Variable Pitch Module SVPM - 8
Flexible Pipetting System

The new Festo Single Axis Variable Pitch Module (SVPM) is an ideal solution for common applications such as lab sample preparation or a variety of packing applications. The mechanical linkage of the SVPM permits pitch adjustment from a minimum of 9 mm to a maximum of 50 mm. In the preparation of lab samples individual pipettes can easily be mounted to each of the eight fingers. By using this configuration 8 pipettes can aspirate or dispense from a 96 well plate (8 x 12) at a 9 mm pitch, then expand to a different pitch, as required by the application to aspirate or dispense into a large variety of fluid containers such as tubes, chips or vials up to a 50 mm pitch.

**Features**
- Modular configuration allows for custom solution to meet your application
- Electric or pneumatic actuation options available
- Electric actuation offers the flexibility of using Festo stepper, servo, or 3rd party motor

**Benefits**
- Increase throughput by further automating sample preparation
- Clean & compact design, well suited for laboratory setting
- Easily mount an X/Y/Z-axis to this assembly for complete automated solution

**Typical Applications**
- Transfer samples to or from a 96-well plate, test tube, chip or vials of any footprint or array
- Automate your sample diluting or sample concentrating methods
- Applicable to other small parts handling processes
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Powerful and precise
The precise recirculating bearing rails and pucks ensure precise motion (straightness and repeatability) less than 0.03 mm.

One-dimensional spreading
Handle the aspirating and dispensing of 8 samples at once, allows for the transfer between two arrays with uniform pitch, each having a different center-to-center distance.

Expandable to two-dimensional spreading
Increase your throughput by adding multiple pipette rows and spreading modules in both X & Y axes (patent pending).

<table>
<thead>
<tr>
<th>Type</th>
<th>Base module SVPM-8</th>
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</thead>
<tbody>
<tr>
<td>Dispensing range pitch:</td>
<td>9 mm - 50 mm</td>
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<tr>
<td>Rail:</td>
<td>Recirculating ball bearing rail and slide</td>
</tr>
<tr>
<td>Repeatability:</td>
<td>&lt;0.03 mm</td>
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<tr>
<td>Straightness:</td>
<td>&lt;0.01 mm</td>
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<tr>
<td>Payload per finger:</td>
<td>0.5 Kg vertical, 0.1 Kg horizontal</td>
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<tr>
<td>Number of fingers:</td>
<td>8 (others upon request)</td>
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Subject to change