High Speed

Take-Out Robot
High power servo motor, body built-In control box
► High power AC servo motor realize fast speed and increase productivity.

High Quality Linear Motion Guide, Timing Belt
► Guaranteed a high precision motion with all axis Linear Motion Guide. (TSa-Series)
► Timing Belt at Traverse axis minimize the noise and realize high speed, precision

Provide multi language with large LCD screen
► Support Korean, English, Chinese and easy to extend to the other language as customer’s request. Large LCD screen (128 × 64dot) allows you to access the desired function with easy.
► Most of the injection molding take-out Application can be achieved with this controller. (Taking out, Stocking, Communication with other machine etc.)

► When auto mode key pushed, automode will start with right condition and help unattended operation
Waiting Position (Outside of the machine, Above the Mold)
Take-out Arm motion (Product, Runner, Both)
Product Take-out (Clamp side, Nozzle Side)
Runner Take-out (Clamp side (Movable Platen), Nozzle Side (Fixed Platen)
Kick First (Product, Runner, Both)
Take-out method (Vacuum, Chuck, Both)
Runner Drop (Inside of the mold, When Return, When traverse)
Product Unloading (Inside of the mold, No decent (Unloading at the ascent),

Chuck Rotation (After Rotation, After Traverse, When Traverse)
Multi-point Unloading (Maximum 99 point)
Ejector kick Control (Yes, No)
Ejector kick Backward (Yes, No)
Tunnel Gate Open (Inside of the mold, When Return, When Traverse)
Delay for Mold Close (Yes, No)
Undercut (Traverse kick) (Yes, No)
Product Pitch Distance Adjustment (Yes, No)

**Optional Function**
Vertical Rotation (In Mold Area, After Traverse)
Multi Release for the Multi Cavity Product (Maximum 4 Times)
Nipper (For EOAT, For External nipper)
*Easy to add special function as required by customer.*

**Standard Specifications**

<table>
<thead>
<tr>
<th>Power</th>
<th>Driving Method</th>
<th>Control System</th>
<th>Air Pressure</th>
<th>Max. Air.</th>
<th>Wrist Flip</th>
</tr>
</thead>
<tbody>
<tr>
<td>3AC 220V</td>
<td>1 Axis Servo and Pneumatic</td>
<td>Micro Processor</td>
<td>6kgf/cm²</td>
<td>8kgf/cm²</td>
<td>90°</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Stroke Traverse Stroke (mm)</th>
<th>Stroke Vertical Stroke (mm)</th>
<th>Stroke Pull-out Stroke (mm)</th>
<th>Max. electric consumption</th>
<th>Air Consumption</th>
<th>Max. Payload (Head)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard</strong></td>
<td><strong>L Type</strong></td>
<td><strong>LL Type</strong></td>
<td><strong>Product</strong></td>
<td><strong>Runner</strong></td>
<td><strong>Product</strong></td>
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<tr>
<td>TS α-200SI</td>
<td>1300</td>
<td>1500</td>
<td>1700</td>
<td>800</td>
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<tr>
<td>TS α-200DI</td>
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<td>-</td>
<td>-</td>
<td>800</td>
<td>850</td>
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<tr>
<td>TS α-300SI</td>
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<td>1700</td>
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<td>1050</td>
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### Dimension

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<tr>
<th>Model (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>
<th>O</th>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
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<tbody>
<tr>
<td>TS - 200SI</td>
<td>2060</td>
<td>1500</td>
<td>350</td>
<td>210</td>
<td>300</td>
<td>200</td>
<td>485</td>
<td>1550</td>
<td>-</td>
<td>680</td>
<td>-</td>
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<td>170</td>
<td>570</td>
<td>225</td>
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* Specification can be changed without any notice for quality improvements.

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