

N

NON FERROUS MILLING

**Cut faster with cleaner,
controlled swarf removal**

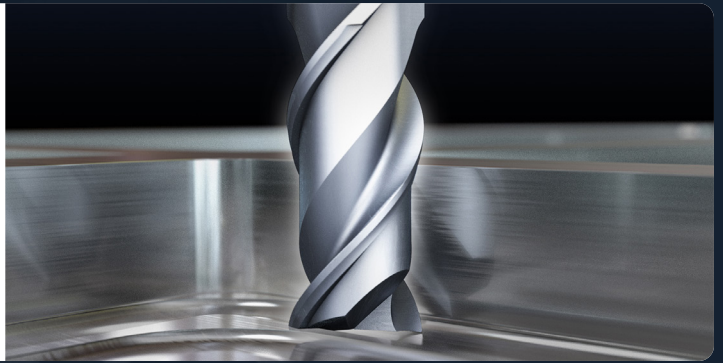
1 Flute	P 64-65	Ball Nose	P 76-77
2 Flute	P 66-69	Rippers	P 78-79
3 Flute	P 70-75		

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

NON-FERROUS MILLING HIGHLIGHTS

W/G ALU-POWER

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



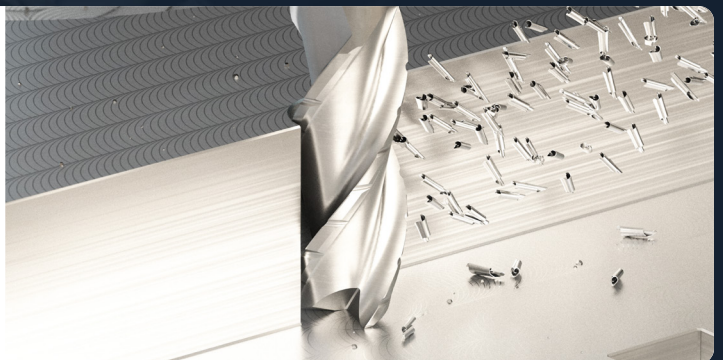
KORLOY A+ ENDMILL

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



W/G ALU-POWER HPC

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



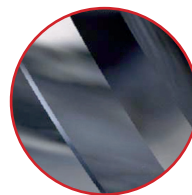
ALU-POWER HPC THE ANATOMY OF EFFICIENCY

SPECIALISED DESIGN OF CORNER GASH

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

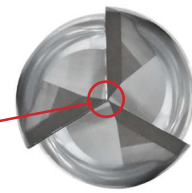
DLC DIAMOND-LIKE CARBON

- Excels in hard aluminium & high speeds
- Provides edge strength and unsurpassed tool life



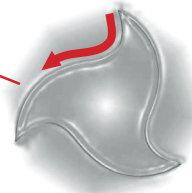
CYLINDRICAL LAND

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



IDEAL SYMMETRICAL SHAPE

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



ENGINEERED FLUTE DESIGN

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

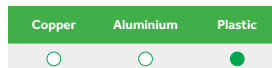
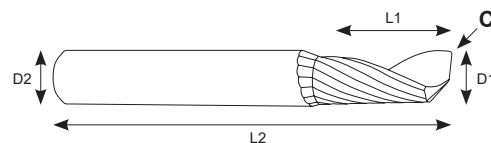
MG ALU-POWER

Advanced Performance

1 FLUTE UP CUT PLASTIC-CUT LAPPED CHAMFER PREP

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

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



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

1 FLUTE UP CUT PLASTIC-CUT LAPPED

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

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



Plastic

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

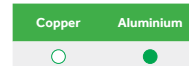
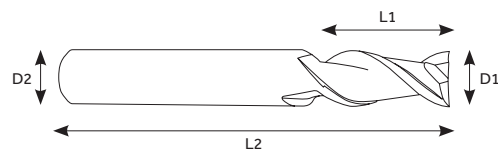
MG ALU-POWER

Advanced Performance

2 FLUTE 45° HELIX UNCOATED CARBIDE

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

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



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

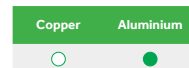
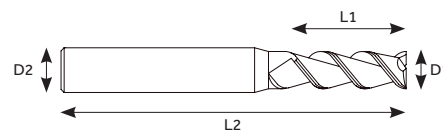
KORLOY A+ ENDMILL

High Performance

2 FLUTE 50° HELIX UNCOATED CARBIDE

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

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



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

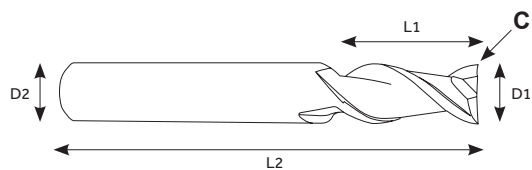
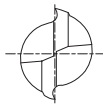
MG ALU-POWER

