E
	0.3				SEME0101003E
1.5	0.05	6	4	50	SEME01015005E
	0.1				SEME0101501E
	0.2				SEME0101502E
	0.3				SEME0101503E
	0.5				SEME0101505E
2	0.1	6	6	50	SEME0102001E
	0.2				SEME0102002E
	0.3				SEME0102003E
	0.5				SEME0102005E
2.5	0.1	6	7	60	SEME0102501E
	0.2				SEME0102502E
	0.3				SEME0102503E
	0.5				SEME0102505E
3	0.1	6	8	60	SEME0103001E
	0.2				SEME0103002E
	0.3				SEME0103003E
	0.5				SEME0103005E
	1				SEME0103010E
4	0.1	4	10	70	SEME01040014SE
	0.2				SEME01040024SE
	0.3				SEME01040034SE
	0.5				SEME01040054SE
	1				SEME01040104SE
	0.1	4	10	100	SEME01040011004SE
	0.2				SEME01040021004SE
	0.3				SEME01040031004SE
	0.5				SEME01040051004SE
	1				SEME01040101004SE
4.5	0.2	6	11	80	SEME0104502E
	0.3				SEME0104503E
	0.5				SEME0104505E
5	0.2	6	13	90	SEME0105002E
	0.3				SEME0105003E
	0.5				SEME0105005E
	1				SEME0105010E
6	0.1	6	15	60	SEME0106001060E
	0.2				SEME0106002060E
	0.2	6	15	90	SEME0106002E
	0.3				SEME0106003E
	0.5				SEME0106005E
	1				SEME0106010E
	1.5				SEME0106015E
	2				SEME0106020E
	0.5	6	15	130	SEME0106005130E
	1				SEME0106010130E

D1	R	D2	L1	L2	Order Code
8	0.3	8	20	70	SEME0108003070E
	0.5				SEME0108005070E
	1				SEME0108010070E
	0.2	8	20	100	SEME0108002E
	0.3				SEME0108003E
	0.5				SEME0108005E
	1				SEME0108010E
	1.5				SEME0108015E
	2				SEME0108020E
	2.5				SEME0108025E
	3				SEME0108030E
	0.5	8	20	150	SEME0108005150E
	1				SEME0108010150E
10	0.3	10	25	75	SEME0110003075E
	0.5				SEME0110005075E
	1				SEME0110010075E
	0.2	10	25	100	SEME0110002E
	0.3				SEME0110003E
	0.5				SEME0110005E
	1				SEME0110010E
	1.5				SEME0110015E
	2				SEME0110020E
	2.5				SEME0110025E
	3				SEME0110030E
	4				SEME0110040E
	0.5	10	22	150	SEME0110005150E
	1				SEME0110010150E
12	0.3	12	30	80	SEME0112003080E
	0.5				SEME0112005080E
	1				SEME0112010080E
	0.2	12	30	110	SEME0112002E
	0.3				SEME0112003E
	0.5				SEME0112005E
	1				SEME0112010E
	1.5				SEME0112015E
	2				SEME0112020E
	2.5				SEME0112025E
	3				SEME0112030E
	4				SEME0112040E
	5				SEME0112050E
	0.5	12	30	150	SEME0112005150E
	1				SEME0112010150E
16	0.5	16	32	150	SEME0116005E
	1				SEME0116010E
	1.5				SEME0116015E
	2				SEME0116020E
20	1	20	38	150	SEME0120010E
	1.5				SEME0120015E
	2				SEME0120020E



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.

YG 4G MILLS

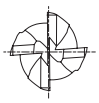
High Performance

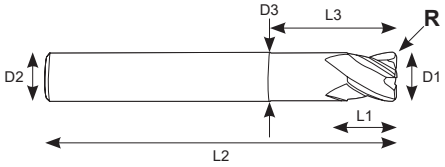
4 FLUTE COATED CARBIDE, NECKED, CORNER RADIUS, MULTIPLE HELIX

Excellent Performance on Dry or Wet Cutting all Steel, Stainless, Cast Iron & Hardened Steel <HRC55

- YG-1's Y1200 coating & premium micrograin carbide substrate
- HSC = High speed cutting
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Vibration is minimised due to Multiple Helix geometry (3mm+ diameter only)





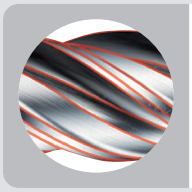


MG SC | 4 | M-Helix | R ±0.02 | PLAIN | Y1200 COATED | HSC | CORNER RADIUS

Carbon & Alloy Steels ~HB325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-45	Hardened Steels HRC45-55	Stainless Steel	Cast Iron
●	●	●	●	●	●

D1	R	D2	L1	L2	L3	Order Code
1	0.1	4	1.5	50	4	SEME640100104E
					8	SEME640100108E
	0.2	4	1.5	50	4	SEME640100204E
					8	SEME640100208E
	0.3	4	1.5	50	4	SEME640100304E
					8	SEME640100308E
1.5	0.1	4	2.3	50	6	SEME640150106E
					12	SEME640150112E
	0.2	4	2.3	50	6	SEME640150206E
					12	SEME640150212E
	0.3	4	2.3	50	6	SEME640150306E
					12	SEME640150312E
	0.5	4	2.3	50	6	SEME640150506E
					12	SEME640150512E
2	0.1	4	3	50	6	SEME640200106E
					12	SEME640200112E
	0.2	4	3	50	6	SEME640200206E
					12	SEME640200212E
	0.3	4	3	50	6	SEME640200306E
					12	SEME640200312E
	0.5	4	3	50	6	SEME640200506E
					12	SEME640200512E
3	0.2	6	4.5	50	10	SEME640300210E
					12	SEME640300212E
	0.2	6	4.5	60	16	SEME640300216E
					20	SEME640300220E
	0.3	6	4.5	50	8	SEME640300308E
					10	SEME640300310E
					12	SEME640300312E
	0.3	6	4.5	60	16	SEME640300316E
	0.5	6	4.5	50	8	SEME640300508E
					12	SEME640300512E
					16	SEME640300516E
	0.5	6	4.5	65	26	SEME640300526E
	1	6	4.5	50	8	SEME640301008E
					12	SEME640301012E
	1	6	4.5	60	16	SEME640301016E

D1	R	D2	L1	L2	L3	Order Code
4	0.2	6	6	50	10	SEME640400210E
				60	16	SEME640400216E
				65	26	SEME640400226E
	0.3	6	6	50	12	SEME640400312E
				60	16	SEME640400316E
				65	26	SEME640400326E
	0.5	6	6	50	10	SEME640400510E
				60	16	SEME640400516E
				60	20	SEME640400520E
	1	6	6	50	10	SEME640401010E
				60	16	SEME640401016E
				65	26	SEME640401026E
6	0.3	6	9	60	20	SEME6406003E
	0.5			60	20	SEME6406005E
	1			60	20	SEME6406010E
				90	30	SEME6406010090E
8	0.2	8	12	70	25	SEME6408002E
	0.3					SEME6408003E
	0.5					SEME6408005E
	1					SEME6408010E
	1.5					SEME6408015E
	2					SEME6408020E
10	0.3	10	15	75	30	SEME6410003E
	0.5					SEME6410005E
	1					SEME6410010E
	1.5					SEME6410015E
	2					SEME6410020E
12	0.3	12	18	80	32	SEME6412003E
	0.5					SEME6412005E
	1					SEME6412010E
	1.5					SEME6412015E
	2					SEME6412020E
16	0.5	16	20	100	35	SEME6416005E
	1					SEME6416010E
20	0.5	20	35	100	40	SEME6420005E
	1					SEME6420010E
	0.5	20	35	150	55	SEME6420005150E
	1					SEME6420010150E



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.

YG X5070

High Performance

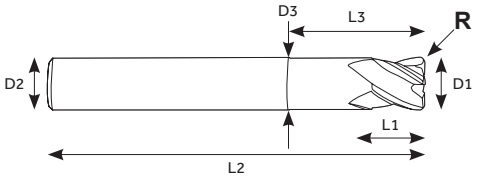
4 FLUTE COATED NANOGRAIN CARBIDE, NECKED, CORNER RADIUS

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Deep slotting is possible with reduced neck
- Silicon based coating with ultra high heat and wear-resistance







Up to Ø6 Over Ø6

NG SC | 4 | 30° | R ±0.010 | R ±0.015 | PLAIN | X5070 COATED | HSC | CORNER RADIUS

Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30-40	HRC40-45	HRC45-55	HRC55-70
○	○	●	●

D1	R	D2	D3	L1	L2	L3	Order Code
1	0.1	3	-	1.5	40	-	G8A37010
	0.1	6	-	1.5	40	-	G8A37901
1.5	0.1	3	-	2.2	40	-	G8A37015
	0.1	6	-	2.2	40	-	G8A37902
2	0.1	3	1.95	3	40	6	G8A37020
	0.1	6		3	40	6	G8A37903
2.5	0.1	3	2.4	4	40	6	G8A37025
	0.1	6		4	40	6	G8A37904
3	0.1	6	2.85	4	45	7	G8A37030
	0.3			4	55	12	G8A47916
	0.3			4	55	16	G8A47917
	0.3			4	55	20	G8A47918
	0.5			4	55	10	G8A47030
	0.5			4	55	16	G8A47901
	0.5			4	55	20	G8A47902
3.5	0.1	6	3.35	5	45	9	G8A37035
4	0.1	6	3.85	5	45	9	G8A37040
	0.3			5	55	12	G8A47919
	0.3			5	55	16	G8A47920
	0.3			5	55	20	G8A47921
	0.5			5	55	12	G8A47040
	0.5			5	55	16	G8A47903
	0.5			5	55	20	G8A47904
	1			5	55	12	G8A47922
4.5	0.1	6	4.35	6	45	10	G8A37045
5	0.2	6	4.85	6	50	11	G8A37050
6	0.2	6	5.85	7	50	14	G8A37060
	0.5			7	60	20	G8A47060
	0.5			9	90	20	G8B0806005090
	1			7	60	20	G8A47905
	1			9	90	20	G8B0806010090
	1.5			7	60	20	G8A47906
8	0.2	8	7.7	9	60	18	G8A37080
	0.5			9	60	25	G8A47910
	0.5			12	100	25	G8B0808005100
	1			9	60	25	G8A47080
	1			12	100	25	G8B0808010100
	1.5			9	60	25	G8A47907
	2			9	60	25	G8A47913
10	0.2	10	9.7	12	75	25	G8A37100
	0.5			11	70	32	G8A47911
	0.5			15	100	32	G8B0810005100
	1			11	70	32	G8A47100
	1			15	100	32	G8B0810010100
	1.5			11	70	32	G8A47908
	2			11	70	32	G8A47914
	2			15	100	32	G8B0810020100
12	0.3	12	11.7	15	75	30	G8A37120
	0.5			12	80	38	G8A47912
	0.5			18	110	38	G8B0812005110
	1			12	80	38	G8A47120
	1			18	110	38	G8B0812010110
	1.5			12	80	38	G8A47909
	2			12	80	38	G8A47915
	2			18	110	38	G8B0812020110
16	0.3	16	15.7	18	90	38	G8A37160
20	0.3	20	19.7	24	100	45	G8A37200

YG K-2

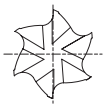
General Purpose

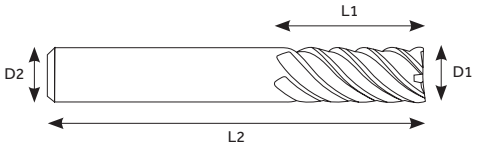
6 FLUTE CARBIDE END MILL 45° HELIX

For General Purpose Milling of Steels <HRC45 & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Suitable for machining at high feed rates for finishing operations
- Exceptional performance in finishing operations due to 45° helix and sharp cutting edges







MG SC | 4&6 | 45° | DIN 6535HA | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~45	Stainless Steel	Cast Iron
●	●	○	●

D1	D2	L1	L2	Order Code
5	6	13	50	G9F45050
6	6	16	50	G9F45060
8	8	19	60	G9F45080
10	10	22	75	G9F45100
12	12	26	75	G9F45120
		50	100	G9F46120
14	14	30	90	G9F45140
16	16	32	100	G9F45160
		65	150	G9F46160
18	18	38	100	G9F45180
20	20	38	100	G9F45200
		75	150	G9F46200

YG **JET-POWER**

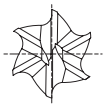
High Performance

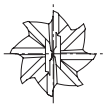
6-8 FLUTE ULTRAFINE CARBIDE END MILL 45° HELIX POSITIVE RAKE

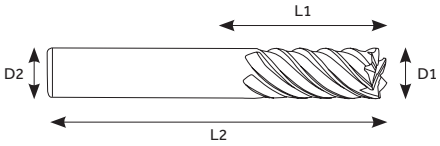
For Supreme Finish Milling on Stainless Steel, Titanium & Inconel

- The Jet Power 45° helix end mill features a sharp cutting edge and positive rake angle, specifically designed for finishing applications on stainless steel and heat resistant metals
- TiAlN coated ultrafine micrograin carbide
- HSC = Suitable for high speed machining
- Reinforced cutting edge reduces chipping of corner edges
- Ideal for lower power or older machines where high performance cutting is not possible









MG SC | 6&8 | 45° | PLAIN | TiAlN 850 | HSC

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

D1	D2	L1	L2	No. of Flutes	Order Code
6	6	13	57	6	EH915060
7	8	16	63		EH915070
8	8	19	63		EH915080
9	10	19	72		EH915090
10	10	22	72		EH915100
12	12	26	83		EH915120
14	14	26	83		EH915140
16	16	32	92		EH915160
18	18	32	92	8	EH915180
20	20	38	104		EH915200
25	25	44	104		EH915250

YG 4G MILLS

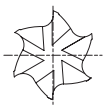
High Performance

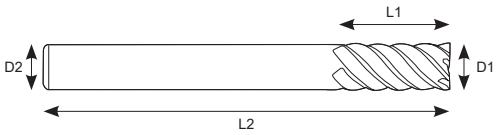
6 FLUTE CARBIDE END MILL 45° HELIX

Exceptional Performance on Steel & Hardened Steel <HRC55, Stainless Steel & Cast Iron

- The 4G Mill geometry offers exceptional performance on steels & hardened steels <55 rockwell, as well as good performance in stainless steel and cast iron applications
- YG-1's Y1200 coating & premium micrograin carbide substrate
- HSC = High speed cutting
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Exceptional surface finish in profiling operations
- Available with flute lengths <8xD







MG SC | 6 | 45° | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~70	Stainless Steel	Cast Iron
●	●	●	○	●

