


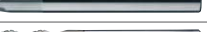





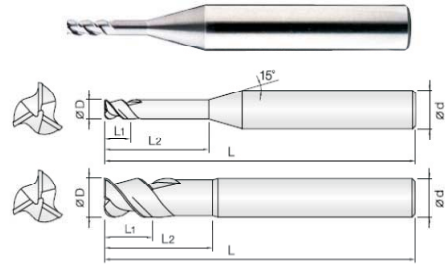
700 Series FOR ALUMINUM



Tool Selection Index

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3 Flutes 45° Helix Rib End Mills for Aluminum



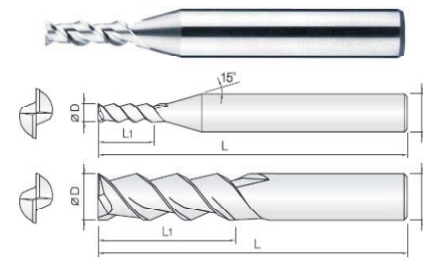
Endmills for Aluminum, AL alloy, non-ferrous and non-metallic materials.
 Applied ultra fine WC grade(0.2um) for excellent surface finish.
 Applied short flute length for various applications.
 Minimize built up edge by double edge and deep pocket design.
 Outstanding performance at high speed machining by ultra fine (0.2um) WC grade.

Cutting Data
P159

Size	D Tolerance
D ≤ Φ12	+0~ -0.01mm

Type	Part Number	Dimensions in mm					d
		D	L1	L2	L		
3	720010020H06Z3-NON	1	2	-	60	6	
	720010040H06Z3-NON	1	2	4	60	6	
	720010060H06Z3-NON	1	2	6	60	6	
	720010080H06Z3-NON	1	2	8	60	6	
	720010100H06Z3-NON	1	2	10	60	6	
	720015030H06Z3-NON	1.5	3	-	60	6	
	720015060H06Z3-NON	1.5	3	6	60	6	
	720015090H06Z3-NON	1.5	3	9	60	6	
	720015120H06Z3-NON	1.5	3	12	60	6	
	720020040H06Z3-NON	2	4	-	60	6	
	720020080H06Z3-NON	2	4	8	60	6	
	720020120H06Z3-NON	2	4	12	60	6	
720020160H06Z3-NON	2	4	16	60	6		
720025050H06Z3-NON	2.5	5	-	60	6		
720025100H06Z3-NON	2.5	5	10	60	6		
720025150H06Z3-NON	2.5	5	15	60	6		
720025200H06Z3-NON	2.5	5	20	60	6		
720030060H06Z3-NON	3	6	-	60	6		
720030100H06Z3-NON	3	6	10	60	6		
720030150H06Z3-NON	3	6	15	60	6		
720030200H06Z3-NON	3	6	20	70	6		
720030250H06Z3-NON	3	6	25	70	6		
720030300H06Z3-NON	3	6	30	80	6		
720040080H06Z3-NON	4	8	-	70	6		
720040100H06Z3-NON	4	8	10	70	6		
720040150H06Z3-NON	4	8	15	70	6		
720040200H06Z3-NON	4	8	20	70	6		
720040250H06Z3-NON	4	8	25	70	6		
720040300H06Z3-NON	4	8	30	80	6		
720050100H06Z3-NON	5	10	-	80	6		
720050200H06Z3-NON	5	10	20	80	6		
720050300H06Z3-NON	5	10	30	80	6		
720060200H06Z3-NON	6	12	20	80	6		
720060400H06Z3-NON	6	12	40	80	6		
720080400H08Z3-NON	8	16	40	100	8		
720100500H10Z3-NON	10	20	50	110	10		
720120500H12Z3-NON	12	24	50	110	12		

2 Flutes 45° Helix End Mills for Aluminum



Endmills for Aluminum, AL alloy, non-ferrous and non-metallic materials.
 Applied ultra fine WC grade(0.2um) for excellent surface finish.
 Various flute length design for covering wide range application.
 Minimize built up edge by double edge and deep pocket design.
 Outstanding performance at high speed machining by ultra fine (0.2um) WC grade.