Advanced Performance

2 FLUTE 45° HELIX UNCOATED CARBIDE, CHAMFER PREP

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

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



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

NON-FERROUS MILLING

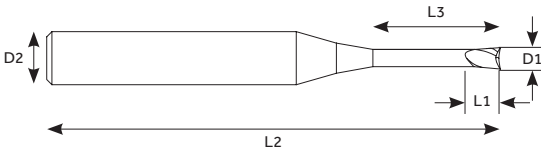
MG ALU-POWER

Advanced Performance

2 FLUTE UNCOATED CARBIDE LONG NECK

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

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



Copper	Aluminium
☐	☒

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

NON-FERROUS MILLING

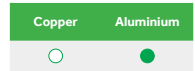
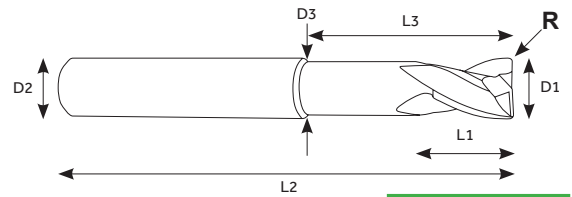
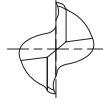
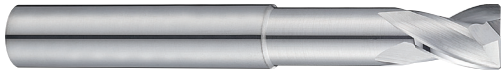
MG ALU-POWER

Advanced Performance

2 FLUTE UNCOATED CARBIDE CORNER RADIUS, NECKED

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

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



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

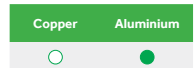
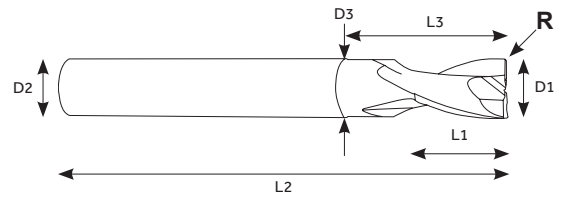
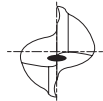
MG ALU-POWER

Advanced Performance

2 FLUTE UNCOATED CARBIDE CORNER RADIUS 25° HELIX

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

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



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

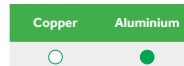
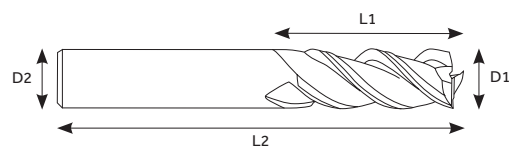
MG ALU-POWER

Advanced Performance

3 FLUTE UNCOATED CARBIDE 45° HELIX

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

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



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

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

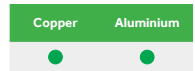
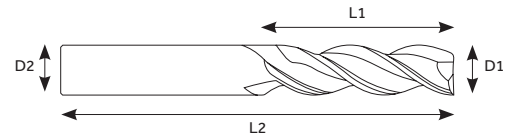
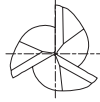
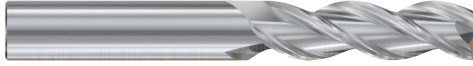
MG ALU-POWER HPC

High Performance

3 FLUTE UNCOATED & DLC COATED CARBIDE 37° HELIX

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

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



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

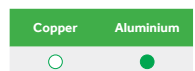
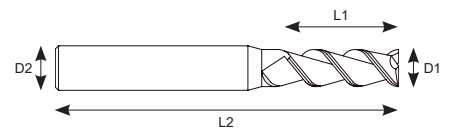
KORLOY A+ ENDMILL

High Performance

3 FLUTE UNCOATED CARBIDE 50° HELIX

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

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



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

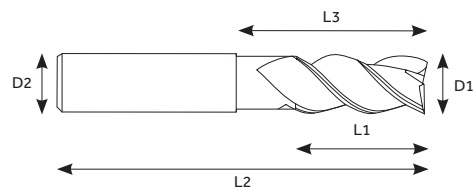
MG ALU-POWER

Advanced Performance

3 FLUTE UNCOATED CARBIDE, 45° HELIX, NECKED

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

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



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

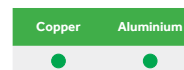
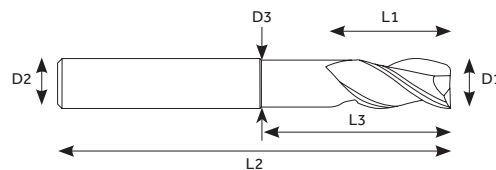
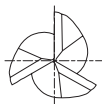
MG ALU-POWER HPC

