

P H M S K

HSC & GENERAL MILLING

High speed & general milling applications

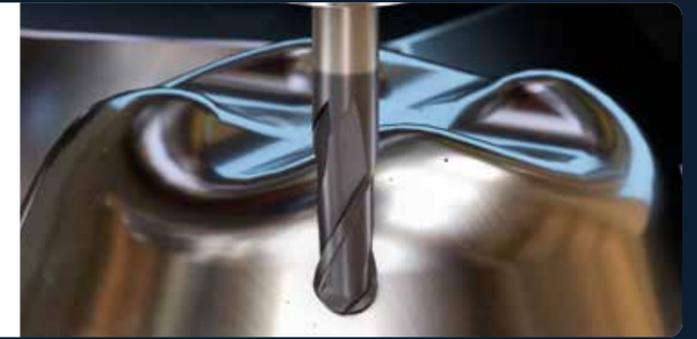
2 Flute	P 26-33	Corner Rad	P 40-45
3 Flute	P 34-35	6 & 8 Flute	P 46-51
4 Flute	P 36-39	Ball Nose	P 52-61

- ✓ 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

WIG 4G MILLS

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

P H M K



WIG X5070

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

P H M K



WIG JET-POWER

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

P M S



WIG V7 Plus 6 FLUTE TRP

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

P M S K



WIG K-2

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

P H M K

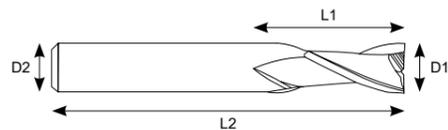




2 FLUTE K2 COATED CARBIDE SLOT DRILL

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)



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



General Purpose

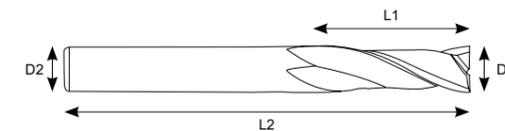
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1	4	3	50	G9424010	£14.23	£11.38
1.5	4	4	50	G9424015	£13.74	£10.99
2	4	6	50	G9424020	£11.78	£9.43
2.5	4	8	50	G9424025	£11.78	£9.43
3	3	8	50	G9424030	£11.78	£9.43
3	3	20	60	G9452903	£21.44	£17.15
3.5	4	10	50	G9424035	£13.11	£10.49
4	4	10	50	G9424040	£13.11	£10.49
4	4	20	60	G9452904	£22.56	£18.05
4.5	4.5	12	50	G9424045	£13.80	£11.04
5	5	13	50	G9424050	£13.80	£11.04
5	5	25	75	G9452905	£26.17	£20.94
5.5	5.5	15	50	G9424055	£15.27	£12.22
6	6	15	50	G9424060	£15.27	£12.22
6	6	30	75	G9452906	£28.47	£22.78
7	7	20	60	G9424070	£20.49	£16.39
8	8	20	60	G9424080	£24.67	£19.74
8	8	30	75	G9452908	£42.27	£33.81
9	9	20	60	G9424090	£33.38	£26.70
10	10	25	75	G9424100	£37.27	£29.82
10	10	40	100	G9452910	£54.36	£43.49
12	12	30	75	G9424120	£50.94	£40.75
12	12	45	100	G9452912	£82.17	£65.74
14	14	40	100	G9424140	£68.00	£54.40
14	14	45	100	G9452914	£104.32	£83.46
16	16	40	100	G9424160	£89.31	£71.45
16	16	45	100	G9452916	£142.69	£114.16
18	18	45	100	G9452918	£157.90	£126.32
20	20	40	100	G9424200	£151.21	£120.97
20	20	45	100	G9452920	£190.81	£152.64



2 FLUTE COATED CARBIDE SLOT DRILL

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

- Ultimate 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



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



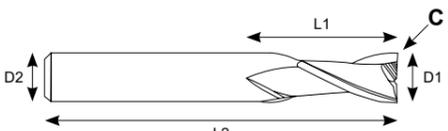
D1	D2	L1	L2	Order Code	List Price	Offer Price	D1	D2	L1	L2	Order Code	List Price	Offer Price
0.03	4	0.04	40	SEME350003E	£307.79	£246.23	5	6	30	80	SEME7005030E	£65.37	£52.29
0.04	4	0.06	40	SEME350004E	£307.79	£246.23	5	6	40	100	SEME7005040E	£78.53	£62.82
0.1	4	0.2	40	SEME35001E	£68.81	£55.05	5.5	6	15	60	SEME35055E	£39.15	£31.32
0.15	4	0.3	40	SEME350015E	£62.06	£49.65	6	6	15	60	SEME35060E	£39.15	£31.32
0.2	4	0.4	40	SEME35002E	£53.88	£43.11	6	6	20	70	SEME7006020E	£52.76	£42.21
0.25	4	0.5	40	SEME350025E	£52.83	£42.26	6	6	35	90	SEME7006035E	£72.37	£57.90
0.3	4	0.6	40	SEME35003E	£47.48	£37.98	6	6	30	100	SEME7006030100E	£69.30	£55.44
0.35	4	0.7	40	SEME350035E	£47.48	£37.98	6	6	45	150	SEME7006045E	£98.59	£78.87
0.4	4	0.8	40	SEME35004E	£41.87	£33.50	6.5	8	18	60	SEME35065E	£48.90	£39.12
0.45	4	0.9	40	SEME350045E	£41.87	£33.50	7	8	20	60	SEME35070E	£48.90	£39.12
0.5	4	1	40	SEME35005E	£36.69	£29.35	7.5	8	20	60	SEME35075E	£48.90	£39.12
0.55	4	1.1	40	SEME350055E	£36.69	£29.35	8	8	20	70	SEME35080E	£48.90	£39.12
0.6	4	1.2	40	SEME35006E	£34.53	£27.62	8	8	30	80	SEME7008030E	£62.20	£49.76
0.65	4	1.3	40	SEME350065E	£34.53	£27.62	8	8	40	90	SEME7008040E	£74.37	£59.50
0.7	4	1.4	40	SEME35007E	£33.45	£26.76	8	8	50	100	SEME7008050E	£84.05	£67.24
0.75	4	1.5	40	SEME350075E	£33.45	£26.76	8	8	40	120	SEME7008040120E	£83.35	£66.68
0.8	4	1.6	40	SEME35008E	£31.37	£25.10	8.5	10	22	70	SEME35085E	£72.37	£57.90
0.85	4	1.7	40	SEME350085E	£31.37	£25.10	9	10	22	70	SEME35090E	£72.37	£57.90
0.9	4	1.8	40	SEME35009E	£31.37	£25.10	9.5	10	24	70	SEME35095E	£72.37	£57.90
		3	60	SEME7001003E	£42.96	£34.37	10	10	25	75	SEME35100E	£72.37	£57.90
		6	60	SEME7001006E	£45.12	£36.10	10	10	35	100	SEME7010035E	£86.84	£69.47
1	6	8	60	SEME7001008E	£47.25	£37.80	10	10	50	100	SEME7010050E	£107.28	£85.82
		10	60	SEME7001010E	£51.49	£41.19	10	10	60	110	SEME7010060E	£131.00	£104.80
1.2	6	3	50	SEME35012E	£42.96	£34.37	10	10	40	120	SEME7010040120E	£104.61	£83.69
		4	50	SEME35015E	£42.96	£34.37	10.5	12	26	75	SEME35105E	£99.26	£79.41
		8	60	SEME7001508E	£45.12	£36.10	11	12	30	75	SEME35110E	£99.26	£79.41
1.5	6	10	60	SEME7001510E	£47.25	£37.80	11.5	12	30	80	SEME35115E	£99.26	£79.41
		12	60	SEME7001512E	£51.49	£41.19	12	12	30	80	SEME35120E	£89.53	£71.62
		16	60	SEME7001516E	£57.88	£46.31	12	12	35	90	SEME7012035E	£107.44	£85.95
2	6	6	50	SEME35020E	£39.15	£31.32	12	12	40	100	SEME7012040E	£111.67	£89.34
		8	60	SEME7002008E	£39.15	£31.32	12	12	40	120	SEME7012040120E	£135.44	£108.35
		12	60	SEME7002012E	£43.00	£34.40	12	12	60	150	SEME7012060150E	£184.75	£147.80
		16	60	SEME7002016E	£46.87	£37.50	13	12	35	100	SEME35130E	£119.06	£95.25
2.5	6	7	50	SEME35025E	£39.15	£31.32	14	14	35	100	SEME3514014SE	£108.70	£86.96
		16	60	SEME7002516E	£43.00	£34.40	15	16	30	100	SEME35150E	£155.22	£124.18
		8	50	SEME35030E	£39.15	£31.32	16	16	40	100	SEME35160E	£141.73	£113.38
3	6	12	70	SEME7003012E	£52.76	£42.21	16	16	40	150	SEME7016040E	£195.28	£156.22
		20	70	SEME7003020E	£52.76	£42.21	17	16	42	100	SEME35170E	£230.14	£184.11
		26	70	SEME7003026E	£59.33	£47.47	18	18	45	100	SEME3518018SE	£188.47	£150.77
3.5	6	10	50	SEME35035E	£39.15	£31.32	19	20	45	100	SEME35190E	£285.56	£228.45
		10	50	SEME35040E	£39.15	£31.32	20	20	45	100	SEME35200E	£235.17	£188.13
		12	70	SEME7004012E	£52.76	£42.21	20	20	90	200	SEME7020090200E	£485.84	£388.67
		20	70	SEME7004020E	£52.76	£42.21	20	20	110	200	SEME70200110E	£528.03	£422.42
		30	70	SEME7004030E	£63.81	£51.05	25	25	50	120	SEME35250E	£391.91	£313.53
4.5	6	14	50	SEME35045E	£39.15	£31.32							
5	6	15	60	SEME35050E	£39.15	£31.32							
		20	70	SEME7005020E	£52.76	£42.21							



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



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



General Purpose

D1	D2	L1	L2	C	Order Code	List Price	Offer Price
3	3	8	50		G9G44030	£11.78	£9.43
4	4	10	50	0.1	G9G44040	£13.11	£10.49
5	5	13	50		G9G44050	£13.80	£11.04
6	6	15	50		G9G44060	£15.27	£12.22
8	8	20	60	0.13	G9G44080	£24.67	£19.74
10	10	25	75		G9G44100	£37.27	£29.82
12	12	30	75		G9G44120	£50.94	£40.75
14	14	40	100	0.18	G9G44140	£68.00	£54.40
16	16	40	100		G9G44160	£89.31	£71.45
20	20	40	100	0.23	G9G44200	£151.21	£120.97

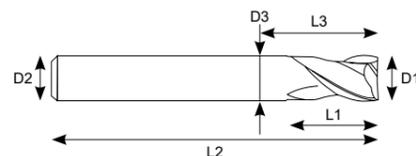


MG X5070

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 $\leq \phi 6$, 0~-0.015mm $> \phi 6$
- 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
○	○	●	●



High Performance

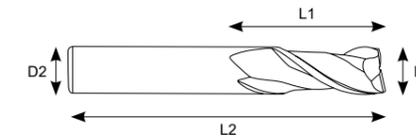
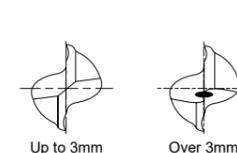
D1	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
0.1	4	-	0.2	40	-	GBA01001	£71.27	£60.58
0.2	4	-	0.4	40	-	GBA01002	£47.42	£40.31
0.3	4	-	0.6	40	-	GBA01003	£41.01	£34.86
0.4	4	-	0.8	40	-	GBA01004	£44.70	£37.99
0.5	4	-	1	40	-	GBA01005	£32.30	£27.46
0.6	4	-	1.2	40	-	GBA01006	£34.01	£28.91
0.7	4	-	1.4	40	-	GBA01007	£38.92	£33.08
0.8	4	-	1.6	40	-	GBA01008	£37.81	£32.14
0.9	4	-	2	40	-	GBA01009	£37.81	£32.14
1	6	0.95	1.5	50	3	GBA01010	£43.06	£36.60
1.5	6	1.45	1.7	50	4	GBA01015	£43.06	£36.60
2	6	1.95	2	50	5	GBA01020	£43.06	£36.60
2.5	6	2.4	2.5	55	6	GBA01025	£43.06	£36.60
3	6	2.85	3	55	8	GBA01030	£43.06	£36.60
3.5	6	3.35	3.5	55	9	GBA01035	£43.06	£36.60
4	6	3.85	4	55	10	GBA01040	£43.06	£36.60
5	6	4.85	5	55	13	GBA01050	£43.06	£36.60
6	6	5.85	6	55	15	GBA01060	£43.06	£36.60
8	8	7.7	8	65	20	GBA01080	£52.95	£45.01
10	10	9.7	10	75	25	GBA01100	£78.82	£67.00
12	12	11.7	12	85	28	GBA01120	£109.91	£93.42
16	16	15.7	16	90	32	GBA01160	£183.28	£155.79
20	20	19.7	20	105	40	GBA01200	£302.66	£257.26

MG JET-POWER

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



Advanced Performance

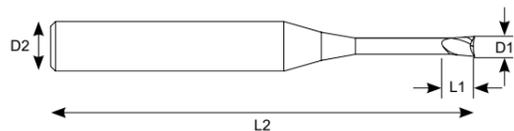
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1	4	2.5	40	EH911010	£24.37	£20.72
1	6	2.5	40	EH911901	£35.29	£29.99
1.5	4	4	40	EH911015	£24.37	£20.72
1.5	6	4	40	EH911902	£35.29	£29.99
2	4	6	40	EH911020	£22.27	£18.93
2	6	6	40	EH911903	£32.14	£27.32
2.5	4	8	40	EH911025	£22.27	£18.93
2.5	6	8	40	EH911904	£32.14	£27.32
3	6	8	45	EH911030	£32.14	£27.32
3.5	6	10	45	EH911035	£32.14	£27.32
4	6	11	45	EH911040	£32.14	£27.32
4.5	6	11	45	EH911045	£32.14	£27.32
5	6	13	50	EH911050	£32.14	£27.32
5.5	6	13	50	EH911055	£32.14	£27.32
6	6	13	50	EH911060	£32.14	£27.32
6.5	8	16	60	EH911065	£41.13	£34.96
7	8	16	60	EH911070	£41.13	£34.96
7.5	8	16	60	EH911075	£41.13	£34.96
8	8	19	60	EH911080	£41.13	£34.96
8.5	10	19	70	EH911085	£60.88	£51.75
9	10	19	70	EH911090	£60.88	£51.75
9.5	10	19	70	EH911095	£60.88	£51.75
10	10	22	70	EH911100	£60.88	£51.75
11	12	22	75	EH911110	£83.51	£70.99
12	12	26	75	EH911120	£83.51	£70.99
14	16	26	85	EH911140	£138.56	£117.77
16	16	32	100	EH911160	£138.56	£117.77
18	16	32	100	EH911180	£184.09	£156.48
20	20	38	105	EH911200	£229.69	£195.23
22	20	38	105	EH911220	£298.64	£253.85
25	25	45	120	EH911250	£367.50	£312.38