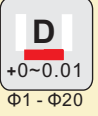
Cutting Data
P160

Size	D Tolerance
D ≤ Φ20	+0~ -0.01mm

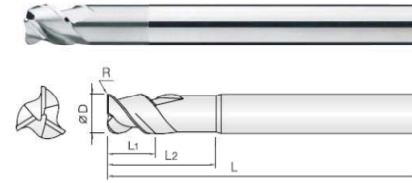
Type	Part Number	Dimensions in mm					d
		D	L1	L2	L		
3	760010025H06Z2-NON	1	2.5	-	40	6	
	760010035H06Z2-NON	1	3.5	-	40	6	
	760010050H06Z2-NON	1	5	-	45	6	
	760015040H06Z2-NON	1.5	4	-	40	6	
	760015060H06Z2-NON	1.5	6	-	40	6	
	760015080H06Z2-NON	1.5	8	-	45	6	
	760020050H06Z2-NON	2	5	-	45	6	
	760020070H06Z2-NON	2	7	-	45	6	
	760020100H06Z2-NON	2	10	-	50	6	
	760020120H06Z2-NON	2	12	-	50	6	
	760025080H06Z2-NON	2.5	8	-	45	6	
	760025120H06Z2-NON	2.5	12	-	50	6	
760030080H06Z2-NON	3	8	-	45	6		
760030100H06Z2-NON	3	10	-	45	6		
760030120H06Z2-NON	3	12	-	50	6		
760030150H06Z2-NON	3	15	-	50	6		
760030200H06Z2-NON	3	20	-	60	6		
760035100H06Z2-NON	3.5	10	-	45	6		
760035150H06Z2-NON	3.5	15	-	50	6		
760040120H06Z2-NON	4	12	-	50	6		
760040150H06Z2-NON	4	15	-	55	6		
760040180H06Z2-NON	4	18	-	55	6		
760040250H06Z2-NON	4	25	-	65	6		
760045120H06Z2-NON	4.5	12	-	50	6		
760045180H06Z2-NON	4.5	18	-	55	6		
760050150H06Z2-NON	5	15	-	50	6		
760050200H06Z2-NON	5	20	-	60	6		
760050250H06Z2-NON	5	25	-	65	6		
760055150H06Z2-NON	5.5	15	-	50	6		
760060150H06Z2-NON	6	15	-	50	6		
760060200H06Z2-NON	6	20	-	60	6		
760060250H06Z2-NON	6	25	-	65	6		
760070200H08Z2-NON	7	20	-	60	8		
760070300H08Z2-NON	7	30	-	70	8		
760080200H08Z2-NON	8	20	-	60	8		
760080250H08Z2-NON	8	25	-	65	8		
760080300H08Z2-NON	8	30	-	70	8		
760080400H08Z2-NON	8	40	-	80	8		
760100250H10Z2-NON	10	25	-	70	10		
760100300H10Z2-NON	10	30	-	75	10		
760100350H10Z2-NON	10	35	-	80	10		
760100450H10Z2-NON	10	45	-	90	10		
760120300H12Z2-NON	12	30	-	75	12		
760120350H12Z2-NON	12	35	-	80	12		
760120400H12Z2-NON	12	40	-	90	12		
760120500H12Z2-NON	12	50	-	100	12		
760140300H14Z2-NON	14	30	-	80	14		
760160400H16Z2-NON	16	40	-	90	16		



