



# A BRAND AE-CPR4-H

Advanced Performance Four-Flute, Corner Radius, Long Neck End Mill

**Efficient and Precise Milling in High-Hardness Steels**

## PRIMARY TARGETS

- Long Neck Carbide Radius for Deep Milling
- High-Efficiency Finishing for Hardened Steel (*Up to 65 HRC*)
- Superior Radius Precision

## SOLUTIONS

- Improved Tool Life, Especially in Material 60+HRC
- High Efficiency with 4 Flutes
- Chatter-Free Machining and Great Surface Quality

## WHAT OUR CUSTOMERS SEE

- Reduced Machine Time on Deep Milling!

## HOW DOES IT WORK?

### Tough Cutting Geometry

- Appropriate for Cutting Hardened Steel

### Variable Geometry

- Reduces Likelihood of Chipping Due to Excess Vibration

### Durorey Coating

- Ideal for Heat and Chipping Resistance

### 4 Flutes

- High Efficiency

**A**

The A Brand

[osgtool.com](http://osgtool.com)

OSG USA, Inc. : 800-837-2223

OSG Canada, Ltd. : 905-632-8032 • OSG Royco (Mexico) : +52 (722) 279-36-08 to 11

# A Brand AE-CPR4-H

## Advanced Performance Four-Flute, Corner Radius, Long Neck End Mill

### A Brand AE-CPR4-H

The AE-CPR4-H is a long neck corner radius carbide end mill engineered to achieve high-efficiency and high precision milling in high-hardness steels. All sizes are available in the 4-flute configuration for maximum productivity. OSG's DUROREY coating for high-hardness steel is employed with high chipping resistance even for work materials exceeding 60 HRC, enabling long tool life and high-speed machining.



### Features & Benefits

- **4-Flute Design** for High Efficiency Milling.
- **Spiral Shaped Gash** for Efficient Chip Evacuation.
- **Superior R Precision** for Outstanding Performance in High-Hardness Steels.

### List Numbers

8592 - A Brand AE-CPR4-H (Metric)

### Size Range

0.2mm-4mm

### Efficient Chip Evacuation

#### Spiral-Shaped Gash for Efficient Chip Evacuation

Gash specification with a spiral shape from the center to the corner radius improves chip evacuation and prevents chips from getting caught.



AE-CPR4-H



Conventional

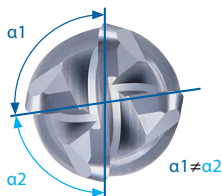
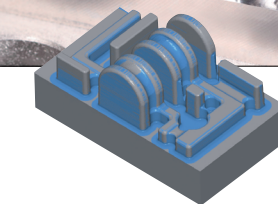
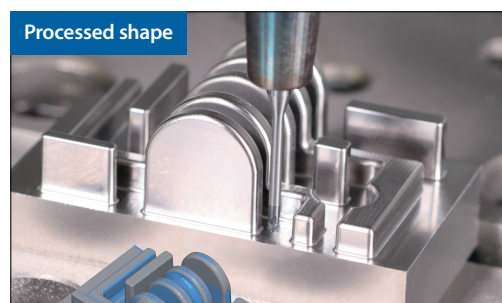
\* Applicable to sizes with an outer diameter of  $\phi 1$  or more and a corner R exceeding R0.1

### Suppresses Chatter

#### Unequal Spacing of Teeth Suppresses Chattering

Achieves highly efficient machining by suppressing chatter even in deep milling with a L/D ratio = 14.

Tool	AE-CPR4-H ( $\phi 2 \times R0.3 \times 20$ )
Work Material	H13 (50 HRC)
Milling Method	Contour Milling
Cutting Speed	174 SFM (9,300 RPM)
Feed	51.2 IPM (0.0014 IPT)
Depth of Cut	Aa = 0.002", Ar = 0.014"
Overhang Length	28mm (L/D=14)
Coolant	Air Blow
Machine	Vertical Machining Center



For more information use your phone to scan the QR code to the right and visit: [osgtool.com/ae-cpr4-h](http://osgtool.com/ae-cpr4-h)



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