781RC MicroMark Recirculating Spray Marking System

For use with marking inks, paints, and other fluids that separate

The 781RC MicroMark® Recirculating Spray Marking System produces uniform round patterns and stripes from 5.0 mm to 30.4 mm (0.20" to 1.20") wide without clogging or overspray.

This unique marking system eliminates the clogging, maintenance, and downtime encountered with standard marking systems by using a recirculating pump to keep pigments in suspension and a programmable air delay after each cycle to clean the spray nozzle.

This MicroMark system can be used to color-code similar components, indicate pass/fail, or show production or test status. It can be activated manually, or interfaced with other systems to mark at scheduled intervals.

Features
• No clogging, dripping, or drying out
• Keep pigments in suspension
• No missed shots
• Consistent size and placement
• Cycle rate exceeds 400/minute
• No mist or overspray
• Low-maintenance design

“The MicroMark is a virtually maintenance-free ink marking system that is easy to adjust. It is the standard marking system on every new balancing machine we produce.”

Schenck Turner Inc.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>7013915</td>
<td>781RC-SS System, 0.36 mm (0.014&quot;) diameter nozzle</td>
</tr>
<tr>
<td>7013769</td>
<td>781RC-SS System 0.71 mm (0.028&quot;) diameter nozzle</td>
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more info
MicroMark 781RC Valve

The precision spray valve features a nozzle with 0.7 mm (0.028") orifice and adjustable needle stroke for applying consistent marks 5.0 mm to 30.4 mm (0.20" to 1.20") in diameter.

Adjustable Low Volume Low Pressure (LVLP) nozzle air transfers fluid from the nozzle to the part at low velocity with high transfer efficiency.

Size: 104.6 x 26.9 mm diameter (4.12 x 1.06")
Weight: 235.3 g (8.29 oz)
Actuating air pressure required: 4.8–6.2 bar (70–90 psi)
Maximum input fluid pressure: 20.7 bar (300 psi)
Fluid inlet thread: 1/8 NPT female
Mounting: 1/4-28 UNF tapped hole or adjustable mounting block
Cycle rate: Exceeds 400 per minute
Air cylinder body: Type 303 stainless steel
Fluid body: Type 303 stainless steel
Air cap: Type 303 stainless steel
Piston: Type 303 stainless steel
Needle and nozzle: Type 303 stainless steel
Needle packings: PTFE
All stainless steel valve parts are passivated.

MicroMark Controller

Valve open time is the primary control of deposit size. The MicroMark controller adjusts valve open time and nozzle pressure. It puts push-button adjustment of valve open time where it needs to be — near the valve.

- Multi-valve control — up to two (2) spray valves
- Partner to Programmable Logic Controller (PLC)
- Easy deposit size control
- Precise control of nozzle air pressure
- Nozzle air delay for clog-free operation
- Increased production output
- End user convenience
- Maximum machine efficiency

Fluid Reservoirs

The MicroMark system includes a 1.0 liter tank reservoir and one polyethylene liner. The tank features full cover removal for easy liner replacement or to place a bottle into this top-ported tank.

Automated Dispensing Systems

Nordson EFD automated dispensing systems deliver market-leading repeatability and accuracy in fluid placement and positioning. Specialized dispensing software simplifies setup and programming. Optimize dispensing results with features such as laser height sensing and smart vision CCD cameras.

Spray Area Coverage (Round Pattern)

<table>
<thead>
<tr>
<th>Model</th>
<th>Nozzle Diameter</th>
<th>Nozzle Distance from Surface</th>
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<tbody>
<tr>
<td></td>
<td>25.4 mm (1&quot;)</td>
<td>50.8 mm (2&quot;)</td>
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<tr>
<td></td>
<td></td>
<td>76.2 mm (3&quot;)</td>
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<tr>
<td></td>
<td></td>
<td>152.4 mm (6&quot;)</td>
</tr>
<tr>
<td>781RC-14</td>
<td>0.36 mm (0.014&quot;)</td>
<td>4.32 mm (0.17&quot;)</td>
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<tr>
<td></td>
<td>8.64 mm (0.34&quot;)</td>
<td>12.70 mm (0.50&quot;)</td>
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<tr>
<td></td>
<td>25.40 mm (1.00&quot;)</td>
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<tr>
<td>781RC-28</td>
<td>0.7 mm (0.028&quot;)</td>
<td>5.0 mm (0.20&quot;)</td>
</tr>
<tr>
<td></td>
<td>10.1 mm (0.40&quot;)</td>
<td>15.2 mm (0.60&quot;)</td>
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<tr>
<td></td>
<td>30.4 mm (1.20&quot;)</td>
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