

- **End mills for Aluminum, AL alloys, non-ferrous and non-metallic materials.**
- By 25-degree helix flute edge design with the after-treatment process, when milling workpiece, it enables superior mirror surface milling.
- Minimize fracturing by high TRS fine (0.5 μ m) WC grade.



Contact Trucut Tools to order
sales@trucuttools.co.uk
Tel. 01202 717 110



Shield Edge

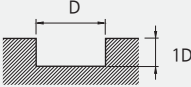
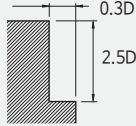
D Size	D Tolerance
∅ 6 ~ 16	+0 ~ -0.01mm

mm

[illegible]

3FALE Cutting Condition

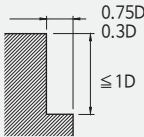
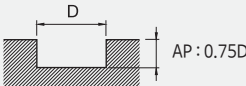
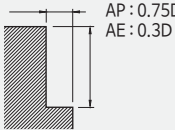
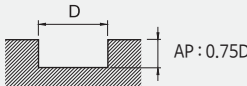
• RPM : rev./min • Feed : mm/min

	Slotting				Side Cutting			
Material	Aluminum Alloys AL7075				Aluminum Alloys AL7075			
Outside Diameter	RPM	FEED	Ap Axial Depth	Ae Radial Depth	RPM	FEED	Ap Axial Depth	Ae Radial Depth
Ø 6	8,000	1,000	6	6	8,000	1,200	15	1.8
Ø 8	6,000	1,000	8	8	6,000	1,200	20	2.4
Ø 10	4,800	1,000	10	10	4,800	1,200	25	3
Ø 12	4,000	1,000	12	12	4,000	1,200	30	3.6
Ø 16	3,000	1,000	16	16	3,000	1,200	40	4.8
Depth of Cut								

- When entering the tool to the workpiece, enter the tool from outside to the workpiece.
- In case of long effective length, reduce the RPM and feed by 20% or less.
- Use this table for your reference. Adjust the parameters depending on your machining geometry, machining purpose and CNC.
- In case of workpiece and machine do not have enough rigidity and make vibration, reduce the RPM and feed in same proportion.
- Depending on the workpiece and shape, use adequate coolant.

4ALE Cutting Condition

• RPM : rev./min • Feed : mm/min

Material	Aluminum Alloys AL7075				Aluminum Alloys AL7075			
	Side Milling		Slotting		Side Milling		Slotting	
Outside Diameter	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
Ø 3	12,800	975	12,880	825	5,796	439	5,796	330
Ø 4	9,800	975	9,800	825	4,410	439	4,410	330
Ø 5	7,700	975	7,700	825	3,465	439	3,465	330
Ø 6	6,440	975	6,440	825	2,898	439	2,898	330
Ø 8	4,900	975	4,900	825	2,205	439	2,205	330
Ø 10	3,850	975	3,850	825	1,733	439	1,733	330
Ø 12	3,080	975	3,080	825	1,386	439	1,386	330
Ø 16	2,240	926	2,240	746	1,008	417	1,008	298
Ø 20	1,400	829	1,400	663	630	373	630	265
Depth of Cut								

- When cutting at a high feed rate, check the stability of the cutting conditions first, as chip adhesion may occur on the cutting edge.
- The cutting edge is precisely ground. To prevent breakage, try to measure without contacting the edge if possible.
- The above cutting conditions are numerical values, so they may need to be adjusted depending on the actual machining shape, machining purpose, and applied machine.
- We recommend using air blow, cutting oil, or oil mist coolant to remove chips effectively and pay attention to heat generation and ignition during machining.
- If vertical lines appear on the surface after side milling, check the clamping of the holder and the fastening of the collet.