Grippers automatically change to suit the item

Space efficient item packing
Specialized grippers ensure careful handling of various items

Grippers and handling method automatically change to suit the item

Secure gripper control

A single arm, multiple grippers

One suction pad can handle small items. Bigger items are handled by all suction pads. The automatic changer chooses the best gripper for each item.

Advanced image processing supports image recognition and space-efficient packing

Dual cameras boost image recognition, without prior programming.

Items are optimally packed by using measurement data.

RGB camera + 3D camera

Before

Packing items at random raises the risk of damage.

AFTER

Packing items carefully without empty space.

Interaction with automated storage systems improves operating efficiency

Advantages of the piece-picking robot

Safe, stable operation

Easy installation

Eliminate operator error and picking mistakes

Install without modification of upper system such as WMS*

Smooth interaction with automated storage raises efficiency

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gripper type</td>
<td>5 suction pads (with individual control of each pad)</td>
</tr>
<tr>
<td>Applicable containers</td>
<td>Tray with a height of 340mm and lower; partitions in tray okay</td>
</tr>
<tr>
<td>Max. item size (mm)</td>
<td>500 × 300 × 200 (depending on gripper hand)</td>
</tr>
<tr>
<td>Max. item weight (kg)</td>
<td>Up to 7</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>2500 × 2500 × 3000 (excluding control equipment and air compressors)</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>Under 530 (excluding control equipment and air compressors)</td>
</tr>
<tr>
<td>Throughput (pph)</td>
<td>240 (varies with stacking and item conditions)</td>
</tr>
<tr>
<td>Environmental conditions</td>
<td>Ambient temperature : 5 to 35°C, Relative humidity: 35 to 85%RH (Non condensing)</td>
</tr>
</tbody>
</table>

*WMS: Warehouses Management System

TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION


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*It may vary with combination of arms and grippers.