D1	D2	L1	L2	Order Code
6	6	15	60	SEME75060E
		20	70	SEME7506020E
		30	80	SEME7506030E
		30	110	SEME7506030110E
8	8	20	70	SEME75080E
		30	80	SEME7508030E
		35	90	SEME7508035E
		40	90	SEME7508040E
		40	130	SEME7508040130E
10	10	25	75	SEME75100E
		30	80	SEME7510030E
		40	90	SEME7510040E
		50	100	SEME7510050E
		50	150	SEME7510050150E
12	12	30	80	SEME75120E
		50	100	SEME7512050E
		60	110	SEME7512060E
		60	150	SEME7512060150E
16	16	40	100	SEME75160E
		50	110	SEME7516050E
		60	120	SEME7516060E
		90	150	SEME7516090E
		110	200	SEME75160110E
		110	250	SEME75160110250E
20	20	45	100	SEME75200E
		60	120	SEME7520060E
		70	130	SEME7520070E
		110	200	SEME75200110E
		110	250	SEME75200110250E
		110	300	SEME75200110300E

YG V7Plus

High Performance

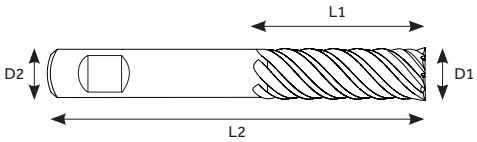
6 FLUTE ULTRAFINE CARBIDE END MILL 45° HELIX

High Performance All-Rounder for Stainless Steel, HRSA's, Cast Iron & Steels <HRC40

- Y1200 coated ultrafine micrograin carbide
- The V7+ geometry of the variable pitch reduces chatter for high speed and trochoidal milling
- Can be used for finishing or high feed roughing
- Recommended for use with high performance tool holders







MG SC | 6 | 45° | TROCHOIDAL | PLAIN | WELDON | Y1200 COATED | HSC

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
6	6	13	57	GMG12060	GMG13060
		24	75	GMG14060	GMG15060
8	8	19	63	GMG12080	GMG13080
		32	75	GMG14080	GMG15080
10	10	22	72	GMG12100	GMG13100
		40	100	GMG14100	GMG15100
12	12	26	83	GMG12120	GMG13120
		48	120	GMG14120	GMG15120
16	16	32	92	GMG12160	GMG13160
		64	140	GMG14160	GMG15160
20	20	38	104	GMG12200	GMG13200
		80	150	GMG14200	GMG15200
25	25	44	104	GMG12250	GMG13250
		100	170	GMG14250	GMG15250

YG V7Plus

High Performance

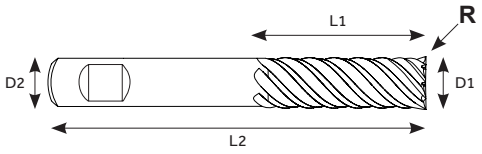
6 FLUTE ULTRAFINE CARBIDE 45° HELIX CORNER RADIUS

High Performance All-Rounder for Stainless Steel, HRSA's, Cast Iron & Steels <HRC40

- Y1200 coated ultrafine micrograin carbide
- The V7+ geometry of the variable pitch reduces chatter for high speed and trochoidal milling
- Can be used for finishing or high feed roughing
- Recommended for use with high performance tool holders







MG SC | 6 | 45° | TROCHOIDAL | PLAIN | WELDON | Y1200 COATED | HSC | CORNER RADIUS

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
6	0.5	6	13	57	GMG16060	GMG17060
	1				GMG16901	GMG17901
	0.5	6	24	75	GMG18060	GMG19060
	1				GMG18901	GMG19901
8	0.5	8	32	75	GMG18080	GMG19080
	1				GMG18902	GMG19902
	2				GMG18903	GMG19903
	0.5	8	19	63	GMG16080	GMG17080
	1				GMG16902	GMG17902
10	0.5	10	40	100	GMG18100	GMG19100
	1				GMG18904	GMG19904
	1.5				GMG18905	GMG19905
	2				GMG18906	GMG19906
	0.5	10	22	72	GMG16100	GMG17100
	1				GMG16903	GMG17903
	1.5				GMG16904	GMG17904
	2				GMG16905	GMG17905
12	0.5	12	26	83	GMG16120	GMG17120
	1				GMG16906	GMG17906
	1.5				GMG16907	GMG17907
	2				GMG16908	GMG17908
	3				GMG16909	GMG17909
	0.5	12	48	120	GMG18120	GMG19120
	1				GMG18907	GMG19907
	1.5				GMG18908	GMG19908
	2				GMG18909	GMG19909
	3				GMG18910	GMG19910
16	1	16	32	92	GMG16160	GMG17160
	1.5				GMG16910	GMG17910
	2				GMG16911	GMG17911
	3				GMG16912	GMG17912
	1	16	64	140	GMG18160	GMG19160
	1.5				GMG18911	GMG19911
	2				GMG18912	GMG19912
	3				GMG18913	GMG19913
20	1	20	38	104	GMG16200	GMG17200
	1.5				GMG16913	GMG17913
	2				GMG16914	GMG17914
	3				GMG16915	GMG17915
	1	20	80	150	GMG18200	GMG19200
	1.5				GMG18914	GMG19914
	2				GMG18915	GMG19915
	3				GMG18916	GMG19916
	4				GMG18917	GMG19917
	5				GMG18918	GMG19918
25	1	25	44	104	GMG16250	GMG17250
	1.5				GMG16916	GMG17916
	2				GMG16917	GMG17917
	3				GMG16918	GMG17918

YG V7Plus

High Performance

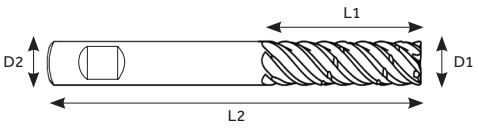
6 FLUTE ULTRAFINE CARBIDE END MILL 45° HELIX, CHIP SPLITTER

High Performance All-Rounder for Stainless Steel, HRSA's, Cast Iron & Steels <HRC40

- Y1200 coated ultrafine micrograin carbide
- The V7+ geometry of the variable pitch reduces chatter for high speed and trochoidal milling
- Can be used for finishing or high feed roughing
- Recommended for use with high performance tool holders







MG SC | 6 | 45° | TROCHOIDAL | PLAIN | WELDON | Y1200 COATED | HSC

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
6	6	24	75	GMH56060	GMH57060
8	8	32	75	GMH56080	GMH57080
10	10	40	100	GMH56100	GMH57100
12	12	48	120	GMH56120	GMH57120
16	16	64	140	GMH56160	GMH57160
20	20	80	150	GMH56200	GMH57200
25	25	100	170	GMH56250	GMH57250

YG V7Plus

High Performance

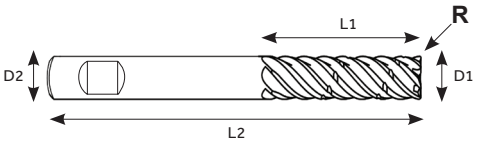
6 FLUTE ULTRAFINE CARBIDE END MILL 45° HELIX CORNER RADIUS, CHIP SPLITTER

High Performance All-Rounder for Stainless Steel, HRSA's, Cast Iron & Steels <HRC40

- Y1200 coated ultrafine micrograin carbide
- The V7+ geometry of the variable pitch reduces chatter for high speed and trochoidal milling
- Can be used for finishing or high feed roughing
- Recommended for use with high performance tool holders







MG SC | 6 | 45° | TROCHOIDAL | PLAIN | WELDON | Y1200 COATED | HSC | CORNER RADIUS

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
6	0.5	6	24	75	GMH58060	GMH59060
	1				GMH58901	GMH59901
8	0.5	8	32	75	GMH58080	GMH59080
	1				GMH58902	GMH59902
	2				GMH58903	GMH59903
10	0.5	10	40	100	GMH58100	GMH59100
	1				GMH58904	GMH59904
	1.5				GMH58905	GMH59905
	2				GMH58906	GMH59906
12	0.5	12	48	120	GMH58120	GMH59120
	1				GMH58907	GMH59907
	1.5				GMH58908	GMH59908
	2				GMH58909	GMH59909
	3				GMH58910	GMH59910
16	1	16	64	140	GMH58160	GMH59160
	1.5				GMH58911	GMH59911
	2				GMH58912	GMH59912
	3				GMH58913	GMH59913
20	1	20	80	150	GMH58200	GMH59200
	1.5				GMH58914	GMH59914
	2				GMH58915	GMH59915

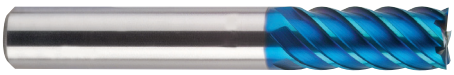
YG X5070

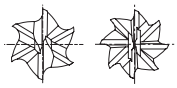
High Performance

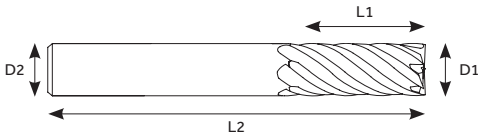
6 & 8 FLUTE NANOGRAIN CARBIDE 45° HELIX

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide + Silicon based coating with ultra high heat and wear-resistance
- HSC = High speed cutting (dry)
- Designed for high abrasion resistance thanks to negative rake angle
- Excellent performance side-cutting for mirror finish machining







NG SC | 6&8 | 45° | TROCHOIDAL | PLAIN | X5070 COATED | HSC

Pre Hard. Steels HRC30~40	Hardened Steels HRC40~70
●	●

D1	D2	L1	L2	No. of Flutes	Order Code
6	6	13	57	6	G8D63060
		26	70		G8D64060
8	8	19	63		G8D63080
		36	90		G8D64080
10	10	22	72		G8D63100
		46	100		G8D64100
12	12	26	83		G8D63120
		56	110		G8D64120
14	14	26	83		G8D63140
16	16	32	92		G8D63160
		66	130		G8D64160
18	18	32	92	8	G8D63180
20	20	38	104		G8D63200
		76	140		G8D64200
25	25	44	104		G8D63250
		92	180		G8D64250

YG X5070

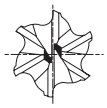
High Performance

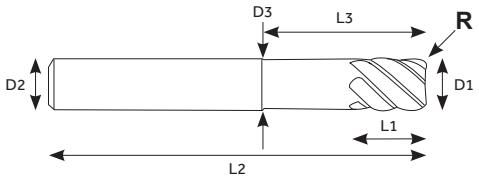
6 FLUTE NANOGRAIN CARBIDE 45° HELIX CORNER RADIUS

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide + Silicon based coating with ultra high heat and wear-resistance
- HSC = High speed cutting (dry)
- Designed for high abrasion resistance thanks to negative rake angle
- Excellent performance side-cutting for mirror finish machining







NG SC | 6 | 45° | TROCHOIDAL | PLAIN | X5070 COATED | HSC | CORNER RADIUS

Pre Hard. Steels HRC30~40	Hardened Steels HRC40~70
●	●

D1	R	D2	D3	L1	L2	L3	Order Code
6	0.25	6	5.85	6	50	14	G8A39916
	0.5		5.85	6	50	14	G8A39060
	0.5		-	13	70	-	G8A39901
	0.5		-	26	70	-	G8A39910
8	0.5	8	7.7	8	60	24	G8A39080
			-	19	90	-	G8A39902
			-	36	90	-	G8A39911
10	0.5	10	-	22	100	-	G8A39903
	1		9.7	10	70	30	G8A39100
	1		-	22	100	-	G8A39904
	1		-	46	100	-	G8A39912
12	0.5	12	-	26	110	-	G8A39905
	1		11.7	12	75	30	G8A39120
	1		-	26	110	-	G8A39906
	1		-	56	110	-	G8A39913
16	1	16	-	32	130	-	G8A39160
	1.5		-	32	130	-	G8A39907
	1.5		-	66	130	-	G8A39914
20	1	20	-	38	140	-	G8A39200
	1.5		-	38	140	-	G8A39908
	2		-	38	140	-	G8A39909
	2		-	76	140	-	G8A39915

YG K-2

General Purpose

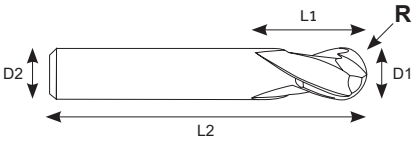
2 FLUTE BALL NOSE COATED CARBIDE

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Designed for milling of radius bottom slots, fillets and special contours
- Ball nosed







MG SC | 2 | 30° | R ±0.02 | DIN 6535HA | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	R	D2	L1	L2	Order Code
2	1	6	4	48	G9624020
3	1.5	6	4	48	G9624030
		3	20	60	G9455903
		3	5	75	G9454030
4	2	6	6	50	G9624040
		4	20	60	G9455904
		4	8	75	G9454040
5	2.5	6	7	51	G9624050
		5	25	75	G9455905
		5	9	75	G9454050
6	3	6	7	51	G9624060
		6	30	75	G9455906
		6	10	100	G9454060
8	4	8	9	59	G9624080
		8	30	75	G9455908
		8	12	100	G9454080
10	5	10	10	60	G9624100
		10	40	100	G9455910
		10	14	100	G9454100
12	6	12	14	71	G9624120
		12	45	100	G9455912
		12	16	100	G9454120
14	7	14	14	71	G9624140
		14	45	100	G9455914
		14	18	100	G9454140
16	8	16	16	76	G9624160
		16	45	100	G9455916
		16	22	150	G9454160
18	9	18	18	76	G9624180
		18	45	100	G9455918
20	10	20	20	82	G9624200
		20	45	100	G9455920
		20	26	150	G9454200

YG EV MILLS

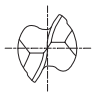
High Performance

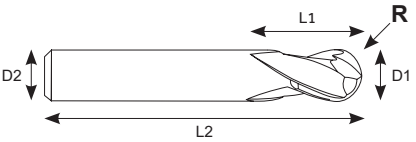
2 FLUTE Y-COATED ULTRAFINE CARBIDE BALL NOSE

Economic High Performance Machining of Steels <HRc40, Stainless Steel, HRSA's, Cast Iron

- For precision finishing applications providing higher accuracy than 3 & 4 flute ball nose tools
- Wide flutes allow for smooth chip evacuation
- Suitable for steel <HRC40, stainless steel, exotics and cast iron







MG SC | 2 | 30° | R ±0.005 | R ±0.010 | PLAIN | Y Coating

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
2	1	6	4.5	38	GMK57020
3	1.5	6	5.5	38	GMK57030
4	2	6	7.5	43	GMK57040
5	2.5	6	9	43	GMK57050
6	3	6	9	43	GMK57060
8	4	8	12	50	GMK57080
10	5	10	14	55	GMK57100
12	6	12	16.5	60	GMK57120

YG 4G MILLS

High Performance

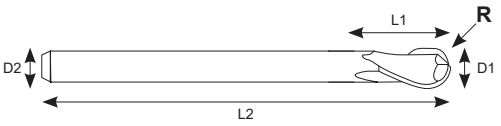
2 FLUTE NANOGRAIN COATED CARBIDE BALL NOSE

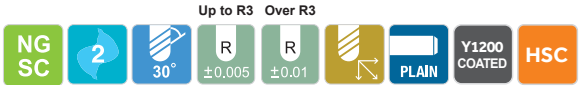
Excellent Performance in Dry or Wet Cutting of all Steel, Cast Iron & Hardened Steel <HRC55

