

TRP-30

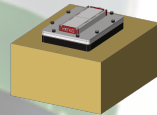
Collaborative Robot Palletizing System



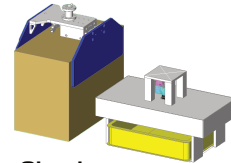
Technical Data

Machine configuration	Collaborative robot (FANUC CRX-30iA) End effector (Robot Hand) *see right for options Safety laser scanner (Sick nanoScan3) Frames Workpiece receiving conveyor
Liftable weight	up to 25kg (≅ 55lbs) *Please inquire for alternative options which can be provided when 25kg+ is required)
Machine Capability	Max. 6 cycles/min *Varies depending on the weight of the workpiece
Stowage Subject	Pallets, Cargo trolleys
Stowage Height	Max. 1,800mm (≅ 71inch) * At the standard specification. Including pallet height
Footprint	3,450mm × 2,100mm (≅ 136inch × 83inch) * Conveyor unit excluded. Only the main body frame unit with 2 pallets placed.
Main body frame unit weight	Approx. 500kg (≅ 1,100lbs) *varies depending on Machine configuration
Circuit breaker	200V/15A
Required Air Volume	250NL - 450NL/min *Varies depending on the End effector
Optional Equipment	Conveyor Extension Safety Fence Remote maintenance function (SECOMEA SiteManager) * Wi-fi Network environment required

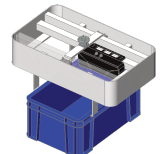
● End effector (Robot Hand) options



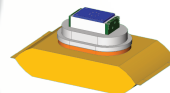
Vacuum



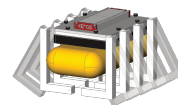
Chuck



Chuck + Vision Capture



Vacuum for Large bags



Vacuum + Grip

Most optimal end effector will be adopted according to the workpiece and palletizing pattern.

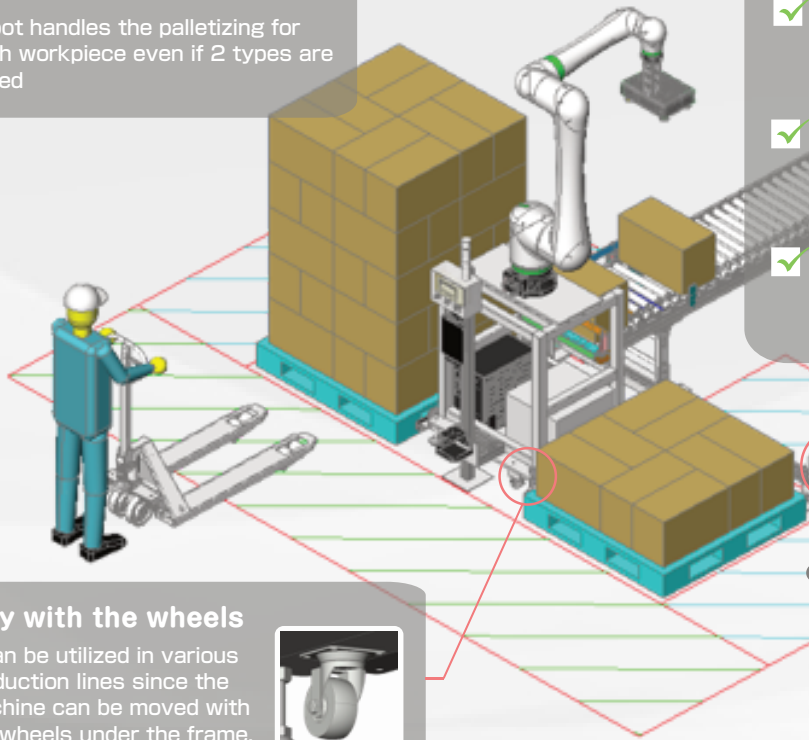
Collaborative Robot Palletizing System 『TRP-30』

Can be palletized into 2 pallets

- ✓ No need to stop the production line when changing the pallets
- ✓ Robot handles the palletizing for each workpiece even if 2 types are mixed

Laser scanning function (Sick nanoScan3) as a standard equipment

- ✓ 3 laser scanners constantly monitor the surrounding area at all times so that the palletizing can be operated without any safety fence
- ✓ System can be configured to stop or slow down to prevent from unexpected accidents when a person enters the laser monitoring area
- ✓ Surrounding area for monitoring can be changed freely according to the layout *900mm or more is recommended as a distance to the robot



Surrounding area monitored by 3 laser scanners

Mobility with the wheels

- ✓ it can be utilized in various production lines since the machine can be moved with the wheels under the frame.



Selectable Optional Features

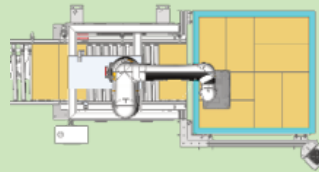
Advanced capability with utilizing Vision Camera

Depalletizing function can be implemented with 3D vision cameras (made by Mech-Mind)



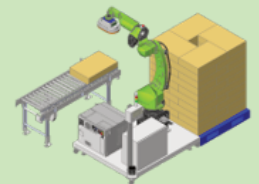
Space-saving design

Compact operation is possible by designing the conveyor passing below the main robot which contributes to save spaces



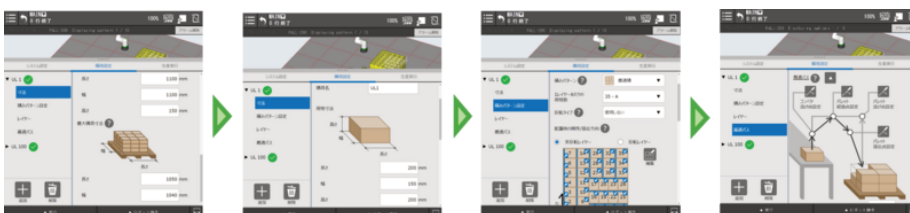
Handling of Larger or/and Heavier workpieces

25kg+ workpiece palletizing can be realized with adopting another robot. Please feel free to inquire for any work you would like to automate.



FANUC's dedicated palletizing software

*To be provided soon



- ✓ Automatically generates an optimal palletizing pattern only with filling in LWH dimensions (three side lengths) information
- ✓ Automatically generates an optimal route by setting a waypoint
- ✓ Facilitates registering new varieties of workpieces and changing settings of works

株式会社ゼアーレボ

〒105-0001 東京都港区虎ノ門1-16-16 虎ノ門1丁目MGビル2F
TEL 03-4400-8446 / FAX 03-4400-8447
MAIL thererebo_kanri@there-rebo.com

