

ECM Electrochemical Machining



ECLINE

Individually configurable ECM system for improved efficiency in high-volume production

The ECLINE series is the perfect answer whenever burrs have to be specifically removed after turning, milling, grinding, honing, or reaming, as well as rounding edges or incorporating contours. The modular series is particularly suitable for machining medium to large-batch quantities of workpieces.

FEATURES and BENEFITS

- + **Individually configurable ECM system**
A modular design concept and various options create a tailor-made system.
- + **Ergonomic and user-friendly**
Specifically designed to meet the needs of the end user with features to reduce user fatigue and ensure ease of use.
- + **Fast setup and change of tooling**
Generously dimensioned machining area accommodates large workpieces and enables rapid tool change.
- + **Controlled production**
State-of-the-art control system stores and monitors all major process data.
- + **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.





SYSTEM CONFIGURATION

Compact system design with low space requirements – 1900 x 2100 x 2550mm (W x D x H).

Stainless steel design with finished surface.

Generous workspace of 1130 x 860 x 1080mm (W x H x D) for universal applications.

Automatic fixtures interface for all available EH equipment.

Automatic process parameter control for consistent machining quality. Siemens S7-300 Visual WIN CC Flexible.

Latest short-circuit monitor for minimized tool wear.

Generator from 3 kW up to >100 kW with pulse technology.

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.

Integrated three level program.

CONNECTION DATA • POWER

Power Rating 400 VAC 3P/N/PE 50 Hz

DC Generator 3 kW up to >100 kW

ACCESSORIES/OPTIONS

Exhaust fan with exhaust hood.

Set of cover panels.

Catch-tray.

Pulsed process current.

Interface for automation.

Conductivity measurement.

Tele service.

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

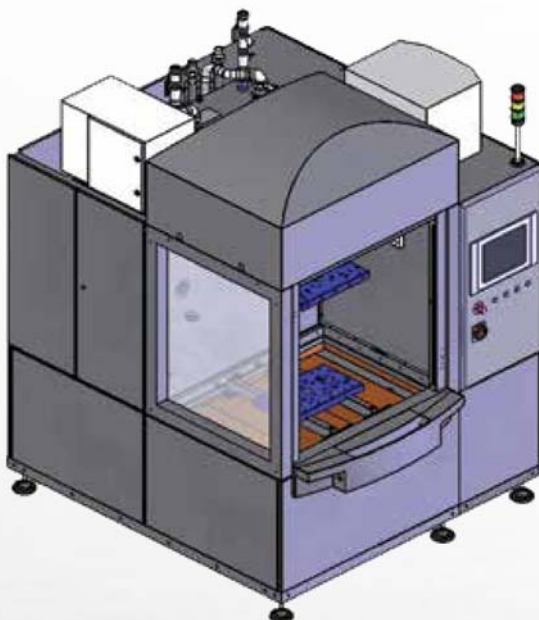
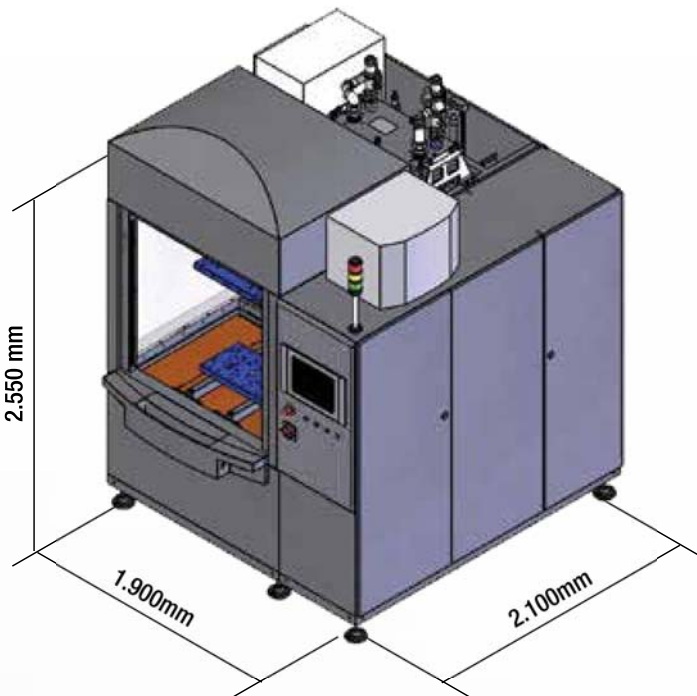
Filter presses for continuous purification of the electrolyte.

Industrial coolers for a constant supply of electrolyte.

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

Upon request the machine is also available with two working station.

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.



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

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