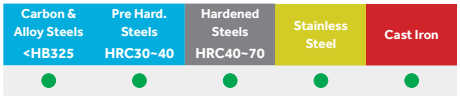
- YG-1's Y1200 coating & premium nanograin carbide substrate
- HSC = High speed cutting
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Due to unique ball nose geometry and cutting edges, exceptional surface finish can be achieved











D1	R	D2	L1	L2	Order Code
0.1	0.05	4	0.1	40	SEMD98001SE
		4	0.2	40	SEMD98001E
		3	0.2	40	SEMD980013SE
0.15	0.075	4	0.15	40	SEMD980015SE
		4	0.3	40	SEMD98015E
		3	0.3	40	SEMD9800153SE
0.2	0.1	4	0.2	40	SEMD98002SE
		4	0.4	40	SEMD98002E
		3	0.4	40	SEMD980023SE
0.3	0.15	4	0.3	40	SEMD98003SE
		4	0.6	40	SEMD98003E
		3	0.6	40	SEMD980033SE
0.4	0.2	4	0.4	40	SEMD98004SE
		4	0.8	40	SEMD98004E
		3	0.8	40	SEMD980043SE
0.5	0.25	4	0.5	40	SEMD98005SE
		4	1.0	40	SEMD98005E
		3	1.0	40	SEMD980053SE
0.6	0.3	4	0.6	40	SEMD98006SE
		4	1.2	40	SEMD98006E
		3	1.2	40	SEMD980063SE
0.7	0.35	4	0.7	40	SEMD98007SE
		4	1.4	40	SEMD98007E
		3	1.4	40	SEMD980073SE
0.8	0.4	4	0.8	40	SEMD98008SE
		4	1.6	40	SEMD98008E
		3	1.6	40	SEMD980083SE
0.9	0.45	4	0.9	40	SEMD98009SE
		4	1.8	40	SEMD98009E
		3	1.8	40	SEMD980093SE
1	0.5	6	1.5	40	SEMD98010040E
		3	2.5	50	SEMD980103SE
		4	2.5	50	SEMD980104SE
		6	2.5	50	SEMD98010E
		6	2.5	70	SEMD98010070E
		6	2.5	100	SEMD98010100E
1.2	0.6	6	2	40	SEMD98012040E
		3	3	50	SEMD980123SE
		6	3	70	SEMD98012070E
		6	3	100	SEMD98012100E
1.5	0.75	6	2.5	40	SEMD98015040E
		3	4	50	SEMD980153SE
		6	4	50	SEMD98015E
		6	4	70	SEMD98015070E
		6	4	100	SEMD98015100E
2	1	6	3	40	SEMD98020040E
		3	5	50	SEMD980203SE
		6	5	50	SEMD98020E
		6	5	80	SEMD98020080E
		6	5	100	SEMD98020100E
2.5	1.25	6	4	40	SEMD98025040E
		3	6	60	SEMD980253SE
		6	6	60	SEMD98025E
		6	6	80	SEMD98025080E
		6	6	100	SEMD98025100E
3	1.5	6	4.5	40	SEMD98030040E
		3	6	60	SEMD980303SE
		4	6	60	SEMD980304SE
		6	6	60	SEMD98030E
		6	6	80	SEMD98030080E
		6	6	100	SEMD98030100E
3.5	1.75	6	8	70	SEMD98035E
4	2	6	6	50	SEMD98040050E
		4	8	70	SEMD980404SE
		6	8	70	SEMD98040E
		4	8	100	SEMD980401004SE
		4	8	120	SEMD980401204SE
4.5	2.25	6	9	80	SEMD98045E
5	2.5	6	7.5	60	SEMD98050060E
		6	10	80	SEMD98050E
		5	10	80	SEMD980505SE
5.5	2.75	6	11	90	SEMD98055E
6	3	6	9	50	SEMD98060050E
		6	9	60	SEMD98060060E
		6	9	80	SEMD98060080E
		6	12	90	SEMD98060E
		6	12	110	SEMD98060110E
		6	12	130	SEMD98060130E
		6	12	150	SEMD98060150E
6.5	3.25	8	13	90	SEMD98065E
7	3.5	8	14	90	SEMD98070E
8	4	8	12	50	SEMD98080050E
		8	12	60	SEMD98080060E
		8	12	80	SEMD98080080E
		8	12	90	SEMD98080090E
		8	14	100	SEMD98080E
		8	14	130	SEMD98080130E
		8	14	150	SEMD98080150E
8.5	4.25	10	16	100	SEMD98085E
9	4.5	10	18	100	SEMD98090E
10	5	10	15	50	SEMD98100050E
		10	15	60	SEMD98100060E
		10	15	80	SEMD98100080E
		10	15	90	SEMD98100090E
		10	18	100	SEMD98100E
		10	18	130	SEMD98100130E
		10	18	150	SEMD98100150E
		10	18	180	SEMD98100180E
		10	18	200	SEMD98100200E
11	5.5	12	20	100	SEMD98110E
12	6	12	18	60	SEMD98120060E
		12	18	80	SEMD98120080E
		12	18	100	SEMD98120100E
		12	22	110	SEMD98120E
		12	22	130	SEMD98120130E
		12	22	150	SEMD98120150E
		12	22	180	SEMD98120180E
13	6.5	12	24	100	SEMD98130E
14	7	12	26	100	SEMD98140E
		14	26	100	SEMD9814014SE
		16	26	100	SEMD9814016SE
15	7.5	16	28	140	SEMD98150E
16	8	16	24	100	SEMD98160100E
		16	24	130	SEMD98160130E
		16	30	180	SEMD98160180E
		16	30	200	SEMD98160200E
18	9	16	34	150	SEMD98180E
		18	34	150	SEMD9818018SE
20	10	20	30	100	SEMD98200100E
		20	30	130	SEMD98200130E
		20	38	150	SEMD98200E
		20	38	200	SEMD98200200E

YG X5070

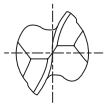
High Performance

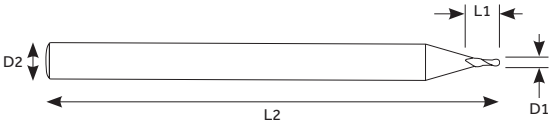
2 FLUTE COATED NANOGRAIN CARBIDE MINIATURE BALL NOSE

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operation
- Silicon based coating with ultra high heat and wear-resistance









Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30~40	HRC40~45	HRC45~55	HRC55~70
○	○	●	●

D1	R	D2	L1	L2	Order Code
0.4	0.2	6	0.4	50	G8A53004
0.5	0.25		0.5		G8A53005
0.6	0.3		0.6		G8A53006
0.8	0.4		0.8		G8A53008
1	0.5		1.0		G8A53010
1.2	0.6		1.2		G8A53012
1.5	0.75		1.5		G8A53015
2	1.0		2.0		G8A53020

YG X5070

High Performance

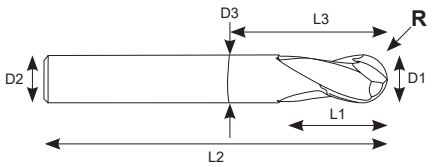
2 FLUTE COATED NANOGRAIN CARBIDE BALL NOSE

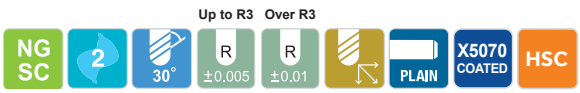
Highest Performance Machining of Hardened Steel <HRC70

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- HSC = High speed cutting (dry)
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Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30~40	HRC40~45	HRC45~55	HRC55~70
○	○	●	●

D1	R	D2	D3	L1	L2	L3	Order Code
0.1	0.05	4	-	0.2	40	-	G8A28001
0.2	0.1	4	-	0.3	40	-	G8A28002
0.3	0.15	4	-	0.5	40	-	G8A28003
0.4	0.2	4	-	0.6	40	-	G8A28004
0.5	0.25	4	-	0.7	40	-	G8A28005
0.6	0.3	4	-	0.9	40	-	G8A28006
0.7	0.35	4	-	1.1	40	-	G8A28007
0.8	0.4	4	-	1.2	40	-	G8A28008
0.9	0.45	4	-	1.4	40	-	G8A28009
1	0.5	4	0.95	1	50	2.2	G8A38010
1	0.5	6	0.95	1.5	50	3	G8A28010
1.2	0.6	4	1.15	1.2	50	2.6	G8A38012
1.5	0.75	4	1.45	1.5	50	3	G8A38015
1.5	0.75	6	1.45	2	50	4	G8A28015
2	1	6	1.95	2	50	4	G8A38020
2	1	6	1.95	2.5	50	5	G8A28020
2.5	1.25	6	2.4	3	50	7	G8A28025
3	1.5	6	2.85	3	60	6	G8A38030
3	1.5	6	2.85	4	60	10	G8A28030
3.5	1.75	6	3.35	4.5	60	10	G8A28035
4	2	6	3.85	4	70	8	G8A38040
4	2	6	3.85	5	60	10	G8A28040
4.5	2.25	6	4.35	5.5	60	10	G8A28045

D1	R	D2	D3	L1	L2	L3	Order Code
5	2.5	6	4.85	5	80	10	G8A38050
5	2.5	6	4.85	6	60	12	G8A28050
5.5	2.75	6	5.35	6.5	60	12	G8A28055
6	3	6	5.85	6	90	12	G8A38060
6	3	6	5.85	7	60	15	G8A28060
6	3	6	5.85	9	90	30	G8A28903
7	3.5	8	6.7	7	90	14	G8A38070
8	4	8	7.7	8	100	16	G8A38080
8	4	8	7.7	9	60	15	G8A28901
8	4	8	7.7	9	80	15	G8A28080
8	4	8	7.7	12	100	30	G8A28904
9	4.5	10	8.7	9	100	18	G8A38090
10	5	10	9.7	10	100	20	G8A38100
10	5	10	9.7	11	60	25	G8A28902
10	5	10	9.7	11	80	25	G8A28100
10	5	10	9.7	15	100	30	G8A28905
12	6	12	11.7	12	110	24	G8A38120
12	6	12	11.7	14	80	25	G8A28120
14	7	14	13.7	14	110	28	G8A38140
16	8	16	15.7	16	140	32	G8A38160
18	9	18	17.7	18	140	36	G8A38180
20	10	20	19.7	20	160	40	G8A38200
25	12.5	25	24.7	25	180	50	G8A38250

YG X5070

High Performance

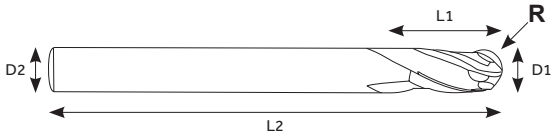
3 FLUTE COATED NANOGRAIN CARBIDE BALL NOSE

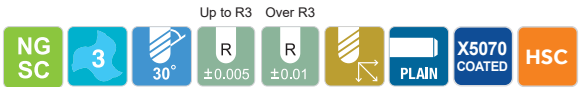
Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operation
- Silicon based coating with ultra high heat and wear-resistance









Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30~40	HRC40~45	HRC45~55	HRC55~70
○	○	●	●

D1	R	D2	L1	L2	Order Code
3	1.5	6	8	60	G8A59030
4	2	6	8	70	G8A59040
5	2.5	6	10	80	G8A59050
6	3	6	12	90	G8A59060
8	4	8	14	100	G8A59080
10	5	10	18	100	G8A59100
12	6	12	22	110	G8A59120
16	8	16	30	140	G8A59160
20	10	20	38	160	G8A59200

YG EV MILLS

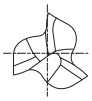
High Performance

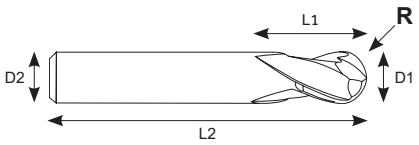
3 FLUTE Y-COATED ULTRAFINE CARBIDE BALL NOSE

Economic High Performance Machining of Steels <HRc40, Stainless Steel, HRSA's, Cast Iron

- For roughing and semi-finishing applications having one edge to centre
- Smooth cutting action, unequal flute geometry and variable multiple helix eliminate vibrations
- Suitable for steel <HRC40, stainless steel, exotics and cast iron









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
2	1	6	4.5	38	GMK62020
3	1.5	6	5.5	38	GMK62030
4	2	6	7.5	38	GMK62040
5	2.5	6	9	38	GMK62050
6	3	6	9	38	GMK62060
8	4	8	12	43	GMK62080
10	5	10	14	50	GMK62100
12	6	12	16.5	55	GMK62120

YG K-2

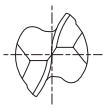
General Purpose

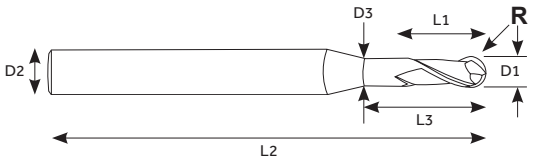
2 FLUTE COATED CARBIDE BALL NOSE RIB PROCESSING

General Purpose Milling of Steel <HRC45, Stainless Steel & Cast Iron

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Long neck ball nosed for deep pocket milling







MG SC | 2 | 30° | R ±0.02 | DIN 6535HA | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	R	D2	D3	L1	L2	L3	Order Code
0.4	0.2	4	0.37	0.7	50	2	G9B81004
0.5	0.25	4	0.45	0.75	50	2	G9B81005
						4	G9B81901
						6	G9B81902
0.6	0.3	4	0.55	0.9	50	2	G9B81006
						4	G9B81903
						6	G9B81904
0.8	0.4	4	0.75	1.2	50	4	G9B81008
						6	G9B81905
						8	G9B81906
1	0.5	4	0.95	1.5	50	6	G9B81010
						8	G9B81907
						10	G9B81908
						12	G9B81909
1.2	0.6	4	1.15	1.8	50	8	G9B81012
						12	G9B81910
1.5	0.75	4	1.45	2.3	50	6	G9B81015
						8	G9B81911
						10	G9B81912
						12	G9B81913
						16	G9B81914
						20	G9B81915
1.6	0.8	4	1.55	2.4	50	8	G9B81016
						12	G9B81916
						16	G9B81917
2	1	4	1.95	3	50	8	G9B81020
						10	G9B81919
						12	G9B81920
						16	G9B81922
						20	G9B81923
3	1.5	6	2.85	4.5	50	10	G9B81030
					50	12	G9B81924
					60	16	G9B81925
					60	20	G9B81926
					75	25	G9B81927
4	2	6	3.85	6	50	12	G9B81040
					60	16	G9B81928
					75	20	G9B81929
					75	25	G9B81930
					75	30	G9B81931

cutwel

YG 4G MILLS

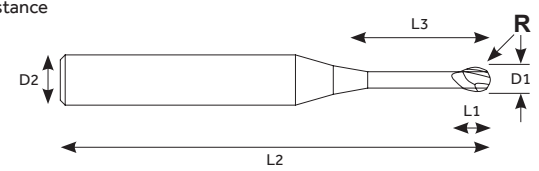
High Performance

2 FLUTE COATED CARBIDE BALL NOSE RIB PROCESSING

Excellent Performance on Dry or Wet Cutting all Steel, Cast Iron & Hardened Steel <HRC55

