All-Axis Servo Driven Traverse Type Take-Out Robot

YCII-100S/D, YCII-150S/D, YCII-250S/D

Features

80–300 tf

3/5-axis

Single support type

Reduced overall height type

On robot body

E-touch compact-YC

All-Axis Servo Driven Take-Out Robot for Energy-Smart Manufacturers

Compared to older models, YC series robots benefit from much lighter components and structures by incorporating design optimization technology. This weight reduction results in significantly better energy efficiency and longevity. Design optimization also targeted factors like natural oscillation and damping characteristics to greatly reduce arm vibration. The YC II-100/150/250 is sized for 80–300 tf molding machines.

All-Axis Servo Driven Take-Out Robot

E-touch compact-YC

E-touch compact-YC

Standard Specifications

<table>
<thead>
<tr>
<th>Power source</th>
<th>Driving method</th>
<th>Control method</th>
<th>Air pressure</th>
<th>Wrist flip angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single phase</td>
<td>Digital servo motor</td>
<td>Micro computer control</td>
<td>0.4–6 MPa</td>
<td>90 deg.</td>
</tr>
</tbody>
</table>

Maximum allowable air pressure (factory) 0.7 MPa

Power consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>Power consumption Traverse stroke (mm)</th>
<th>Kick stroke (mm)</th>
<th>Vertical stroke (mm)</th>
<th>Air consumption (NL/cycle)</th>
<th>Payload (kg)</th>
<th>Clamping force (t)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YCII-100S</td>
<td>1100 (100)</td>
<td>578 – 700 (650)</td>
<td>– 700</td>
<td>5.2 (ECO Vacuum OFF)</td>
<td>60 ~ 130</td>
<td></td>
</tr>
<tr>
<td>YCII-150S</td>
<td>1500 (1700)</td>
<td>578 – 850 (950)</td>
<td>– 850</td>
<td>5.6 (ECO Vacuum OFF)</td>
<td>100 ~ 220</td>
<td></td>
</tr>
<tr>
<td>YCII-250S</td>
<td>2200 (2500)</td>
<td>728 – 950 (1100)</td>
<td>– 950</td>
<td>5.9 (ECO Vacuum OFF)</td>
<td>140 ~ 300</td>
<td></td>
</tr>
</tbody>
</table>

Model: Robot is equipped with product take-out arm only. D type: Robot is equipped with product take-out arm and runner take-out arm.

Predictive Maintenance

Continuously monitors robot during operation and alerts operator with a message if potential trouble symptoms are detected. This function elevates maintenance from preventative to predictive.

E-touch compact-YC

Predictive Maintenance

Predictive Maintenance

Payload includes the end-of-arm tool.

Higher payloads possible, depending on take-out settings and speeds.

Dimensions (mm)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>YCII-100D</td>
<td>110</td>
<td>150</td>
<td>500</td>
<td>600</td>
<td>700</td>
<td>800</td>
<td>900</td>
<td>1000</td>
<td>1100</td>
<td>1200</td>
<td>1300</td>
<td>1400</td>
<td>1500</td>
<td>1600</td>
</tr>
<tr>
<td>YCII-150D</td>
<td>160</td>
<td>200</td>
<td>500</td>
<td>600</td>
<td>700</td>
<td>800</td>
<td>900</td>
<td>1000</td>
<td>1100</td>
<td>1200</td>
<td>1300</td>
<td>1400</td>
<td>1500</td>
<td>1600</td>
</tr>
<tr>
<td>YCII-250D</td>
<td>210</td>
<td>250</td>
<td>500</td>
<td>600</td>
<td>700</td>
<td>800</td>
<td>900</td>
<td>1000</td>
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<td>1200</td>
<td>1300</td>
<td>1400</td>
<td>1500</td>
<td>1600</td>
</tr>
</tbody>
</table>

S-type: Robot is equipped with product take-out arm only. D-type: Robot is equipped with product take-out arm and runner take-out arm.

Modified traverse stroke

Modified vertical stroke

S-type Dimensions

For rear-side models

The CE specification is a special order. Please contact us.