Type	Part Number	Dimensions in mm				
		D	L1	L2	L	d
	761080350075Z3-NON	8	35		75	8
	761080400080Z3-NON	8	40		80	8
	761080450090Z3-NON	8	45		90	8
	761080500090Z3-NON	8	50		90	8
	761080550100Z3-NON	8	55		100	8
	761100150070Z3-NON	10	15		70	10
	761100250070Z3-NON	10	25		70	10
	761100300075Z3-NON	10	30		75	10
	761100350080Z3-NON	10	35		80	10
	761100400090Z3-NON	10	40		90	10
	761100450090Z3-NON	10	45		90	10
	761100500100Z3-NON	10	50		100	10
	761100550100Z3-NON	10	55		100	10
	761100600110Z3-NON	10	60		110	10
	761100650110Z3-NON	10	65		110	10
	761120180075Z3-NON	12	18		75	12
	761120260075Z3-NON	12	26		75	12
	761120350080Z3-NON	12	35		80	12
	761120400090Z3-NON	12	40		90	12
	761120450090Z3-NON	12	45		90	12
	761120500100Z3-NON	12	50		100	12
	761120550100Z3-NON	12	55		100	12
	761120650110Z3-NON	12	65		110	12
	761140300080Z3-NON	14	30		80	14
	761140450110Z3-NON	14	45		110	14
	761160300085Z3-NON	16	30		85	16
	761160500110Z3-NON	16	50		110	16
	761160650120Z3-NON	16	65		120	16
	761160800130Z3-NON	16	80		130	16
	761200500100Z3-NON	20	50		100	20
	761200750130Z3-NON	20	75		130	20
	76120010D160Z3-NON	20	100		160	20
	76120013D200Z3-NON	20	130		200	20



3 Flutes 45° Helix Corner Radius End Mills for Aluminum



Endmills for Aluminum, AL alloy, non-ferrous and non-metallic materials.

Applied ultra fine WC grade(0.2um) for excellent surface finish. Minimize built up edge by double edge and deep pocket design.

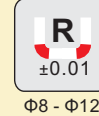
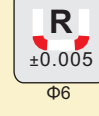
High speed, feed applicable by 3 flute 45° degree helix and short flute design.

Outstanding performance at high speed machining by ultra fine (0.2um) WC grade.


Cutting Data
P159


Size	D Tolerance
D ≤ Φ6	+0~ -0.01mm
D > Φ6	+0~ -0.015mm


Type	Part Number	Dimensions in mm					Coating (Y/N)
		D X R	L1	L2	L	d	
	780060005050Z3-DLC	6 X R0.5	15	-	50	6	Yes
	780060005070Z3-DLC	6 X R0.5	7	20	70	6	Yes
	780060010050Z3-DLC	6 X R1	15	-	50	6	Yes
	780060010070Z3-DLC	6 X R1	7	20	70	6	Yes
	780080005060Z3-DLC	8 X R0.5	20	-	60	8	Yes
	780080005080Z3-DLC	8 X R0.5	9	25	80	8	Yes
	780080010060Z3-DLC	8 X R1	20	-	60	8	Yes
	780080010080Z3-DLC	8 X R1	9	25	80	8	Yes
	780080020060Z3-DLC	8 X R2	20	-	60	8	Yes
	780080020080Z3-DLC	8 X R2	9	25	80	8	Yes
	780080025080Z3-DLC	8 X R2.5	9	25	80	8	Yes
	780100010070Z3-DLC	10 X R1	25	-	70	10	Yes
	780100010100Z3-DLC	10 X R1	11	30	100	10	Yes
	780100015070Z3-DLC	10 X R1.5	25	-	70	10	Yes
	780100015100Z3-DLC	10 X R1.5	11	30	100	10	Yes
	780100020070Z3-DLC	10 X R2	25	-	70	10	Yes
	780100020100Z3-DLC	10 X R2	11	30	100	10	Yes
	780100025100Z3-DLC	10 X R2.5	11	30	100	10	Yes
	780120010075Z3-DLC	12 X R1	30	-	75	12	Yes
	780120010110Z3-DLC	12 X R1	13	36	110	12	Yes
	780120015110Z3-DLC	12 X R1.5	13	36	110	12	Yes
	780120020075Z3-DLC	12 X R2	30	-	75	12	Yes
	780120020110Z3-DLC	12 X R2	13	36	110	12	Yes
	780120025110Z3-DLC	12 X R2.5	13	36	110	12	Yes
	780120030075Z3-DLC	12 X R3	30	-	75	12	Yes
	780120030110Z3-DLC	12 X R3	13	36	110	12	Yes
	780120040075Z3-DLC	12 X R4	30	-	75	12	Yes
	780120040110Z3-DLC	12 X R4	13	36	110	12	Yes
	780160010090Z3-DLC	16 X R1	35	-	90	16	Yes
	780160010130Z3-DLC	16 X R1	17	50	130	16	Yes
	780160020090Z3-DLC	16 X R2	35	-	90	16	Yes
	780160020130Z3-DLC	16 X R2	17	50	130	16	Yes
	780160025130Z3-DLC	16 X R2.5	17	50	130	16	Yes
	780160030090Z3-DLC	16 X R3	35	-	90	16	Yes
	780160030130Z3-DLC	16 X R3	17	50	130	16	Yes
	780160040090Z3-DLC	16 X R4	35	-	90	16	Yes
	780160040130Z3-DLC	16 X R4	17	50	130	16	Yes
	780160050090Z3-DLC	16 X R5	35	-	90	16	Yes
	780200020150Z3-DLC	20 X R2	21	60	150	20	Yes
	780200025150Z3-DLC	20 X R2.5	21	60	150	20	Yes
	780200030150Z3-DLC	20 X R3	21	60	150	20	Yes
	780200040150Z3-DLC	20 X R4	21	60	150	20	Yes