- YG-1's Y1200 coating & premium nanograin carbide substrate
- HSC = High speed cutting
- Due to new coating and tool geometry, 4G Mills can machine up to 1200°C with outstanding wear resistance
- Due to unique ball nose geometry and cutting edges, exceptional surface finish can be achieved





NG SC | 2 | 30° | Up to R3 R ±0.005 | Over R3 R ±0.01 | PLAIN | Y1200 COATED | HSC

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~70	Stainless Steel	Cast Iron
●	●	●	●	●

D1	R	D2	L1	L2	L3	Order Code
0.1	0.05	4	0.1	40	0.2	SEM846001002E
					0.3	SEM846001003E
					0.5	SEM846001005E
					1	SEM84600101E
0.2	0.1	4	0.2	40	0.5	SEM846002005E
					1	SEM84600201E
					1.5	SEM846002015E
					2	SEM84600202E
					3	SEM84600203E
0.3	0.15	4	0.3	40	1	SEM84600301E
					2	SEM84600302E
					3	SEM84600303E
					5	SEM84600305E
0.4	0.2	4	0.4	40	1	SEM84600401E
					3	SEM84600403E
					5	SEM84600405E
					8	SEM84600408E
					10	SEM84600410E
0.5	0.25	4	0.5	45	1	SEM84600501E
					3	SEM84600503E
					5	SEM84600505E
					8	SEM84600508E
					12	SEM84600512E
					16	SEM84600516E
0.6	0.3	4	0.6	45	1	SEM84600601E
					3	SEM84600603E
					5	SEM84600605E
					8	SEM84600608E
					12	SEM84600612E
					16	SEM84600616E
0.7	0.35	4	0.7	45	2	SEM84600702E
					6	SEM84600706E
					10	SEM84600710E
					12	SEM84600712E
0.9	0.45	4	0.9	45	4	SEM84600904E
					6	SEM84600906E
					8	SEM84600908E
					10	SEM84600910E
1	0.5	4	1	50	2	SEM84601002E
				50	4	SEM84601004E
				50	8	SEM84601008E
				50	10	SEM84601010E
				50	14	SEM84601014E
				50	20	SEM84601020E
				60	22	SEM84601022E
				60	26	SEM84601026E
				70	30	SEM84601030E
				100	50	SEM84601050E
1.2	0.6	4	1.2	50	4	SEM84601204E
					8	SEM84601208E
					12	SEM84601212E
					16	SEM84601216E
					20	SEM84601220E
1.4	0.7	4	1.4	50	6	SEM84601406E
					10	SEM84601410E
					16	SEM84601416E
1.5	0.75	4	1.5	50	3	SEM84601503E
				50	4	SEM84601504E
				50	6	SEM84601506E
				50	8	SEM84601508E
				50	12	SEM84601512E
				50	16	SEM84601516E
				50	20	SEM84601520E
				70	30	SEM84601530E
				80	40	SEM84601540E

D1	R	D2	L1	L2	L3	Order Code
1.6	0.8	4	1.6	50	4	SEM84601604E
					8	SEM84601608E
					12	SEM84601612E
					20	SEM84601620E
1.8	0.9	4	1.8	50	4	SEM84601804E
					8	SEM84601808E
					12	SEM84601812E
					20	SEM84601820E
2	1	4	2	50	4	SEM84602004E
				50	8	SEM84602008E
				50	12	SEM84602012E
				50	16	SEM84602016E
				50	20	SEM84602020E
				70	30	SEM84602030E
				70	35	SEM84602035E
				80	40	SEM84602040E
				110	60	SEM84602060E
2.5	1.25	4	2.5	50	8	SEM84602508E
				50	12	SEM84602512E
				50	20	SEM84602520E
				70	30	SEM84602530E
				70	35	SEM84602535E
				80	40	SEM84602540E
				100	50	SEM84602550E
3	1.5	6	3	50	6	SEM84603006E
				50	8	SEM84603008E
				50	12	SEM84603012E
				60	14	SEM84603014E
				60	20	SEM84603020E
				65	22	SEM84603022E
				65	26	SEM84603026E
				80	40	SEM84603040E
				90	45	SEM84603045E
				100	50	SEM84603050E
				100	60	SEM84603060E
4	2	6	4	50	8	SEM84604008E
				50	12	SEM84604012E
				60	14	SEM84604014E
				60	20	SEM84604020E
				70	30	SEM84604030E
				80	40	SEM84604040E
				90	45	SEM84604045E
5	2.5	6	6	60	15	SEM84605015E
				60	20	SEM84605020E
				70	30	SEM84605030E
				70	35	SEM84605035E
				80	40	SEM84605040E
				100	50	SEM84605050E
				100	60	SEM84605060E
6	3	6	8	60	20	SEM84606020E
				60	30	SEM84606030E
6	3	6	12	90	20	SEM84606020090E
				90	30	SEM84606030090E
8	4	8	10	70	25	SEM84608025E
				70	35	SEM84608035E
8	4	8	14	100	25	SEM84608025100E
				100	35	SEM84608035100E
10	5	10	12	75	30	SEM84610030E
				75	40	SEM84610040E
10	5	10	18	100	30	SEM84610030100E
				100	40	SEM84610040100E
12	6	12	14	80	32	SEM84612032E
				80	45	SEM84612045E
12	6	12	22	110	32	SEM84612032110E
				110	45	SEM84612045110E

YG X5070

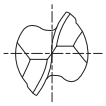
High Performance

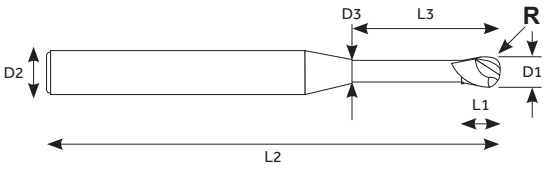
2 FLUTE COATED NANOGRAIN CARBIDE BALL NOSE RIB PROCESSING

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operation
- Silicon based coating with ultra high heat and wear-resistance







NG SC | 2 | 30° | R ±0.005 | PLAIN | X5070 COATED | HSC

Pre Hard. Steels	Hardened Steels		High Hard. Steels
HRC30-40	HRC40-45	HRC45-55	HRC55-70
○	○	●	●

D1	R	D2	D3	L1	L2	L3	Order Code
0.1	0.05	4	0.085	0.1	45	0.3	G8A46805
						0.5	G8A46806
0.2	0.1	4	0.17	0.2	45	0.5	G8A46002
						1	G8A46977
						1.5	G8A46958
0.3	0.15	4	0.27	0.3	45	1	G8A46003
						2	G8A46959
						3	G8A46986
0.4	0.2	4	0.37	0.4	45	1	G8A46004
						2	G8A46960
						3	G8A46961
						4	G8A46981
						5	G8A46987
0.5	0.25	4	0.45	0.4	45	2	G8A46005
		4		0.4	45	2.5	G8A46804
		4		0.4	45	4	G8A46962
		4		0.4	45	6	G8A46963
		4		0.4	45	8	G8A46964
		6		0.5	50	1.5	G8A54005
		6		0.5	50	3.3	G8A54901
0.6	0.3	4	0.55	0.5	45	2	G8A46957
				0.5	45	3	G8A46988
				0.5	45	4	G8A46915
				0.5	45	5	G8A46989
				0.5	45	6	G8A46916
				0.5	45	8	G8A46917
				0.5	45	10	G8A46990
				0.6	50	2	G8A54006
				0.6	50	4	G8A54902
0.8	0.4	4	0.75	0.6	45	2	G8A46918
		4		0.6	45	4	G8A46919
		4		0.6	45	6	G8A46008
		4		0.6	45	8	G8A46901
		4		0.6	45	10	G8A46965
		6		0.8	50	2.5	G8A54008
		6		0.8	50	5.5	G8A54903
1	0.5	4	0.95	0.8	45	3	G8A46920
				0.8	45	5	G8A46923
				0.8	45	6	G8A46010
				0.8	45	8	G8A46902
				0.8	45	10	G8A46903
				0.8	45	12	G8A46904
				0.8	50	14	G8A46926

D1	R	D2	D3	L1	L2	L3	Order Code
1	0.5	4	0.95	0.8	50	16	G8A46927
		4		0.8	55	20	G8A46966
		6		1	50	3.3	G8A54010
		6		1	50	6.7	G8A54904
		6		1	50	12	G8A54905
1.2	0.6	4	1.15	1	45	6	G8A46982
		4		1	45	8	G8A46012
		4		1	45	10	G8A46983
		4		1	45	12	G8A46905
		6		1.2	50	4.4	G8A54012
		6		1.2	50	8	G8A54906
1.5	0.75	4	1.45	1.2	45	6	G8A46930
		4		1.2	45	8	G8A46015
		4		1.2	45	10	G8A46931
		4		1.2	45	12	G8A46906
		4		1.2	50	14	G8A46992
		4		1.2	50	16	G8A46907
		4		1.2	55	20	G8A46932
		6		1.5	50	5	G8A54015
		6		1.5	50	9.7	G8A54907
		6		1.5	50	15	G8A54908
2	1	4	1.95	1.6	45	4	G8A46939
		4		1.6	45	6	G8A46940
		4		1.6	45	10	G8A46941
		4		1.6	50	14	G8A46943
		4		1.6	50	16	G8A46909
		4		1.6	55	20	G8A46910
		4		1.6	60	25	G8A46945
		4		1.6	70	30	G8A46967
		6		2	50	6	G8A54020
		6		2	50	13	G8A54909
		6		2	60	20	G8A54910
3	1.5	6	2.85	2.4	50	12	G8A46948
				2.4	55	16	G8A46030
				2.4	60	20	G8A46911
				2.4	65	25	G8A46968
				2.4	80	35	G8A46970
4	2	6	3.85	3.2	60	12	G8A46950
				3.2	65	20	G8A46912
				3.2	70	30	G8A46971
				3.2	90	40	G8A46973
				3.2	90	45	G8A46974
				3.2	100	50	G8A46975

YG X-POWER PRO

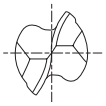
High Performance

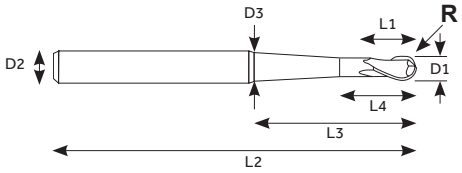
2 FLUTE BALL NOSE COATED CARBIDE HIGH PRECISION, TAPER NECK

For High Speed Machining of Medium to High Hardness Steel <HRC55

- Y coated ultrafine micrograin carbide
- HSC = Suitable for high speed machining
- Taper neck for strength and rigidity in deep pocket milling
- Radius tolerance ±0.01mm for high precision machining
- Suitable for dry cutting on steel & hardened steel







MG SC | 2 | 30° | R ±0.01 | PLAIN | Y COATED | HSC

Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-60
●	●	●

D1	R	D2	D3	L1	L2	L3	L4	Neck Taper Angle	Order Code
1	0.5	6	2	4	60	23	2	1° 30´	GM902010
					60	23	4.3	5°	GM902901
					80	42	5	3°	GM902902
2	1	6	4	6	60	23	2.9	1° 30´	GM902020
					60	23	5	5°	GM902903
					80	41	5.7	3°	GM902904
3	1.5	6	6	8	70	32	5.6	3°	GM902030
					90	52	5.3	1° 30´	GM902905
4	2	6	8	10	70	28	5.9	3°	GM902040
					90	49	6	1° 30´	GM902906
6	3	8	12	15	90	34	8	3°	GM902060
					110	53	8	1° 30´	GM902908
8	4	10	14	17	100	36	10	3°	GM902080
					120	55	10	1° 30´	GM902909

YG X-POWER PRO

High Performance

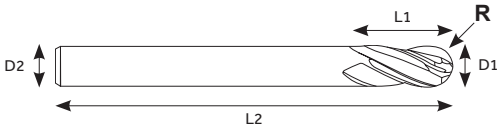
4 FLUTE BALL NOSE COATED CARBIDE, LONG NECK

For High Speed Machining of Medium to High Hardness Steel <HRC55 and Cast Iron

- Y coated ultrafine micrograin carbide
- HSC = Suitable for high speed machining
- 4 flutes for higher feed rates
- Radius tolerance ±0.02mm
- Suitable for dry cutting on steel & hardened steel







MG SC | 4 | 30° | R ±0.02 | PLAIN | Y COATED | HSC

Alloy Steels HB225-325	Pre Hard. Steels HRC30-40	Hardened Steels HRC40-60
●	●	●

D1	R	D2	L1	L2	Order Code
2	1	6	5	50	GM815020
3	1.5	6	8	60	GM815030
4	2	6	8	70	GM815040
5	2.5	6	10	80	GM815050
6	3	6	12	90	GM815060
8	4	8	14	100	GM815080
10	5	10	18	100	GM815100
12	6	12	22	110	GM815120
16	8	16	30	140	GM815160

YG K-2

General Purpose

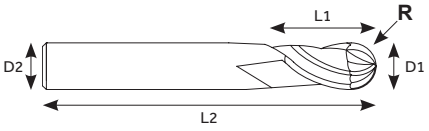
4 FLUTE BALL NOSE COATED CARBIDE

General Purpose Milling of Steel <HRC45, Stainless Steel, Cast Iron, Copper & Aluminium

- K2 coated micrograin carbide, 1st choice for general machining
- Suitable for dry milling applications at high temperatures (steel only)
- Designed for milling of radius bottom slots, fillets and special contours







MG SC | 4 | 30° | R ±0.02 | DIN 6535HA | K2 COATED

Carbon & Alloy Steels <HB325	Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Stainless Steel	Cast Iron
●	●	○	○	○

D1	R	D2	L1	L2	Order Code
2	1	6	4	48	G9634020
3	1.5	6	4	48	G9634030
4	2	6	6	50	G9634040
5	2.5	6	7	51	G9634050
6	3	6	7	51	G9634060
8	4	8	9	59	G9634080
10	5	10	10	60	G9634100
12	6	12	14	71	G9634120
14	7	14	14	71	G9634140
16	8	16	16	76	G9634160
18	9	18	18	76	G9634180
20	10	20	20	82	G9634200

