TECHMAN
ROBOT USA

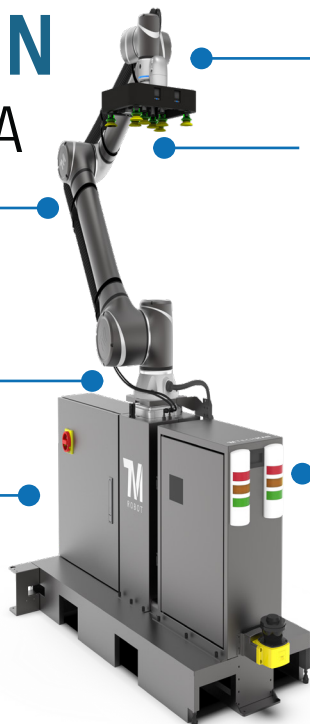Built In Vision System with barcode reading functionality

Adjustable Flexible Gripper Maximum Payload: 22lbs

Speed: Up to 7 picks or 140lbs boxes/min

Lifting Pillar
Max. Stack Height 74in
General 47in

Built In Safety Controller

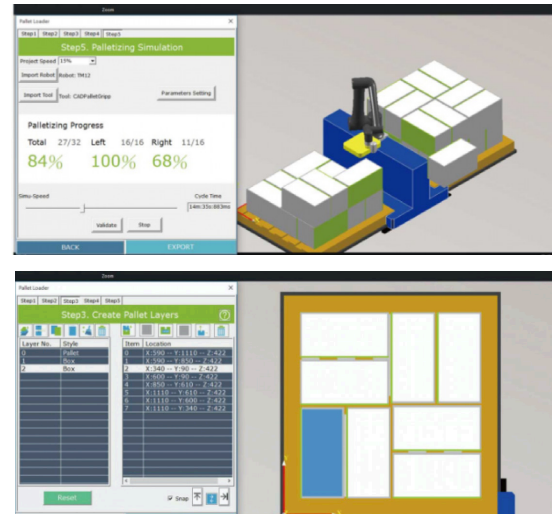Sensor and Indication for Pallet Detection

Palletizing Operator

TM Palletizing Operator is designed to stack cartons and products onto the two palletizing stations. A safe, all-in-one end-of-line palletizing solution.

Smart. Simple. Safe.
Intelligent Palletizing Solution with Easy Programming.

Using the TechMan Robot Palletizer, users can start to palletize in minutes. Able to tackle a wide variety of applications, the TM Robot excels at end-of-line palletizing when utilizing the TM Palletizing Operator application based solution.

- Up to 7 picks per minute or 140 lbs of boxes per minute.
- Maximum stack height of 74 inches.
- Onboard barcode reading capability utilizing the integrated vision. No need for an external reader.
- The TMstudio Palletizing Wizard allows for simple palletizing setup, including simulation and collision detection.
- A safe solution with collaborative function offers more options to integrate with human coworkers safely.
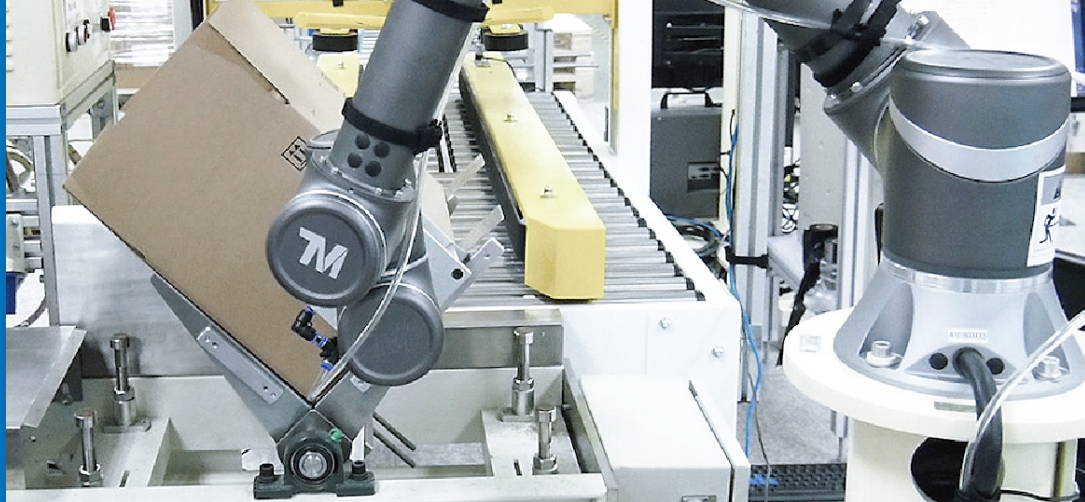- Local support, training, and start-up assistance.

TM Operator

- A ready to use, all-in-one application based robot cell
- With application based software
- Reduce programming effort
- Start to work within 5-10 minutes

CONTACT US TODAY FOR A QUOTE

APPLICATION BASED SOFTWARE

TM Studio Palletizing Wizard

- Customizable box, pallet size.
- Generate point file offline.
- Custom box arrangement/sequence
- Palletizing simulation and collision detection

TMflow Software Package

- Callibration of pillar
- Main function based on file generated from TM Studio palletizing wizard and setting for the cell

Flexibility For Functional Expansion by User

- Using customized gripper
- Adding vision functions, like barcode reading
- Adding downward sensor detection
- Slip sheet application programming.

SPECIFICATION	TM Palletizing Operator TM-12
Stack Height	General 1200mm, Max. 1900mm
Maximum Payload	10kg
Maximum Pallet Speed	Up to 7 boxes/object per minute
Certification	CE, Machine Directive 2006/42/EC, ISO 12100, EN 60204-1, ISO 10218-2 (partly completed machinery), ISO 13849-1, ISO/TS 15066
Safety Functions	16 cell level safety functions with 3rd party certification PL=d according to ISO 13849-1
Teach Pendant	10.1" capcaitive touch screen, with ESTOP and Enabling Switch, Cable length: 3m, 2 USB ports provided
IP Rating	IP54 for Robot Arm, IP65 for Teach Pendant, IP 32 for Gripper and rest parts
Interface	Support multiple safety inputs and safety outputs: emergency stop, safeguard pause, Safeguard Human-Machine Safety Setting
Software	Offline programming & Simulation: TMstudio Palletizing Wizard; Setting and Running: TM Palletizing Operator Software Packages
Eye In Hand (built in)	1.2M/5M pixels, color camera
Eye to Hand (optional)	Support Maximum 2 GigE cameras

*The maximum stack height indicates the use case of single-box stack within proximity. In the use case of maximum pallet size(1219mm×1016mm), it can generally reach 1,200 mm. Differences in box size, box layout and gripper might affect actual stack height
*The payload at robot flange is 12kg.

ITEM	STANDARD PACKAGE
TM12 Robot Arm & Control Box	✔
Teach Pendant and Cable	✔
TM Palletizing Operator Base, including: Indication light for pallet detection; Lifiting Pillar Module & Drag Chain	✔
Pneumatic Suction Gripper Set, including: Pneumatic Suction Gripper; Pneumatic Set: Air preparation unit, Solenoid valve, Air tube to the tool end; Cable Conduit	✔
Software License Dongles	✔