



A BRAND AE-ML-H

Carbide End Mills with Long LOC for Hardened Steels

Stable and High-Efficiency Milling of High-Hardness Steels

PRIMARY TARGETS

- Side milling hardened steel (up to 70 HRC).
- Stable tool life if super hard steels.
- Rough and finish milling of hardened steels.

SOLUTIONS

- Improved tool life, especially in material 60+HRC.
- Chatter-free machining and great surface quality.
- Extra stability and deflection resistance.

WHAT OUR CUSTOMERS SEE

- Shorter machine time on deep wall milling.

HOW DOES IT WORK?

Tough Cutting Geometry

- Appropriate for cutting hardened steel.

Variable Geometry

- Reduce likelihood of chipping due to excess vibration.

Durorey Coating

- Ideal for heat and chipping resistance.

Web Taper

- Suppress chattering.



osgtool.com

OSG USA, Inc. : 800-837-2223

OSG Canada, Ltd. : 905-632-8032 • OSG Royco (Mexico) : (52) 477 478-02-00

A Brand AE-ML-H

Advanced Performance Carbide End Mills with Long LOC for Hardened Steels

A Brand AE-ML-H

Multi-flute square type carbide end mills designed for stable and high-efficiency milling of high-hardness steels. With the addition of the new DUREY coating uniquely engineered for high-hardness steels, high chipping resistance is made possible even in work materials exceeding 60 HRC, allowing long tool life and high speed milling.



Features & Benefits

- **Variable Indexing** suppresses chattering.
- **Suppresses Chattering** for stable machining of high-hardness steels.
- **DUREY Coating** outstanding performance in high-hardness steels.
- **Web Taper Geometry of Core** Improves tool rigidity and prevents the machining surface from tilting.

List Numbers

8442 - A Brand AE-ML-H (Inch)
8542 - A Brand AE-ML-H (Metric)

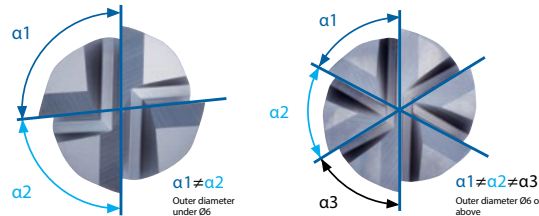
Size Range

1/8"-1/2"
3mm-12mm

Variable Indexing

Suppresses Chattering

For suppression of cutting vibration, enabling more consistent tool life and cutting quality.



Improved Rigidity

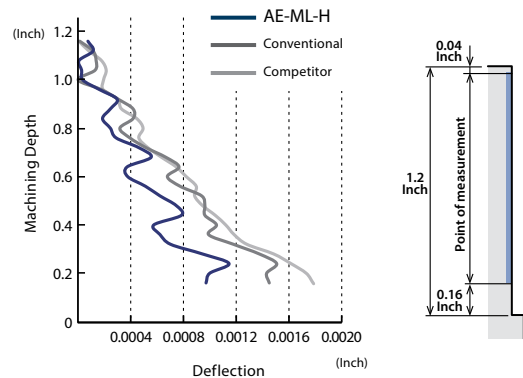
Improved Tool Rigidity with Web Taper Geometry

The web taper geometry, where the thickness of core changes from the cutting edge to the shank, greatly improves tool rigidity, thereby prevents the machining surface from tilting.

Tool	AE-ML-H (Ø10 6FL)
Work Material	STAVAX (51-52 HRC)
Milling Method	Side Milling
Cutting Speed	164 SFM (1,590 rpm)
Feed	26.3 IPM (0.00275 IPT)
Depth of Cut	Aa = 1.181", Ar = 0.0039"
Coolant	Air Blow
Machine	Horizontal Machining Center



The amount of deflection of the machined surface at cutting length of 138 linear inches



DUREY Coating

Outstanding Performance in High-Hardness Steels

Newest hard milling grade coating, for outstanding performance in high-hardened materials.



For more information use your phone to scan the QR code to the right and visit: osgtool.com/AE-ML-H



© Copyright 2021 OSG USA, INC. All rights reserved.
Printed in USA. EDP#800357CA

osgtool.com
OSG USA, Inc. : 800-837-2223

OSG Canada, Ltd. : 905-632-8032 • OSG Royco (Mexico) : (52) 477 478-02-00