

# 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 4,1 L/min and 6,5 L/min and pressure respectively between 207 bar (3000 psi) and 140 bar (2000 psi).
- + **Clamp system**  
Fully hydraulic with clamp system with interval of 250mm (9.8").
- + **Control panel**  
Equipped as standard with Siemens touchscreen HMI.





# TECHNICAL INFORMATION

## AFM ECOFLOW



### MACHINE SPECIFICATIONS

#### Dimensions:

(W x D x H)	809 x 1367 x 2121mm (31.9 x 53.8 x 83.5")
Weight	910 kg (2000 lbs)
Table height	1050mm (41.3")
Working area surface (W x D)	809 x 838mm (32 x 33")
Maximum weight supported by the table	100 kg (220 lbs)

#### Clamping System:

Stroke	250mm (9.8")
Max opening	250mm (9.8") 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/1,7 kg (77 cu.in.)	2 L/2,6 kg (120 cu.in.)
Min media pressure	34 bar (500 psi)	24 bar (350 psi)
Max media pressure	207 bar (3000 psi)	140 bar (2000 psi)
Media flow rate	4.1 L/min (1.09 GPM)	6.5 L/min (1.71 GPM)

#### Hydraulic Unit:

Maximum pressure	140 bar (2000 psi)
Pump flow rate	6,5 L/min (1.71 GPM)/8 L/min (2.11 GPM)
Tank capacity	50 l (11 gal)



### ELECTRICAL SPECIFICATIONS

The machine is PLC controlled with Siemens PLC.  
 Equipped with A 5.7" 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 10 kVA/25A.  
 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
- Cooling cup

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