MG X-POWER PRO

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



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



High Performance

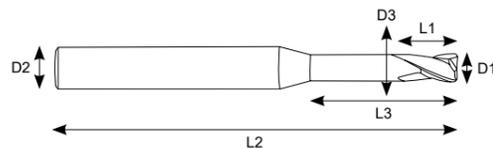
D1	D2	L1	L2	Order Code	List Price	Offer Price	D1	D2	L1	L2	Order Code	List Price	Offer Price
0.4	3	0.8	40	GM810004	£36.55	£29.24	3.5	6	10	45	GM810035	£34.11	£27.29
0.5	3	1	40	GM810005	£31.80	£25.44	4	6	11	45	GM810040	£34.11	£27.29
0.6	3	1.2	40	GM810006	£29.93	£23.94	5	6	13	50	GM810050	£34.11	£27.29
0.7	3	1.4	40	GM810007	£28.97	£23.18	6	6	13	50	GM810060	£34.11	£27.29
0.8	3	1.6	40	GM810008	£27.12	£21.70	7	8	16	60	GM810070	£43.66	£34.93
0.9	3	2	40	GM810009	£27.12	£21.70	8	8	19	60	GM810080	£43.66	£34.93
1	4	2.5	40	GM810010	£25.84	£20.67	9	10	19	70	GM810090	£64.63	£51.70
1	6	2.5	40	GM810901	£37.45	£29.96	10	10	22	70	GM810100	£64.63	£51.70
1.2	4	4	40	GM810012	£25.84	£20.67	11	12	22	75	GM810110	£88.62	£70.89
1.4	4	4	40	GM810014	£25.84	£20.67	12	12	26	75	GM810120	£88.62	£70.89
1.5	4	4	40	GM810015	£25.84	£20.67	14	14	26	85	GM810140	£112.38	£89.90
1.5	6	4	40	GM810902	£37.45	£29.96	16	16	32	100	GM810160	£147.03	£117.62
2	4	6	40	GM810020	£23.64	£18.91	18	18	32	100	GM810180	£195.38	£156.30
2	6	6	40	GM810903	£34.11	£27.29	20	20	38	105	GM810200	£243.76	£195.01
3	6	8	45	GM810030	£34.11	£27.29							



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



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



General Purpose

D1	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
0.4	4	0.37	0.7	50	2	G9B80004	£29.23	£23.39
					4	G9B80901	£29.23	£23.39
0.5	4	0.45	0.75	50	2	G9B80005	£26.64	£21.31
					4	G9B80902	£26.64	£21.31
					6	G9B80903	£26.64	£21.31
0.6	4	0.55	0.9	50	2	G9B80006	£26.64	£21.31
					4	G9B80904	£26.64	£21.31
					6	G9B80905	£26.64	£21.31
0.7	4	0.65	1.1	50	4	G9B80007	£24.26	£19.41
					6	G9B80906	£24.26	£19.41
					4	G9B80008	£24.26	£19.41
0.8	4	0.75	1.2	50	6	G9B80907	£24.26	£19.41
					8	G9B80908	£24.26	£19.41
					6	G9B80009	£24.26	£19.41
0.9	4	0.85	1.4	50	8	G9B80909	£24.26	£19.41
					10	G9B80910	£24.26	£19.41
					6	G9B80010	£21.59	£17.27
1	4	0.95	1.5	50	8	G9B80911	£21.59	£17.27
					10	G9B80912	£21.59	£17.27
					12	G9B80913	£22.91	£18.33
1.2	4	1.15	1.8	50	6	G9B80012	£21.59	£17.27
					8	G9B80914	£21.59	£17.27
					10	G9B80915	£21.59	£17.27
					12	G9B80916	£22.91	£18.33
					6	G9B80015	£21.59	£17.27
1.5	4	1.45	2.3	50	8	G9B80917	£21.59	£17.27
					10	G9B80918	£21.59	£17.27
					12	G9B80919	£22.91	£18.33
					14	G9B80920	£22.91	£18.33
					16	G9B80921	£23.81	£19.05
2	4	1.95	3	50	18	G9B80922	£23.81	£19.05
					20	G9B80923	£23.81	£19.05
					6	G9B80020	£20.58	£16.47
					8	G9B80924	£20.58	£16.47
					10	G9B80925	£20.58	£16.47
2.5	4	2.40	3.7	50	12	G9B80926	£20.58	£16.47
					14	G9B80927	£20.58	£16.47
					16	G9B80928	£21.40	£17.12
					18	G9B80929	£21.40	£17.12
					20	G9B80930	£21.40	£17.12
3	6	2.85	4.5	50	8	G9B80025	£20.58	£16.47
					12	G9B80931	£20.58	£16.47
					16	G9B80932	£21.40	£17.12
					20	G9B80933	£21.40	£17.12
					8	G9B80030	£30.95	£24.76
4	6	3.85	6	50	12	G9B80934	£30.95	£24.76
					16	G9B80935	£31.67	£25.34
					20	G9B80936	£31.67	£25.34
					25	G9B80937	£31.67	£25.34
					12	G9B80040	£30.95	£24.76
4	6	3.85	6	50	16	G9B80938	£31.67	£25.34
					20	G9B80939	£31.67	£25.34
					25	G9B80940	£31.67	£25.34
					30	G9B80941	£36.67	£29.34
					35	G9B80942	£39.93	£31.95



2 FLUTE COATED CARBIDE RIB PROCESSING SLOT DRILL

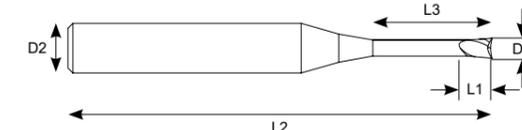
Excellent Performance on Dry or Wet Cutting all Steel, Stainless, Cast Iron & Hardened Steel <HRC55

- 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



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

D1	D2	L1	L2	L3	Order Code	List Price	Offer Price	D1	D2	L1	L2	L3	Order Code	List Price	Offer Price
0.5	4	0.7	45	6	SEM84500506E	£40.31	£32.25	1.6	4	2.3	50	8	SEM84501608E	£33.36	£26.69
				10	SEM84500510E	£46.62	£37.29					12	SEM84501612E	£35.24	£28.19
0.6	4	0.9	45	2	SEM84500602E	£40.31	£32.25	1.8	4	2.7	50	8	SEM84501808E	£33.36	£26.69
				4	SEM84500604E	£40.31	£32.25					20	SEM84501820E	£35.98	£28.78
				6	SEM84500606E	£40.31	£32.25					20	SEM84501820E	£35.98	£28.78
0.7	4	1.2	45	10	SEM84500610E	£46.41	£37.13	2	4	3	50	6	SEM84502006E	£31.83	£25.47
				2	SEM84500702E	£36.73	£29.38					12	SEM84502012E	£31.83	£25.47
				4	SEM84500704E	£36.73	£29.38					16	SEM84502016E	£33.90	£27.12
				6	SEM84500706E	£36.73	£29.38					20	SEM84502020E	£33.90	£27.12
				8	SEM84500708E	£36.73	£29.38					30	SEM84502030E	£35.94	£28.75
0.8	4	1.2	45	12	SEM84500712E	£46.41	£37.13	2.5	4	4	50	40	SEM84502040E	£39.22	£31.38
				2	SEM84500802E	£36.73	£29.38					60	SEM84502060E	£56.42	£45.14
				4	SEM84500804E	£36.73	£29.38					8	SEM84502508E	£31.83	£25.47
0.9	4	1.3	45	6	SEM84500906E	£36.73	£29.38	3	6	4.5	50	12	SEM84502512E	£31.83	£25.47
				10	SEM84500910E	£36.73	£29.38					16	SEM84502516E	£33.90	£27.12
				2	SEM84501002E	£33.36	£26.69					20	SEM84502520E	£33.90	£27.12
1	4	1.5	50	4	SEM84501004E	£33.36	£26.69	4	6	6	50	26	SEM84503026E	£48.15	£38.52
				6	SEM84501006E	£33.36	£26.69					35	SEM84503035E	£61.50	£49.20
				8	SEM84501008E	£33.36	£26.69					60	SEM84503060E	£82.73	£66.18
				10	SEM84501010E	£33.36	£26.69					12	SEM84504012E	£47.65	£38.12
				16	SEM84501016E	£36.73	£29.38					20	SEM84504020E	£48.15	£38.52
1.2	4	1.8	50	20	SEM84501020E	£37.11	£29.69	5	6	8	50	30	SEM84504030E	£61.50	£49.20
				30	SEM84501030E	£40.80	£32.64					35	SEM84504035E	£61.50	£49.20
				4	SEM84501204E	£33.36	£26.69					50	SEM84504050E	£77.00	£61.60
1.4	4	2.1	50	10	SEM84501210E	£33.36	£26.69	6	6	9	50	60	SEM84504060E	£82.73	£66.18
				16	SEM84501216E	£36.73	£29.38					20	SEM84505020E	£48.15	£38.52
				26	SEM84501226E	£40.80	£32.64					30	SEM84505030E	£61.50	£49.20
1.5	4	2.3	50	8	SEM84501408E	£33.36	£26.69	8	8	12	50	40	SEM84505040E	£62.08	£49.66
				10	SEM84501410E	£33.36	£26.69					50	SEM84505050E	£70.51	£56.41
				16	SEM84501416E	£36.73	£29.38					15	SEM84506015E	£48.15	£38.52
				4	SEM84501504E	£33.36	£26.69					20	SEM84506020E	£48.15	£38.52
				8	SEM84501508E	£33.36	£26.69					30	SEM84506030E	£61.50	£49.20
1.5	4	2.3	50	12	SEM84501512E	£34.82	£27.85	10	10	15	50	30	SEM84508030E	£63.73	£50.98
				16	SEM84501516E	£36.73	£29.38					42	SEM84508042E	£74.83	£59.86
				20	SEM84501520E	£36.73	£29.38					75	SEM84510030E	£89.00	£71.20
				30	SEM84501530E	£40.80	£32.64					80	SEM84510035E	£94.61	£75.69

HSC & GENERAL MILLING

HSC & GENERAL MILLING

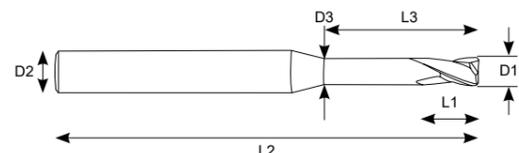
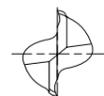
IG X5070

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

High Performance



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

D1	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
0.1	4	0.085	0.15	45	0.3	G8A45863	£72.98	£62.03
					0.5	G8A45864	£77.55	£65.92
0.2	4	0.17	0.3	45	0.5	G8A45002	£50.51	£42.94
					1	G8A45815	£50.51	£42.94
0.3	4	0.27	0.45	45	1.5	G8A45816	£60.47	£51.40
					1	G8A45003	£42.91	£36.48
					1.5	G8A45844	£42.91	£36.48
					2	G8A45817	£52.58	£44.69
					3	G8A45818	£52.58	£44.69
0.4	4	0.37	0.6	45	4	G8A45842	£55.02	£46.77
					1	G8A45843	£46.35	£39.40
					2	G8A45004	£46.35	£39.40
					3	G8A45984	£46.35	£39.40
					4	G8A45985	£46.35	£39.40
0.5	4	0.45	0.7	45	5	G8A45986	£46.35	£39.40
					2	G8A45005	£32.04	£27.23
					2.5	G8A45861	£32.04	£27.23
					4	G8A45988	£32.04	£27.23
					6	G8A45989	£32.04	£27.23
0.6	4	0.55	0.9	45	8	G8A45990	£32.19	£27.36
					2	G8A45006	£34.32	£29.17
					3	G8A45860	£34.32	£29.17
					4	G8A45991	£34.32	£29.17
					6	G8A45992	£34.32	£29.17
0.8	4	0.75	1.2	45	8	G8A45993	£34.17	£29.05
					10	G8A45819	£34.32	£29.17
					2	G8A45862	£37.81	£32.14
					4	G8A45008	£37.81	£32.14
					6	G8A45908	£37.81	£32.14
1	4	0.95	1.5	45	8	G8A45909	£37.81	£32.14
					10	G8A45994	£38.35	£32.59
					12	G8A45995	£48.04	£40.83
					45	G8A45996	£34.01	£28.91
					45	G8A45010	£34.01	£28.91

D1	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
1.2	4	1.15	1.8	45	6	G8A45012	£35.88	£30.50
				45	8	G8A45915	£35.88	£30.50
				45	10	G8A45916	£35.88	£30.50
				45	12	G8A45917	£35.84	£30.46
				50	16	G8A45999	£36.22	£30.79
1.5	4	1.45	2.3	45	6	G8A45015	£35.88	£30.50
				45	8	G8A45923	£35.88	£30.50
				45	10	G8A45924	£35.88	£30.50
				45	12	G8A45925	£36.20	£30.77
				50	14	G8A45926	£36.20	£30.77
2	4	1.95	3	50	16	G8A45927	£37.38	£31.78
				55	18	G8A45928	£37.38	£31.78
				55	20	G8A45810	£37.38	£31.78
				45	6	G8A45958	£35.34	£30.04
				45	8	G8A45020	£35.34	£30.04
3	6	2.85	4.5	45	10	G8A45961	£35.34	£30.04
				45	12	G8A45962	£36.35	£30.90
				55	18	G8A45963	£36.35	£30.90
				55	20	G8A45964	£36.35	£30.90
				60	25	G8A45966	£36.35	£30.90
4	6	3.85	6	70	30	G8A45814	£36.35	£30.90
				45	10	G8A45975	£48.50	£41.22
				45	12	G8A45976	£48.50	£41.22
				50	14	G8A45977	£48.50	£41.22
				55	16	G8A45978	£48.53	£41.25
4	6	3.85	6	55	18	G8A45979	£48.53	£41.25
				60	20	G8A45980	£48.53	£41.25
				65	25	G8A45981	£48.53	£41.25
				70	30	G8A45832	£58.37	£49.62
				80	35	G8A45833	£63.13	£53.66
4	6	3.85	6	90	40	G8A45983	£63.13	£53.66
				50	12	G8A45040	£56.25	£47.81
				60	16	G8A45801	£56.27	£47.83
				60	20	G8A45802	£56.27	£47.83
				70	25	G8A45803	£56.27	£47.83
4	6	3.85	6	70	30	G8A45834	£61.91	£52.62
				80	35	G8A45835	£69.02	£58.67
				90	40	G8A45836	£69.02	£58.67
				90	45	G8A45837	£75.87	£64.49
				100	50	G8A45838	£91.05	£77.39

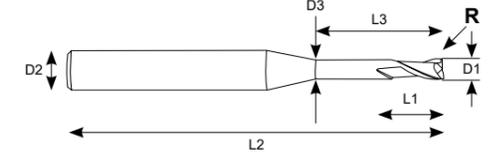
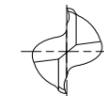
IG X-POWER PRO

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

High Performance



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

D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
1	0.1	4	0.95	1.5	45	6	GM8A1010	£32.85	£26.28
						8	GM8A1920	£32.85	£26.28
						10	GM8A1921	£32.85	£26.28
1.2	0.2	4	1.15	1.8	45	6	GM8A1012	£32.85	£26.28
						45	GM8A1015	£32.85	£26.28
						45	GM8A1937	£32.85	£26.28
1.5	0.2	4	1.45	2.3	45	8	GM8A1938	£32.85	£26.28
						10	GM8A1939	£34.80	£27.84
						16	GM8A1941	£36.75	£29.40
1.8	0.2	4	1.75	2.7	45	6	GM8A1018	£32.85	£26.28
						45	GM8A1960	£31.25	£25.00
						45	GM8A1020	£31.25	£25.00
2	0.2	4	1.95	3	45	12	GM8A1962	£31.25	£25.00
						10	GM8A1961	£31.25	£25.00
						16	GM8A1964	£33.85	£27.08
2.5	0.2	4	2.4	3.7	45	20	GM8A1966	£33.85	£27.08
						25	GM8A1967	£35.80	£28.64
						12	GM8A1969	£31.25	£25.00
3	0.3	6	2.85	4.5	45	16	GM8A1981	£47.45	£37.96
						16	GM8A1983	£47.45	£37.96
						20	GM8A1984	£47.45	£37.96
3	0.3	6	2.85	4.5	65	25	GM8A1984	£47.45	£37.96
						30	GM8A1976	£56.97	£45.58
						40	GM8A1985	£61.25	£49.00
4	0.3	6	3.85	6	50	12	GM8A1040	£46.60	£37.28
						16	GM8A1986	£47.45	£37.96
						20	GM8A1987	£47.45	£37.96
6	0.5	6	5.85	9	80	20	GM8A1060	£46.60	£37.28
						40	GM8A1802	£61.20	£48.96

