SPECTRUM

Wide Range of Capabilities

The SPECTRUM Series abrasive flow machine offers a broad range of process capabilities with a selection of media cylinder diameters ranging from full pressure 12” (300mm) models, to lower pressure 24” (600mm) versions.

The SPECTRUM Series machines are available in designs that can be built to meet any production requirements. Many options are available, such as Internal Media Refeed Systems, Rotary Tables, Automatic Process Control and Programming, Media Cooling Units, Workpiece Handling Systems, Customized Work Platforms, and many others.

FEATURES and BENEFITS

+ **AUTOFLOW™ advanced control option**
  For maximum process control. State-of-the-art control system stores and monitors all major process data.

+ **Media temperature management options**
  Controlling the temperature of the abrasive media gives a more consistent machining rate.

+ **Individually configurable AFM system**
  Various options create a tailor-made system.

+ **Fast setup and change of media**
  Generously dimensioned work envelope for large workpieces and rapid tool change.

+ **All process data at a glance**
  Touch screen interface for easy operation and setup.

+ **10.4” touch screen HMI**
  Enables to save multiple processing parameters as required for ease of use and quick recall in the manufacture of multiple customer parts.
AFM SPECTRUM

TECHNICAL INFORMATION

SYSTEM CONFIGURATIONS

<table>
<thead>
<tr>
<th>Media Cylinder Diameter</th>
<th>Hydraulic Cylinder Diameter</th>
<th>Standard Media Stroke Length</th>
<th>Media Capacity</th>
<th>Hydraulic Flow Rate</th>
<th>Media Flow Rate</th>
<th>min/max Media Pressure</th>
<th>Standard Power Unit</th>
<th>Optional Extended Lower Media Cylinder</th>
<th>Additional Media Volume With Extended Cylinder</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECTRUM 12/8/8</strong></td>
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<tr>
<td>12&quot; (305mm)</td>
<td>8&quot; (200mm)</td>
<td>12.5&quot; (320mm)</td>
<td>1413 cu. in.</td>
<td>15 GPM (57 L/min)</td>
<td>34 GPM (129 L/min)</td>
<td>155/800 psi (11/55 bar)</td>
<td>20 hp** (15 kW)</td>
<td>yes</td>
<td>680 cu. in. (11,1 l)</td>
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<td><strong>SPECTRUM 16/8/10</strong></td>
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<tr>
<td>16&quot; (405mm)</td>
<td>8&quot; (200mm)</td>
<td>15&quot; (380mm)</td>
<td>3016 cu. in.</td>
<td>15 GPM (57 L/min)</td>
<td>151 GPM (571 L/min)</td>
<td>100/650 psi (7/31 bar)</td>
<td>20 hp** (15 kW)</td>
<td>Standard</td>
<td>2200 cu. in. (36 l)</td>
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<tr>
<td><strong>SPECTRUM 16/12/12</strong></td>
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<tr>
<td>16&quot; (405mm)</td>
<td>12&quot; (305mm)</td>
<td>15&quot; (380mm)</td>
<td>3016 cu. in.</td>
<td>30 GPM (113,5 L/min)</td>
<td>58,5 GPM (221 L/min)</td>
<td>222/1000 psi (14/68 bar)</td>
<td>40 hp (30 kW)</td>
<td>Standard</td>
<td>2200 cu. in. (36 l)</td>
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<tr>
<td><strong>SPECTRUM 24/12/12</strong></td>
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<tr>
<td>24&quot; (610mm)</td>
<td>12&quot; (305mm)</td>
<td>15&quot; (380mm)</td>
<td>6780 cu. in.</td>
<td>30 GPM (113,5 L/min)</td>
<td>120 GPM (454 L/min)</td>
<td>100/500 psi (7/25 bar)</td>
<td>40 hp (30 kW)</td>
<td>Standard</td>
<td>4070 cu. in. (66,7 l)</td>
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</tbody>
</table>

* Also available in 18" media cylinder stroke as an option.
An 18" media stroke provides more media to pre-fill tooling fixture.

** An optional 40 hp (30 kW) power unit also available.

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

STANDARD POWER UNIT

Reservoir 80 gal (300 l)

Pump capacity 15 GPM (56.8 L/min)

Pressure 350–2000 psi (24–138 bar)

ELECTRICAL

Voltage 230/460 VAC 60 Hz
400 VAC 50 Hz

Motor 20–40 hp (14.9–29.8 kW)

Peak amperage 25–100 amps

CLAMP CYLINDERS

Bore diameter 8-12” (200–300mm)

Stroke 28–40” (700–1.000mm)

CONTROLS

Standard controller Allen Bradley (US) Siemens (EU)

OPTIONS

The SPECTRUM Series is designed to be built to meet any production requirements,

Workstands
Media Coolers
Rotary Tables
Custom Part Handling Systems
Media Refeed Systems
Tooling Carts
Custom Bezels
Custom Controls & Programming
Swing Arms

APPROXIMATE WEIGHT

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
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<tbody>
<tr>
<td>12/8/8*</td>
<td>12,000 lbs (5,500 kg)</td>
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<tr>
<td>16/8/10</td>
<td>20,000 lbs (9,000 kg)</td>
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<tr>
<td>16/12/12</td>
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</tr>
<tr>
<td>24/12/12</td>
<td>20,000 lbs (9,000 kg)</td>
</tr>
</tbody>
</table>

www.extrudehone.com | help@extrudehone.com