Product Information: Dispensing Cell DC-CNC800

Compact and flexible – the new dosing system for dynamic sealing, encapsulating, and bonding

Your Advantages

Compact design
- Integrated control cabinet
- Safety housing with real glass windows
- High-speed linear axis system
- 2K-material conditioning on carriage for easy maintenance

Controls
- Sinumerik 840D Solution Line with operating panel OP08
- Quick and flexible programming of different parts through recipe management
- Integrated process controls

High flexibility
- Compatible with all available RAMPF mixing and dispensing systems
- Flexible automation solutions - from manual to automatic part loading

Accurate metering
- Highly precise metering close to the mixing system
- Servo-driven gear pumps
- Short hoses between metering pumps and mixing head for highest accuracy
Dispensing Cell DC-CNC800

Product Details
The DC-CNC800 is the compact solution with minimum space requirements. It combines flexibility and dynamics for 2D- or 3D-dispensing of sealants, adhesives, and resins. State of the art control technology combines dispensing technology with the precision of a linear robot. The modular control is designed for fast and simple integration into any production system.

Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Flow rate, mixing ratio, viscosity</td>
<td>depends on installed mixing system</td>
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<tr>
<td>Max. travel speed</td>
<td>X, Y = 60 m min⁻¹, Z = 40 m min⁻¹</td>
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<tr>
<td>Max. acceleration</td>
<td>10 m s⁻²</td>
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<td>Repeatability</td>
<td>&lt; 0.10 mm (ISO 9283)</td>
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<tr>
<td>Controls</td>
<td>Siemens Sinumerik 840D SL</td>
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<td>Dispensing programs</td>
<td>max. 512</td>
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<tr>
<td>Electrical supply</td>
<td>400 V / 16–32A / 50 Hz (60 Hz)</td>
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<tr>
<td>Power consumption</td>
<td>5.5–12 kW</td>
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<tr>
<td>Compressed air supply</td>
<td>&gt; 5 bar at max. flow 800 l min⁻¹</td>
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<tr>
<td>Compressed air consumption</td>
<td>5–20 l min⁻¹</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 2200 kg</td>
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<tr>
<td>Work area</td>
<td>X, Y, Z = 800, 400, 200 mm</td>
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Options (more upon request)
- HP rinse recycling system or HP water rinsing system
- Nucleation controller for air load controls of gasket materials
- Material recirculation system and temperature controller
- Automatic thin-film degassing for bubble-free potting
- Various automation equipment available (rotary index tables, shuttle tables, conveyor lines, customized automation)
- Individual process monitoring and visualization
- 12" colour display, process data collection, interfacing to customers’ PPS
- Integrated shot-weight scale, nozzle check station, nozzle cleaning station

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