105-HV
Dual Servo Drive Meter System

Positive Rod Displacement, Variable Ratio Meter, Mix, and Dispense System

System Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metering Principle</td>
<td>Positive Rod Displacement</td>
</tr>
<tr>
<td>Drive Type</td>
<td>Dual Servo</td>
</tr>
<tr>
<td>Material Delivery</td>
<td>Shot or Bead</td>
</tr>
<tr>
<td>Shot Size Range</td>
<td>Up to 540 cc at 1:1 Ratio</td>
</tr>
<tr>
<td>Ratio Range</td>
<td>1:1 up to 10:1</td>
</tr>
<tr>
<td>Viscosity Range</td>
<td>Liquid to Paste</td>
</tr>
<tr>
<td>Supply Type</td>
<td>Pump or Tank</td>
</tr>
</tbody>
</table>

Application Solutions
- Aircraft and Aerospace
- Appliance
- Battery
- Construction
- Electronics and Electrical
- Filters
- Lighting and LED
- Solar and Wind Power

Benefits
- **Longer Lifespan**
  - Heavy duty packings and seals minimize wear and increase lifespan for dispensing abrasive and heavily filled materials
  - Hardened meter rods never touch meter cylinder walls to reduce the need for preventative maintenance over time
- **Quality Dispensing**
  - Positive rod displacement metering combined with dual servo drive technology proportions materials to the manufacturer’s exact volumetric ratio
  - Controlled flow rate and mixed material dispense volumes meet customer specifications
- **Exact Consistency**
  - Power inlet valve eliminates material bypass to ensure ratio precision and consistency
- **Dual Servo Drive**
  - Variable ratio programmable via HMI
  - Allows for independent material system pre-pressure to application point
  - Programmable pause-reload technology eliminates system cavitation

Features
- Constant or variable flow rate
- Constant or variable bead diameter
- Shot size and flow rate adjustment using HMI
- Low cost repair and easy maintenance
- Does not use check valves
- Uses roller screw technology instead of ball screw
- Less exposure to off ratio conditions
- Uses electronic pressure monitoring to ensure consistent process parameters part to part
- Real time material ratio bar graph display
- Real time system pressure bar graph display
- Up to 255 programmable dispense volumes
- 4 segment dispense volume control
- Ideal for bead or potting applications
- Ideal for higher viscosity materials and larger dispense volumes
System Specifications*

<table>
<thead>
<tr>
<th>Ratio</th>
<th>Volume (max)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>540 cc’s</td>
</tr>
<tr>
<td>2:1</td>
<td>405 cc’s</td>
</tr>
<tr>
<td>4:1</td>
<td>338 cc’s</td>
</tr>
<tr>
<td>6:1</td>
<td>315 cc’s</td>
</tr>
<tr>
<td>8:1</td>
<td>300 cc’s</td>
</tr>
<tr>
<td>10:1</td>
<td>290 cc’s</td>
</tr>
</tbody>
</table>

*Estimate only. Material ratios and viscosities will affect actual meter capability. Consult your Nordson representative with application specifics for accurate meter capabilities.

Technical Data

- Height (A): 78” (198 cm)
- Depth (B): 26” (66 cm)
- Width (C): 52” (132 cm)
- Weight: 920 lbs (417 kg)
  Machine only, without material, valves, fittings, hoses, etc.

Available Options*

- Floor mount stand
- Can be combined with -MV or -LV models

*Consult your Nordson representative for additional options.