HSC & GENERAL MILLING

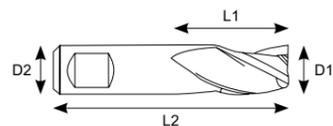
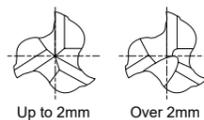
HSC & GENERAL MILLING



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



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



D1	D2	L1	L2	Order Code	List Price	Offer Price
0.5	3	1.5	38	G9553005	£13.64	£10.91
0.6	3	1.5	38	G9553006	£13.64	£10.91
0.8	3	2	38	G9553008	£11.97	£9.58
1	3	2	38	G9553010	£10.88	£8.70
1.2	3	2	38	G9553012	£14.18	£11.34
1.5	3	2	38	G9553015	£10.88	£8.70
2	6	4	35	G9410020	£13.04	£10.43
2.5	6	5	36	G9410025	£13.64	£10.91
3	6	5	36	G9410030	£13.04	£10.43
3.5	6	6	37	G9410035	£14.18	£11.34
4	6	7	38	G9410040	£13.04	£10.43
4.5	6	8	38	G9410045	£14.18	£11.34
5	6	8	39	G9410050	£13.04	£10.43
5.5	6	8	39	G9410055	£14.18	£11.34
6	6	8	39	G9410060	£13.04	£10.43
7	8	10	42	G9410070	£17.76	£14.21
8	8	11	43	G9410080	£19.01	£15.21
9	10	11	48	G9410090	£27.30	£21.84
10	10	13	50	G9410100	£28.50	£22.80
12	12	15	55	G9410120	£33.87	£27.10
14	14	15	58	G9410140	£50.21	£40.16
16	16	18	62	G9410160	£59.26	£47.41
18	18	20	70	G9410180	£73.09	£58.47
20	20	22	75	G9410200	£96.28	£77.02

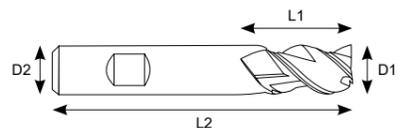
▶ Plain Shank only



3 FLUTE 45° HELIX COATED CARBIDE SLOT DRILL

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



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	List Price	Offer Price
3	6	7	57	G9447030	£23.40	£18.72
3.5	6	7	57	G9447035	£23.40	£18.72
4	6	8	57	G9447040	£23.40	£18.72
5	6	10	57	G9447050	£23.40	£18.72
6	6	10	57	G9447060	£23.40	£18.72
8	8	16	63	G9447080	£28.71	£22.97
9	10	16	72	G9447090	£45.13	£36.11
10	10	19	72	G9447100	£45.13	£36.11
12	12	22	83	G9447120	£65.08	£52.07
14	14	22	83	G9447140	£83.08	£66.46
16	16	26	92	G9447160	£110.10	£88.08
18	18	26	92	G9447180	£144.27	£115.41
20	20	32	104	G9447200	£173.77	£139.01



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



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



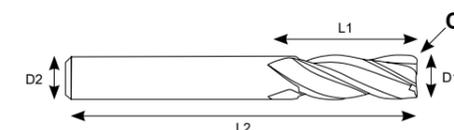
D1	D2	L1	L2	Order Code	List Price	Offer Price
1	4	3	50	G9425010	£14.23	£11.38
1.5	4	4	50	G9425015	£13.74	£10.99
2	4	6	50	G9425020	£11.78	£9.43
2.5	4	8	50	G9425025	£11.78	£9.43
3	3	8	50	G9425030	£11.78	£9.43
3.5	4	10	50	G9425035	£13.11	£10.49
4	4	10	50	G9425040	£13.11	£10.49
4.5	4.5	12	50	G9425045	£13.80	£11.04
5	5	13	50	G9425050	£13.80	£11.04
5.5	5.5	15	50	G9425055	£15.27	£12.22
6	6	15	50	G9425060	£15.27	£12.22
7	7	20	60	G9425070	£20.49	£16.39
8	8	20	60	G9425080	£24.67	£19.74
9	9	20	60	G9425090	£33.38	£26.70
10	10	25	75	G9425100	£37.27	£29.82
12	12	30	75	G9425120	£50.94	£40.75
14	14	40	100	G9425140	£68.00	£54.40
16	16	40	100	G9425160	£89.31	£71.45
20	20	40	100	G9425200	£151.21	£120.97



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



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



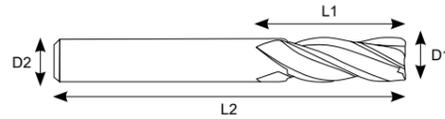
D1	D2	L1	L2	C	Order Code	List Price	Offer Price
3	3	8	50		G9G47030	£11.78	£9.43
4	4	10	50	0.1	G9G47040	£13.11	£10.49
5	5	13	50		G9G47050	£13.80	£11.04
6	6	15	50		G9G47060	£15.27	£12.22
8	8	20	60	0.13	G9G47080	£24.67	£19.74
10	10	25	75		G9G47100	£37.27	£29.82
12	12	30	75		G9G47120	£50.94	£40.75
14	14	40	100	0.18	G9G47140	£68.00	£54.40
16	16	40	100		G9G47160	£89.31	£71.45
20	20	40	100	0.23	G9G47200	£151.21	£120.97



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



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



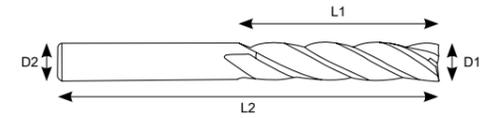
D1	D2	L1	L2	Order Code	List Price	Offer Price
1	4	3	50	G9432010	£14.23	£11.38
1.5	4	4	50	G9432015	£13.74	£10.99
2	4	6	50	G9432020	£11.78	£9.43
2.5	4	8	50	G9432025	£11.78	£9.43
3	3	8	50	G9432030	£11.78	£9.43
3	3	20	60	G9453903	£21.44	£17.15
3.5	4	10	50	G9432035	£13.11	£10.49
4	4	10	50	G9432040	£13.11	£10.49
4	4	20	60	G9453904	£22.56	£18.05
4.5	4.5	12	50	G9432045	£13.80	£11.04
5	5	13	50	G9432050	£13.80	£11.04
5	5	25	75	G9453905	£26.17	£20.94
5.5	5.5	15	50	G9432055	£15.27	£12.22
6	6	15	50	G9432060	£15.27	£12.22
6	6	30	75	G9453906	£28.47	£22.78
7	7	20	60	G9432070	£20.49	£16.39
8	8	20	60	G9432080	£24.67	£19.74
8	8	30	75	G9453908	£42.27	£33.81
9	9	20	60	G9432090	£33.38	£26.70
10	10	25	75	G9432100	£37.27	£29.82
10	10	40	100	G9453910	£54.36	£43.49
12	12	30	75	G9432120	£50.94	£40.75
12	12	45	100	G9453912	£82.17	£65.74
14	14	40	100	G9432140	£68.00	£54.40
14	14	45	100	G9453914	£104.32	£83.46
16	16	40	100	G9432160	£89.31	£71.45
16	16	45	100	G9453916	£142.69	£114.16
18	18	45	100	G9453918	£157.90	£126.32
20	20	40	100	G9432200	£151.21	£120.97
20	20	45	100	G9453920	£190.81	£152.64



4 FLUTE COATED CARBIDE END MILL FINISHER

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



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



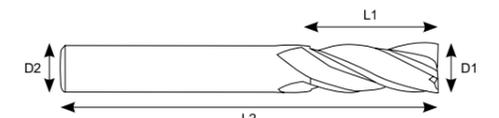
D1	D2	L1	L2	Order Code	List Price	Offer Price
1	6	4	60	SEME7201004E	£42.96	£34.37
		6	60	SEME7201006E	£45.12	£36.10
1.5	6	6	60	SEME7201506E	£42.96	£34.37
		8	60	SEME7202008E	£39.15	£31.32
2	6	12	60	SEME7202012E	£43.00	£34.40
		14	60	SEME7202014E	£46.87	£37.50
2.5	6	10	60	SEME7202510E	£39.15	£31.32
		12	60	SEME7202512E	£39.15	£31.32
		10	70	SEME7203010E	£52.76	£42.21
		12	70	SEME7203012E	£52.76	£42.21
		12	70	SEME7203020E	£52.76	£42.21
		30	70	SEME7203030E	£63.81	£51.05
4	6	12	70	SEME7204012E	£52.76	£42.21
		16	70	SEME7204016E	£52.76	£42.21
		20	70	SEME7204020E	£52.76	£42.21
		30	70	SEME7204030E	£63.81	£51.05
		20	70	SEME7205020E	£52.76	£42.21
		25	70	SEME7205025E	£59.33	£47.47
		30	80	SEME7205030E	£65.37	£52.29
		40	100	SEME7205040E	£78.53	£62.82
		20	70	SEME7206020E	£52.76	£42.21
		30	80	SEME7206030E	£64.27	£51.42
		35	90	SEME7206035E	£72.37	£57.90



4 FLUTE COATED CARBIDE END MILL MULTIPLE HELIX HEAVY CUTTING

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



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



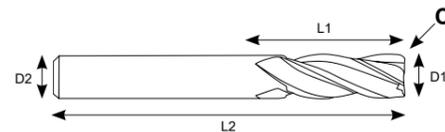
D1	D2	L1	L2	Order Code	List Price	Offer Price
1	6	2	40	SEME7101002E	£41.26	£33.01
		3	50	SEME7101003E	£45.12	£36.10
		6	50	SEME7101006E	£47.37	£37.90
		4	50	SEME71015E	£42.96	£34.37
1.5	6	8	50	SEME7101508E	£47.37	£37.90
		10	50	SEME7101510E	£49.65	£39.72
		2	40	SEME7102002E	£37.51	£30.01
		6	50	SEME71020E	£39.15	£31.32
		12	50	SEME7102012E	£45.16	£36.13
2.5	6	7	50	SEME71025E	£39.15	£31.32
		12	50	SEME7102512E	£41.08	£32.87
		6	40	SEME7103006E	£37.51	£30.01
		12	50	SEME7103012E	£45.45	£36.36
		8	40	SEME7104008E	£37.51	£30.01
		12	50	SEME7104012E	£45.45	£36.36
		16	50	SEME7104016E	£45.45	£36.36
5	6	10	50	SEME7105010E	£37.51	£30.01



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



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



D1	D2	L1	L2	C	Order Code	List Price	Offer Price
3	3	8	50		G9G50030	£11.78	£9.43
4	4	10	50	0.1	G9G50040	£13.11	£10.49
5	5	13	50		G9G50050	£13.80	£11.04
6	6	15	50		G9G50060	£15.27	£12.22
8	8	20	60	0.13	G9G50080	£24.67	£19.74
10	10	25	75		G9G50100	£37.27	£29.82
12	12	30	75		G9G50120	£50.94	£40.75
14	14	40	100	0.18	G9G50140	£68.00	£54.40
16	16	40	100		G9G50160	£89.31	£71.45
20	20	40	100	0.23	G9G50200	£151.21	£120.97

HSC & GENERAL MILLING

HSC & GENERAL MILLING



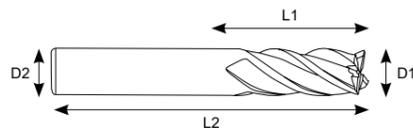
4G JET-POWER

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)



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

D1	D2	L1	L2	Order Code	List Price	Offer Price
2	4	6	40	EH913020	£22.27	£18.93
2	6	6	40	EH913901	£32.14	£27.32
2.5	4	8	40	EH913025	£22.27	£18.93
2.5	6	8	40	EH913902	£32.14	£27.32
3	6	8	45	EH913030	£32.14	£27.32
3.5	6	10	45	EH913035	£32.14	£27.32
4	6	11	45	EH913040	£32.14	£27.32
4.5	6	11	45	EH913045	£32.14	£27.32
5	6	13	50	EH913050	£32.14	£27.32
5.5	6	13	50	EH913055	£32.14	£27.32
6	6	13	50	EH913060	£32.14	£27.32
6.5	8	16	60	EH913065	£41.13	£34.96
7	8	16	60	EH913070	£41.13	£34.96
7.5	8	16	60	EH913075	£41.13	£34.96
8	8	19	60	EH913080	£41.13	£34.96
8.5	10	19	70	EH913085	£60.88	£51.75
9	10	19	70	EH913090	£60.88	£51.75
9.5	10	19	70	EH913095	£60.88	£51.75
10	10	22	70	EH913100	£60.88	£51.75
11	12	22	75	EH913110	£83.51	£70.99
12	12	26	75	EH913120	£83.51	£70.99
14	16	26	85	EH913140	£138.56	£117.77
16	16	32	100	EH913160	£138.56	£117.77
18	16	32	100	EH913180	£184.09	£156.48
20	20	38	105	EH913200	£229.69	£195.23
22	20	38	105	EH913220	£298.64	£253.85
25	25	45	120	EH913250	£367.50	£312.38

4G 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



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

D1	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
1	6	0.95	1.5	50	3	G8A02010	£43.06	£36.60
2	6	1.95	2	50	5	G8A02020	£43.06	£36.60
3	6	2.85	3	55	8	G8A02030	£43.06	£36.60
4	6	3.85	4	55	10	G8A02040	£43.06	£36.60
5	6	4.85	5	55	13	G8A02050	£43.06	£36.60
6	6	5.85	6	55	15	G8A02060	£43.06	£36.60
8	8	7.7	8	65	20	G8A02080	£52.95	£45.01
10	10	9.7	10	75	25	G8A02100	£78.82	£67.00
12	12	11.7	12	85	28	G8A02120	£109.91	£93.42
16	16	15.7	16	90	32	G8A02160	£183.28	£155.79
20	20	19.7	20	105	40	G8A02200	£302.66	£257.26