High Performance

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

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

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



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

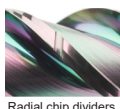
MG ALU-POWER HPC

High Performance

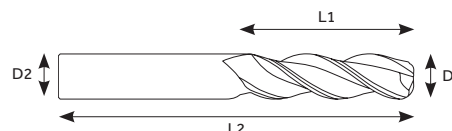
3 FLUTE UNCOATED CARBIDE, CHIP SPLITTER

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

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



Radial chip dividers



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

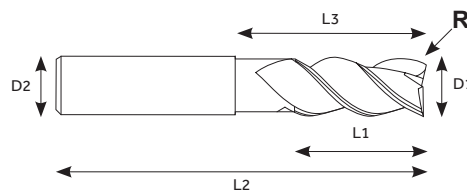
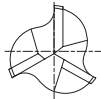
MG ALU-POWER

Advanced Performance

3 FLUTE UNCOATED CARBIDE, CORNER RADIUS 45° HELIX

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

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

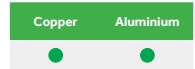
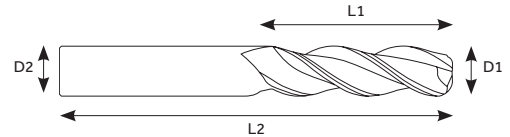
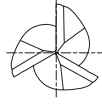


D1	R	D2	L1	L2	L3	Order Code
3	0.5	6	12	57	-	E5E51030
	1					E5E51901
4	0.5	6	15	57	-	E5E51040
	1					E5E51902
5	0.5	6	20	57	-	E5E51050
	1					E5E51903
6	0.5	6	20	65	-	E5E51060
	1					E5E51904
	0.5	6	10	70	20	E5D7206005
	1					E5D7206010
8	0.5	8	22	65	-	E5E51080
	1					E5E51905
	0.5	8	12	80	25	E5D7208005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

MG ALU-POWER HPC**High Performance****3 FLUTE UNCOATED & DLC COATED CARBIDE 37° HELIX, CORNER RAD**

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

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



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

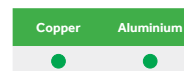
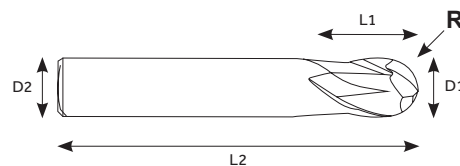
MG ALU-POWER

Advanced Performance

2 FLUTE UNCOATED CARBIDE BALL NOSE 50° HELIX

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

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



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

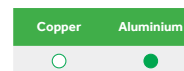
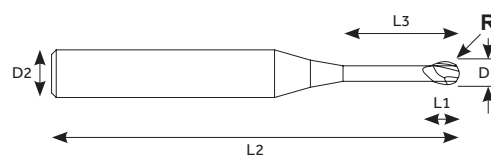
MG ALU-POWER

Advanced Performance

2 FLUTE BALL NOSE UNCOATED CARBIDE LONG NECK

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

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



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

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

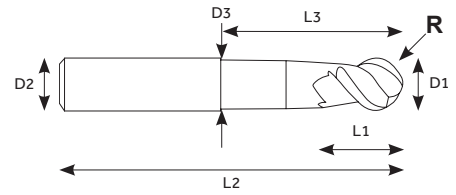
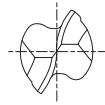
MG ALU-POWER

Advanced Performance

2 FLUTE UNCOATED CARBIDE BALL NOSE 50° HELIX, NECKED

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

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



Copper	Aluminium
●	●

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

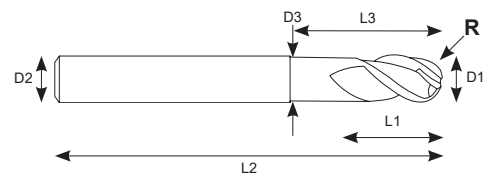
MG ALU-POWER

Advanced Performance

3 FLUTE UNCOATED CARBIDE BALL NOSE, NECKED

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

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



Copper	Aluminium
●	●

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

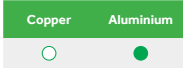
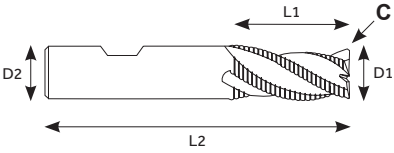
MG ALU-POWER

Advanced Performance

3 FLUTE UNCOATED CARBIDE RIPPER

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

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



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

NON-FERROUS MILLING

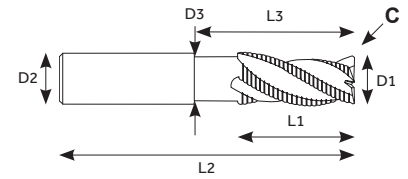
MG ALU-POWER

Advanced Performance

3 FLUTE UNCOATED CARBIDE RIPPER, NECKED

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

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



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