

A-Star Endmill

Endmill for Aluminum machining

- Suitable for Aluminum, Aluminum alloy and Non-ferrous materials
- Various specifications in the line such as ball, single flute and roughing etc. for wide range in machining



A-Star Endmill

KORLOY launched A-Star Endmill for effective Aluminum and Non-ferrous material machining. Its sharp cutting edge and mirror like helix flute prevent troubles in cutting with good chip evacuation.

A-Star Endmill is designed for cutting various shapes such as ball, flat, radius and so on. Its special cutting edges like single edge, roughing, and etc. can be used in numerous ways. A-Star Endmill's substrate is composed with good wear resistance and chipping resistance carbide and there is possibility to increase the features with DLC coating.

The A-Star Endmill is an optimal tool with various advantages and line-up for customers' needs.

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» **Less cutting load**

- Optimal sharp and strong cutting edge

» **Various line-up**

- Ball, flat, radius, single edge and roughing

» **Higher wear resistance**

- Increased oxidation resistance and chipping resistance due to applying the DLC coating

» **Higher chipping resistance**

- Reduced chipping by high toughness substrate

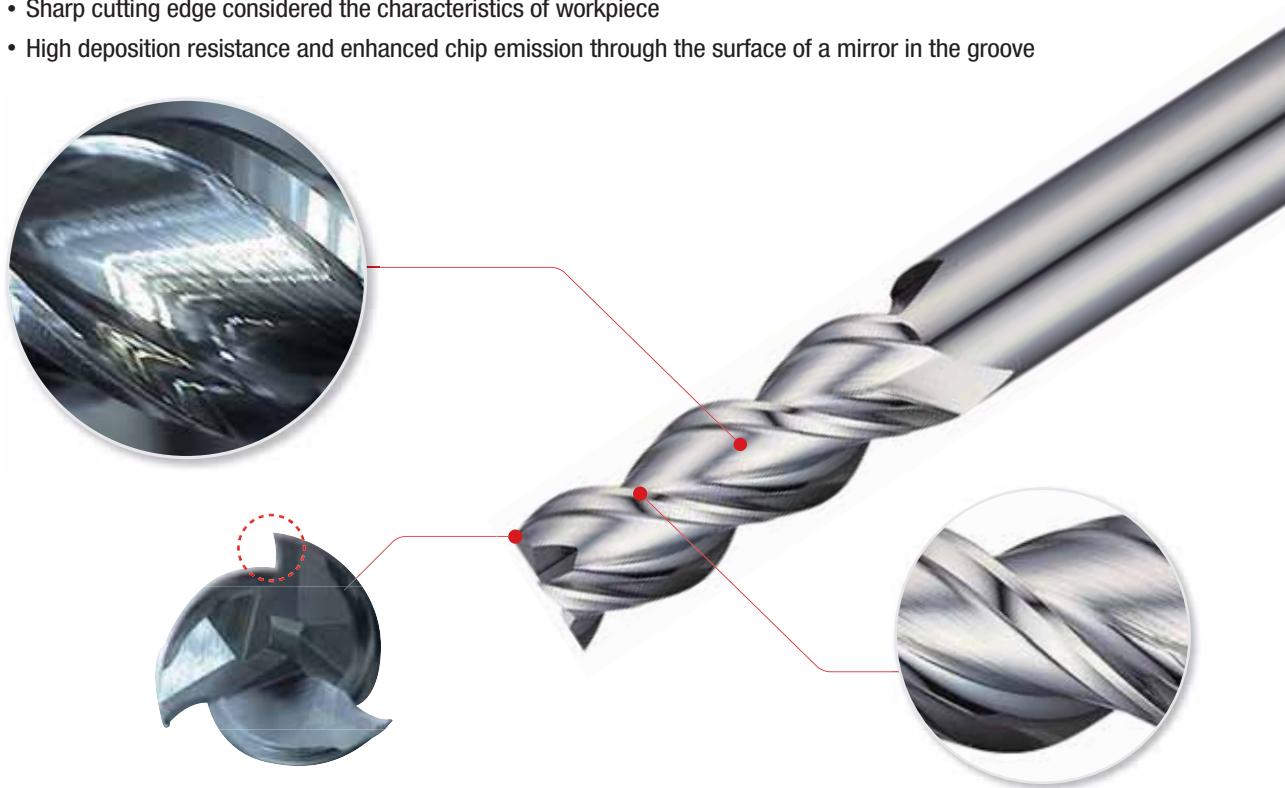


Code system

WA	R	30	3	-	14	-	10
A-Star Endmill	Type B: Ball E: Flat R: Radius F: Roughing	Length/shank type 30/50: Stub length 31/51: Regula length 32/52: Long length	No. of flute 1: 1 flutes 2: 2 flutes 3: 3 flutes		Tool dia. 0.2~25 mm		Corner radius 0.05~5 mm