Type	Part Number	Dimensions in mm					Coating (Y/N)
		D X R	L1	L2	L	d	
	780060005050Z3-NON	6 X R0.5	15	-	50	6	No
	780060005070Z3-NON	6 X R0.5	7	20	70	6	No
	780060010050Z3-NON	6 X R1	15	-	50	6	No
	780060010070Z3-NON	6 X R1	7	20	70	6	No
	780080005060Z3-NON	8 X R0.5	20	-	60	8	No
	780080005080Z3-NON	8 X R0.5	9	25	80	8	No
	780080010060Z3-NON	8 X R1	20	-	60	8	No
	780080010080Z3-NON	8 X R1	9	25	80	8	No
	780080020060Z3-NON	8 X R2	20	-	60	8	No
	780080020080Z3-NON	8 X R2	9	25	80	8	No
	780080025080Z3-NON	8 X R2.5	9	25	80	8	No
	780100010070Z3-NON	10 X R1	25	-	70	10	No
	780100010100Z3-NON	10 X R1	11	30	100	10	No
	780100015070Z3-NON	10 X R1.5	25	-	70	10	No
	780100015100Z3-NON	10 X R1.5	11	30	100	10	No
	780100020070Z3-NON	10 X R2	25	-	70	10	No
	780100020100Z3-NON	10 X R2	11	30	100	10	No
	780100025100Z3-NON	10 X R2.5	11	30	100	10	No
	780120010075Z3-NON	12 X R1	30	-	75	12	No
	780120010110Z3-NON	12 X R1	13	36	110	12	No
	780120015110Z3-NON	12 X R1.5	13	36	110	12	No
	780120020075Z3-NON	12 X R2	30	-	75	12	No
	780120020110Z3-NON	12 X R2	13	36	110	12	No
	780120025110Z3-NON	12 X R2.5	13	36	110	12	No
	780120030075Z3-NON	12 X R3	30	-	75	12	No
	780120030110Z3-NON	12 X R3	13	36	110	12	No
	780120040075Z3-NON	12 X R4	30	-	75	12	No
	780120040110Z3-NON	12 X R4	13	36	110	12	No
	780160010090Z3-NON	16 X R1	35	-	90	16	No
	780160010130Z3-NON	16 X R1	17	50	130	16	No
	780160020090Z3-NON	16 X R2	35	-	90	16	No
	780160020130Z3-NON	16 X R2	17	50	130	16	No
	780160025130Z3-NON	16 X R2.5	17	50	130	16	No
	780160030090Z3-NON	16 X R3	35	-	90	16	No
	780160030130Z3-NON	16 X R3	17	50	130	16	No
	780160040090Z3-NON	16 X R4	35	-	90	16	No
	780160040130Z3-NON	16 X R4	17	50	130	16	No
	780160050090Z3-NON	16 X R5	35	-	90	16	No
	780200020150Z3-NON	20 X R2	21	60	150	20	No
	780200025150Z3-NON	20 X R2.5	21	60	150	20	No
	780200030150Z3-NON	20 X R3	21	60	150	20	No
	780200040150Z3-NON	20 X R4	21	60	150	20	No






