

ECO+ Electrochemical Machining



ECO+

Modular Entry Level ECM machine

With the new modular ECM entry level machine concept, EXTRUDE HONE offers the flexibility its customers need to get exactly the right equipment to run their ECM applications.

One modular system with five different packages helps you to configure the machine to fit your requirements.

Standardized packages reduce delivery time while offering high modularity. This means you don't have to pay for unnecessary options without affecting the quality of your ECM'd parts.

FEATURES and BENEFITS

Extrude Hone's newest generator technology
 Profit of our state-of-the-art generator technology which allows you using modern pulse patterns to improve parts quality.

+ Highest flexibility

Modular concept offering up to 750 A generator power, idT process control, full automatic process fluid control, and more.

+ Process control

State-of-the-art control system stores and monitors all major process data.

+ Minimized operating costs

Short circuit control before and monitoring during the process reduces tool wear and reduces parts damage.

+ Make it easy

With our pre-defined configuration packages you can easily configure the machine as it fits best to your requirements - without paying for unnecessary features.





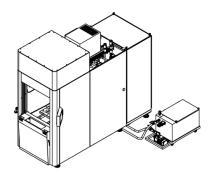
TECHNICAL INFORMATION

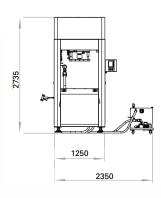
ECO+

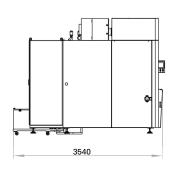




MACHINE SPECIFICATIONS







Machine layout and appearacne is subject to change without further notice.

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Supply voltage	400 V AC/3 Ph/N/50 Hz
Generator type	RLI; aut. short circut control; DC & Pulse mode
Min. process power	Connected load 25 kVA / sec. current 250 A / voltage 60 V
Max. process power	Connected load 51 kVA / sec. current 750 A /voltage 60 V

ELECTROLYTE & FILTRATION

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Electrolyte tank	V = 750 I (198 gal)
Basic Filtration System	2 filter cartridges Filter surface area 29 m² (312 ft²)
Chamber Filter Press ECO	15 filter plates Filter surface area 5 m² (53.8 ft²)
Chamber Filter Press	19 filter plates Filter surface area 6.3 m² (67.5 ft²)

NaCl or NaNO₃

PNEUMATICS

Electrolyte

Min. input pressure	6 bar (87 psi) at < 5 m³/h (177ft³/h)	
Connection	3/8" thread	
Minimum pressure monitoring; maintenance unit		

TRANSPORTATION

Machine weight	from 1300 kg to 1800 kg

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

OPERATOR SAFETY

Safety Options	Lifting Door, Light Curtain,
outory options	2-Hand Start

CONTROLS

Programmable Logic Controller (PLC)	Siemens S7-1500
Operator interface	Simatec HMI TPI 700 Comfort Panel 7"

PACKAGES

Productivity Package	
Comfort Package	
Power Package	
Media Control Package	
Rinsing Trench	

OPTIONS

Automation interface		
Turntahla		

Cr (VI) Unit

Catch tray for machine & filtration

Rinsing / preserving reservoir for post-treatment

Country-specific customization

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: Refer to ECO+ on the webpage for process methods.