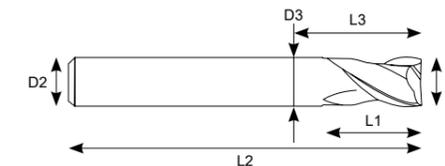
4G MILLS

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



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

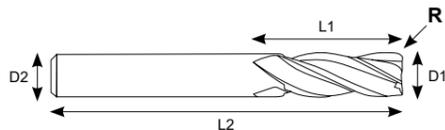
D1	D2	L1	L2	L3	Order Code	List Price	Offer Price
1	4	1.5	50	4	SEME7301004E	£33.36	£26.69
			50	5	SEME7301005E	£33.36	£26.69
			50	6	SEME7301006E	£33.36	£26.69
			50	8	SEME7301008E	£33.36	£26.69
			50	12	SEME7301012E	£35.24	£28.19
			50	16	SEME7301016E	£36.73	£29.38
			50	20	SEME7301020E	£37.11	£29.69
1.5	4	2.3	70	30	SEME7301030E	£40.80	£32.64
			50	8	SEME7301508E	£33.36	£26.69
			50	10	SEME7301510E	£33.36	£26.69
			50	12	SEME7301512E	£35.24	£28.19
			50	16	SEME7301516E	£36.73	£29.38
			60	22	SEME7301522E	£40.80	£32.64
			70	30	SEME7301530E	£40.80	£32.64
2	4	3	50	8	SEME7302008E	£31.83	£25.47
			50	10	SEME7302010E	£31.83	£25.47
			50	12	SEME7302012E	£31.83	£25.47
			50	14	SEME7302014E	£31.83	£25.47
			50	16	SEME7302016E	£33.90	£27.12
			50	20	SEME7302020E	£33.90	£27.12
			60	26	SEME7302026E	£35.94	£28.75
			70	35	SEME7302035E	£35.94	£28.75
			90	45	SEME7302045E	£44.58	£35.66
			3	6	4.5	50	10
60	16	SEME7303016E				£48.15	£38.52
65	22	SEME7303022E				£48.15	£38.52
70	30	SEME7303030E				£61.50	£49.20
80	40	SEME7303040E				£62.08	£49.66
100	60	SEME7303060E				£82.73	£66.18
60	16	SEME7304016E				£48.15	£38.52
60	20	SEME7304020E				£48.15	£38.52
65	26	SEME7304026E				£48.15	£38.52
70	35	SEME7304035E				£61.50	£49.20
80	40	SEME7304040E				£62.08	£49.66
100	60	SEME7304060E				£82.73	£66.18
4	6	6	60	20	SEME7305020E	£48.15	£38.52
			75	35	SEME7305035E	£61.50	£49.20
			100	60	SEME7305060E	£82.73	£66.18
			60	15	SEME7306015E	£48.15	£38.52
5	6	8	70	30	SEME7306030E	£61.50	£49.20
			100	60	SEME7306060E	£82.73	£66.18
6	6	9	60	15	SEME7308015E	£48.15	£38.52
			70	30	SEME7308030E	£61.50	£49.20
8	8	12	70	25	SEME7308025E	£60.13	£48.10
			100	42	SEME7308042E	£74.83	£59.86
10	10	15	75	30	SEME7310030E	£89.00	£71.20
			100	45	SEME7310045E	£110.06	£88.05
12	12	20	80	35	SEME7312035E	£110.03	£88.03
			110	50	SEME7312050E	£158.44	£126.76



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



General Purpose



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

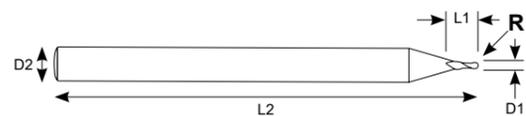
D1	R	D2	L1	L2	Order Code	List Price	Offer Price	D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	0.2				G9B82020	£15.11	£12.09	0.5					G9B82080	£27.33	£21.87
	0.3	4	4	50	G9B82901	£15.11	£12.09	1					G9B82917	£27.33	£21.87
	0.5				G9B82902	£15.11	£12.09	1.5	8	16	60		G9B82918	£28.66	£22.93
2.5	0.2				G9B82025	£15.11	£12.09	2					G9B82919	£28.66	£22.93
	0.3	4	5	50	G9B82903	£15.11	£12.09	2.5					G9B82920	£28.66	£22.93
	0.5				G9B82904	£15.11	£12.09	0.5					G9B83080	£31.99	£25.59
3	0.2				G9B82030	£15.11	£12.09	1					G9B83905	£31.99	£25.59
	0.3	4	6	50	G9B82905	£15.11	£12.09	1.5	8	16	100		G9B83906	£31.99	£25.59
	0.5				G9B82906	£15.11	£12.09	2					G9B83907	£31.99	£25.59
	1				G9B82907	£15.11	£12.09	2.5					G9B83908	£31.99	£25.59
	0.5	4	6	75	G9B83030	£17.03	£13.63	0.5					G9B82100	£41.64	£33.31
	1				G9B83901	£17.03	£13.63	1					G9B82921	£41.64	£33.31
4	0.2				G9B82040	£15.11	£12.09	1.5	10	20	75		G9B82922	£43.66	£34.93
	0.3	4	8	50	G9B82908	£15.11	£12.09	2					G9B82923	£43.66	£34.93
	0.5				G9B82909	£15.11	£12.09	2.5					G9B82924	£43.66	£34.93
	1				G9B82910	£15.11	£12.09	0.5					G9B83100	£48.77	£39.02
	0.5	4	8	75	G9B83040	£17.03	£13.63	1					G9B83909	£48.77	£39.02
	1				G9B83902	£17.03	£13.63	1.5	10	20	100		G9B83910	£48.77	£39.02
5	0.2				G9B82050	£22.40	£17.92	2					G9B83911	£48.77	£39.02
	0.3	6	10	50	G9B82911	£22.40	£17.92	2.5					G9B83912	£48.77	£39.02
	0.5				G9B82912	£22.40	£17.92	0.5					G9B82120	£58.30	£46.64
	1				G9B82913	£22.40	£17.92	1					G9B82925	£58.30	£46.64
	0.5	6	10	75	G9B83050	£24.67	£19.74	1.5	12	24	75		G9B82926	£61.12	£48.89
	1				G9B83903	£24.67	£19.74	2					G9B82927	£61.12	£48.89
6	0.2				G9B82060	£22.40	£17.92	2.5					G9B82928	£61.12	£48.89
	0.3	6	12	50	G9B82914	£22.40	£17.92	0.5					G9B83120	£62.22	£49.78
	0.5				G9B82915	£22.40	£17.92	1					G9B83913	£62.22	£49.78
	1				G9B82916	£22.40	£17.92	1.5	12	24	100		G9B83914	£62.22	£49.78
	0.5	6	12	75	G9B83060	£24.67	£19.74	2					G9B83915	£62.22	£49.78
	1				G9B83904	£24.67	£19.74	2.5					G9B83916	£62.22	£49.78



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



High Performance



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

D1	R	D2	L1	L2	Order Code	List Price	Offer Price
0.3	-		0.45		G8A50003	£70.34	£59.79
0.4	-		0.6		G8A50004	£65.96	£56.07
0.5	0.05		0.7		G8A50005	£55.99	£47.59
0.6	0.05		0.9		G8A50006	£53.80	£45.73
0.8	0.05	6	1.2	50	G8A50008	£49.58	£42.14
1	0.1		1.5		G8A50010	£47.51	£40.39
1.2	0.1		1.8		G8A50012	£47.51	£40.39
1.5	0.15		2.2		G8A50015	£47.51	£40.39
2	0.15		2.2		G8A50020	£43.10	£36.63



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



High Performance



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

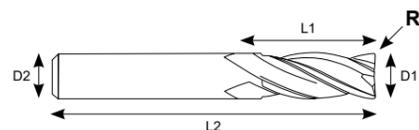
D1	R	D2	L1	L2	Order Code	List Price	Offer Price	D1	R	D2	L1	L2	Order Code	List Price	Offer Price
0.3	0.02	4	0.6	40	SEMD99003002E	£62.86	£50.29	0.3					SEMD9908003070E	£64.52	£51.61
	0.05				SEMD99003005E	£62.86	£50.29	0.5	8	20	70		SEMD9908005070E	£64.52	£51.61
	0.05	4	0.8	40	SEMD99004005E	£55.44	£44.35	1					SEMD9908010070E	£64.52	£51.61
	0.1				SEMD9900401E	£55.44	£44.35	0.1					SEMD9908001E	£72.87	£58.30
0.4	0.05				SEMD99005005E	£48.52	£38.82	0.2					SEMD9908002E	£72.87	£58.30
	0.1	4	1	40	SEMD9900501E	£48.52	£38.82	0.3					SEMD9908003E	£72.87	£58.30
0.5	0.05				SEMD99010005E	£56.88	£45.50	0.5					SEMD9908005E	£72.87	£58.30
	0.1	6	2.5	50	SEMD9901001E	£56.88	£45.50	1	8	20	100		SEMD9908010E	£72.87	£58.30
	0.2				SEMD9901002E	£56.88	£45.50	1.5					SEMD9908015E	£77.53	£62.02
	0.3				SEMD9901003E	£56.88	£45.50	2					SEMD9908020E	£77.53	£62.02
	0.05				SEMD99015005E	£56.88	£45.50	2.5					SEMD9908025E	£82.18	£65.75
	0.1	6	4		SEMD9901501E	£56.88	£45.50	3					SEMD9908030E	£82.18	£65.75
1.5	0.2			50	SEMD9901502E	£56.88	£45.50	0.5	8	20	150		SEMD9908015150E	£86.00	£68.80
	0.3				SEMD9901503E	£56.88	£45.50	1					SEMD9908010150E	£93.98	£75.18
	0.5				SEMD9901505E	£56.88	£45.50	0.3					SEMD9910003075E	£86.96	£69.57
	0.1				SEMD9902001E	£51.73	£41.39	0.5	10	25	75		SEMD9910005075E	£86.96	£69.57
	0.2				SEMD9902002E	£51.73	£41.39	1					SEMD9910010075E	£86.96	£69.57
	0.3				SEMD9902003E	£51.73	£41.39	0.1					SEMD9910001E	£96.27	£77.01
	0.5				SEMD9902005E	£51.73	£41.39	0.2					SEMD9910002E	£96.27	£77.01
2.5	0.1				SEMD9902501E	£51.73	£41.39	0.3					SEMD9910003E	£96.27	£77.01
	0.2				SEMD9902502E	£51.73	£41.39	0.5					SEMD9910005E	£96.27	£77.01
	0.3	6	7	60	SEMD9902503E	£51.73	£41.39	1	10	25	100		SEMD9910010E	£96.27	£77.01
	0.5				SEMD9902505E	£51.73	£41.39	1.5					SEMD9910015E	£104.99	£83.99
	0.1				SEMD9903001E	£51.73	£41.39	2					SEMD9910020E	£104.99	£83.99
	0.2				SEMD9903002E	£51.73	£41.39	2.5					SEMD9910025E	£104.99	£83.99
	0.3				SEMD9903003E	£51.73	£41.39	3					SEMD9910030E	£111.27	£89.02
	0.5				SEMD9903005E	£51.73	£41.39	4					SEMD9910040E	£118.12	£94.49
	1				SEMD9903010E	£51.73	£41.39	0.5	10	25	150		SEMD9910005150E	£126.02	£100.81
	0.1				SEMD99040014SE	£36.97	£29.58	1					SEMD9910010150E	£126.02	£100.81
	0.2				SEMD99040024SE	£36.97	£29.58	0.3					SEMD9912003080E	£107.22	£85.77
	0.3	4	10	70	SEMD99040034SE	£36.97	£29.58	0.5	12	30	80		SEMD9912005080E	£107.22	£85.77
	0.5				SEMD99040054SE	£36.97	£29.58	1					SEMD9912010080E	£107.22	£85.77
	1				SEMD99040104SE	£36.97	£29.58	0.1					SEMD9912001E	£140.87	£112.70
4	0.1				SEMD99040011004SE	£43.57	£34.86	0.2					SEMD9912002E	£140.87	£112.70
	0.2				SEMD99040021004SE	£43.57	£34.86	0.3					SEMD9912003E	£140.87	£112.70
	0.3	4	10	100	SEMD99040031004SE	£43.57	£34.86	0.5					SEMD9912005E	£140.87	£112.70
	0.5				SEMD99040051004SE	£43.57	£34.86	1					SEMD9912010E	£140.87	£112.70
	1				SEMD99040101004SE	£43.57	£34.86	1.5	12	30	110		SEMD9912015E	£151.62	£121.30
	0.1				SEMD9905001E	£57.04	£45.63	2					SEMD9912020E	£151.62	£121.30
	0.2				SEMD9905002E	£57.04	£45.63	2.5					SEMD9912025E	£151.62	£121.30
	0.3	6</													



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



General Purpose



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

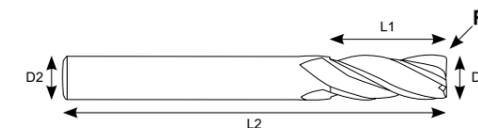
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	0.2	4	4	50	G9B84020	£15.11	£12.09
	0.3				G9B84901	£15.11	£12.09
	0.5				G9B84902	£15.11	£12.09
2.5	0.2	4	5	50	G9B84025	£15.11	£12.09
	0.3				G9B84903	£15.11	£12.09
	0.5				G9B84904	£15.11	£12.09
3	0.2	4	6	50	G9B84030	£15.11	£12.09
	0.3				G9B84905	£15.11	£12.09
	0.5				G9B84906	£15.11	£12.09
	1				G9B84907	£15.11	£12.09
	0.5				G9B85030	£17.03	£13.63
	1				G9B85901	£17.03	£13.63
4	0.2	4	8	50	G9B84040	£15.11	£12.09
	0.3				G9B84908	£15.11	£12.09
	0.5				G9B84909	£15.11	£12.09
	1				G9B84910	£15.11	£12.09
	0.5				G9B85040	£17.03	£13.63
	1				G9B85902	£17.03	£13.63
5	0.2	6	10	50	G9B84050	£22.40	£17.92
	0.3				G9B84911	£22.40	£17.92
	0.5				G9B84912	£22.40	£17.92
	1				G9B84913	£22.40	£17.92
	0.5				G9B85050	£24.67	£19.74
	1				G9B85903	£24.67	£19.74
6	0.2	6	12	50	G9B84060	£22.40	£17.92
	0.3				G9B84914	£22.40	£17.92
	0.5				G9B84915	£22.40	£17.92
	1				G9B84916	£22.40	£17.92
	0.5				G9B85060	£24.67	£19.74
	1				G9B85904	£24.67	£19.74
8	0.2	8	16	60	G9B84080	£27.33	£21.87
	0.3				G9B84917	£27.33	£21.87
	0.5				G9B84918	£28.66	£22.93
	1				G9B84919	£28.66	£22.93
	1.5				G9B84920	£28.66	£22.93
	2				G9B84920	£28.66	£22.93
10	0.2	10	20	75	G9B85080	£31.99	£25.59
	0.3				G9B85905	£31.99	£25.59
	0.5				G9B85906	£31.99	£25.59
	1				G9B85907	£31.99	£25.59
	1.5				G9B85908	£31.99	£25.59
	2				G9B85908	£31.99	£25.59
12	0.2	12	24	75	G9B84100	£41.64	£33.31
	0.3				G9B84921	£41.64	£33.31
	0.5				G9B84922	£43.66	£34.93
	1				G9B84923	£43.66	£34.93
	1.5				G9B84924	£43.66	£34.93
	2				G9B84924	£43.66	£34.93



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



High Performance



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

D1	R	D2	L1	L2	Order Code	List Price	Offer Price
1	0.05	6	2.5	50	SEME01010005E	£56.88	£45.50
	0.1				SEME01010010E	£56.88	£45.50
	0.2				SEME01010020E	£56.88	£45.50
1.5	0.05	6	4	50	SEME01010030E	£56.88	£45.50
	0.1				SEME01015005E	£56.88	£45.50
	0.2				SEME01015010E	£56.88	£45.50
2	0.05	6	6	50	SEME01015020E	£56.88	£45.50
	0.1				SEME01015030E	£56.88	£45.50
	0.2				SEME01015050E	£56.88	£45.50
2.5	0.1	6	7	60	SEME0102001E	£51.73	£41.39
	0.2				SEME0102002E	£51.73	£41.39
	0.3				SEME0102003E	£51.73	£41.39
3	0.1	6	8	60	SEME0102005E	£51.73	£41.39
	0.2				SEME0102005E	£51.73	£41.39
	0.3				SEME0102005E	£51.73	£41.39
4	0.1	4	10	70	SEME0103001E	£51.73	£41.39
	0.2				SEME0103002E	£51.73	£41.39
	0.3				SEME0103003E	£51.73	£41.39
4.5	0.1	6	11	80	SEME0103005E	£51.73	£41.39
	0.2				SEME0103010E	£51.73	£41.39
	0.3				SEME0103010E	£51.73	£41.39
5	0.1	6	13	90	SEME01040014SE	£36.97	£29.58
	0.2				SEME01040024SE	£36.97	£29.58
	0.3				SEME01040034SE	£36.97	£29.58
6	0.1	6	15	90	SEME01040054SE	£36.97	£29.58
	0.2				SEME01040104SE	£36.97	£29.58
	0.3				SEME01040104SE	£36.97	£29.58
12	0.1	12	30	80	SEME01040011004SE	£42.59	£34.07
	0.2				SEME01040021004SE	£42.59	£34.07
	0.3				SEME01040031004SE	£42.59	£34.07



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.