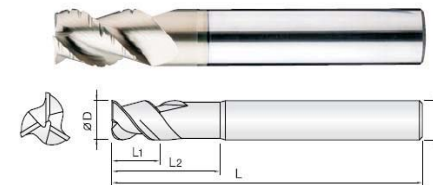








3 Flutes Semi-Finishing & Roughing End Mills for Aluminum



High speed semi finishing and roughing endmills for Aluminum, AL alloy, non-ferrous and non-metallic materials. Minimize built up edge by chip braker and deep pocket design. Good surface integrity differently from competitor's AL roughing endmills. Minimize fracturing at high feed by high TRS ultra fine WC grade.

Cutting Data	Size	D Tolerance
	D ≤ Φ20	+0~ -0.03mm

P160

Type	Part Number	Dimensions in mm				
		D	L1	L2	L	d
	700060150H06Z3-TIN	6	10	15	50	6
	700060200H06Z3-TIN	6	15	20	70	6
	700080200H08Z3-TIN	8	15	20	60	8
	700080250H08Z3-TIN	8	20	25	80	8
	700100250H10Z3-TIN	10	18	25	70	10
	700100300H10Z3-TIN	10	23	30	90	10
	700120300H12Z3-TIN	12	20	30	80	12
	700120400H12Z3-TIN	12	30	40	100	12
	700160350H16Z3-TIN	16	25	35	110	16
	700160500H16Z3-TIN	16	35	50	120	16
	700200500H20Z3-TIN	20	35	50	110	20
	700200600H20Z3-TIN	20	45	60	120	20



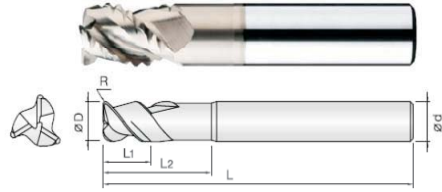








3 Flutes Semi-Finishing & Roughing Corner Radius End Mills for Aluminum



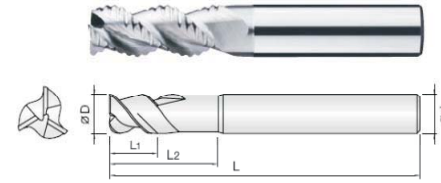
High speed semi finishing and roughing endmills for Aluminum, AL alloy, non-ferrous and non-metallic materials.
 Minimize built up edge by chip braker and deep pocket design.
 Good surface integrity differently from competitor's AL roughing endmills.
 Minimize fracturing at high feed by high TRS ultra fine WC grade.