YG X5070

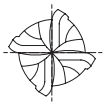
High Performance

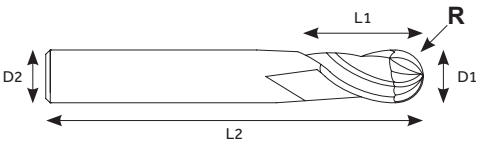
4 FLUTE COATED NANOGRAIN CARBIDE BALL NOSE, CENTRE MATCH

Highest Performance Machining of Hardened Steel <HRC70

- X5070 blue coated nanograin carbide
- HSC = High speed cutting (dry)
- Excellent workpiece finish
- Designed for high precision milling operation
- Silicon based coating with ultra high heat and wear-resistance







Up to R3 Over R3

NG SC | 4 | 30° | R ±0.005 | R ±0.01 | PLAIN | X5070 COATED | HSC

Pre Hard. Steels HRC30~40	Hardened Steels HRC40~45	Hardened Steels HRC45~55	High Hard. Steels HRC55~70
○	○	●	●

D1	R	D2	L1	L2	Order Code
3	1.5	6	8	60	G8D62030
4	2	6	8	70	G8D62040
5	2.5	6	10	80	G8D62050
6	3	6	12	90	G8D62060
8	4	8	14	100	G8D62080
10	5	10	18	100	G8D62100
12	6	12	22	110	G8D62120
16	8	16	30	140	G8D62160
20	10	20	38	160	G8D62200

YG EV MILLS

High Performance

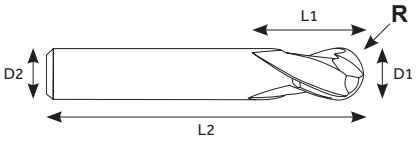
4 FLUTE Y-COATED ULTRAFINE CARBIDE BALL NOSE

Economic High Performance Machining of Steels <HRc40, Stainless Steel, HRSA's, Cast Iron

- For roughing and finishing applications having two edges to centre
- Smooth cutting action, unequal flute geometry and variable multiple helix eliminate vibrations
- Suitable for steel <HRC40, stainless steel, exotics and cast iron







MG SC | 4 | 35°/37° | R ±0.020 | PLAIN | Y Coating

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
2	1	6	4.5	38	GMK65020
3	1.5	6	5.5	38	GMK65030
4	2	6	7.5	38	GMK65040
5	2.5	6	9	38	GMK65050
6	3	6	9	38	GMK65060
8	4	8	12	43	GMK65080
10	5	10	14	50	GMK65100
12	6	12	16.5	55	GMK65120

YG V7 Plus

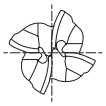
High Performance

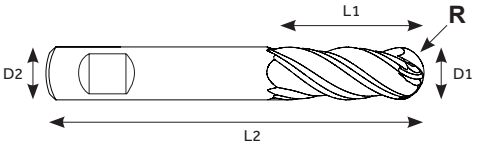
4 FLUTE COATED CARBIDE BALL NOSE MULTIPLE HELIX

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

- Y1200 coated ultrafine micrograin carbide
- Multiple helix design for large cut depths and agressive feed rates
- HPC = High performance cutting
- Special flute geometry and multiple helix eliminates vibration



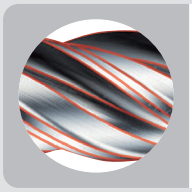




MG SC | 4 | 35°/37° | R ±0.02 | | PLAIN | WELDON | Y1200 COATED | HSC

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	1.5	6	8	57	GMG55030	GMG56030
4	2	6	11	57	GMG55040	GMG56040
5	2.5	6	13	57	GMG55050	GMG56050
6	3	6	13	57	GMG55060	GMG56060
8	4	8	19	63	GMG55080	GMG56080
10	5	10	22	72	GMG55100	GMG56100
12	6	12	26	83	GMG55120	GMG56120
16	8	16	32	92	GMG55160	GMG56160
20	10	20	38	104	GMG55200	GMG56200
25	12.5	25	38	104	GMG55250	GMG56250



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.



N

NON FERROUS MILLING

Cut faster with cleaner, controlled swarf removal

1 Flute	P 64-65	Ball Nose	P 76-77
2 Flute	P 66-69	Rippers	P 78-79
3 Flute	P 70-75		

- Maintain stable cutting by controlling long, sticky aluminium swarf
- Non-ferrous geometries increase tool life & maintain a high cutting accuracy
- Ultra high performance options available for the highest feed rates, largest cut depths & a superior chip flow

FOR ENQUIRIES PLEASE CALL **03330 389849** OR EMAIL **SALES@CUTWEL.NET**

cutwel

NON-FERROUS MILLING HIGHLIGHTS

YG ALU-POWER

Smooth and controlled aluminium machining with the chip-handling design of Alu-Power.

N



KORLOY A+ ENDMILL

Delivers the best surface finish on aluminium with zero tool marks, built up edge or vibration.

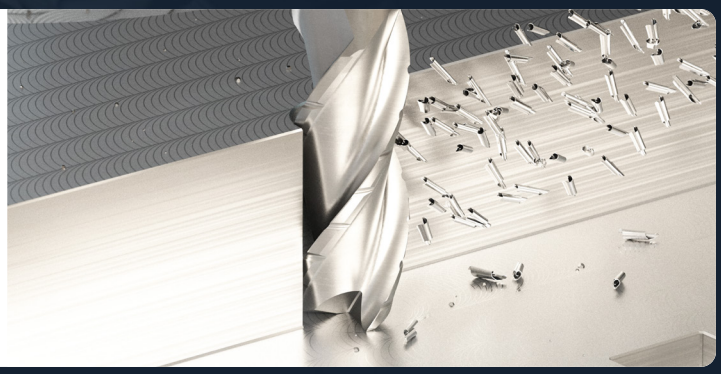
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YG ALU-POWER HPC

High-speed aluminium removal keeps precision and control with Alu-Power HPC geometry.

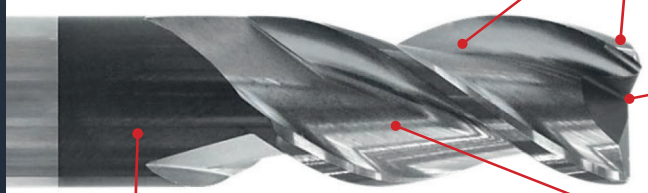
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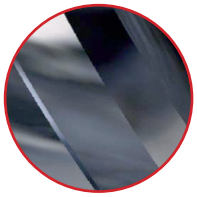
ALU-POWER HPC

THE ANATOMY OF EFFICIENCY

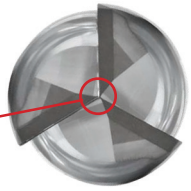
SPECIALISED DESIGN OF CORNER GASH
- Unique flute design and superior corner protection adds both tool life and protection against catastrophic failure in high feed applications
- Polished flutes for excellent chip flow



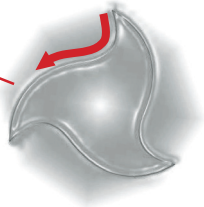
DLC DIAMOND-LIKE CARBON
- Excels in hard aluminium & high speeds
- Provides edge strength and unsurpassed tool life



CYLINDRICAL LAND
- Increased performance in a variety of cutting conditions
- Also helps reduce vibration & chatter



IDEAL SYMMETRICAL SHAPE
- 3-flute design "to the center" (all 3 flutes come to center)
- Designed for high spindle speeds
- Highly effective in vertical ramping up to 20 degrees and step-over plunging applications



ENGINEERED FLUTE DESIGN
- Effective chip evacuation at high feed rates with lower cutting forces than competitors products

YG ALU-POWER

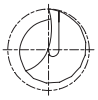
Advanced Performance

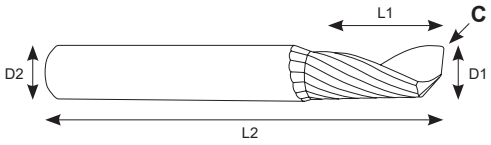
1 FLUTE UP CUT PLASTIC-CUT LAPPED CHAMFER PREP

Uncoated Solid Carbide Milling Cutters of Aluminium, Plastic & Non-Ferrous Metals

- 1 flute allows for excellent workpiece finishes and chip evacuation
- Wide cut geometry, ideal for plastic such as ABS, acrylic and non-ferrous metal
- Drawing cut (up cut)









Copper	Aluminium	Plastic
○	○	●

D1	D2	L1	L2	C	Order Code
0.5	4	1	40	-	E5E88005
0.6	4	1.2	40	-	E5E88006
0.7	4	1.4	40	-	E5E88007
0.8	4	1.6	40	-	E5E88008
0.9	4	1.8	40	-	E5E88009
1	6	3	50	-	E5E88010
1	6	6	50	-	E5E8801006
1.5	6	4	50	-	E5E88015
1.5	6	8	50	-	E5E8801508
2	3	8	50	0.04	E5E47020
	6	8	50	-	E5E8802008
	6	12	50	-	E5E8802012
2.5	6	8	50	-	E5E8802508
	6	12	50	-	E5E8802512
3	3	12	50	0.05	E5E47030
	6	26	60	-	E5E8803026
4	4	15	60	0.07	E5E47040
	6	37	75	-	E5E8804037
5	5	17	60	0.09	E5E47050
	6	28	70	-	E5E8805028
6	6	20	65	0.1	E5E47060
		55	120	-	E5E8806055
8	8	22	65	0.14	E5E47080
		32	70	-	E5E8808032
10	10	25	75	0.14	E5E47100
		35	75	-	E5E8810030
12	12	30	80	0.14	E5E47120
		35	80	-	E5E8812035

Karnasch PROFESSIONAL TOOLS

High Performance

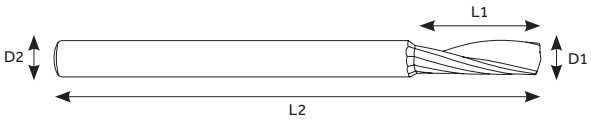
1 FLUTE UP CUT PLASTIC-CUT LAPPED

Uncoated Solid Carbide Milling Cutters for Mirror Finish Machining of Plastic Metals

- 1 flute allows for excellent workpiece finishes and chip evacuation
- First choice for mirror finish machining of plastic including acrylic, ABS, PMMA, PE, PP etc
- Drawing cut (up cut)
- Mirror finish machining







MG SC | 1 | 30° | DIN 6535HA | HSC | LAPPED

Plastic

D1	D2	L1	L2	Order Code
0.1	3	0.3	30	291652001000303030
0.2		0.6		291652002000603030
0.3		1		291652003001003030
0.4		1		291652004001003030
0.5		1.5		291652005001503030
0.6		3		291652006003003030
0.8		5		291652008005003030
1		4		291652010004003030
1.5		6		291652015006003030
2	3	6	30	291652020006003030
	4	6	50	291652020006004050
	6	6	50	291652020006006050
	3	8	30	291652020008003030
	3	11	38	291652020011003038
3	3	6	30	291652030006003030
	6	6	50	291652030006006050
	4	11	50	291652030011004050
	6	11	50	291652030011006050
	6	22	60	291652030022006060
4	4	8	50	291652040008004050
	6	8	50	291652040008006050
	4	12	50	291652040012004050
	6	12	50	291652040012006050
	4	14	50	291652040014004050
	6	14	50	291652040014006050
	4	22	50	291652040022004050
	6	22	50	291652040022006050
	4	32	64	291652040032004064
5	6	12	50	291652050012006050
		16	50	291652050016006050
		22	50	291652050022006050
6	6	12	50	291652060012006050
		22	50	291652060022006050
		22	58	291652060022006058
		32	64	291652060032006064
		32	100	291652060032006100
8	8	22	64	291652080022008064
		32	64	291652080032008064
		42	75	291652080042008075
		42	100	291652080042008100
		55	100	291652080055008100
10	10	22	64	291652100022010064
		32	75	291652100032010075
		55	100	291652100055010100

YG ALU-POWER

Advanced Performance

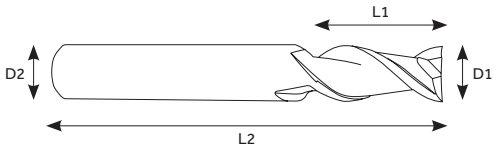
2 FLUTE 45° HELIX UNCOATED CARBIDE

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Wide cut geometry, ideal for plastics such as ABS, acrylic and non-ferrous material
- Mirror finish machining
- Superior chip evacuation
- Cylindrical relief reduces chipping of corner edges









Copper	Aluminium
○	●

D1	D2	L1	L2	Order Code
1	6	3	50	E5E48010
		6	60	E5E48901
2	6	5	50	E5E48015
		8	60	E5E48902
		6	50	E5E48020
		10	60	E5E48903
3	6	8	55	E5E48025
		5	50	E5E48030
4	6	8	54	E5E48040
5	6	9	54	E5E48050
6	6	10	54	E5E48060
8	8	12	58	E5E48080
10	10	14	66	E5E48100
12	12	16	73	E5E48120
14	14	18	75	E5E48140
16	16	22	82	E5E48160
18	18	24	84	E5E48180
20	20	26	92	E5E48200

KORLOY A+ ENDMILL

High Performance

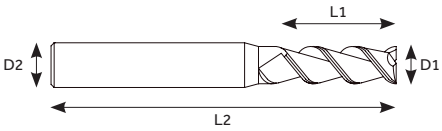
2 FLUTE 50° HELIX UNCOATED CARBIDE

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Uncoated micrograin carbide
- Excellent chip evacuation even in high feed machining
- U-Shaped flute design for extreme quality surface finish
- High rigidity of the cutting edge ensures high productivity
- Not suitable for plunging









Copper	Aluminium
○	●

D1	D2	L1	L2	Order Code
2.5	6	8	50	APFE2025-050
3	6	9	50	APFE2030-050
		12	60	APLFE2030-060
4	6	12	50	APFE2040-050
		16	60	APLFE2040-060
5	6	15	50	APFE2050-050
		20	60	APLFE2050-060
6	6	18	50	APFE2060-050
		25	75	APLFE2060-075
8	8	20	60	APFE2080-060
		32	75	APLFE2080-075
10	10	30	75	APFE2100-075
		45	100	APLFE2100-100
12	12	32	75	APFE2120-075
		45	100	APLFE2120-100
16	16	45	100	APFE2160-100
		65	150	APLFE2160-150
20	20	45	100	APFE2200-100
		75	150	APLFE2200-150

YG ALU-POWER

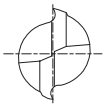
Advanced Performance

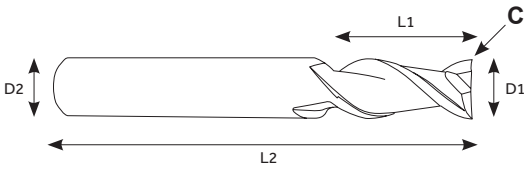
2 FLUTE 45° HELIX UNCOATED CARBIDE, CHAMFER PREP

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Suitable for high speed machining in aluminium and other non-ferrous material
- Provides mirror surface finishes
- Superior chip evacuation
- Cylindrical relief reduces chipping of corner edges
- Chamfer corner prep prevents tool chipping