HSC & GENERAL MILLING

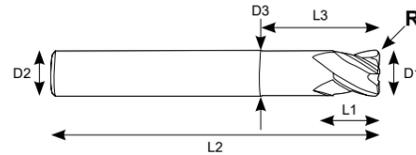
HSC & GENERAL MILLING

4G MILLS

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)



High Performance

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

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

D1	R	D2	L1	L2	L3	Order Code	List Price	Offer Price
1	0.1	4	1.5	50	4	SEME640100104E	£44.12	£35.29
						SEME640100108E	£44.12	£35.29
	0.2	4	1.5	50	8	SEME640100204E	£44.12	£35.29
						SEME640100208E	£44.12	£35.29
1.5	0.1	4	2.3	50	6	SEME640150106E	£44.12	£35.29
						SEME640150112E	£46.70	£37.36
	0.2	4	2.3	50	12	SEME640150206E	£44.12	£35.29
						SEME640150212E	£46.70	£37.36
2	0.1	4	3	50	6	SEME640200106E	£42.09	£33.67
						SEME640200112E	£42.09	£33.67
	0.2	4	3	50	12	SEME640200206E	£42.09	£33.67
						SEME640200212E	£42.09	£33.67
3	0.1	4	3	50	6	SEME6403000308E	£63.11	£50.49
						SEME6403000310E	£63.11	£50.49
	0.2	6	4.5	50	10	SEME640300210E	£63.11	£50.49
						SEME640300212E	£63.11	£50.49
10	0.1	6	4.5	50	10	SEME640300310E	£63.11	£50.49
						SEME640300312E	£63.11	£50.49
	0.3	6	4.5	60	12	SEME640300316E	£63.69	£50.95
						SEME640300508E	£63.11	£50.49
16	0.5	6	4.5	50	12	SEME640300512E	£63.11	£50.49
						SEME640300516E	£63.69	£50.95
	0.5	6	4.5	65	26	SEME640300526E	£63.69	£50.95
						SEME640301008E	£63.11	£50.49
1	6	4.5	50	12	SEME640301012E	£63.11	£50.49	
					SEME640301016E	£63.69	£50.95	

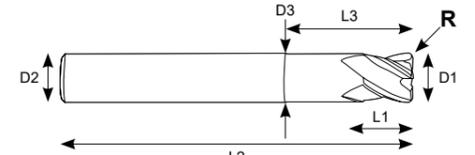
D1	R	D2	L1	L2	L3	Order Code	List Price	Offer Price
4	0.2	6	6	60	10	SEME640400210E	£65.56	£52.45
						SEME640400216E	£66.06	£52.85
	0.3	6	6	60	16	SEME640400312E	£65.56	£52.45
						SEME640400326E	£66.06	£52.85
6	0.3	6	6	50	10	SEME640400510E	£65.56	£52.45
						SEME640400516E	£66.06	£52.85
	0.5	6	6	60	20	SEME640400520E	£66.06	£52.85
						SEME640401010E	£65.56	£52.45
8	1	6	6	60	16	SEME640401016E	£66.06	£52.85
						SEME640401026E	£66.06	£52.85
	0.3	6	9	60	20	SEME6406003E	£63.65	£50.92
						SEME6406005E	£63.65	£50.92
10	0.5	6	9	60	20	SEME6406010E	£63.65	£50.92
						SEME6406010E	£63.65	£50.92
	1	6	9	90	30	SEME6406010090E	£81.43	£65.14
						SEME6408002E	£79.35	£63.48
12	0.2	8	12	70	25	SEME6408003E	£79.35	£63.48
						SEME6408005E	£79.35	£63.48
	0.5	8	12	70	25	SEME6408010E	£79.35	£63.48
						SEME6408015E	£84.88	£67.91
16	1.5	8	12	70	25	SEME6408020E	£84.88	£67.91
						SEME6410003E	£107.00	£85.60
	0.3	10	15	75	30	SEME6410005E	£107.00	£85.60
						SEME6410010E	£107.00	£85.60
20	1.5	10	15	75	30	SEME6410015E	£114.43	£91.54
						SEME6410020E	£114.43	£91.54
	0.3	12	18	80	32	SEME6412003E	£131.87	£105.50
						SEME6412005E	£131.87	£105.50
20	1	12	18	80	32	SEME6412010E	£131.87	£105.50
						SEME6412015E	£140.95	£112.76
	0.5	16	20	100	35	SEME6412020E	£140.95	£112.76
						SEME6416005E	£208.65	£166.92
20	1	16	20	100	35	SEME6416010E	£208.65	£166.92
						SEME6420005E	£346.34	£277.07
	0.5	20	35	100	40	SEME6420010E	£346.34	£277.07
						SEME6420005150E	£428.66	£342.93
1	20	35	150	55	SEME6420010150E	£428.66	£342.93	

X5070

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

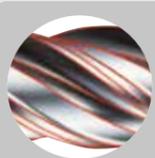


High Performance

Up to Ø6 Over Ø6 NG SC 4 30° ±0.010 ±0.015 PLAIN X5070 COATED HSC CORNER RADIUS

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

D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
1	0.1	3	-	1.5	40	-	G8A37010	£34.94	£29.70
	0.1	6	-	1.5	40	-	G8A37901	£51.22	£43.54
1.5	0.1	3	-	2.2	40	-	G8A37015	£32.48	£27.61
	0.1	6	-	2.2	40	-	G8A37902	£47.59	£40.45
2	0.1	3	1.95	3	40	6	G8A37020	£31.66	£26.91
	0.1	6	1.95	3	40	6	G8A37903	£45.27	£38.48
2.5	0.1	3	2.4	4	40	6	G8A37025	£31.66	£26.91
	0.1	6	2.4	4	40	6	G8A37904	£46.29	£39.34
3	0.1	4	45	7	45	7	G8A37030	£46.29	£39.34
	0.3	4	55	12	45	12	G8A47916	£46.29	£39.34
	0.3	4	55	16	45	16	G8A47917	£46.29	£39.34
	0.3	4	55	20	45	20	G8A47918	£46.29	£39.34
3.5	0.5	4	55	10	45	10	G8A47030	£46.29	£39.34
	0.5	4	55	16	45	16	G8A47901	£46.29	£39.34
	0.5	4	55	20	45	20	G8A47902	£46.29	£39.34
	0.5	4	55	20	45	20	G8A37035	£46.29	£39.34
4	0.1	5	45	9	45	9	G8A37040	£46.29	£39.34
	0.3	5	55	12	45	12	G8A47919	£46.29	£39.34
	0.3	5	55	16	45	16	G8A47920	£46.29	£39.34
	0.3	5	55	20	45	20	G8A47921	£46.29	£39.34
4.5	0.5	5	55	12	45	12	G8A47040	£46.29	£39.34
	0.5	5	55	16	45	16	G8A47903	£46.29	£39.34
	0.5	5	55	20	45	20	G8A47904	£46.29	£39.34
	1	5	55	12	45	12	G8A47922	£46.29	£39.34
5	0.1	6	4.35	6	45	10	G8A37045	£46.29	£39.34
	0.2	6	4.85	6	50	11	G8A37050	£46.29	£39.34
	0.2	7	50	14	50	14	G8A37060	£46.29	£39.34
	0.5	7	60	20	50	20	G8A47060	£46.29	£39.34
6	0.5	9	90	20	50	20	G8B0806005090	£54.50	£46.32
	1	7	60	20	50	20	G8A47905	£46.29	£39.34
	1	9	90	20	50	20	G8B0806010090	£54.50	£46.32
	1.5	7	60	20	50	20	G8A47906	£46.29	£39.34
8	0.2	9	60	18	60	18	G8A37080	£55.99	£47.59
	0.5	9	60	25	60	25	G8A47910	£55.99	£47.59
	0.5	9	60	25	60	25	G8B0808005100	£67.47	£57.35
	1	9	60	25	60	25	G8A47080	£55.99	£47.59
10	1	12	100	25	60	25	G8B0808010100	£67.47	£57.35
	1.5	9	60	25	60	25	G8A47907	£55.99	£47.59
	2	9	60	25	60	25	G8A47913	£55.99	£47.59
	2	12	75	25	60	25	G8A37100	£83.87	£71.29
12	0.5	11	70	32	70	32	G8A47911	£83.87	£71.29
	0.5	15	100	32	70	32	G8B0810005100	£93.55	£79.51
	1	11	70	32	70	32	G8A47100	£83.87	£71.29
	1	15	100	32	70	32	G8B0810010100	£93.55	£79.51
16	1.5	11	70	32	70	32	G8A47908	£83.87	£71.29
	2	11	70	32	70	32	G8A47914	£83.87	£71.29
	2	15	100	32	70	32	G8B0810020100	£93.55	£79.51
	0.3	15	75	30	70	30	G8A37120	£115.63	£98.29
20	0.5	18	110	38	80	38	G8A47912	£115.63	£98.29
	0.5	18	110	38	80	38	G8B0812005110	£152.96	£130.02
	1	12	80	38	80	38	G8A47120	£115.63	£98.29
	1	18	110	38	80	38	G8B0812010110	£152.96	£130.02
16	1.5	12	80	38	80	38	G8A47909	£115.63	£98.29
	2	12	80	38	80	38	G8A47915	£115.63	£98.29
	2	18	110	38	80	38	G8B0812020110	£152.96	£130.02
	0.3	16	15.7	18	90	38	G8A37160	£139.21	£118.33
0.3	20	19.7	24	100	45	G8A37200	£230.31	£195.76	



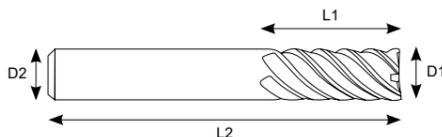
MULTIPLE HELIX DESIGN



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



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

General Purpose

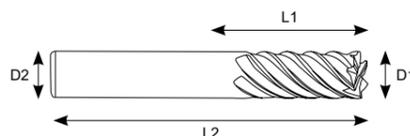
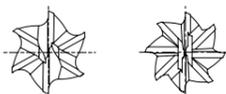
D1	D2	L1	L2	Order Code	List Price	Offer Price
5	6	13	50	G9F45050	£21.44	£17.15
6	6	16	50	G9F45060	£21.44	£17.15
8	8	19	60	G9F45080	£26.24	£20.99
10	10	22	75	G9F45100	£40.01	£32.01
12	12	26	75	G9F45120	£52.29	£41.83
12	12	50	100	G9F46120	£81.67	£65.33
14	14	30	90	G9F45140	£75.79	£60.63
16	16	32	100	G9F45160	£103.20	£82.56
16	16	65	150	G9F46160	£170.31	£136.25
18	18	38	100	G9F45180	£132.99	£106.39
20	20	38	100	G9F45200	£164.57	£131.66
20	20	75	150	G9F46200	£249.65	£199.72

TG JET-POWER

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



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

High Performance

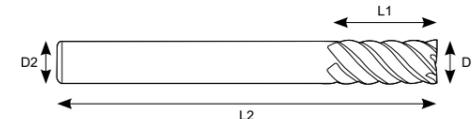
D1	D2	L1	L2	No. of Flutes	Order Code	List Price	Offer Price
6	6	13	57	6	EH915060	£37.63	£31.98
7	8	16	63		EH915070	£47.56	£40.42
8	8	19	63		EH915080	£47.56	£40.42
9	10	19	72		EH915090	£71.30	£60.61
10	10	22	72		EH915100	£71.30	£60.61
12	12	26	83		EH915120	£96.91	£82.37
14	14	26	83	EH915140	£121.24	£103.06	
16	16	32	92	EH915160	£163.00	£138.55	
18	18	32	92	EH915180	£190.62	£162.03	
20	20	38	104	8	EH915200	£239.52	£203.59
25	25	44	104		EH915250	£422.61	£359.22



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



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

High Performance

D1	D2	L1	L2	Order Code	List Price	Offer Price
6	6	15	60	SEME75060E	£44.71	£35.76
		20	70	SEME7506020E	£60.28	£48.22
		30	80	SEME7506030E	£73.46	£58.77
8	8	30	110	SEME7506030110E	£79.18	£63.35
		20	70	SEME75080E	£60.04	£48.03
		30	80	SEME7508030E	£76.37	£61.09
		35	90	SEME7508035E	£85.55	£68.44
		40	90	SEME7508040E	£91.41	£73.13
		40	130	SEME7508040130E	£102.45	£81.96
10	10	25	75	SEME75100E	£84.77	£67.81
		30	80	SEME7510030E	£97.72	£78.17
		40	90	SEME7510040E	£109.19	£87.35
		50	100	SEME7510050E	£125.64	£100.51
		50	150	SEME7510050150E	£150.66	£120.53
		30	80	SEME75120E	£103.92	£83.13
12	12	50	100	SEME7512050E	£145.22	£116.17
		60	110	SEME7512060E	£164.96	£131.97
		60	150	SEME7512060150E	£191.19	£152.95
		40	100	SEME75160E	£167.76	£134.21
16	16	50	110	SEME7516050E	£216.79	£173.43
		60	120	SEME7516060E	£226.27	£181.02
		90	150	SEME7516090E	£296.85	£237.48
		110	200	SEME75160110E	£383.74	£306.99
20	20	110	250	SEME75160110250E	£607.48	£485.98
		45	100	SEME75200E	£256.59	£205.28
		60	120	SEME7520060E	£355.67	£284.54
		70	130	SEME7520070E	£373.34	£298.67
		110	200	SEME75200110E	£576.13	£460.91
		110	250	SEME75200110250E	£698.97	£559.18
110	300	SEME75200110300E	£739.14	£591.31		