Cutting Data
P160

Size	D Tolerance
D ≤ Φ20	+0~ -0.03mm

Type	Part Number	Dimensions in mm					d
		D X R	L1	L2	L		
3	701060005H06Z3-TIN	6 X R0.5	9	15	65	6	
	701060010H06Z3-TIN	6 X R1	9	15	65	6	
	701080005H08Z3-TIN	8 X R0.5	12	20	70	8	
	701080010H08Z3-TIN	8 X R1	12	20	70	8	
	701100010H10Z3-TIN	10 X R1	15	25	75	10	
	701100020H10Z3-TIN	10 X R2	15	25	75	10	
	701120010H12Z3-TIN	12 X R1	20	30	80	12	
	701120020H12Z3-TIN	12 X R2	20	30	80	12	
	701120030H12Z3-TIN	12 X R3	20	30	80	12	
	701160010H16Z3-TIN	16 X R1	25	35	110	16	
UWC	701160020H16Z3-TIN	16 X R2	25	35	110	16	
	701160030H16Z3-TIN	16 X R3	25	35	110	16	
	701200020H20Z3-TIN	20 X R2	30	50	110	20	
	701200030H20Z3-TIN	20 X R3	30	50	110	20	
TISIN Coating							
R ±0.03 Φ6 - Φ20							
45° Helix Angle							

3 Flutes 45° Helix Roughing End Mills for Aluminum



High speed semi finishing and roughing endmills for Aluminum, AL alloy, non-ferrous and non-metallic materials.
 Minimize built up edge by chip braker and deep pocket design.
 High speed roughing applicable by 45 ° helix fine pitch flute.
 Minimize fracturing at high feed by high TRS ultra fine WC grade.

Cutting Data
P160

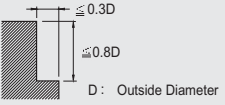
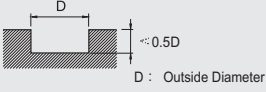
Size	D Tolerance
D ≤ Φ6	+0~ -0.02mm
D > Φ6	-0.02~ -0.05mm

Type	Part Number	Dimensions in mm					Coating (Y/N)
		D	L1	L2	L	d	
3	702040150H06Z3-DLC	4	10	15	60	6	Yes
	702050200H06Z3-DLC	5	15	20	60	6	Yes
	702060210H06Z3-DLC	6	16	21	65	6	Yes
	702080270H08Z3-DLC	8	21	27	70	8	Yes
	702100310H10Z3-DLC	10	26	31	75	10	Yes
	702120380H12Z3-DLC	12	30	38	80	12	Yes
	702160450H16Z3-DLC	16	36	45	100	16	Yes
	702200550H20Z3-DLC	20	41	55	110	20	Yes
UWC	702040150H06Z3-NON	4	10	15	60	6	No
	702050200H06Z3-NON	5	15	20	60	6	No
	702060210H06Z3-NON	6	16	21	65	6	No
	702080270H08Z3-NON	8	21	27	70	8	No
	702100310H10Z3-NON	10	26	31	75	10	No
	702120380H12Z3-NON	12	30	38	80	12	No
	702160450H16Z3-NON	16	36	45	100	16	No
	702200550H20Z3-NON	20	41	55	110	20	No
DLC Coating							
D +0~0.02 Φ4 - Φ6							
D -0.00~0.05 Φ8 - Φ20							
45° Helix Angle							

780

• RPM : rev./min • Feed : mm/min

Material	Side Cutting			Slotting		
	Aluminum Alloys / A7075 etc.			Aluminum Alloys / A7075 etc.		
Outside Diameter	RPM	FEED	RPM	FEED	RPM	FEED
6mm	20,000	8,400	20,000	6,600	20,000	6,600
8mm	18,000	7,500	18,000	5,400	18,000	5,400
10mm	15,000	6,000	15,000	4,000	15,000	4,000
12mm	13,000	5,400	13,000	3,200	13,000	3,200
16mm	10,000	5,400	10,000	3,200	10,000	3,200
20mm	8,000	5,000	8,000	3,000	8,000	3,000

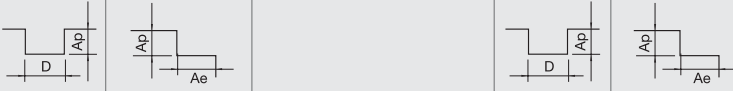
Depth of Cut		
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720 / 761

