

Piece-picking Robot



Specialized grippers ensure careful handling of various items

Grippers and handling method automatically change to suit the item

Secure gripper control



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.



Packing items at random raises the risk of damage.



Packing items carefully without empty space.

Interaction with automated storage systems improves operating efficiency

Advantages of the piece-picking robot



Safe, stable operation

Eliminate operator error and picking mistakes

Easy installation Install without modification of

upper system such as WMS*

*WMS: Warehouses Management System



Smooth interaction with automated storage raises efficiency

Specifications

Item	Description (Robot with middle-size arm)	Description (Robot with small-size arm)
Gripper type	5 suction pads (with individual control of each pad)	4 suction pads (with 2 pad-combined control)
Applicable containers	Tray with a height of 340mm and lower; partitions in tray okay	
Max. item size (mm)	500 \times 300 \times 200 (depending on gripper hand)	250 x 200 x 100 (depending on gripper hand)
Max. item weight (kg)	Up to 7	Up to 1
Dimensions (mm)	2500 × 2500 × 3000 (excluding control equipment and air compressors)	3500 x 2500 x 2200 (excluding control equipment and air compressors)
Weight (kg)	Under 530 (excluding control equipment and air compressors)	Under 410 (excluding control equipment and air compressors)
Throughput (pph)	240 with space-efficient packing (varies with stacking and item conditions)	500 without space-efficient packing (varies with stacking and item conditions)
Environmental conditions	Ambient temperature : 5 to 35 $^\circ C$, Relative humidity: 35 to 85%RH (Non condensing)	

*It may vary with combination of arms and grippers.

Toshiba Infrastructure Systems & Solutions Corporation

https://www.toshiba.co.jp/sis/en/scd/logistics/index.htm Info available online Security & Automation Systems Division International Sales & Marketing Department 72-34, Horikawa-cho, Saiwai-Ku Kawasaki 212-858, Japan Tel: +81-44-331-1686

• The information contained herein is as of February 1, 2020. The information contained herein is subject to change without notice. The information contained herein includes products and systems under planning or development. • The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of TOSHIBA or others. TOSHIBA products should not be embedded to the downstream products which are prohibited to be produced and sold, under any law and regulations. TOSHIBA does not take any responsibility for incidental damage (including loss of business profit, business interruption, loss of business information, and other pecuniary damage) arising out of the use or disability to use TOSHIBA products. The products described in this document may include products subject to the foreign exchange and foreign trade laws. The products described in this document may contain components made in the United States and subject to export control of the U.S. authorities. Diversion contrary to the U.S. law is prohibited. CA-R-069B,20-02 ©2020 Toshiba Infrastructure Systems & Solutions Corporation