HSC & GENERAL MILLING

HSC & GENERAL MILLING

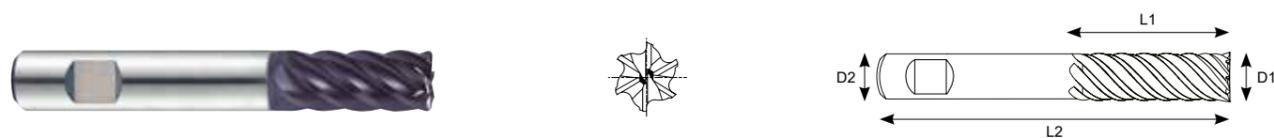


High Performance

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



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		List Price	Offer Price
				Plain Shank	Weldon Shank		
6	6	13	57	GMG12060	GMG13060	£25.06	£21.30
		24	75	GMG14060	GMG15060	£32.60	£27.71
8	8	19	63	GMG12080	GMG13080	£35.39	£30.08
		32	75	GMG14080	GMG15080	£47.85	£40.67
10	10	22	72	GMG12100	GMG13100	£56.63	£48.13
		40	100	GMG14100	GMG15100	£79.42	£67.50
12	12	26	83	GMG12120	GMG13120	£77.22	£65.64
		48	120	GMG14120	GMG15120	£111.94	£95.15
16	16	32	92	GMG12160	GMG13160	£130.75	£111.14
		64	140	GMG14160	GMG15160	£196.14	£166.72
20	20	38	104	GMG12200	GMG13200	£231.75	£196.99
		80	150	GMG14200	GMG15200	£370.82	£315.20
25	25	44	104	GMG12250	GMG13250	£326.16	£277.24
		100	170	GMG14250	GMG15250	£554.46	£471.29

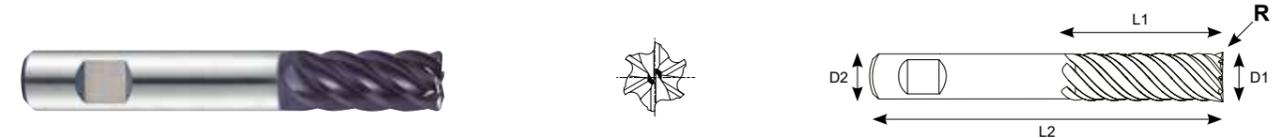


High Performance

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



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		List Price	Offer Price
					Plain Shank	Weldon Shank		
6	0.5	6	13	57	GMG16060	GMG17060	£30.15	£25.63
	1				GMG16901	GMG17901	£30.15	£25.63
	0.5				GMG18060	GMG19060	£39.24	£33.36
8	1	8	32	75	GMG18901	GMG19901	£39.24	£33.36
	0.5				GMG18080	GMG19080	£56.63	£48.13
	2				GMG18902	GMG19902	£56.63	£48.13
10	0.5	10	40	100	GMG18903	GMG19903	£56.63	£48.13
	1				GMG16080	GMG17080	£41.90	£35.62
	1.5				GMG16902	GMG17902	£41.90	£35.62
12	2	12	26	83	GMG18100	GMG19100	£92.76	£78.84
	0.5				GMG18904	GMG19904	£92.76	£78.84
	1.5				GMG18905	GMG19905	£92.76	£78.84
16	2	16	32	92	GMG18906	GMG19906	£92.76	£78.84
	0.5				GMG16100	GMG17100	£66.15	£56.23
	1				GMG16903	GMG17903	£66.15	£56.23
20	1.5	20	38	104	GMG16904	GMG17904	£66.15	£56.23
	2				GMG16905	GMG17905	£66.15	£56.23
	0.5				GMG16120	GMG17120	£90.10	£76.59
25	1	25	44	104	GMG16906	GMG17906	£90.10	£76.59
	1.5				GMG16907	GMG17907	£90.10	£76.59
	2				GMG16908	GMG17908	£90.10	£76.59
12	3	12	48	120	GMG16909	GMG17909	£90.10	£76.59
	0.5				GMG18120	GMG19120	£130.73	£111.12
	1				GMG18907	GMG19907	£130.73	£111.12
16	1.5	16	64	140	GMG18908	GMG19908	£130.73	£111.12
	2				GMG18909	GMG19909	£130.73	£111.12
	3				GMG18910	GMG19910	£130.73	£111.12
20	1	20	80	150	GMG16160	GMG17160	£148.72	£126.41
	1.5				GMG16910	GMG17910	£148.72	£126.41
	2				GMG16911	GMG17911	£148.72	£126.41
25	3	25	104	170	GMG16912	GMG17912	£148.72	£126.41
	0.5				GMG18160	GMG19160	£223.05	£189.59
	1.5				GMG18911	GMG19911	£223.05	£189.59
10	2	10	40	100	GMG18912	GMG19912	£223.05	£189.59
	3				GMG18913	GMG19913	£223.05	£189.59
	0.5				GMG16200	GMG17200	£266.92	£226.88
12	1.5	12	26	83	GMG16913	GMG17913	£266.92	£226.88
	2				GMG16914	GMG17914	£266.92	£226.88
	3				GMG16915	GMG17915	£266.92	£226.88
16	1	16	32	92	GMG18200	GMG19200	£427.10	£363.03
	1.5				GMG18914	GMG19914	£427.10	£363.03
	2				GMG18915	GMG19915	£427.10	£363.03
20	3	20	40	100	GMG18916	GMG19916	£427.10	£363.03
	4				GMG18917	GMG19917	£427.10	£363.03
	5				GMG18918	GMG19918	£427.10	£363.03
25	1	25	44	104	GMG16250	GMG17250	£375.64	£319.30
	1.5				GMG16916	GMG17916	£375.64	£319.30
	2				GMG16917	GMG17917	£375.64	£319.30
10	3	10	40	100	GMG16918	GMG17918	£375.64	£319.30

HSC & GENERAL MILLING

HSC & GENERAL MILLING

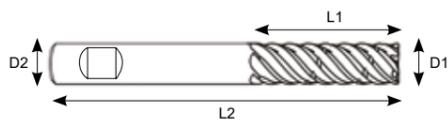


High Performance

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



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	List Price	Offer Price
				Plain Shank		
				Weldon Shank		
6	6	24	75	GMH56060	£35.86	£30.48
8	8	32	75	GMH56080	£52.64	£44.74
10	10	40	100	GMH56100	£87.36	£74.26
12	12	48	120	GMH56120	£123.14	£104.67
16	16	64	140	GMH56160	£215.76	£183.40
20	20	80	150	GMH56200	£407.90	£346.72
25	25	100	170	GMH56250	£609.92	£518.43

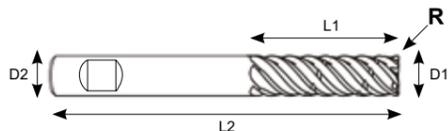


High Performance

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



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	List Price	Offer Price
					Plain Shank		
					Weldon Shank		
6	0.5	6	24	75	GMH58060	£43.17	£36.70
	1				GMH58901	£43.17	£36.70
8	0.5	8	32	75	GMH58080	£62.29	£52.94
	1				GMH58902	£62.29	£52.94
	2				GMH58903	£62.29	£52.94
10	0.5	10	40	100	GMH58100	£102.04	£86.73
	1				GMH58904	£102.04	£86.73
	1.5				GMH58905	£102.04	£86.73
	2				GMH58906	£102.04	£86.73
12	0.5	12	48	120	GMH58120	£143.80	£122.23
	1				GMH58907	£143.80	£122.23
	1.5				GMH58908	£143.80	£122.23
	2				GMH58909	£143.80	£122.23
	3				GMH58910	£143.80	£122.23
16	1	16	64	140	GMH58160	£245.36	£208.56
	1.5				GMH58911	£245.36	£208.56
	2				GMH58912	£245.36	£208.56
	3				GMH58913	£245.36	£208.56
20	1	20	80	150	GMH58200	£469.80	£399.33
	1.5				GMH58914	£469.80	£399.33
	2				GMH58915	£469.80	£399.33

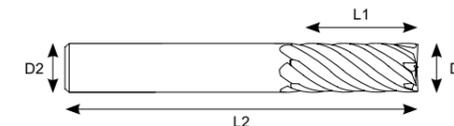
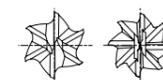


High Performance

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



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

D1	D2	L1	L2	No. of Flutes	Order Code	List Price	Offer Price
6	6	13	57	6	G8D63060	£52.07	£44.26
		26	70		G8D64060	£68.19	£57.96
8	8	19	63		G8D63080	£65.43	£55.61
		36	90		G8D64080	£88.88	£75.55
10	10	22	72	6	G8D63100	£98.87	£84.04
		46	100		G8D64100	£139.40	£118.49
12	12	26	83		G8D63120	£135.01	£114.76
		56	110		G8D64120	£196.61	£167.12
14	14	26	83	8	G8D63140	£169.21	£143.83
16	16	32	92		G8D63160	£228.21	£193.98
18	18	32	92		G8D64160	£343.30	£291.81
20	20	38	104		G8D63180	£266.72	£226.71
		76	140	G8D63200	£334.12	£284.00	
		44	104	G8D64200	£536.82	£456.30	
25	25	44	104	8	G8D63250	£593.08	£504.12
		92	180		G8D64250	£1,007.39	£856.28

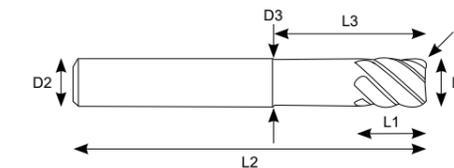
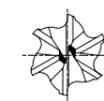


High Performance

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



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

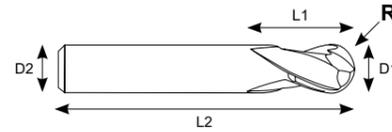
D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
6	0.25	6	5.85	6	50	14	G8A39916	£66.51	£56.53
	0.5			6	50	14	G8A39060	£66.51	£56.53
	0.5			13	70	-	G8A39901	£75.50	£64.18
	0.5			26	70	-	G8A39910	£91.05	£77.39
8	0.5	8	7.7	8	60	24	G8A39080	£75.61	£64.27
				19	90	-	G8A39902	£90.34	£76.79
				36	90	-	G8A39911	£112.15	£95.33
10	0.5	10	-	22	100	-	G8A39903	£133.41	£113.40
	1			10	70	30	G8A39100	£115.69	£98.33
	1			22	100	-	G8A39904	£133.41	£113.40
	1			46	100	-	G8A39912	£177.26	£150.67
	0.5			26	110	-	G8A39905	£182.12	£154.80
12	1	12	11.7	12	75	30	G8A39120	£138.17	£117.45
	1			26	110	-	G8A39906	£182.12	£154.80
	1			56	110	-	G8A39913	£246.12	£209.20
	1			32	130	-	G8A39160	£307.29	£261.20
16	1.5	16	-	32	130	-	G8A39907	£335.65	£285.30
	1.5			66	130	-	G8A39914	£431.28	£366.59
	1			38	140	-	G8A39200	£449.91	£382.42
20	1.5	20	-	38	140	-	G8A39908	£491.53	£417.80
	2			38	140	-	G8A39909	£491.53	£417.80
	2			76	140	-	G8A39915	£672.83	£571.91



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



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



General Purpose

D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	1	6	4	48	G9624020	£15.78	£12.62
		6	4	48	G9624030	£15.78	£12.62
3	1.5	3	20	60	G9455903	£23.50	£18.80
		3	5	75	G9454030	£21.17	£16.94
		6	6	50	G9624040	£16.50	£13.20
4	2	4	20	60	G9455904	£24.60	£19.68
		4	8	75	G9454040	£21.17	£16.94
		6	7	51	G9624050	£17.12	£13.70
5	2.5	5	25	75	G9455905	£30.52	£24.42
		5	9	75	G9454050	£23.07	£18.45
		6	7	51	G9624060	£18.61	£14.88
6	3	6	30	75	G9455906	£32.99	£26.39
		6	10	100	G9454060	£26.24	£20.99
		8	9	59	G9624080	£28.85	£23.08
8	4	8	30	75	G9455908	£48.43	£38.74
		8	12	100	G9454080	£39.57	£31.65
		10	10	60	G9624100	£46.09	£36.87
10	5	10	40	100	G9455910	£67.81	£54.25
		10	14	100	G9454100	£66.87	£53.49
		12	14	71	G9624120	£59.10	£47.28
12	6	12	45	100	G9455912	£101.25	£81.00
		12	16	100	G9454120	£85.50	£68.40
		14	14	71	G9624140	£69.57	£55.66
14	7	14	45	100	G9455914	£129.71	£103.77
		14	18	100	G9454140	£108.01	£86.40
		16	16	76	G9624160	£93.17	£74.54
16	8	16	45	100	G9455916	£171.26	£137.01
		16	22	150	G9454160	£147.56	£118.05
		18	18	76	G9624180	£101.22	£80.97
18	9	18	45	100	G9455918	£193.01	£154.41
		20	20	82	G9624200	£143.44	£114.75
		20	45	100	G9455920	£228.95	£183.16
20	10	20	26	150	G9454200	£226.84	£181.47



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



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

High Performance

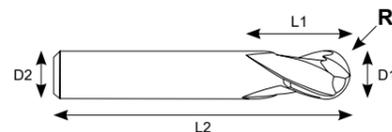
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
0.1	0.05	4	0.1	40	SEMD98001SE	£81.76	£65.41
		4	0.2	40	SEMD98001E	£89.12	£71.30
		3	0.2	40	SEMD980013SE	£86.60	£69.28
		4	0.15	40	SEMD980015SE	£57.37	£45.90
0.15	0.075	4	0.3	40	SEMD980015E	£62.43	£49.94
		3	0.3	40	SEMD9800153SE	£60.64	£48.51
		4	0.2	40	SEMD98002SE	£63.61	£50.89
0.2	0.1	4	0.4	40	SEMD98002E	£69.22	£55.37
		3	0.4	40	SEMD980023SE	£67.18	£53.75
		4	0.3	40	SEMD98003SE	£53.51	£42.80
0.3	0.15	4	0.6	40	SEMD98003E	£58.12	£46.50
		3	0.6	40	SEMD980033SE	£56.42	£45.14
		4	0.4	40	SEMD98004SE	£44.96	£35.97
0.4	0.2	4	0.8	40	SEMD98004E	£48.74	£38.99
		3	0.8	40	SEMD980043SE	£47.37	£37.90
		4	0.5	40	SEMD98005SE	£41.93	£33.54
0.5	0.25	4	1.0	40	SEMD98005E	£45.40	£36.32
		3	1.0	40	SEMD980053SE	£44.18	£35.34
		4	0.6	40	SEMD98006SE	£41.93	£33.54
0.6	0.3	4	1.2	40	SEMD98006E	£45.40	£36.32
		3	1.2	40	SEMD980063SE	£44.18	£35.34
		4	0.7	40	SEMD98007SE	£39.63	£31.71
0.7	0.35	4	1.4	40	SEMD98007E	£42.83	£34.27
		3	1.4	40	SEMD980073SE	£41.64	£33.31
		4	0.8	40	SEMD98008SE	£36.97	£29.58
0.8	0.4	4	1.6	40	SEMD98008E	£39.85	£31.88
		3	1.6	40	SEMD980083SE	£38.77	£31.01
		4	0.9	40	SEMD98009SE	£36.97	£29.58
0.9	0.45	4	1.8	40	SEMD98009E	£39.85	£31.88
		3	1.8	40	SEMD980093SE	£38.77	£31.01
		6	1.5	40	SEMD98010040E	£41.56	£33.24
		3	2.5	50	SEMD980103SE	£37.55	£30.04
1	0.5	4	2.5	50	SEMD980104SE	£39.22	£31.38
		6	2.5	50	SEMD98010E	£41.56	£33.24
		6	2.5	70	SEMD98010070E	£48.66	£38.92
		6	2.5	100	SEMD98010100E	£60.92	£48.73
		6	2	40	SEMD98012040E	£41.56	£33.24
1.2	0.6	3	3	50	SEMD980123SE	£37.55	£30.04
		6	3	70	SEMD98012070E	£48.66	£38.92
		6	3	100	SEMD98012100E	£60.92	£48.73
		6	2.5	40	SEMD98015040E	£41.56	£33.24
1.5	0.75	3	4	50	SEMD980153SE	£37.55	£30.04
		6	4	50	SEMD98015E	£41.56	£33.24
		6	4	70	SEMD98015070E	£48.66	£38.92
		6	4	100	SEMD98015100E	£60.92	£48.73
		6	3	40	SEMD98020040E	£40.68	£32.54
		3	5	50	SEMD980203SE	£36.76	£29.41
2	1	6	5	50	SEMD98020E	£40.68	£32.54
		6	5	80	SEMD98020080E	£45.74	£36.60
		6	5	100	SEMD98020100E	£59.57	£47.66
		6	4	40	SEMD98025040E	£40.68	£32.54
		3	6	60	SEMD980253SE	£39.04	£31.23
2.5	1.25	6	6	60	SEMD98025E	£40.68	£32.54
		6	6	80	SEMD98025080E	£45.74	£36.60
		6	6	100	SEMD98025100E	£59.57	£47.66
		6	4.5	40	SEMD98030040E	£40.68	£32.54
		3	6	60	SEMD980303SE	£37.98	£30.38
3	1.5	4	6	60	SEMD980304SE	£39.22	£31.38
		6	6	60	SEMD98030E	£40.68	£32.54
		6	6	80	SEMD98030080E	£45.74	£36.60
		6	6	100	SEMD98030100E	£59.57	£47.66



