WIDIN
DINE GROUP

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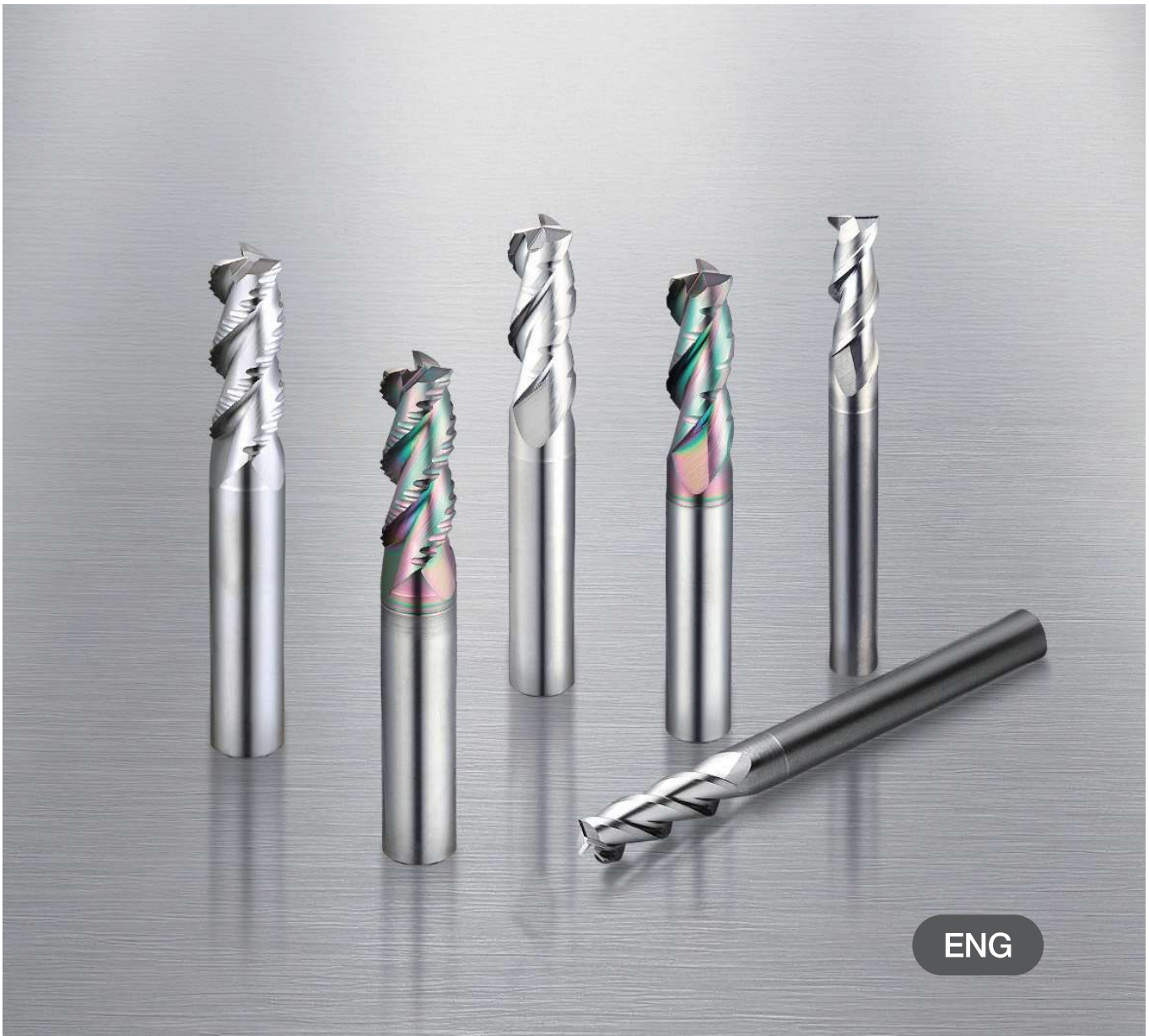
WING

NEW

A-WING SERIES

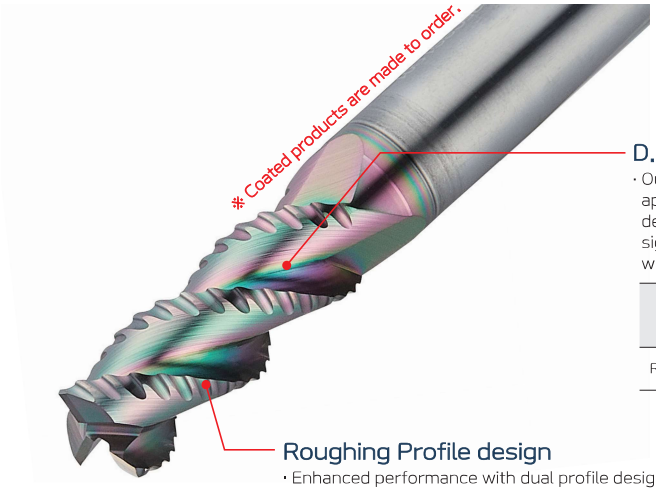


ENG

A-WING ENDMILL

Product Description

1. Specialized design for cutting aluminum and aluminum alloys
2. Excellent chip evacuation through Profile design
3. Applicable on a wide range of machining from roughing to finishing
4. Wide range of product specification



D.L.C Coating info

· Our pure carbon-based, diamond-like coating,
applied with FVAS (Filtered Vacuum Arc Source) technology,
delivers exceptional surface finish and release performance,
significantly reducing wear and material buildup
when machining non-ferrous metals like aluminum and copper.

