

PRODUCT DATA SHEET

## ECM Electrochemical Machining



# CLASSIC

## Economical production – for high quality products

The demand 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

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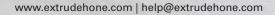
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Short circuit monitoring before and during the process minimises tool wear for reduced operating costs.

- + 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.





**TECHNICAL INFORMATION** 









Chamber filter press and options not shown.

#### SYSTEM CONFIGURATION

Compact system design with low space requirements 1700  $\times$  1700  $\times$  2500mm (W  $\times$  D  $\times$  H).

System in stainless steel design with fi nished surface. Generous working chamber of  $980 \times 860 \times 900$ mm (W x H x D) for universal applications.

Working table height of 935mm (without fi xtures).

Automatic fi xtures interface for all available EH equipment.

Automatic process parameter control for consistent machining quality.

Latest short circuit monitor for minimized tool wear. Chamber fi Iter press adapted to system performance and connected fl exibly to the system for electrolyte conditioning (delivered as standard).

Generator 450 A/43 V DC optional equiped 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.

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