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



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



High Performance

D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	1	6	4.5	38	GMK57020	£14.29	£12.14
3	1.5	6	5.5	38	GMK57030	£14.29	£12.14
4	2	6	7.5	43	GMK57040	£14.29	£12.14
5	2.5	6	9	43	GMK57050	£14.29	£12.14
6	3	6	9	43	GMK57060	£14.29	£12.14
8	4	8	12	50	GMK57080	£20.83	£17.71
10	5	10	14	55	GMK57100	£31.22	£26.54
12	6	12	16.5	60	GMK57120	£41.35	£35.14

HSC & GENERAL MILLING

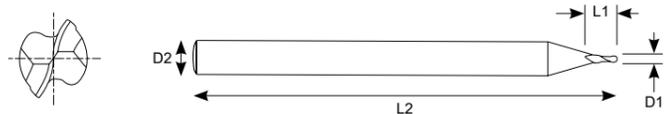


IG X5070

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



High Performance

NG SC 2 30° ±0.005 ±0.010 PLAIN X5070 COATED HSC

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

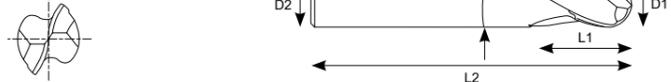
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
0.4	0.2		0.4		G8A53004	£71.53	£60.80
0.5	0.25		0.5		G8A53005	£69.04	£58.68
0.6	0.3		0.6		G8A53006	£63.03	£53.57
0.8	0.4	6	0.8	50	G8A53008	£51.60	£43.86
1	0.5		1.0		G8A53010	£48.65	£41.35
1.2	0.6		1.2		G8A53012	£48.65	£41.35
1.5	0.75		1.5		G8A53015	£48.65	£41.35
2	1.0		2.0		G8A53020	£43.93	£37.34

IG X5070

2 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



High Performance

NG SC 2 30° ±0.005 ±0.010 PLAIN X5070 COATED HSC

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

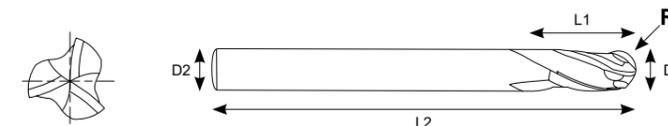
D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price	D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
0.1	0.05	4	-	0.2	40	-	G8A28001	£84.97	£72.23	5	2.5	6	4.85	5	80	10	G8A38050	£58.97	£50.12
0.2	0.1	4	-	0.3	40	-	G8A28002	£70.31	£59.76	5	2.5	6	4.85	6	60	12	G8A28050	£58.97	£50.12
0.3	0.15	4	-	0.5	40	-	G8A28003	£62.68	£53.28	5.5	2.75	6	5.35	6.5	60	12	G8A28055	£58.97	£50.12
0.4	0.2	4	-	0.6	40	-	G8A28004	£58.55	£49.77	6	3	6	5.85	6	90	12	G8A38060	£63.25	£53.76
0.5	0.25	4	-	0.7	40	-	G8A28005	£54.57	£46.39	6	3	6	5.85	7	60	15	G8A28060	£58.97	£50.12
0.6	0.3	4	-	0.9	40	-	G8A28006	£49.12	£41.75	6	3	6	5.85	9	90	30	G8A28903	£72.93	£61.99
0.7	0.35	4	-	1.1	40	-	G8A28007	£49.12	£41.75	7	3.5	8	6.7	7	90	14	G8A38070	£95.39	£81.08
0.8	0.4	4	-	1.2	40	-	G8A28008	£48.08	£40.87	8	4	8	7.7	8	100	16	G8A38080	£94.39	£80.23
0.9	0.45	4	-	1.4	40	-	G8A28009	£48.08	£40.87	8	4	8	7.7	9	60	15	G8A28901	£92.83	£78.91
1	0.5	4	0.95	1	50	2.2	G8A38010	£53.72	£45.66	8	4	8	7.7	9	80	15	G8A28080	£94.42	£80.26
1	0.5	6	0.95	1.5	50	3	G8A28010	£47.02	£39.97	8	4	8	7.7	12	100	30	G8A28904	£108.83	£92.51
1.2	0.6	4	1.15	1.2	50	2.6	G8A38012	£53.72	£45.66	9	4.5	10	8.7	9	100	18	G8A38090	£152.68	£129.78
1.5	0.75	4	1.45	1.5	50	3	G8A38015	£53.72	£45.66	10	5	10	9.7	10	100	20	G8A38100	£152.68	£129.78
1.5	0.75	6	1.45	2	50	4	G8A28015	£54.79	£46.57	10	5	10	9.7	11	60	25	G8A28902	£155.91	£132.52
2	1	6	1.95	2	50	4	G8A38020	£54.79	£46.57	10	5	10	9.7	11	80	25	G8A28100	£155.91	£132.52
2	1	6	1.95	2.5	50	5	G8A28020	£50.97	£43.33	10	5	10	9.7	15	100	30	G8A28905	£177.41	£150.80
2.5	1.25	6	2.4	3	50	7	G8A28025	£54.79	£46.57	12	6	12	11.7	12	110	24	G8A38120	£196.00	£166.60
3	1.5	6	2.85	3	60	6	G8A38030	£54.79	£46.57	12	6	12	11.7	14	80	25	G8A28120	£191.25	£162.56
3	1.5	6	2.85	4	60	10	G8A28030	£54.79	£46.57	14	7	14	13.7	14	110	28	G8A38140	£247.95	£210.75
3.5	1.75	6	3.35	4.5	60	10	G8A28035	£54.79	£46.57	16	8	16	15.7	16	140	32	G8A38160	£327.41	£278.30
4	2	6	3.85	4	70	8	G8A38040	£57.20	£48.62	18	9	18	17.7	18	140	36	G8A38180	£353.49	£300.47
4	2	6	3.85	5	60	10	G8A28040	£54.79	£46.57	20	10	20	19.7	20	160	40	G8A38200	£501.19	£426.01
4.5	2.25	6	4.35	5.5	60	10	G8A28045	£58.97	£50.12	25	12.5	25	24.7	25	180	50	G8A38250	£812.56	£690.67

IG X5070

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



High Performance

NG SC 3 30° ±0.005 ±0.010 PLAIN X5070 COATED HSC

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

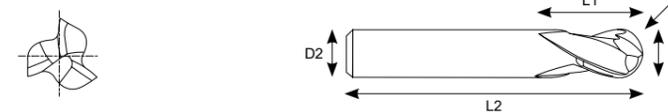
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
3	1.5	6	8	60	G8A59030	£61.63	£52.38
4	2	6	8	70	G8A59040	£64.53	£54.85
5	2.5	6	10	80	G8A59050	£67.75	£57.59
6	3	6	12	90	G8A59060	£70.82	£60.20
8	4	8	14	100	G8A59080	£110.93	£94.29
10	5	10	18	100	G8A59100	£184.73	£157.02
12	6	12	22	110	G8A59120	£237.65	£202.00
16	8	16	30	140	G8A59160	£397.19	£337.61
20	10	20	38	160	G8A59200	£609.01	£517.66

IG EV MILLS

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



High Performance

MG SC 3 43°/45°/47° ±0.020 PLAIN Y Coating

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

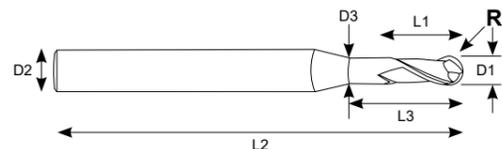
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	1	6	4.5	38	GMK62020	£14.29	£12.14
3	1.5	6	5.5	38	GMK62030	£15.87	£13.49
4	2	6	7.5	38	GMK62040	£15.87	£13.49
5	2.5	6	9	38	GMK62050	£15.87	£13.49
6	3	6	9	38	GMK62060	£15.87	£13.49
8	4	8	12	43	GMK62080	£23.14	£19.67
10	5	10	14	50	GMK62100	£34.70	£29.49
12	6	12	16.5	55	GMK62120	£45.95	£39.06



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



General Purpose



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

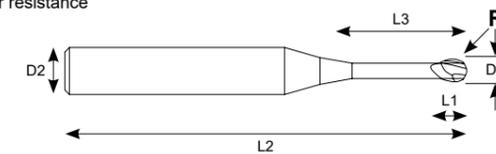
D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
0.4	0.2	4	0.37	0.7	50	2	G9B81004	£46.57	£37.25
						4	G9B81005	£40.35	£32.28
						6	G9B81901	£40.35	£32.28
0.5	0.25	4	0.45	0.75	50	2	G9B81006	£40.35	£32.28
						4	G9B81902	£46.57	£37.25
						6	G9B81006	£40.35	£32.28
0.6	0.3	4	0.55	0.9	50	2	G9B81903	£40.35	£32.28
						4	G9B81904	£40.35	£32.28
						6	G9B81008	£31.23	£24.98
0.8	0.4	4	0.75	1.2	50	2	G9B81905	£31.23	£24.98
						4	G9B81906	£31.23	£24.98
						6	G9B81010	£28.75	£23.00
1	0.5	4	0.95	1.5	50	2	G9B81907	£28.75	£23.00
						4	G9B81908	£28.75	£23.00
						6	G9B81909	£30.67	£24.54
1.2	0.6	4	1.15	1.8	50	2	G9B81012	£28.75	£23.00
						4	G9B81910	£30.67	£24.54
						6	G9B81015	£28.75	£23.00
1.5	0.75	4	1.45	2.3	50	2	G9B81911	£28.75	£23.00
						4	G9B81912	£28.75	£23.00
						6	G9B81913	£30.67	£24.54
1.6	0.8	4	1.55	2.4	50	2	G9B81914	£32.43	£25.95
						4	G9B81915	£32.43	£25.95
						6	G9B81016	£28.75	£23.00
2	1	4	1.95	3	50	2	G9B81916	£30.67	£24.54
						4	G9B81917	£32.43	£25.95
						6	G9B81020	£26.86	£21.49
3	1.5	6	2.85	4.5	50	2	G9B81919	£26.86	£21.49
						4	G9B81920	£26.86	£21.49
						6	G9B81922	£28.50	£22.80
4	2	6	3.85	6	50	2	G9B81923	£29.73	£23.78
						4	G9B81030	£32.36	£25.89
						6	G9B81924	£32.36	£25.89
5	2	6	3.85	6	50	2	G9B81925	£39.16	£31.33
						4	G9B81926	£42.05	£33.64
						6	G9B81927	£43.58	£34.87
6	2	6	3.85	6	50	2	G9B81040	£31.33	£25.06
						4	G9B81928	£39.16	£31.33
						6	G9B81929	£43.58	£34.87
7	2	6	3.85	6	50	2	G9B81930	£43.58	£34.87
						4	G9B81931	£45.21	£36.17
						6	G9B81931	£45.21	£36.17