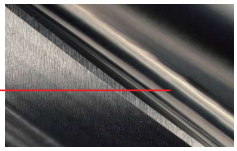
Color	Film hardness (Hv)	Friction Coefficient	Coating Thickness (pin axis, μm)	Max. Operating Temp (°C)
Rainbow	4000~7000	0.15	0.1~0.7	500

Roughing Profile design

· Enhanced performance with dual profile design
· Excellent chip evacuation
· Reduced machining load

Cylindrical Land

· Reduced vibration and chatter
· Reduced friction, improved surface finish



Fine Surface Finish on the Grooves

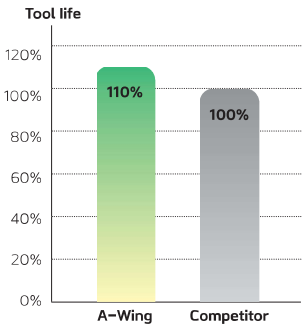
· Enhanced adhesion, reduced machining load
· Enhanced chip evacuation

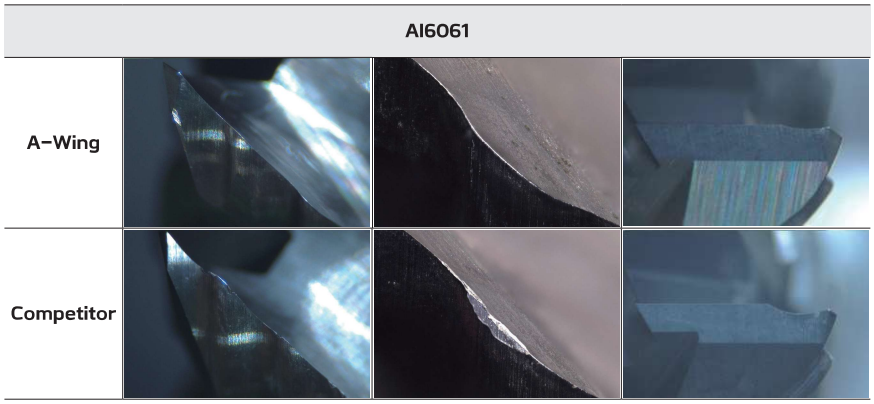
High toughness material

· Provides chipping resistance and
machining stability

Case Study

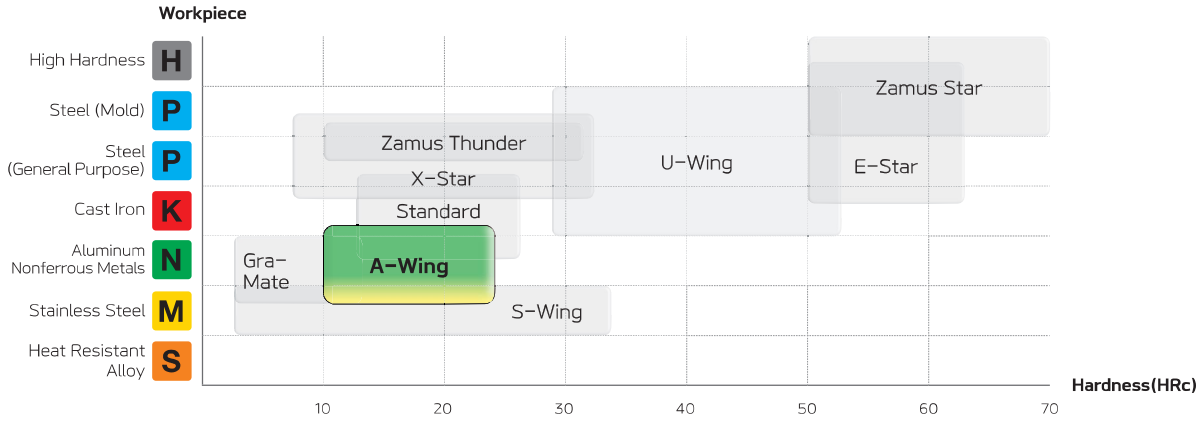
Product : 3Flute D10.0 Roughing Endmill





Cutting Condition					
Cutting Method	RPM	Feed	ap	ae	Coolant
Shouldering	8,500	4,300	10	5	Wet Machining

Applications



EDP No. System

AW	E	3	1	2	010		03		S4	C
Series	Shape	Grade	Appearance	No. of Flute	Cutting Dia.	Corner R	Length of Cut	Effective Length	Shank Dia.	Coating
AW (A-WING)	E : Flat R : Radius B : Ball N : Chip breaker(Nick) F : Roughing	3 : Grade 5 : Grade	1 : Neck 2 : Long Shank 8 : High Helix	1 2 3	1 ~ 20	0.05 ~ 10	2 ~ 150	7 ~ 160	4 ~ 20	C

Ex) AWE3120100354C (A-WING HRc30 2F D1 LOC3 Shank Dia.4 Flat type coated Endmill)