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

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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

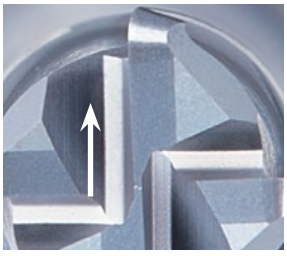
	Size Range
8592 - A Brand AE-CPR4-H (Metric)	0.2mm-4mm

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

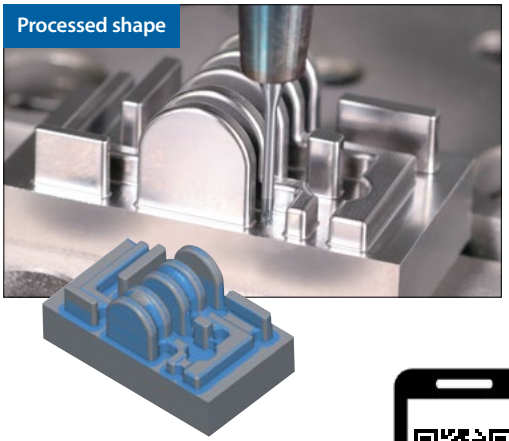
*Applicable to sizes with an outer diameter of φ1 or more and a corner R exceeding R0.1

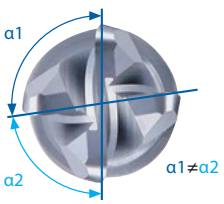
Suppresses Chatter

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 (Ø2xR0.3x20)
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

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