



# A BRAND AE-VTS-N

Advanced Performance DLC Coated End Mills for Non-Ferrous Materials

*Extremely Effective for Non-Ferrous Materials*

Vol 2

## PRIMARY TARGETS

- Customers who are milling non-ferrous material.
- Rough and finish milling.

## SOLUTIONS

- Stable, high efficiency milling with new flute design.
- Less chattering due to variable helix and index.
- Excellent surface finish with DLC's welding prevention.

## WHAT OUR CUSTOMERS SEE

- Higher MRR and longer tool life.

## HOW DOES IT WORK?

### Center Cutting

- R ramping and plunging process helps to shorten cycle time by improving the tool path.

### New Flute Form

- Balanced flute design that has high rigidity and large chip pocket make more stable and higher productivity.

### Variable Helix and Index

- Anti-vibration makes more stable milling and it help to improve the cycle time.

### DLC coating

- High welding resistance and lubricity makes better surface finish of work piece in non-ferrous machining.



**A**  
The A Brand

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# A Brand AE-VTS-N

## Advanced Performance DLC Coated End Mills for Non-Ferrous Materials



### A Brand AE-VTS-N

A Brand AE-VTS-N are OSG's advanced performance DLC-IGUSS coated carbide end mills for non-ferrous materials. With excellent cutting sharpness, they are able to suppress burrs to achieve excellent surface finish and are extremely effective for non-ferrous materials such as aluminum alloys that require welding resistance and lubricity.



### Features & Benefits

- **Center Cutting Edge** Ideal for Plunging.
- **Flat Cutting Edge** Achieves higher precision machined surface quality.
- **Large Core & New Flute Form** for high rigidity and excellent chip evacuation.
- **Unique Cutting Edge** achieves both rigidity and sharpness.
- **DLC-IGUSS Coating** for improved durability and effectiveness for non-ferrous materials.

### List Numbers

8830 - A Brand AE-VTS-N (Inch)  
8930 - A Brand AE-VTS-N (Metric)

### Size Range

1/8"-1/2"  
1mm-12mm

### 3 Cutting Edges at Center

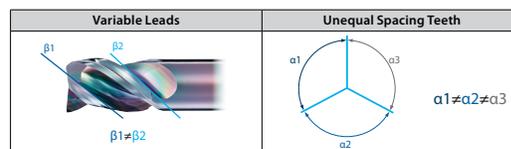
#### For High Speed Milling

The cutting load is equalized among the cutting edges with greater stability to enable high speed milling. Highly effective for plunging and ramping.

### Vibration Suppression

#### Stable and High Efficiency Milling

Stable and high efficiency milling is made possible by the suppression of chattering.



### DLC-IGUSS Coating

#### Improved Durability and Effectiveness for Non-Ferrous Materials

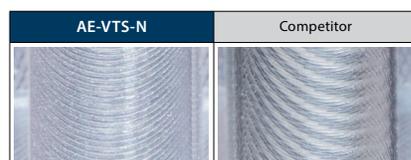
Due to the smoothness of the coating surface, it is extremely effective for non-ferrous materials such as aluminum alloys that require welding resistance and lubricity. Tool durability is also improved.

### High Efficiency Milling

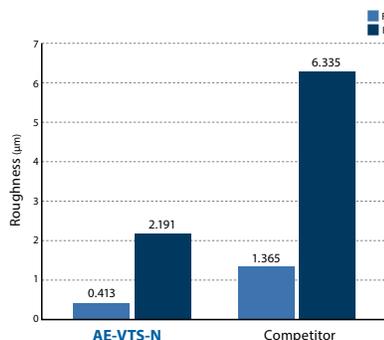
#### Good Machined Surface Quality Even Under High Speed Cutting Conditions

Due to the anti-welding effect of the DLC coating, the anti-vibration effect of the variable lead and unequal spacing teeth geometry, and the effect of the flat cutting edge specification, good machined surface can be achieved even under aggressive cutting condition.

Tool	AE-VTS-N	Competitor
Size	0.3937"	
Coating	DLC-IGUSS	Non-Coated
Work Material	A7075	
Machining Method	Slotting	
Cutting Speed	1,340 SFM (13,000 rpm)	985 SFM (9,550 rpm)
Feed	187.2 IPM (0.0048 IPT)	57.3 IPM (0.0020 IPT)
Depth of Cut	Aa = .3937" (1 x D)	
Coolant	Water Soluble	
Machine	Vertical MC (BT40)	



Surface Roughness After 433 Inches



For more information use your phone to scan the QR code to the right and visit: [osgtool.com/a-brand-ae-n](http://osgtool.com/a-brand-ae-n)

