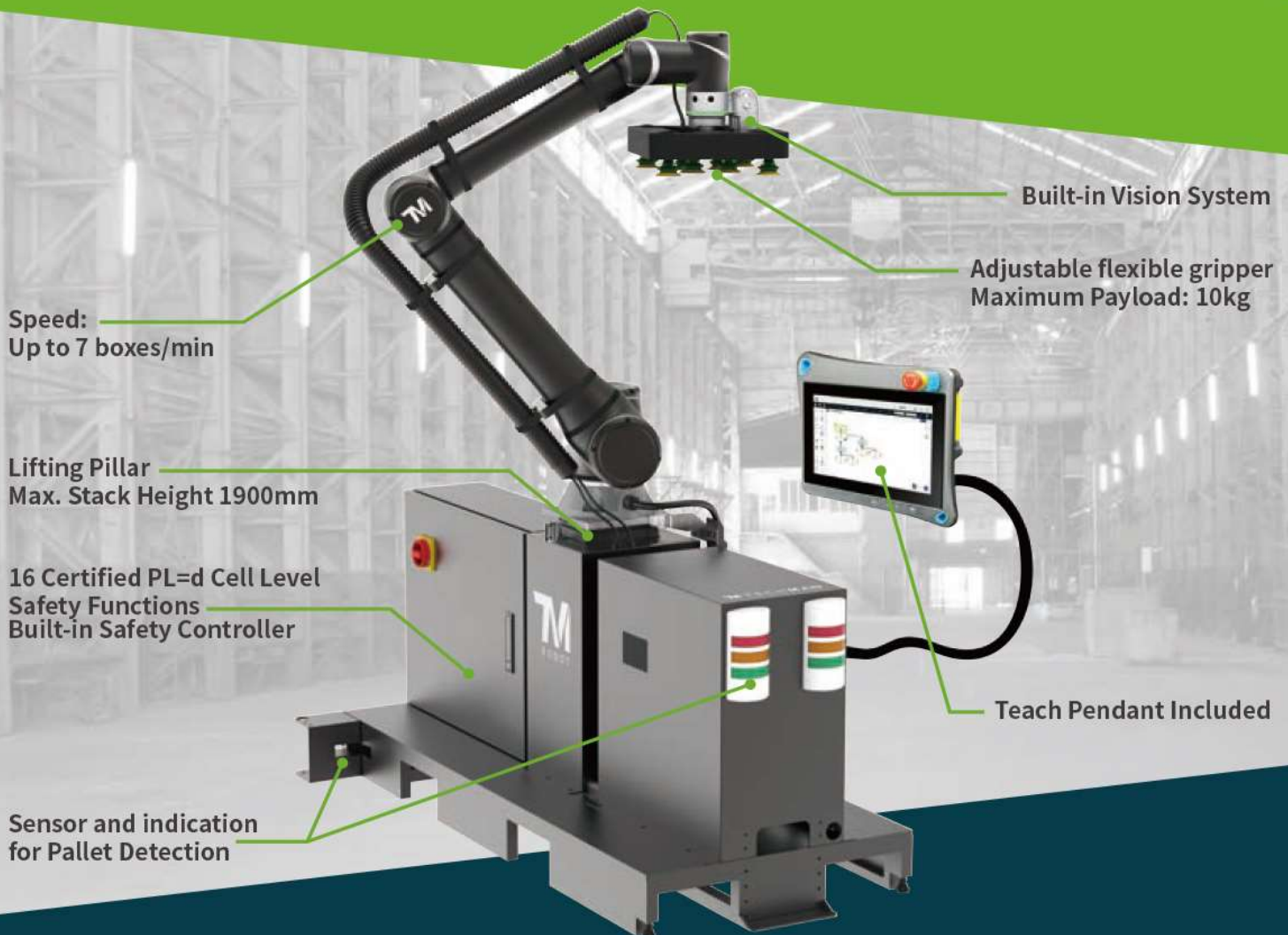


TM Palletizing Operator



TM Operator

Click & Run, Cheer & Apply

What is 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.

Start
to
Palletize
in
5 Minutes!



Techman Robot



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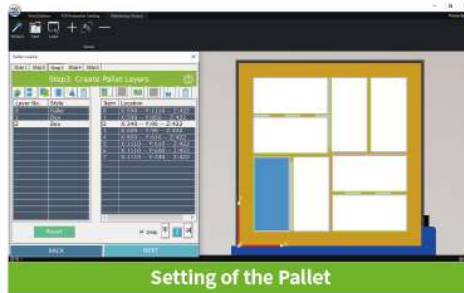
www.tm-robot.com

Application Based Software

TMstudio Palletizing Wizard

Provide the optimization solution for palletizing.

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



Software packages for TMflow

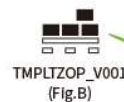
Main Function

- Calibration of pillar. (fig. A)
- Main function based on file generated from TMstudio Palletizing Wizard, and settings for the cell. (fig. B)



Flexibility for functional expansion by user

- Using customized gripper.
- Adding more vision functions like barcode reading.
- Adding downward sensor detection before releasing the box.
- Slip sheet application programming .



Specification

Specification	TM Palletizing Operator-TM12								
Stack Height	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 ISO13849-1								
Teach Pendant	10.1" capacitive touch screen, with ESTOP and Enabling Switch, Cable length: 5m, 2 USB ports provided								
IP Rating	IP54 for Robot Arm, IP65 for Teach Pendant, IP 32 for Gripper and rest parts								
Interface	<table border="0"> <tr> <td>Safety input:</td> <td>Safety Output</td> </tr> <tr> <td>Emergency Stop: 1 x dual channel input</td> <td>Emergency Stop Output: 1 x dual channel output</td> </tr> <tr> <td>Safeguard Pause: 5 x dual channel inputs</td> <td>Safeguard-Pause Output :1 x dual channel output</td> </tr> <tr> <td>Collaborative Mode: 4 x dual channel inputs</td> <td>Safeguard-Collaborative Output: 2 x dual channel outputs</td> </tr> </table>	Safety input:	Safety Output	Emergency Stop: 1 x dual channel input	Emergency Stop Output: 1 x dual channel output	Safeguard Pause: 5 x dual channel inputs	Safeguard-Pause Output :1 x dual channel output	Collaborative Mode: 4 x dual channel inputs	Safeguard-Collaborative Output: 2 x dual channel outputs
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Collaborative Mode: 4 x dual channel inputs	Safeguard-Collaborative Output: 2 x dual channel outputs								
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 payload at robot flange is 12kg.									

Product Content

Item	Standard Package
TM12 robot Arm & control box	✓
Teach Pendant and cable	✓
TM Palletizing Operator Base, including -Indication light for Pallet detection -Lifting 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 1 for TMstudio Palletizing Wizard 1 for TM Palletizing Operator Software Packages	✓