Copper	Aluminium
○	●

D1	D2	L1	L2	C	Order Code	
					Plain Shank	Weldon Shank
3	6	8	57	0.05	E5522030	E5521030
		11	55		E5522901	-
		15	65		E5522902	-
4	6	11	57		E5522040	E5521040
		13	55		E5522903	-
		16	65		E5522904	-
5	6	13	57		E5522050	E5521050
		17	55		E5522905	-
		22	60		E5522906	-
6	6	13	57		E5522060	E5521060
		17	60		E5522907	-
		25	70		E5522908	-
7	8	22	65		E5522909	-
8	8	19	63		E5522080	E5521080
		22	70		E5522910	-
		30	80		E5522911	-
10	10	22	72	0.1	E5522100	E5521100
		27	75		E5522912	-
		35	90		E5522913	-
12	12	26	83		E5522120	E5521120
		32	80		E5522914	-
		40	95		E5522915	-
14	14	26	83		E5522140	E5521140
		37	90		E5522916	-
16	16	32	92		E5522160	E5521160
		42	100		E5522917	-
		52	110		E5522918	-
18	18	32	92		E5522180	E5521180
		48	100		E5522919	-
20	20	38	104		E5522200	E5521200
		48	100		E5522920	-
		55	110		E5522921	-

YG ALU-POWER

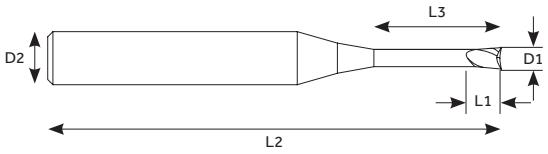
Advanced Performance

2 FLUTE UNCOATED CARBIDE LONG NECK

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium, copper and plastic
- Provides mirror surface finishes
- Long neck design for deep pocket machining







Copper	Aluminium
○	●

D1	D2	L1	L2	L3	Order Code
0.5	4	1	45	5	E5E8500505
			45	10	E5E8500510
			45	16	E5E8500516
1	4	2	50	3	E5E8501003
			50	8	E5E8501008
			50	16	E5E8501016
			60	26	E5E8501026
1.5	4	3	50	4	E5E8501504
			50	10	E5E8501510
			50	20	E5E8501520
			70	30	E5E8501530
2	4	4	50	6	E5E8502006
			50	10	E5E8502010
			50	20	E5E8502020
			80	40	E5E8502040
2.5	4	5	50	20	E5E8502520
			80	40	E5E8502540
3	6	6	60	20	E5E8503020
			80	40	E5E8503040
4	6	8	50	10	E5E8504010
			60	20	E5E8504020
			80	40	E5E8504040

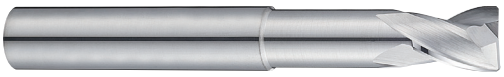
YG ALU-POWER

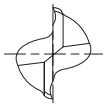
Advanced Performance

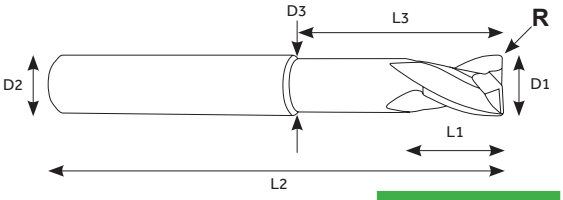
2 FLUTE UNCOATED CARBIDE CORNER RADIUS, NECKED

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- Provides mirror surface finish
- Reduced neck diameter







MG SC | 2 | 30° | PLAIN | CORNER RADIUS

Copper	Aluminium
○	●

D1	R	D2	D3	L1	L2	L3	Order Code
4	0.3	6	3.6	5	50	10	E5909040
6	0.5	6	5.4	8	60	20	E5909060
8	0.6	8	7.2	10	70	30	E5909080
10	0.8	10	9	12	80	36	E5909100
12	1	12	11	14	90	40	E5909120
16	1.3	16	14.5	18	100	45	E5909160
20	1.6	20	18	24	100	45	E5909200

YG ALU-POWER

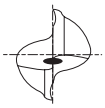
Advanced Performance

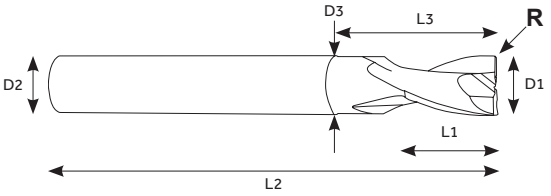
2 FLUTE UNCOATED CARBIDE CORNER RADIUS 25° HELIX

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Increased tool life and higher cutting accuracy
- High metal removal rate
- Superior chip evacuation
- Corner radius edge prep to prevent tool chipping
- Provides mirror surface finish







MG SC | 2 | 25° | PLAIN | CORNER RADIUS

Copper	Aluminium
○	●

D1	R	D2	D3	L1	L2	L3	Order Code
2	0.2	3	1.9	3	40	6	E5930020
3		3	2.9	4	40	8	E5930030
4		4	3.8	5	50	12	E5930040
5		5	4.8	8	50	14	E5930050
6		6	5.7	8	65	18	E5930060
8		8	7.7	10	70	22	E5930080
10		10	9.7	14	80	28	E5930100
12		12	11.5	16	90	35	E5930120
16		16	15.5	20	90	40	E5930160
20		20	19.5	25	100	50	E5930200

YG ALU-POWER

Advanced Performance

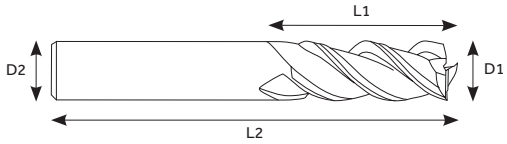
3 FLUTE UNCOATED CARBIDE 45° HELIX

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- Cylindrical relief reduces chipping of corner edges
- Superior chip evacuation
- Provides mirror surface finish







MG SC | 3 | 45° | PLAIN | LAPPED

Copper	Aluminium
○	●

D1	D2	L1	L2	Order Code
1	6	2	40	E5E49010
		4	60	E5E49902
		6	60	E5E49904
1.5	6	3	40	E5E49015
		5	50	E5E49906
		8	60	E5E49908
		10	60	E5E49909
2	6	3	40	E5E49020
		6	50	E5E49911
		8	60	E5E49913
		12	60	E5E49915
2.5	6	4	40	E5E49025
		10	55	E5E49917
		15	60	E5E49919
3	6	4	45	E5E49920
		11	55	E5E49922
		12	57	E5E49030
		20	70	E5E49924
		30	80	E5E49926
3.5	6	12	55	E5E49035
4	6	5	45	E5E49927
		11	45	E5E49929
		15	57	E5E49040
		26	75	E5E49932
		30	80	E5E49933
4.5	6	15	55	E5E49045
5	6	13	50	E5E49934
		20	57	E5E49050
		25	70	E5E49937
		35	80	E5E49939
		45	90	E5E49941
5.5	6	17	55	E5E49055
6	6	13	50	E5E49942

D1	D2	L1	L2	Order Code
6	6	20	65	E5E49060
		30	75	E5E49945
		42	90	E5E49947
		50	100	E5E49948
7	8	22	65	E5E49070
8	8	19	60	E5E49949
		22	65	E5E49080
		30	80	E5E49951
		40	90	E5E49953
		50	100	E5E49955
		65	110	E5E49958
9	10	27	70	E5E49090
10	10	22	65	E5E49959
		25	75	E5E49100
		35	90	E5E49961
		55	110	E5E49965
		65	120	E5E49967
12	12	25	75	E5E49120
		35	80	E5E49969
		45	100	E5E49971
		65	120	E5E49975
		75	135	E5E49977
		90	150	E5E49979
14	14	37	90	E5E49140
16	16	35	90	E5E49160
		55	110	E5E49982
		75	150	E5E49984
		95	180	E5E49986
		115	200	E5E49988
18	18	48	100	E5E49180
20	20	40	100	E5E49200
		65	130	E5E49991
		85	160	E5E49993
		105	190	E5E49995
		125	220	E5E49997

YG ALU-POWER HPC

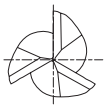
High Performance

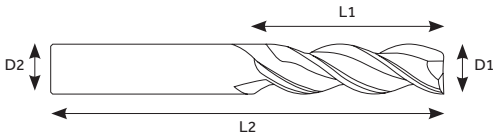
3 FLUTE UNCOATED & DLC COATED CARBIDE 37° HELIX

Extreme Machining of Aluminium (Standard, Alloys & Die Cast) & Non-Ferrous Alloy

- 3 flute 'centre match' HPC geometry for high feed rates & large depth of cut
- Extreme metal removal rates
- Superior chip evacuation
- Available with lapped finish or DLC (diamond like carbon) coating for aerospace aluminium alloy
- Recommended for use with high performance tool holders







MG SC | 3 | 37° | PLAIN | DLC COATED | HPC

Copper	Aluminium
●	●

D1	D2	L1	L2	Uncoated Order Code	DLC Coated Order Code
3	6	8	52	E5H22030	JAH22030
4		11	55	E5H22040	JAH22040
5		13	57	E5H22050	JAH22050
6	6	13	57	E5H22060	JAH22060
		13	72	E5H22901	JAH22901
		24	75	E5H22902	JAH22902
8	8	19	63	E5H22080	JAH22080
		32	75	E5H22903	JAH22903
10	10	22	72	E5H22100	JAH22100
		40	100	E5H22904	JAH22904
12	12	26	83	E5H22120	JAH22120
		48	100	E5H22905	JAH22905
14	14	30	89	E5H22140	JAH22140
16	16	32	92	E5H22160	JAH22160
		64	125	E5H22906	JAH22906
20	20	38	104	E5H22200	JAH22200
		80	150	E5H22907	JAH22907
25	25	50	125	E5H22250	JAH22250

KORLOY A+ ENDMILL

High Performance

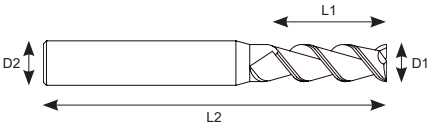
3 FLUTE UNCOATED CARBIDE 50° HELIX

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Uncoated micrograin carbide
- Excellent chip evacuation even in high feed machining
- U-Shaped flute design for extreme quality surface finish
- High rigidity of the cutting edge ensures high productivity
- Not suitable for plunging







MG SC | 3 | 50° | h6 | PLAIN | LAPPED

Copper	Aluminium
○	●

D1	D2	L1	L2	Order Code
2.5	6	8	50	APFE3025-050
3	6	9	50	APFE3030-050
		12	60	APLFE3030-060
4	6	12	50	APFE3040-050
		16	60	APLFE3040-060
5	6	15	50	APFE3050-050
		20	60	APLFE3050-060
6	6	18	50	APFE3060-050
		25	75	APLFE3060-075
8	8	20	60	APFE3080-060
		32	75	APLFE3080-075
10	10	30	75	APFE3100-075
		45	100	APLFE3100-100
12	12	32	75	APFE3120-075
		45	100	APLFE3120-100
16	16	45	100	APFE3160-100
		65	150	APLFE3160-150
20	20	45	100	APFE3200-100
		75	150	APLFE3200-150

YG ALU-POWER

Advanced Performance

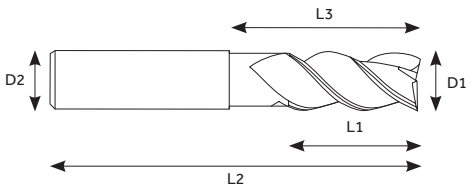
3 FLUTE UNCOATED CARBIDE, 45° HELIX, NECKED

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- High metal removal rate
- Superior chip evacuation
- Provides mirror surface finish









Copper	Aluminium
○	●

D1	D2	L1	L2	L3	Order Code
1	4	2.5	60	3	E5E50010
				4	E5E50901
				6	E5E50902
				8	E5E50903
				10	E5E50904
1.5	4	4	60	6	E5E50015
				8	E5E50905
				10	E5E50906
				12	E5E50907
				16	E5E50908
2	4	6	60	8	E5E50020
				10	E5E50909
				12	E5E50910
				16	E5E50911
2.5	6	7	60	10	E5E50025
				12	E5E50912
				16	E5E50913
				20	E5E50914
3	6	8	57	12	E5E50030
			60	16	E5E50915
			60	20	E5E50916
			70	26	E5E50917
			80	30	E5E50918
4	6	11	57	18	E5E50040
			60	20	E5E50919
			70	26	E5E50920
			80	30	E5E50921
5	6	13	57	18	E5E50050
6	6	13	57	18	E5E50060
			90	25	E5E50922
			90	35	E5E50923
			90	45	E5E50924
8	8	21	63	25	E5E50080
			100	30	E5E50925
			100	40	E5E50926
			100	50	E5E50927
10	10	22	72	30	E5E50100
			100	35	E5E50928
			100	45	E5E50929
			100	55	E5E50930
12	12	26	83	36	E5E50120
		30	110	40	E5E50931
		30	110	50	E5E50932
		30	110	60	E5E50933
16	16	36	92	42	E5E50160
20	20	41	104	52	E5E50200

YG ALU-POWER HPC

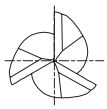
High Performance

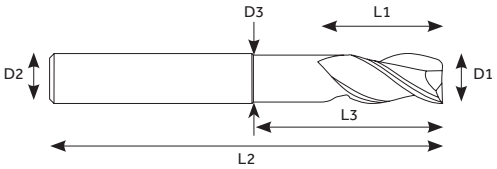
3 FLUTE UNCOATED & DLC COATED CARBIDE 37° HELIX, NECKED

Extreme Machining of Aluminium (Standard, Alloys & Die Cast) & Non-Ferrous Alloy

- 3 flute 'centre match' HPC geometry for high feed rates & large depth of cut
- Extreme metal removal rates
- Superior chip evacuation
- Available with lapped finish or DLC (diamond like carbon) coating for aerospace aluminium alloy







MG SC | 3 | 37° | PLAIN | DLC COATED | HPC

Copper	Aluminium
●	●

D1	D2	D3	L1	L2	L3	Uncoated Order Code	DLC Coated Order Code
6	6	5.7	10	75	20	E5H23060	JAH23060
8	8	7.4	12	75	25	E5H23080	JAH23080
10	10	9.2	14	100	35	E5H23100	JAH23100
12	12	11	16	100	40	E5H23120	JAH23120
16	16	15	20	125	50	E5H23160	JAH23160
20	20	19	25	150	65	E5H23200	JAH23200

YG ALU-POWER HPC

High Performance

3 FLUTE UNCOATED CARBIDE, CHIP SPLITTER

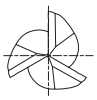
Extreme Machining of Aluminium (Standard, Alloys & Die Cast) & Non-Ferrous Alloy

