



ECM Electrochemical Machining



EVO

Modular ECM system, featuring proprietary generator technology to enable electrochemical machining without stray machining

EVO allows customers to enjoy the highest surface finish quality for improved component performance. Reduced cycle time, improved energy efficiency, and lower running costs are among the benefits of increased market demand.

EVO is available in various standard layouts, and configurations, thanks to the system's modular design and construction. It is easy to configure and easy to integrate into modern production lines. For customers looking for specific machining operations, the machine integrates an interface for Dynamic ECM.

FEATURES and BENEFITS

- + Modular ECM system**
A 3-module configuration with independent workstations (single or dual cell), an electrical cabinet, and an electrolyte system.
- + Ergonomic design**
Specifically designed to meet the needs of the end user with features to reduce user fatigue and ensure ease-of-use.
- + Controlled production**
Online monitoring and control of all process-relevant parameters to ensure the best and most reliable results.
- + Fast setup and change of tooling**
Generously dimensioned machining area accommodates large workpieces and enables rapid tool change.
- + Environmentally-friendly design**
Built-in features provide protection against spillage, corrosion, and vapors.
- + Ease of automation and integration in production lines**
Defined interfaces are available as an option.





EXTRUDE
HONE®

TECHNICAL INFORMATION

EVO



SYSTEM CONFIGURATION

Footprint:	1600 x 2000 x 2850mm (W x D x H)
Workstation:	1300 x 3200 x 2650mm (W x D x H)
Electrolyte module:	800 x 1200 x 2000mm (W x D x H)
Electrical cabinet:	800 x 1200 x 2000mm (W x D x H)

Workspace:	1300 x 950 x 1060mm (W x D x H)
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Stainless steel design with finished surface.

Automatic fixture interface for all available Extrude Hone equipment. Automatic process parameter control for consistent machining quality. Siemens S7-300 Visual WIN CC Flexible.

Latest short-circuit monitor for minimised tool wear.

User-friendly touch panel with integrated tool menu for comprehensive machining data management.

Light curtain or sliding door on system front ensures operational safety during operation.

CONNECTION DATA • POWER

Power Rating	400 VAC 3P/N/PE 50 Hz
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Generator	3 kW up to >120 kW
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ACCESSORIES/OPTIONS

Exhaust fan with exhaust hood.

Catch-tray.

Interface for automation.

Conductivity measurement.

Modem services.

To optimise productivity and the entire process sequence in individual instances, we also supply various pre-treatment and after-treatment systems, as well as optional supplementary systems:

Advanced electrolyte cleaning device – Hydrom.

Filter presses for continuous purification of the electrolyte.

Industrial coolers for a constant supply of electrolytes.

After-treatment systems for cleaning and corrosion-proofing the workpieces.

NOTE: Upon request, the machine also is available with two working stations.

All systems comply with the applicable EU Machinery Directive governing machine safety and bear the CE mark. They also comply with accident prevention and the VDE and VDI regulations, as well as the requirements concerning electromagnetic compatibility regulations.



NOTE: Specifications and availability are subject to change without notice.

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