SPECIAL OFFER

TM ROBOT

TM Palletizing Operator

Click **&** Run, Cheer **&** Apply

SPECIFICATION	TM PALLETIZING OPERATOR-TM12	TM PALLETIZING OPERATOR-TM20
Maximum Payload[1]	10 kg	18 kg
Maximum Pallet Speed	Up to 7 boxes/object per minute[2]	Up to 5 boxes/object per minute[2]
PRICE[3]	**47,000 Euro**	**51,000 Euro**

[1]The payload at robot flange is 12Kg for TM12 or 20kg for TM20.
[2]The pallet speed varies depending on a number of factors, e.g. vision recognition, box arrangement, actual pneumatic suction gripper, pillar, or I/O reaction time.
[3]The promotional price is valid until 31.12.2024 and applies to a complete set with a safety gripper.

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WHAT IS TM OPERATOR?

- **17** Certified PL=d Cell Level Safety Functions
- TMstudio Palletizing Wizard: **World NO.1**, palletizing wizard and collision detection
- A ready to use, all-in-one application based robot cell
- With application based software
- Reduce programming effort
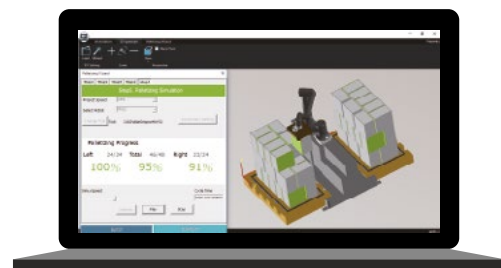
FEATURES

① Built-in Vision System

② Adjustable Fexible Gripper
   Maximum Payload 18kg

③ Speed: Up to 7 boxes/min

④ Lifting Pillar:
   Reach: 500, 800, 1200 mm
   Max. stack height 2325 mm

   (Max. stack height varies with different pillar stroke, please see specification table for more information)

⑤ Teach Pendant Included

⑥ Built-in Safety Controller

⑦ Sensor and Indication for Pallet Detection

APPLICATION BASED SOFTWARE

TMSTUDIO PALLETIZING WIZARD

Provide the optimization solution for palletizing

- Customize box, pallet size
  - Regular Palletizing for same boxes
  - Palletizing for different pallets of boxes
  - Regular De-Palletizing for same boxes
  - De-Palletizing for different pallets of boxes
  - Change Pallet
- Generate point file offline.
- Custom box arrangement and sequence.
- Palletizing simulation and collision detection.
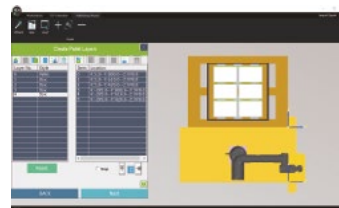
- Setting of the Pallet
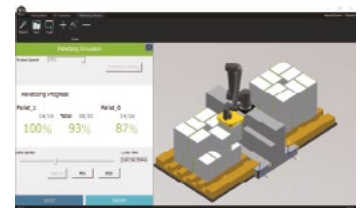
- Simulation

SOFTWARE PACKAGES FOR TMFLOW™

Main Function

- Calibration of pillar.
- Main function based on file generated from TMstudio Palletizing Wizard, and settings for the cell.
- Provide script node for more programming flexibility with TMflow™ 2 series.

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.


- Pillar height 500 mm

- Pillar height 800 mm

- Pillar height 1200 mm

SPECIFICATION

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SPECIFICATION	**TM PALLETIZING OPERATOR-TM12**	**TM PALLETIZING OPERATOR-TM20**
Stack Height*	Pillar Stroke 500mm: 1345mm; Pillar Stroke 800mm: 1725mm ; Pillar Stroke 1200mm: 2325mm	
Maximum Payload**	10 kg	18 kg
Maximum Pallet Speed	Up to 7 boxes/object per minute***	Up to 5 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	17 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: 3m, 2 USB ports provided	
IP Rating	IP54 for Robot Arm, IP65 for Teach Pendant, IP32 for Gripper and the rest of 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 Editing and Running: TM Palletizidng Operator Software Packages	
Eye in Hand(Built in)	1.2M/5M pixels, color camera	
Eye to Hand(Optional)	Support Maximum 2 GigE cameras	

* Stack height is the height of the center of the robot's Joint 2 above the ground, with the pillar stroke at its maximum.
Differences in box size, box layout and gripper might affect actual stack height

** The payload at robot flange is 12Kg for TM12 or 20kg for TM20

*** The pallet speed varies depending on a number of factors, e.g. vision recognition, box arrangement, actual pneumatic suction gripper, pillar, or I/O reaction time

PRODUCT CONTENT
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 ; Cable Conduit ; Pneumatic Set: Air preparation unit, Solenoid valve, Air tube to the tool end
Software License Dongles

TM ROBOT
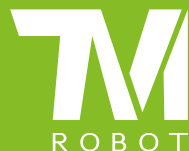
TM PALLETIZING OPERATOR

Do you want to maximize the efficiency of your production line? Contact us!

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