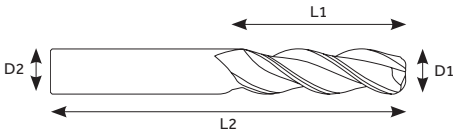
- Unique geometry provides the balance cutting with less vibration during the high speed machining
- Provides long tool life and high productivity on aluminum by chip breaker releasing stresses on the tool and prevents acceleration rate of wear on the cutting edge
- Chip breaker Improves chip evacuation by shortening the chip length during the high speed machining





Radial chip dividers





MG SC | 3 | 37° | PLAIN | WELDON | HPC | CORNER RADIUS

Copper	Aluminium
●	●

D1	R	D2	L1	L2	Order Code Plain Shank	Order Code Weldon Shank
6	0.25	6	13	57	E5I86060	E5I87060
	0.25		24	75	E5I86902	E5I87902
	1		13	57	E5I86901	E5I87901
	1		24	75	E5I86903	E5I87903
8	0.25	8	19	63	E5I86080	E5I87080
	0.25		32	75	E5I86905	E5I87905
	2		19	63	E5I86904	E5I87904
	2		32	75	E5I86906	E5I87906
10	0.5	10	22	72	E5I86100	E5I87100
	0.5		40	100	E5I86908	E5I87908
	2		22	72	E5I86907	E5I87907
	2		40	100	E5I86909	E5I87909
12	0.5	12	26	83	E5I86120	E5I87120
	0.5		48	100	E5I86911	E5I87911
	3		26	83	E5I86910	E5I87910
	3		48	100	E5I86912	E5I87912
16	1	16	32	92	E5I86160	E5I87160
	1		64	125	E5I86914	E5I87914
	4		32	92	E5I86913	E5I87913
	4		64	125	E5I86915	E5I87915
20	1	20	38	104	E5I86200	E5I87200
	1		80	150	E5I86917	E5I87917
	4		38	104	E5I86916	E5I87916
	4		80	150	E5I86918	E5I87918

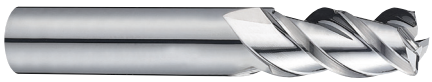
YG ALU-POWER

Advanced Performance

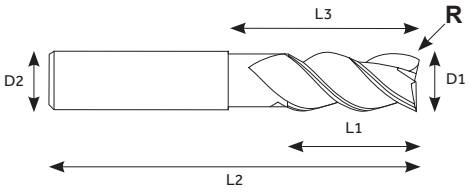
3 FLUTE UNCOATED CARBIDE, CORNER RADIUS 45° HELIX

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- High metal removal rate
- Superior chip evacuation
- Provides mirror surface finish







MG SC | 3 | 45° | PLAIN | CORNER RADIUS | LAPPED

Copper	Aluminium
○	●

D1	R	D2	L1	L2	L3	Order Code
3	0.5	6	12	57	-	E5E51030
	1					E5E51901
4	0.5	6	15	57	-	E5E51040
	1					E5E51902
5	0.5	6	20	57	-	E5E51050
	1					E5E51903
6	0.5	6	20	65	-	E5E51060
	1					E5E51904
	0.5	6	10	70	20	E5D7206005
	1					E5D7206010
8	0.5	8	22	65	-	E5E51080
	1					E5E51905
	0.5	8	12	80	25	E5D7208005
	1					E5D7208010
	2					E5D7208020
10	0.5	10	25	70	-	E5E51100
	1					E5E51906
	2					E5E51907
	1	10	15	100	30	E5D7210010
	2					E5D7210020
	3					E5D7210030
12	0.5	12	25	75	-	E5E51120
	1					E5E51908
	2					E5E51909
	0.5	12	20	110	35	E5D7212005
	1					E5D7212010
	2					E5D7212020
	3					E5D7212030
16	0.5	16	35	90	-	E5E51160
	1					E5E51910
	2					E5E51911
20	0.5	20	40	100	-	E5E51200
	1					E5E51912
	2					E5E51913

YG ALU-POWER HPC

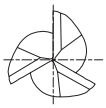
High Performance

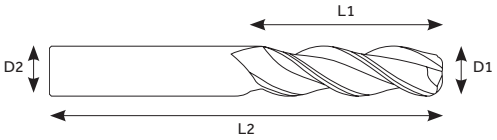
3 FLUTE UNCOATED & DLC COATED CARBIDE 37° HELIX, CORNER RAD

Extreme Machining of Aluminium (Standard, Alloys & Die Cast) & Non-Ferrous Alloy

- 3 flute 'centre match' HPC geometry for high feed rates & large depth of cut
- Extreme metal removal rates
- Superior chip evacuation
- Available with lapped finish or DLC (diamond like carbon) coating for aerospace aluminium alloy







MG SC | 3 | 37° | PLAIN | DLC COATED | HPC | CORNER RADIUS

Copper	Aluminium
●	●

D1	R	D2	L1	L2	Order Code	
					Uncoated	DLC Coated
6	0.5	6	13	57	E5H24060	JAH24060
	1.0				E5H24901	JAH24901
	1.5				E5H24902	JAH24902
	0.8	6	13	72	E5H24903	JAH24903
	1.2				E5H24904	JAH24904
	0.5	6	24	75	E5H24905	JAH24905
	1				E5H24906	JAH24906
8	0.3	8	19	63	E5H24080	JAH24080
	0.5				E5H24907	JAH24907
	1				E5H24908	JAH24908
	1.5				E5H24909	JAH24909
	0.5	8	32	75	E5H24910	JAH24910
	1				E5H24911	JAH24911
	1.5				E5H24912	JAH24912
	2				E5H24913	JAH24913
10	0.3	10	22	72	E5H24100	JAH24100
	0.5				E5H24914	JAH24914
	1				E5H24915	JAH24915
	1.5				E5H24916	JAH24916
	0.5	10	40	100	E5H24917	JAH24917
	1				E5H24918	JAH24918
	1.5				E5H24919	JAH24919
	2				E5H24920	JAH24920
12	1.5	12	26	83	E5H24120	JAH24120
	2				E5H24921	JAH24921
	2.5				E5H24922	JAH24922
	3				E5H24923	JAH24923
	0.5	12	48	100	E5H24924	JAH24924
	1				E5H24925	JAH24925
	1.5				E5H24926	JAH24926
	2				E5H24927	JAH24927
	2.5				E5H24928	JAH24928
	3				E5H24929	JAH24929
14	1	14	30	89	E5H24140	JAH24140
	2				E5H24930	JAH24930
	3				E5H24931	JAH24931
16	1.5	16	32	92	E5H24160	JAH24160
	2				E5H24932	JAH24932
	2.5				E5H24933	JAH24933
	3				E5H24934	JAH24934
	4				E5H24935	JAH24935
	0.5	16	64	125	E5H24936	JAH24936
	1				E5H24937	JAH24937
	1.5				E5H24938	JAH24938
	2				E5H24939	JAH24939
	2.5				E5H24940	JAH24940
	3				E5H24941	JAH24941
	4				E5H24942	JAH24942
20	2	20	38	104	E5H24200	JAH24200
	2.5				E5H24943	JAH24943
	3				E5H24944	JAH24944
	4				E5H24945	JAH24945
	0.5	20	80	150	E5H24946	JAH24946
	1				E5H24947	JAH24947
	1.5				E5H24948	JAH24948
	2				E5H24949	JAH24949
	2.5				E5H24950	JAH24950
	3				E5H24951	JAH24951
	4				E5H24952	JAH24952

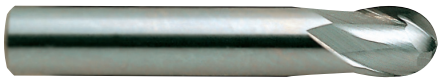
YG ALU-POWER

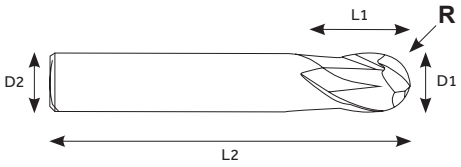
Advanced Performance

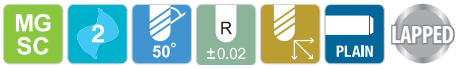
2 FLUTE UNCOATED CARBIDE BALL NOSE 50° HELIX

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- Provides mirror surface finish







Copper	Aluminium
●	●

D1	R	D2	L1	L2	Order Code
0.5	0.25	6	1	40	E5D80005
1	0.5	3	2.5	50	E5D800103S
		6	6		E5D8001006
1.5	0.75	3	4	50	E5D800153S
		6	8		E5D8001508
2	1	3	5	50	E5D800203S
		6	5		E5D80020
		6	10		E5D8002010
3	1.5	3	8	60	E5D800303S
		6	8		E5D80030
		6	12		E5D8003012
4	2	4	10	70	E5D800404S
		6	16		E5D8004016
6	3	6	12	90	E5D80060
8	4	8	14	100	E5D80080
10	5	10	18	100	E5D80100
12	6	12	22	110	E5D80120

YG ALU-POWER

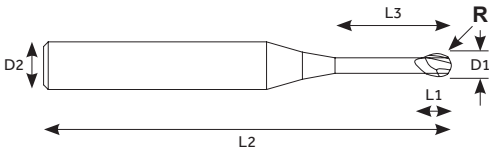
Advanced Performance

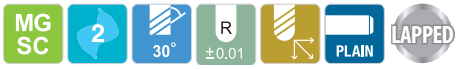
2 FLUTE BALL NOSE UNCOATED CARBIDE LONG NECK

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Metals

- Designed for machining aluminium, copper and plastic
- Increased tool life and higher cutting accuracy
- Provides mirror surface finish
- Long neck design for deep pocket machining







Copper	Aluminium
○	●

D1	R	D2	L1	L2	L3	Order Code
0.5	0.25	4	1	45	5	E5E9000505
					10	E5E9000510
1	0.5	4	2	50	3	E5E9001003
				50	8	E5E9001008
				50	16	E5E9001016
				60	26	E5E9001026
1.5	0.75	4	3	50	4	E5E9001504
					10	E5E9001510
					20	E5E9001520
2	1	4	4	50	6	E5E9002006
					10	E5E9002010
					20	E5E9002020

D1	R	D2	L1	L2	L3	Order Code
2	1	4	4	80	40	E5E9002040
				110	60	E5E9002060
2.5	1.25	4	5	50	10	E5E9002510
				70	30	E5E9002530
3	1.5	6	6	50	8	E5E9003008
				60	20	E5E9003020
				80	40	E5E9003040
				100	60	E5E9003060
4	2	6	8	50	10	E5E9004010
				60	20	E5E9004020
				80	40	E5E9004040
				100	60	E5E9004060

YG ALU-POWER

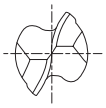
Advanced Performance

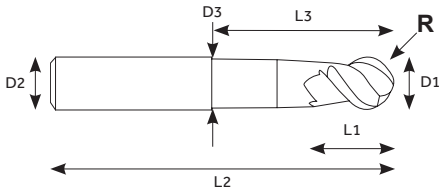
2 FLUTE UNCOATED CARBIDE BALL NOSE 50° HELIX, NECKED

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- Provides mirror surface finish







MG SC | 2 | 50° | R ±0.01 | | PLAIN | LAPPED

Copper	Aluminium
●	●

D1	R	D2	D3	L1	L2	L3	Order Code
6	3	6	5.4	5.5	55	25	E5910060
8	4	8	7.2	7	65	30	E5910080
10	5	10	9	8.5	75	35	E5910100
12	6	12	11	10.5	75	40	E5910120
16	8	16	14.5	14	90	50	E5910160
20	10	20	18	17	100	50	E5910200

YG ALU-POWER

Advanced Performance

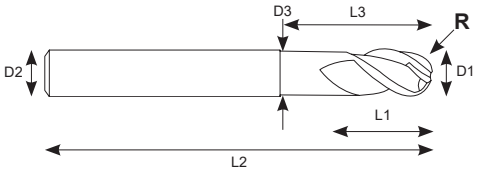
3 FLUTE UNCOATED CARBIDE BALL NOSE, NECKED

Uncoated Carbide for Mirror Finish Machining of Aluminium & Non-Ferrous Material

- Designed for machining aluminium and copper
- Increased tool life and higher cutting accuracy
- Provides mirror surface finish







MG SC | 3 | 40° | R ±0.01 | | PLAIN | LAPPED

Copper	Aluminium
●	●

D1	R	D2	D3	L1	L2	L3	Order Code
2	1	6	1.9	3	60	5	E5908020
2.5	1.25	6	2.4	4	60	6	E5908025
3	1.5	6	2.8	4.5	60	6.5	E5908030
3.5	1.75	6	3.2	5	65	7	E5908035
4	2	6	3.7	6	65	8	E5908040
5	2.5	6	4.6	7.5	65	10	E5908050
6	3	6	5.6	9	75	12	E5908060
8	4	8	7.4	12	75	25	E5908080
10	5	10	9.4	15	80	30	E5908100
12	6	12	11.4	18	90	36	E5908120
16	8	16	15.4	24	100	40	E5908160

YG ALU-POWER

Advanced Performance

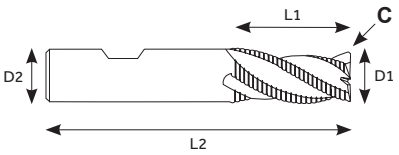
3 FLUTE UNCOATED CARBIDE RIPPER

Uncoated Carbide Ripper for Rough Machining Of Aluminum & Non-Ferrous Metals

- Designed for machining aluminium and copper
- Superior chip evacuation
- Aluminium pitch prevents built up edge
- Chamfer corner prep prevents tool chipping









Copper	Aluminium
○	●

D1	D2	L1	L2	C	Order Code	
					Plain Shank	Weldon Shank
6	6	16	57	0.6	E5742060	E5711060
7	8	16	63		E5742070	E5711070
8	8	16	63		E5742080	E5711080
9	10	19	72		E5742090	E5711090
10	10	22	72		E5742100	E5711100
12	12	26	83		E5742120	E5711120
14	14	26	83	0.91	E5742140	E5711140
16	16	32	92		E5742160	E5711160
18	18	32	92		E5742180	E5711180
20	20	38	104		E5742200	E5711200
25	25	45	121		E5742250	E5711250

YG ALU-POWER

Advanced Performance

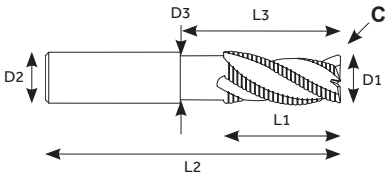
3 FLUTE UNCOATED CARBIDE RIPPER, NECKED

Uncoated Carbide Ripper for Rough Machining Of Aluminum & Non-Ferrous Metals

- Designed for machining aluminium and copper
- Superior chip evacuation
- Aluminium pitch prevents built up edge
- Reduced neck diameter for deep pocket machining
- Chamfer corner prep prevents tool chipping







