

ECLINE™



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

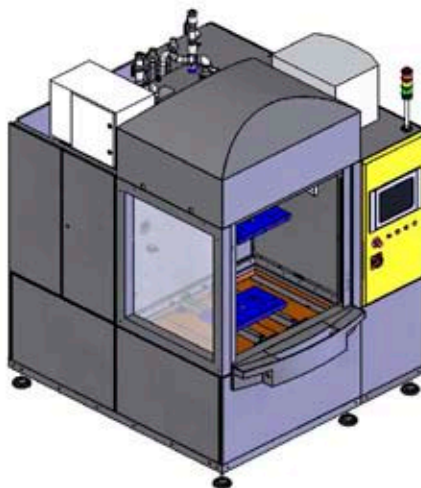
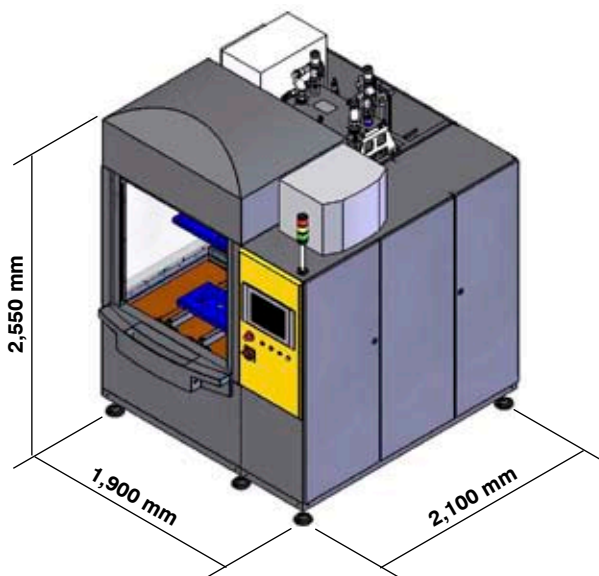
The ECLINE™ series is the perfect answer whenever burrs have to be specifically removed after turning, milling, grinding, honing or reaming, as well as rounding edges or incorporating contours. The modular series is particularly suitable for machining medium-to-large batch quantities of workpieces.

The modular design concept of the new “ECLINE” series allows for individualized configuration while providing reliability and long service life operation. The standard modules complement one another mechanically and electro-technically and are perfectly matched. With these modules, along with optional equipment available, the ECLINE series is a tailor-made system, customized to specific requirements.



System Features at a Glance:

- **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.



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

Electrical Specifications

The machine is PLC controlled and provided with a touch screen. With this device the operation mode can be easily changed from manual to automatic mode.

Electrical

Voltage 400 V AC
3P / PE / 50 Hz

Generator available from 3 kW
up to > 100 kW

Controls

Standard Siemens S7-300
Visual WIN CC Flexible

Connection Requirements

Water

Port 1/2"
Pressure < 6 bar

Maintains water level automatically via level switches and make-up feature.

Pneumatics

Port 3/8"
Pressure > 4,5 bar

All machines in this series comply with the applicable EU Directives governing machine safety and bear the CE mark. They also comply with accident prevention regulations and the VDE and VDI regulations, as well as the requirements concerning electromagnetic compatibility.

Subject to technical changes serving to improve the system and in line with technological progress.



Machine Specifications

Base unit: Single station machine (standard) without chamber filter press and additional options

Dimensions base unit 1,900 mm x 2,100 mm x 2,550 mm
(W x D x H)

Dimensions workspace 1,130 mm x 860 mm x 1,080 mm
(W x D x H)

Capacity of the electrolyte tank approx. 880 l

max. stoke approx. 500 mm

Dimensions between the base plate and the sleeve approx. 650 mm

Weight approx. 1,800 kg

Security

Light curtain or
Operation unit with sliding door

Accessories / Options

Exhaust fan with exhaust hood

Set of cover panels

Catch-tray

Pulsed process current

Interface for automation

Conductivity measurement

Modem services

To optimize 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, such as:

- 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