

ECM • Electrochemical Machining

CLASSIC



Economical production – for high quality products

The demands for better surface qualities and edge radiusing on machined components can be fulfilled only with fast and reproducible methods. The ECM process combines all of these methods for surface refinement (deburring, radiusing, polishing, marking, and contouring).

The attractively priced CLASSIC series presents a competitive alternative to the conventional machining methods, even for small- and medium-sized batches and provides you with all the benefits of the ECM process.



Features and Benefits

- **Low production costs**
The performance-based underlying concept (system, equipment, and chamber filter press) promises you low production costs during operations.
- **Process reliability**
The process controller continuously monitors the target/actual values of job relevant parameters for consistent machining quality.
- **Minimized tool wear**
Short circuit monitoring before and during the process minimises tool wear for reduced operating costs.
- **Low space requirements**
Compact, transportable unit with low space requirements.
- **Ergonomics and work safety**
Working chamber cover and light curtain are standard to ensure safety and ergonomics during operations.



Chamber filter press and options not shown.



System Configuration

- Compact system design with low space requirements 1700 x 1700 x 2500mm (W x D x H).
- System in stainless steel design with finished surface.
- Generous working chamber of 980 x 860 x 900mm (W x H x D) for universal applications.
- Automatic fixtures interface for all available KEH equipment.
- Automatic process parameter control for consistent machining quality.
- Latest short circuit monitor for minimized tool wear.
- Chamber filter press adapted to system performance and connected flexibly to the system for electrolyte conditioning (delivered as standard).
- Generator 450 A/43 V DC optional equipped with pulse technology.
- User-friendly touch panel with integrated tool menu for comprehensive machining data management.
- Working chamber cowl with interface to exhaust air network (installed at the factory) – optional air cleaner expansion.
- Light curtain on system front ensures operational safety during operation.
- Integrated three level program for combining various modes in one cycle.

Accessories/Options

- Suitable preliminary and follow-up treatment conditioning the components for the next process.
- Adaptation to national specifications (supply voltage, frequency, etc).
- Floor pan for collecting dripping liquids.
- Pulsed direct current for surface refinement processes.
- Remote maintenance for minimised production downtimes.
- Conductivity measurements on the electrolyte.
- Air cleaner.
- Industrial cooler.
- Automatic reduction of chromates.

Connection Data • Power

power rating:	400 VAC 3P/N/PE 50 Hz
installed capacity:	30 kVA
max dc power:	450 A / 43 V
current:	10–450 A
voltage:	3–43 V

The system complies with the applicable EU Machinery Directive, bears the CE symbol, and also fulfils the accident prevention, VDE, VDI, and EMC regulations.

We reserve the right to modify our specifications for the purpose of improving system properties and ensuring technical progress.

Technical specification may change.