MG SC | 3 | 30° | ALU | DIN 6535HA | C x 45° | LAPPED

Copper	Aluminium
○	●

D1	D2	D3	L1	L2	L3	C	Order Code
6	6	5	16	57	20	0.6	E5E39060
8	8	7	16	63	25		E5E39080
10	10	9	22	72	30		E5E39100
12	12	10.5	26	83	36		E5E39120
16	16	14.5	32	92	42	0.91	E5E39160
20	20	18.5	38	104	52		E5E39200

P M S K N

FORM MILLING

Reliable chamfering, engraving, corner rounding & more

Chamfer Mills	P 81-84
Chamfer Drill Mills	P 85
Engraving	P 86
Corner Rounding	P 87

- Carbide chamfer mills from 30-60 degrees, suitable for a wide range of materials
- Chamfer drill mills for multi purpose drilling, v-slotting, profiling and chamfering
- Sharp point carbide engraving tools for precision machining a wide range of materials

FOR ENQUIRIES PLEASE CALL **03330 389849** OR EMAIL **SALES@CUTWEL.NET**

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General Purpose

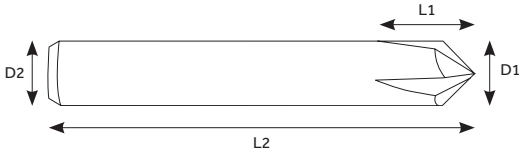
4 FLUTE 45° GENERAL PURPOSE SOLID CARBIDE CHAMFER MILL

Uncoated and TiAlN Coated Carbide

- Chamfer milling cutter suitable for general machining all materials up to HRC45
- 45° chamfer angle
- Plain shank







Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

D1	D2	L1	L2	Order Code	
				Uncoated	TiAlN Coated
6	6	8	38	CMC100-45-6	CMC200-45-6
8	8	11	43	CMC100-45-8	CMC200-45-8
10	10	13	50	CMC100-45-10	CMC200-45-10
12	12	15	60	CMC100-45-12	CMC200-45-12

cutwel PRO

General Purpose

3-5 FLUTE 30° SOLID CARBIDE CHAMFER MILL

- Ultra coated
- 30° chamfer angle
- Suitable for chamfering & deburring applications







Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

D1	D2	L1	L2	No. of Flutes	Order Code
1					CMC200-30-1
2	3	3	39	3	CMC200-30-2
3					CMC200-30-3
4	4	4	54	4	CMC200-30-4
6	6	6	57		CMC200-30-6
8	8	8	63	5	CMC200-30-8
10	10	10	72		CMC200-30-10
12	12	12	83		CMC200-30-12

cutwel PRO

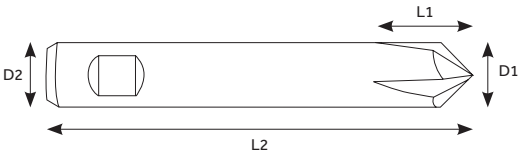
General Purpose

3-5 FLUTE 60° SOLID CARBIDE CHAMFER MILL

- Ultra coated
- 60° chamfer angle
- Suitable for chamfering & deburring applications







Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

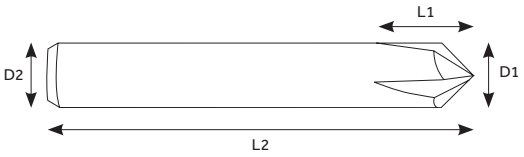
D1	D2	L1	L2	No. of Flutes	Order Code
1	1		39		CMC200-60-1
2	2	3	39	3	CMC200-60-2
3	3		39		CMC200-60-3
4	4	4	54	4	CMC200-60-4
6	6	6	57		CMC200-60-6
8	8	8	63	5	CMC200-60-8
10	10	10	72		CMC200-60-10
12	12	12	83		CMC200-60-12

2 FLUTE 45° CHAMFER MILL

High Performance

- Suitable for edge chamfering, centering, and similar operations
- 45° chamfer angle
- Excellent performance on materials such as stainless steel, mild steel, and cast iron





MG SC | PLAIN | WELDON | 45°

Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

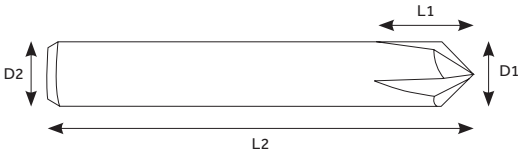
D1	D2	L1	L2	Order Code	
				Plain Shank	Weldon Shank
3	3	1.5	60	EHI28030	-
4	4	2	60	EHI28040	-
6	6	3	60	EHI28060	EHK37060
8	8	4	70	EHI28080	EHK37080
10	10	5	75	EHI28100	EHK37100
12	12	6	80	EHI28120	EHK37120
16	16	8	100	EHI28160	EHK37160
20	20	10	100	EHI28200	EHK37200

3 FLUTE 45° CHAMFER MILL

High Performance

- The helix design enhances cutting performance and improves chamfer surface finish quality
- 45° chamfer angle
- Designed with a dubbed point to prevent chipping at the tip





MG SC | 3 | PLAIN | WELDON | 45°

Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

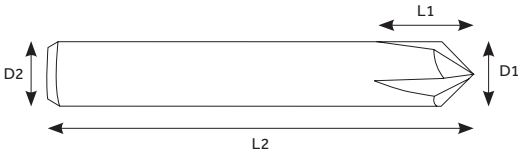
D1	D2	L1	L2	Order Code	
				Plain Shank	Weldon Shank
0.8	3	1.1	60	EHI29030	-
	4	1.6	60	EHI29040	-
1	6	2.5	60	EHI29060	EHK38060
	8	3.5	70	EHI29080	EHK38080
2	10	4	75	EHI29100	EHK38100
	12	5	80	EHI29120	EHK38120

4 FLUTE 45° CHAMFER MILL

High Performance

- The increased number of cutting edges extends tool life and improves productivity
- 45° chamfer angle
- Improved surface finish quality on workpiece





MG SC | 4 | PLAIN | WELDON | 45°

Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

D1	D2	L1	L2	Order Code	
				Plain Shank	Weldon Shank
3	3	1.5	60	EHI30030	-
4	4	2	60	EHI30040	-
6	6	3	60	EHI30060	EHK39060
8	8	4	70	EHI30080	EHK39080
10	10	5	75	EHI30100	EHK39100
12	12	6	80	EHI30120	EHK39120
16	16	8	100	EHI30160	EHK39160
20	20	10	100	EHI30200	EHK39200

Karnasch PROFESSIONAL TOOLS

High Performance

4-6 FLUTE 30° & 45° CHAMFER MILL

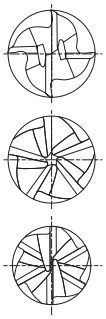
- Chamfer milling cutter suitable for high performance machining all materials up to HRC65
- 45° or °30° chamfer angle
- Plain shank

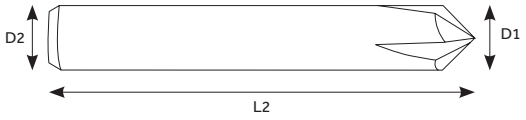
30°



45°







MG SC | 4-6 | PLAIN | UFX-3 COATED | 30° | 45°

Steel	Stainless Steel	HRSA's e.g. Inconel	Cast Iron	Aluminium
●	●	●	●	○

D1	D2	L2	No. of Flutes	Order Code
			30°	
4	4	54	4	3064920400
6	6	57		3064920600
8	8	63	5	3064920800
10	10	72	6	3064921000
12	12	83		3064921200
			45°	
4	4	54	4	3064930400
6	6	57		3064930600
8	8	63	5	3064930800
10	10	72	6	3064931000
12	12	83		3064931200

Karnasch PROFESSIONAL TOOLS

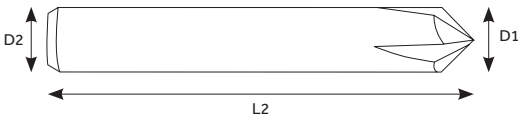
High Performance

3 FLUTE 45° ALUMINIUM CHAMFER MILL

- Lapped 3 flute design for aluminium, copper, plastic & brass
- 45° chamfer angle
- Plain shank







MG SC | 3 | PLAIN | 45° | LAPPED

Aluminium
●

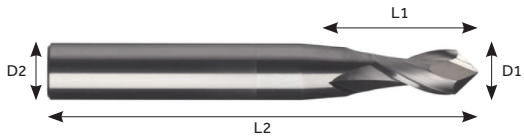
D1	D2	L2	Order Code
4	4	54	3062000400
6	6	57	3062000600
8	8	63	3062000800
10	10	72	3062001000
12	12	83	3062001200

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General Purpose

2 FLUTE 30/45/60° CHAMFER DRILL MILL

- 1 tool for multiple applications: v-slot milling, countersinking, angle milling, chamfering, spot drilling, drilling, profiling and bevel milling
- Uncoated solid carbide
- Angle refers to chamfer angle not inclusive angle





Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

D1	D2	L1	L2	Order Code		
				30°	45°	60°
1	3	2	39	-	DM200-45-1	-
1.2	3	2.4	39	-	DM200-45-1.2	-
1.5	3	3	39	-	DM200-45-1.5	-
2	3	4	39	-	DM200-45-2	-
2.5	3	5	39	-	DM200-45-2.5	-
3	4	6	50	DM200-30-3	DM200-45-3	DM200-60-3
4	5	8	50	DM200-30-4	DM200-45-4	DM200-60-4
5	6	10	50	DM200-30-5	DM200-45-5	DM200-60-5
6	8	12	60	DM200-30-6	DM200-45-6	DM200-60-6
8	10	16	70	DM200-30-8	DM200-45-8	DM200-60-8
10	12	18	70	DM200-30-10	DM200-45-10	DM200-60-10
12	12	20	70	DM200-30-12	DM200-45-12	DM200-60-12
16	16	26	80	-	DM200-45-16	-
20	20	32	100	-	DM200-45-20	-

cutwel PRO

General Purpose

3-4 FLUTE 45° TiAlN COATED FRONT & BACK CHAMFER MILL

- 1 tool for multiple applications: chamfering, back chamfering, groove milling, countersinking & deburring
- TiAlN coated carbide





Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

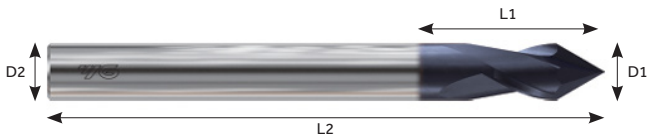
D1	D2	D3	L1	L2	No. of Flutes	Order Code
1.4	3	0.9	3.8	39	3	CMFB-45-1.4
1.9	3	1.2	5	39		CMFB-45-1.9
2.4	3	1.5	6.2	39		CMFB-45-2.4
2.9	3	1.8	7.4	39		CMFB-45-2.9
3.4	4	2.1	8.6	54		CMFB-45-3.4
3.9	4	2.4	9.8	54		CMFB-45-3.9
4.4	5	2.7	11	55		CMFB-45-4.4
4.9	5	3	12.2	55		CMFB-45-4.9
5.9	6	3.6	14.6	57		CMFB-45-5.9
7.8	6	-	-	100	4	CMFB-45-7.8
9.8		-	-			CMFB-45-9.8
11.8		-	-			CMFB-45-11.8
13.8		-	-			CMFB-45-13.8
15.8		-	-			CMFB-45-15.8

YG

High Performance

2 FLUTE 30/45/60° TiAlN COATED CHAMFER DRILL MILL

- 1 tool for multiple applications: v-slot milling, countersinking, angle milling, chamfering, spot drilling, drilling, profiling and bevel milling
- TiAlN coated carbide





Steel	Stainless Steel	Cast Iron	Aluminium
●	○	●	○

D1	D2	L1	L2	Order Code		
				30°	45°	60°
3	4	6	50	EHK28030	EHK29030	EHK30030
4	6	8	50	EHK28040	EHK29040	EHK30040
5	6	10	50	EHK28050	EHK29050	EHK30050
6	6	12	60	EHK28060	EHK29060	EHK30060
8	8	16	70	EHK28080	EHK29080	EHK30080
10	10	20	70	EHK28100	EHK29100	EHK30100
12	12	24	80	EHK28120	EHK29120	EHK30120
16	16	32	90	EHK28160	EHK29160	EHK30160
20	20	40	100	EHK28200	EHK29200	EHK30200

cutwel PRO

1 FLUTE 60° & 90° SOLID CARBIDE ENGRAVING TOOL

Uncoated

- For all types of materials
- 60° and 90° chamfer angles
- Sharp point
- Plain shank



MG SC | 1 | PLAIN | 60° | 90°

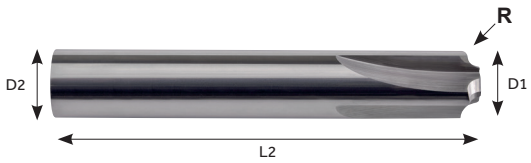
Steel	Stainless Steel	HRSA's e.g. Inconel	Cast Iron	Aluminium
●	●	○	●	●

D2	L1	L2	Order Code	
			60°	90°
3	4	50	ETSC60-3	ETSC90-3
4	5	50	ETSC60-4	ETSC90-4
6	7	60	ETSC60-6	ETSC90-6
8	9	80	ETSC60-8	ETSC90-8
10	11	100	ETSC60-10	ETSC90-10
12	12	100	ETSC60-12	ETSC90-12

cutwel PRO

4 FLUTE TiAlN COATED CARBIDE CORNER ROUNDING CUTTER

- Corner rounding for machining external radius
- TiAlN coated carbide for high performance machining
- Excellent for steel, stainless steel & cast iron
- Also suitable for hardened steel up to HRC45 & HRSA's
- Plain shank



MG SC | 4 | PLAIN | TiAlN COATED | CORNER RADIUS

Steel	Hardened Steel	Stainless Steel	HRSA's e.g. Inconel	Cast Iron	Aluminium
●	○	●	●	●	●

R	D1	D2	L2	Order Code
0.5	5	6	58	CRT200--R0.5
1	4	6	58	CRT200--R1
1.5	5	8	64	CRT200--R1.5
2	6	10	72	CRT200--R2
2.5	5	10	72	CRT200--R2.5
3	6	12	74	CRT200--R3
3.5	5	12	74	CRT200--R3.5
4	8	16	80	CRT200--R4
4.5	7	16	80	CRT200--R4.5
5	6	16	80	CRT200--R5
5.5	9	20	80	CRT200--R5.5
6	8	20	80	CRT200--R6

cutwel

TOTAL TOOLING SOLUTIONS

FOR ENHANCED PRODUCTIVITY & SERVICE

- Milling
- Hole Making
- Turning
- Threading
- Toolholding
- Workholding
- Measuring
- Lubricating

EXTENSIVE RANGE
40,000+
CUTTING TOOLS
STOCKED IN THE UK





ORDER UP TO 5.30PM FOR NEXT DAY DELIVERY

MON-THUR (UP TO 5PM FRI) - **TERMS & CONDITIONS APPLY. SEE CUTWEL.CO.UK/DELIVERY FOR DETAILS.**

Rated Excellent