Features

- Sharp cutting edge considered the characteristics of workpiece
- High deposition resistance and enhanced chip emission through the surface of a mirror in the groove

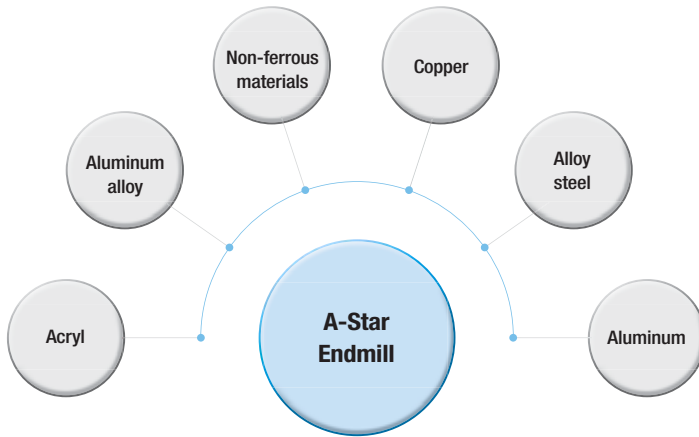


Tool selection guide

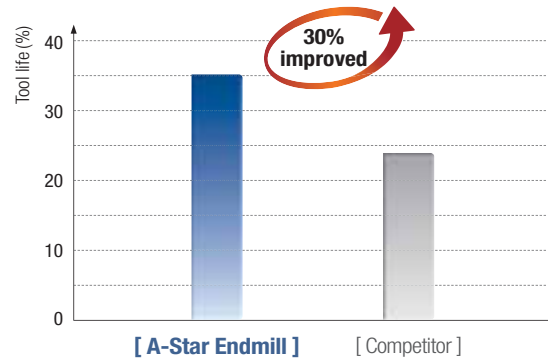
U-Star Endmill [*] <i>New</i>		S-Star Endmill [*] <i>New</i>		Super Endmill For Ti [*] <i>New</i>		A-Star Endmill		D Endmill	Composite Router Endmill
G-Star Endmill		Super Endmill For Ti [*] <i>New</i>		S-Star Endmill [*] <i>New</i>		H-Star Endmill [*] <i>New</i>			
		Super Endmill For HRSA							
P	K	M	S		H	N			
Carbon steel, Alloy steel	Cast iron	Stainless steel	Inconel718, Waspaloy, Hastelloy		Titanium	High hardened alloy		Non-ferrous	Graphite
								Composite materials (CFRP/GFRP)	

^{*}: 1st recommendation










Applications



[Case study]



Line-up

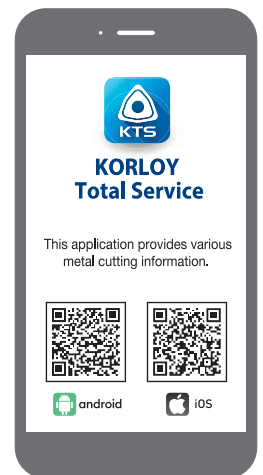
Type	Designation	Picture	Product name	No. of flute	Size (Ø)	
					Min.	Max.
Ball	WAB312		2 flutes ball nose Endmill	2	6.0	20.0
Flat	WAE301		1 flutes flat Endmill	1	0.2	12.0
	WAE302		2 flutes flat Endmill	2	1.0	25.0
	WAE30(2)3		3 flutes flat Endmill	3	1.0	25.0
Radius	WAR302		2 flutes radius Endmill	2	6.0	20.0
	WAR303		3 flutes radius Endmill	3	6.0	20.0
	WAR502		2 flutes radius Endmill	2	1.0	12.0
	WAR503		3 flutes radius Endmill	3	4.0	20.0
Roughing	WAF303		3 flutes roughing Endmill	3	6.0	20.0

For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.



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