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



High Performance



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

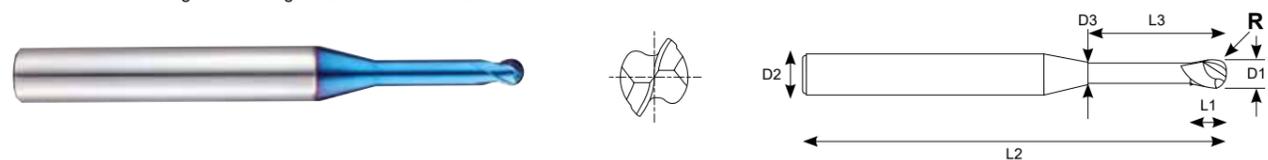
D1	R	D2	L1	L2	L3	Order Code	List Price	Offer Price
0.1	0.05	4	0.1	40	0.2	SEM846001002E	£125.44	£100.35
					0.3	SEM846001003E	£125.44	£100.35
					0.5	SEM846001005E	£125.44	£100.35
0.2	0.1	4	0.2	40	1	SEM84600101E	£125.44	£100.35
					0.5	SEM846002005E	£97.27	£77.81
					1	SEM84600201E	£97.27	£77.81
0.3	0.15	4	0.3	40	1.5	SEM846002015E	£97.27	£77.81
					2	SEM84600202E	£111.89	£89.51
					3	SEM84600203E	£111.89	£89.51
0.4	0.2	4	0.4	40	1	SEM84600301E	£82.06	£65.65
					2	SEM84600302E	£82.06	£65.65
					3	SEM84600303E	£82.06	£65.65
0.5	0.25	4	0.5	45	1	SEM84600305E	£82.06	£65.65
					1	SEM84600401E	£61.28	£49.02
					3	SEM84600403E	£70.38	£56.31
0.6	0.3	4	0.6	45	5	SEM84600405E	£70.38	£56.31
					8	SEM84600408E	£80.98	£64.79
					10	SEM84600410E	£105.25	£84.20
0.7	0.35	4	0.7	45	1	SEM84600501E	£61.99	£49.59
					3	SEM84600503E	£61.99	£49.59
					5	SEM84600505E	£61.99	£49.59
0.8	0.4	4	0.8	45	8	SEM84600508E	£71.04	£56.84
					12	SEM84600512E	£98.23	£78.58
					16	SEM84600516E	£104.99	£83.99
0.9	0.45	4	0.9	45	1	SEM84600601E	£61.99	£49.59
					3	SEM84600603E	£61.99	£49.59
					5	SEM84600605E	£61.99	£49.59
1	0.5	4	1	50	8	SEM84600608E	£71.04	£56.84
					12	SEM84600612E	£98.23	£78.58
					16	SEM84600616E	£104.99	£83.99
1.2	0.6	4	1.2	50	2	SEM84600702E	£61.99	£49.59
					6	SEM84600706E	£61.99	£49.59
					10	SEM84600710E	£92.37	£73.89
1.4	0.7	4	1.4	50	12	SEM84600712E	£98.23	£78.58
					4	SEM84600904E	£48.56	£38.85
					6	SEM84600906E	£48.56	£38.85
1.5	0.75	4	1.5	50	8	SEM84600908E	£48.56	£38.85
					10	SEM84600910E	£62.61	£50.09
					50	SEM84601002E	£44.92	£35.93
1.6	0.8	4	1.6	50	50	SEM84601004E	£44.92	£35.93
					50	SEM84601008E	£44.92	£35.93
					50	SEM84601010E	£44.92	£35.93
1.8	0.9	4	1.8	50	50	SEM84601014E	£47.65	£38.12
					50	SEM84601020E	£52.35	£41.88
					60	SEM84601022E	£57.71	£46.17
2	1	4	2	50	60	SEM84601026E	£62.57	£50.06
					70	SEM84601030E	£69.22	£55.37
					100	SEM84601050E	£85.80	£68.64
2.5	1.25	4	2.5	50	4	SEM84601204E	£44.92	£35.93
					8	SEM84601208E	£44.92	£35.93
					12	SEM84601212E	£47.65	£38.12
3	1.5	6	3	50	16	SEM84601216E	£50.35	£40.28
					20	SEM84601220E	£52.35	£41.88
					6	SEM84601406E	£44.92	£35.93
3.5	1.75	6	3.5	50	10	SEM84601410E	£44.92	£35.93
					16	SEM84601416E	£50.35	£40.28
					50	SEM84601503E	£44.92	£35.93
4	2	6	4	50	50	SEM84601504E	£44.92	£35.93
					50	SEM84601506E	£44.92	£35.93
					50	SEM84601508E	£44.92	£35.93
4.5	2.25	6	4.5	50	50	SEM84601512E	£47.65	£38.12
					50	SEM84601516E	£50.35	£40.28
					50	SEM84601520E	£52.35	£41.88
5	2.5	6	5	50	70	SEM84601530E	£69.22	£55.37
					80	SEM84601540E	£77.85	£62.28
					4	SEM84601604E	£44.92	£35.93
6	3	6	6	50	8	SEM84601608E	£44.92	£35.93
					12	SEM84601612E	£47.65	£38.12
					20	SEM84601620E	£52.35	£41.88
8	4	8	8	50	6	SEM84601804E	£44.92	£35.93
					8	SEM84601808E	£44.92	£35.93
					12	SEM84601812E	£47.65	£38.12
10	5	10	10	50	20	SEM84601820E	£52.35	£41.88
					4	SEM84601804E	£44.92	£35.93
					8	SEM84601808E	£44.92	£35.93
12	6	12	12	50	12	SEM84601820E	£52.35	£41.88
					50	SEM84602004E	£42.09	£33.67
					8	SEM84602008E	£42.09	£33.67
14	7	14	14	50	50	SEM84602012E	£42.09	£33.67
					50	SEM84602016E	£44.37	£35.50
					50	SEM84602020E	£47.65	£38.12
16	8	16	16	50	50	SEM84602030E	£54.64	£43.71
					70	SEM84602035E	£54.64	£43.71
					80	SEM84602040E	£61.83	£49.47
18	9	18	18	50	110	SEM84602060E	£84.72	£67.77
					50	SEM84602508E	£42.09	£33.67
					50	SEM84602512E	£42.09	£33.67
20	10	20	20	50	50	SEM84602520E	£47.65	£38.12
					70	SEM84602530E	£54.64	£43.71
					70	SEM84602535E	£54.64	£43.71
25	12.5	25	25	50	80	SEM84602540E	£61.83	£49.47
					100	SEM84602550E	£73.58	£58.86
					50	SEM84603006E	£51.43	£41.14
3	1.5	6	3	50	50	SEM84603008E	£51.43	£41.14
					50	SEM84603012E	£51.43	£41.14
					60	SEM84603014E	£62.16	£49.73
4	2	6	4	50	60	SEM84603020E	£66.59	£53.28
					65	SEM84603022E	£67.07	£53.65
					65	SEM84603026E	£67.07	£53.65
5	2.5	6	5	50	80	SEM84603040E	£89.54	£71.63
					90	SEM84603045E	£97.18	£77.74
					100	SEM84603050E	£105.49	£84.3

IG X5070

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



High Performance



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	List Price	Offer Price
0.1	0.05	4	0.085	0.1	45	0.3	G8A46805	£81.29	£69.10
						0.5	G8A46806	£81.29	£69.10
0.2	0.1	4	0.17	0.2	45	0.5	G8A46002	£67.75	£57.59
						1	G8A46977	£67.75	£57.59
						1.5	G8A46958	£67.75	£57.59
0.3	0.15	4	0.27	0.3	45	1	G8A46003	£59.41	£50.50
						2	G8A46959	£59.41	£50.50
						3	G8A46986	£59.41	£50.50
0.4	0.2	4	0.37	0.4	45	1	G8A46004	£58.55	£49.77
						2	G8A46960	£62.71	£53.30
						3	G8A46961	£62.71	£53.30
						4	G8A46981	£62.71	£53.30
						5	G8A46987	£62.71	£53.30
0.5	0.25	4	0.45	0.4	45	2	G8A46005	£58.55	£49.77
						2.5	G8A46804	£58.55	£49.77
						4	G8A46962	£58.55	£49.77
						6	G8A46963	£62.71	£53.30
						8	G8A46964	£62.71	£53.30
						1.5	G8A54005	£71.50	£60.78
						3.3	G8A54901	£71.50	£60.78
						2	G8A46957	£44.48	£37.81
						3	G8A46988	£44.48	£37.81
						4	G8A46915	£46.48	£39.51
0.6	0.3	4	0.55	0.5	45	5	G8A46989	£46.48	£39.51
						6	G8A46916	£46.48	£39.51
						8	G8A46917	£61.63	£52.38
						10	G8A46990	£61.63	£52.38
						2	G8A54006	£63.03	£53.57
						4	G8A54902	£63.03	£53.57
						2	G8A46918	£46.48	£39.51
						4	G8A46919	£46.48	£39.51
						6	G8A46008	£46.48	£39.51
						8	G8A46901	£46.48	£39.51
0.8	0.4	4	0.75	0.6	45	10	G8A46965	£48.90	£41.57
						2.5	G8A54008	£52.13	£44.31
						5.5	G8A54903	£52.13	£44.31
						3	G8A46920	£41.92	£35.63
						5	G8A46923	£41.92	£35.63
						6	G8A46010	£41.92	£35.63
						8	G8A46902	£44.48	£37.81
						10	G8A46903	£44.48	£37.81
1	0.5	4	0.95	0.8	45	12	G8A46904	£44.48	£37.81
						14	G8A46926	£52.58	£44.69

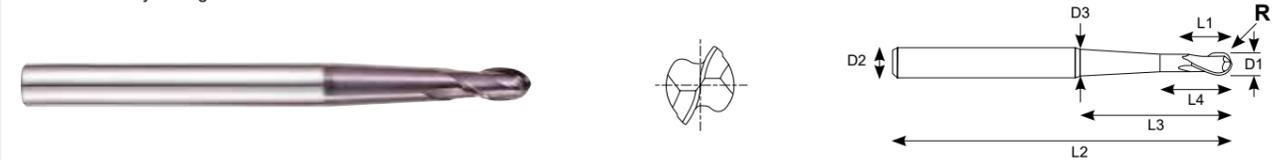
D1	R	D2	D3	L1	L2	L3	Order Code	List Price	Offer Price
1	0.5	4	0.95	1	50	16	G8A46927	£52.58	£44.69
						20	G8A46966	£59.45	£50.53
						3.3	G8A54010	£59.48	£50.56
						6.7	G8A54904	£59.48	£50.56
1.2	0.6	4	1.15	1	50	12	G8A54905	£63.51	£53.98
						6	G8A46982	£49.35	£41.95
						8	G8A46012	£49.35	£41.95
						10	G8A46983	£49.35	£41.95
1.5	0.75	4	1.45	1	45	12	G8A46905	£52.58	£44.69
						12	G8A46905	£52.58	£44.69
						4.4	G8A54012	£59.48	£50.56
						8	G8A54906	£63.51	£53.98
						6	G8A46930	£44.48	£37.81
						8	G8A46015	£44.48	£37.81
						10	G8A46931	£44.48	£37.81
						12	G8A46906	£52.58	£44.69
						14	G8A46992	£52.58	£44.69
						16	G8A46907	£56.25	£47.81
2	1	4	1.95	1.6	50	20	G8A46932	£56.25	£47.81
						20	G8A46932	£56.25	£47.81
						5	G8A54015	£59.48	£50.56
						9.7	G8A54907	£63.51	£53.98
						15	G8A54908	£63.51	£53.98
						4	G8A46939	£41.49	£35.27
						6	G8A46940	£41.49	£35.27
						10	G8A46941	£44.24	£37.60
						14	G8A46943	£44.24	£37.60
						16	G8A46909	£44.24	£37.60
3	1.5	6	2.85	2.4	60	20	G8A46910	£44.73	£38.02
						25	G8A46945	£48.42	£41.16
						30	G8A46967	£51.62	£43.88
						6	G8A54020	£55.63	£47.28
						13	G8A54909	£59.48	£50.56
						20	G8A54910	£63.59	£54.05
						12	G8A46948	£61.09	£51.93
						16	G8A46030	£61.09	£51.93
						20	G8A46911	£61.09	£51.93
						25	G8A46968	£61.09	£51.93
4	2	6	3.85	3.2	90	35	G8A46970	£66.14	£56.22
						12	G8A46950	£61.09	£51.93
						20	G8A46912	£61.09	£51.93
						30	G8A46971	£61.09	£51.93
						40	G8A46973	£82.53	£70.15
						45	G8A46974	£82.53	£70.15
						50	G8A46975	£85.32	£72.52

IG X-POWER PRO

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



High Performance



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

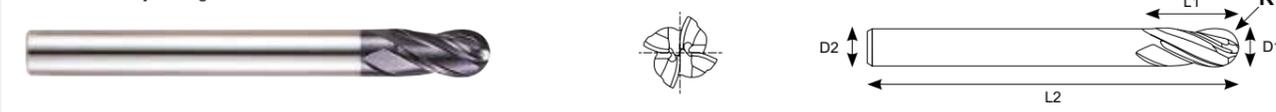
D1	R	D2	D3	L1	L2	L3	L4	Neck Taper Angle	Order Code	List Price	Offer Price
1	0.5	6	2	4	60	23	2	1° 30'	GM902010	£45.62	£36.49
							4.3	5°	GM902901	£45.62	£36.49
							5	3°	GM902902	£47.95	£38.36
2	1	6	4	6	60	23	2.9	1° 30'	GM902020	£40.95	£32.76
							5	5°	GM902903	£40.95	£32.76
							5.7	3°	GM902904	£44.53	£35.63
3	1.5	6	6	8	70	32	5.6	3°	GM902030	£41.22	£32.97
							5.3	1° 30'	GM902905	£45.81	£36.65
							6	3°	GM902040	£41.52	£33.22
4	2	6	8	10	70	28	5.9	3°	GM902060	£46.12	£36.90
							6	1° 30'	GM902906	£66.28	£53.02
							8	3°	GM902908	£77.32	£61.85
6	3	8	12	15	110	53	8	1° 30'	GM902080	£117.19	£93.75
							10	3°	GM902909	£131.42	£105.14

IG X-POWER PRO

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



High Performance



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

D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	1	6	5	50	GM815020	£42.71	£34.16
3	1.5	6	8	60	GM815030	£42.71	£34.16
4	2	6	8	70	GM815040	£44.14	£35.31
5	2.5	6	10	80	GM815050	£45.53	£36.42
6	3	6	12	90	GM815060	£48.32	£38.66
8	4	8	14	100	GM815080	£71.27	£57.02
10	5	10	18	100	GM815100	£109.61	£87.69
12	6	12	22	110	GM815120	£137.81	£110.24
16	8	16	30	140	GM815160	£226.64	£181.31

HSC & GENERAL MILLING

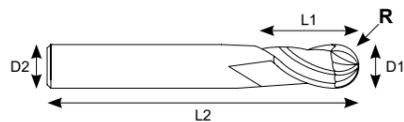
HSC & GENERAL MILLING



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



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

General Purpose

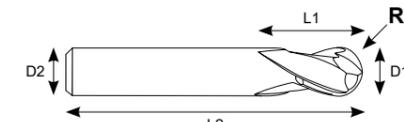
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	1	6	4	48	G9634020	£15.78	£12.62
3	1.5	6	4	48	G9634030	£15.78	£12.62
4	2	6	6	50	G9634040	£16.50	£13.20
5	2.5	6	7	51	G9634050	£17.12	£13.70
6	3	6	7	51	G9634060	£18.61	£14.88
8	4	8	9	59	G9634080	£28.85	£23.08
10	5	10	10	60	G9634100	£46.09	£36.87
12	6	12	14	71	G9634120	£59.10	£47.28
14	7	14	14	71	G9634140	£69.57	£55.66
16	8	16	16	76	G9634160	£93.17	£74.54
18	9	18	18	76	G9634180	£101.22	£80.97
20	10	20	20	82	G9634200	£143.44	£114.75



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



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

High Performance

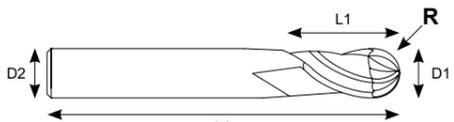
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
2	1	6	4.5	38	GMK65020	£14.29	£12.14
3	1.5	6	5.5	38	GMK65030	£15.87	£13.49
4	2	6	7.5	38	GMK65040	£15.87	£13.49
5	2.5	6	9	38	GMK65050	£15.87	£13.49
6	3	6	9	38	GMK65060	£15.87	£13.49
8	4	8	12	43	GMK65080	£23.14	£19.67
10	5	10	14	50	GMK65100	£34.70	£29.49
12	6	12	16.5	55	GMK65120	£45.95	£39.06



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



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

High Performance

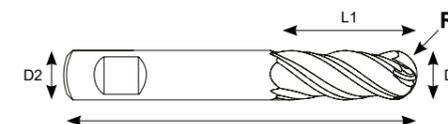
D1	R	D2	L1	L2	Order Code	List Price	Offer Price
3	1.5	6	8	60	G8D62030	£61.63	£52.38
4	2	6	8	70	G8D62040	£64.53	£54.85
5	2.5	6	10	80	G8D62050	£67.75	£57.59
6	3	6	12	90	G8D62060	£70.82	£60.20
8	4	8	14	100	G8D62080	£110.93	£94.29
10	5	10	18	100	G8D62100	£184.73	£157.02
12	6	12	22	110	G8D62120	£237.65	£202.00
16	8	16	30	140	G8D62160	£397.19	£337.61
20	10	20	38	160	G8D62200	£609.01	£517.66



4 FLUTE COATED CARBIDE BALL NOSE MULTIPLE HELIX

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

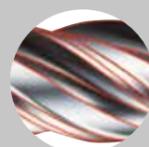
- Y1200 coated ultrafine micrograin carbide
- Multiple helix design for large cut depths and aggressive feed rates
- HPC = High performance cutting
- Special flute geometry and multiple helix eliminates vibration



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

High Performance

D1	R	D2	L1	L2	Order Code		List Price	Offer Price
					Plain Shank	Weldon Shank		
3	1.5	6	8	57	GMG55030	GMG56030	£25.94	£22.05
4	2	6	11	57	GMG55040	GMG56040	£25.94	£22.05
5	2.5	6	13	57	GMG55050	GMG56050	£25.94	£22.05
6	3	6	13	57	GMG55060	GMG56060	£25.94	£22.05
8	4	8	19	63	GMG55080	GMG56080	£36.42	£30.96
10	5	10	22	72	GMG55100	GMG56100	£57.22	£48.64
12	6	12	26	83	GMG55120	GMG56120	£78.68	£66.87
16	8	16	32	92	GMG55160	GMG56160	£123.97	£105.37
20	10	20	38	104	GMG55200	GMG56200	£222.67	£189.27
25	12.5	25	38	104	GMG55250	GMG56250	£314.78	£267.57



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.