• RPM : rev./min • Feed : mm/min

Material	Aluminum Alloys etc.							
	Outside Diameter	720			761			Milling Amount (mm)
		RPM	FEED		RPM	FEED		
		Vertical	Solting	Side Milling	Vertical	Solting	Side Milling	
1mm	25,500	130	770	930	30,000	150	900	1,100
2mm	25,500	190	1,530	1,800	30,000	225	1,800	2,150
3mm	18,400	190	1,700	2,000	21,600	225	2,000	2,400
4mm	14,000	255	1,700	2,000	16,200	300	2,000	2,400
5mm	11,000	255	1,700	2,000	13,000	300	2,000	2,400
6mm	9,200	255	1,700	2,000	10,800	300	2,000	2,400
8mm	7,000	255	1,700	2,000	8,100	300	2,000	2,400
10mm	5,500	210	1,700	2,000	6,480	250	2,000	2,400
12mm	4,400	170	1,700	2,000	5,400	200	2,000	2,400
16mm	3,200	130	1,530	1,900	-	-	-	-
20mm	2,000	85	1,360	1,700	-	-	-	-

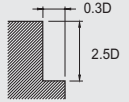
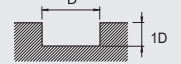
Milling Amount (mm)	Ap=0.75D	Ap=0.75D	Ap=0.75D/ Ae=0.3D	Ap=0.75D	Ap=0.75D	Ap=0.75D/ Ae=0.3D
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Depth of Cut	
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700 / 701

• RPM : rev./min • Feed : mm/min

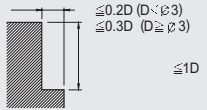
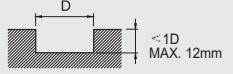
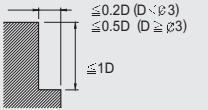
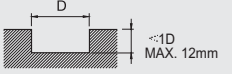
Material	Copper		Aluminum	
	80m/min		80 ~ 150m/min	
Outside Diameter	RPM	FEED	RPM	FEED
6mm	4,200	320	8,000	1,200
8mm	3,200	320	6,000	1,200
10mm	2,600	320	4,800	1,200
12mm	2,100	320	4,000	1,200
16mm	1,600	320	3,000	1,200
20mm	1,300	320	2,400	1,200

Depth of Cut		
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760

• RPM : rev./min • Feed : mm/min

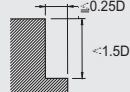
Material	Aluminum Alloys / A7075 etc.				Aluminum Alloys / AC4B etc.			
	300m/min		240m/min		240m/min		200m/min	
	Side Milling		Solting		Side Milling		Solting	
Outside Diameter	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
1mm	34,000	500	34,000	400	34,000	400	34,000	300
2mm	34,000	950	32,300	720	32,300	720	27,200	470
3mm	27,200	1,200	21,300	800	21,300	800	18,000	510
4mm	20,400	1,300	16,000	850	16,000	850	14,000	550
5mm	16,200	1,400	13,000	850	13,000	850	11,000	600
6mm	13,600	1,600	11,000	940	11,000	940	9,400	640
8mm	10,200	1,600	8,000	1,000	8,000	1,000	6,800	680
10mm	8,100	1,600	6,500	1,000	6,500	1,000	5,400	680
12mm	6,800	1,600	5,400	1,000	5,400	1,000	4,500	680
16mm	5,100	1,600	4,100	1,000	4,100	1,000	3,400	610
20mm	4,100	1,300	3,200	850	3,200	850	2,700	560

Depth of Cut				
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702

• RPM : rev./min • Feed : mm/min

Material	Side Cutting			
	Aluminum Alloys / A7075 etc.		Aluminum Alloys / AC4B etc.	
Outside Diameter	RPM	FEED	RPM	FEED
4mm	30,000	4,200	16,000	1,800
5mm	27,000	4,900	14,400	2,000
6mm	24,300	5,500	11,700	2,100
8mm	18,000	5,400	9,000	2,200
10mm	14,400	5,200	7,200	2,100
12mm	11,700	4,800	5,900	1,900
16mm	9,000	4,600	4,500	1,800
20mm	7,200	4,300	3,600	1,700

Depth of Cut	
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