

AFM Abrasive Flow Machining



ECOFLOW

The versatile answer to Abrasive Flow Machining on a budget

The ECOFLOW series machines are specifically designed for the small die maker or job shop owner. It is the ideal economical alternative for processing carbide dies for precise and repeatable surface finish improvement as well as short-run polishing and radiusing of surfaces and edges of critical components. ECOFLOW is the solution when there can be no compromise in edge and surface improvement conditioning.

The ECOFLOW machine uniformly smooths and blends in features, automatically and controllably, to the same quality level as its larger counterparts in the Extrude Hone AFM Product Portfolio. AFM technology can consistently finish internal curved and complex surface locations which are unreachable by any other means.

FEATURES and BENEFITS

- + **Media cylinder**
Available with different size of media cylinders: 80mm (3.15") or 100mm (3.8").
- + **Media stroke**
Stroke is 250mm (9.8").
- + **Media flow rate and pressure**
Flow rates are between 5,1 L/min and 8,0 L/min and pressure respectively between 156 bar (2263 psi) and 100 bar (1450 psi).
- + **Clamp system**
Fully hydraulic with clamp system with interval of 295mm (11.6").
- + **Control panel**
Equipped as standard with Siemens touchscreen HMI.





TECHNICAL INFORMATION

AFM ECOFLOW



MACHINE SPECIFICATIONS

Dimensions:

(W x D x H)	810 x 1461 x 2250mm (31.9 x 57.5 x 88.6")
Weight	1025 kg (2255 lbs)
Table height	1058mm (41.6")
Working area surface (W x D)	810 x 838mm (32 x 33")
Maximum weight supported by the table	100 kg (220 lbs)

Clamping System:

Stroke	300mm (11.8")
Max opening	295mm (11.6") without tooling plates
Min opening	0mm (0") without tooling plates

Media System:

Media cylinder diameter	80mm (3.15")	100mm (3.8")
Media stroke length	250mm (9.8")	
Media capacity	1,3 L/2.4 kg (77 cu.in.)	2 L/3.8 kg (120 cu.in.)
Min media pressure	34 bar (493 psi)	24 bar (348 psi)
Max media pressure	156 bar (2263 psi)	100 bar (1450 psi)
Media flow rate	5.1 L/min (1.4 GPM)	8.0 L/min (2.1 GPM)

Hydraulic Unit:

Maximum pressure	140 bar (2030 psi)
Pump flow rate	8L/min (2.11 GPM)
Tank capacity	100 l (26 gal)

ELECTRICAL SPECIFICATIONS

The machine is PLC controlled with Siemens PLC.
Equipped with A 7" Siemens touchscreen.
Electrical (EU and Asia) 400 VAC, 3 Phase +N +PE, 50 Hz.
Electrical (North America) 230/460 VAC, 3 Phase, 60 Hz.
Control 24VDC.
Installed power/ampereage peak 3 kVA/6A.
Status light: Red – Amber – Green

MACHINE FEATURES

Optimized aluminum extrusion frame construction maximizes strength while minimizing weight. ECOFLOW is easily moved with a standard pallet jack and is designed to fit through a normal mandoor.

AVAILABLE OPTIONS

Autoflow controls
Light curtain protection
Mitsubishi PLC and HMI



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