JetStream
Automated Cartridge Dispenser

Improve quality, consistency and production speed with the efficient application of sealant from pre-mixed cartridges
Benefits of automated dispensing on aircraft structures:

- **Eliminate rework** – significantly reduce process time through robotic application of accurately metered material, for assured quality every time.
- **Automate a manual process** – consistent and accurate automatic application increases production first-pass quality and reduces material costs and unnecessary structure weight.

JetStream Features

- **Precision piston seal design** prevents wasted material and maximizes usage per cartridge
- **Cartridge containment design** limits impact of cartridge dimensional inconsistencies from the material manufacturer
- **System monitoring for full process control**:  
  - **Material level** – to prevent mid-application cartridge changeover  
  - **Time** – real-time monitoring of material pot life  
  - **Temperature** – to ensure consistency of material viscosity  
  - **Pressure** – for consistent bead size, and preventing material damage  
  - **Valve positions** – for automatic load / unloading of cartridges and system status / readiness interface signals
- **Quick cartridge change**:  
  - Changeover from a used cartridge to a new cartridge is completed in seconds, further reducing downtime and overall cycle time
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For pre-mixed materials in applications such as:

- Wing spar and panel sealing
- Fuselage sealing
- Aircraft door and panel sealing
- General bonding and sealing applications

Choose from three interchangeable applicator designs, for maximum versatility

**BA – Brush Applicator**
- Suitable for the application of priming materials
- Adjustable application speed from 100 to 900 rpm
- Brush sizes designed to application

**SA – Sealant Applicator**
- Suitable for the application of sealant materials
- Various profiles, small to large, to fit your desired bead or fastener.
- Interchangeable nozzle tips
- Cleanable, re-usable design

**SA-EZ – Sealant Applicator**
- Suitable for the application of sealant materials
- Various profiles, small to large, to fit your desired bead or fastener.
- Interchangeable nozzle tips
- Disposable fluid section for ‘EZ’ changeover

*system shown without applicator*
# Technical Specification

## JetStream Automated Cartridge Dispenser

<table>
<thead>
<tr>
<th>Feature</th>
<th>BA</th>
<th>SA</th>
<th>SA-EZ</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating Fluid Pressure</strong></td>
<td>400 PSI (27.6 Bar)</td>
<td>400 PSI (27.6 Bar)</td>
<td>400 PSI (27.6 Bar)</td>
</tr>
<tr>
<td><strong>Cartridge Type</strong></td>
<td>Semco 12 oz</td>
<td>Semco 12 oz</td>
<td>Semco 12 oz</td>
</tr>
<tr>
<td><strong>Air Requirements</strong></td>
<td>80 – 100 PSI (5.5 – 6.9 Bar)</td>
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</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>230 vrms and 24 vDC</td>
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</tr>
</tbody>
</table>

### Physical Size

<table>
<thead>
<tr>
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<th>BA</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>50.5 in (1282 mm)*</td>
<td>11.8 in (299 mm)</td>
<td>8.6 in (218 mm)</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>10.0 in (254 mm)</td>
<td>11.3 in (287 mm)</td>
<td>8.7 in (221 mm)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>10.8 in (275 mm)</td>
<td>8.9 in (226 mm)</td>
<td>8.9 in (226 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>78.5 lbs (35.6 kg)</td>
<td>17.93 lbs (8.13 kg)</td>
<td>13.25 lbs (6.0 kg)</td>
</tr>
</tbody>
</table>

### Cartridge Containment

- Cartridge containment and plunger assembly designed for specific applications
- Robotically controlled load and ejection of cartridge

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Nordson SEALANT EQUIPMENT
28775 Beck Road
Wixom, MI, 48393
USA

Phone: +1.248.412.7920
www.nordson.com/nse

Find your local Nordson office:
www.nordson.com/icslocations

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