Planar surface gantry EXCM

Solutions for Benchtop Automation

An extremely compact design for a maximized workspace. The kinematic concept ensures low moving masses and fixed motor arrangement substantially reduces the requirement for cable management. The pre-parameterized drive unit EXCM-ST simplifies application configuration and commissioning.

Design principle
EXCM can approach any position within its workspace. The recirculating toothed belt, driven by fixed motors, moves the slide within a two-dimensional area.

Kinematic and Drive Package
The dual axis ServoLite drive internally transforms the X-Y coordinates and provides servo control of both motors.

Flexible Control Modes
I/Os for simple control of up to 32 positions. Integrated CANopen and Ethernet for flexible position and velocity data transfer from a PLC or PC.

EXCM-10
This inexpensive, compact gantry employs plain brush bearings for a cost effective handling solution for applications involving light payloads with low dynamic demands.

EXCM-30
Well suited for assembly and handling of small parts with payloads of up to 3 kg. The EXCM-30 is scalable and configurable model in the mini gantry series. The convenient mounting holes on the slide unit allows for the addition of a third axis for 3D positioning tasks.
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Wide range of possible applications

**Laboratory processes**
EXCM-10/EXCM-30 is ideal for applications in pre- and post-analytical laboratory processes:
1. Sample preparation and transport, identification of samples by means of barcode scanners, or to open and close containers
2. Sample distribution on test systems such as Microtiter® plates
3. Post-analytical processes such as incubation, dispensing and archiving

**Small parts assembly and electronics industry**
The EXCM-30 is the ideal answer to the requirements of small parts assembly and electronics production. Significantly improve productivity by automating small parts handling. Reduce machine footprint by employing compact solutions.

Possible applications:
- Feeding, screwing and mounting of small components
- Setting adhesive points
- Electronic tests: approach to contact points, resistance tests
- Flexible positioning of workpieces and components
- Palletting/depalletting operations
- Desktop production/assembly

Technical data

<table>
<thead>
<tr>
<th></th>
<th>EXCM-10</th>
<th>EXCM-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke X axis [mm]</td>
<td>150, 260, 300, 360, 460, 700</td>
<td>Standard: 100, 150, 200, 300, 400, 500 On request: 90 ... 700</td>
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<tr>
<td>Stroke Y-axis [mm]</td>
<td>110</td>
<td>110, 160, 210, 260, 310, 360</td>
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<tr>
<td>Max. working load [kg]</td>
<td>0.5</td>
<td>3</td>
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<tr>
<td>Max. speed [m/s]</td>
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<tr>
<td>Max. acceleration [m/s²]</td>
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<td>10</td>
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<tr>
<td>Repetition accuracy [mm]</td>
<td>± 0.1</td>
<td>± 0.05</td>
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<tr>
<td>Positioning accuracy [mm]</td>
<td>± 0.5 absolute</td>
<td>± 0.5 absolute</td>
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</tbody>
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