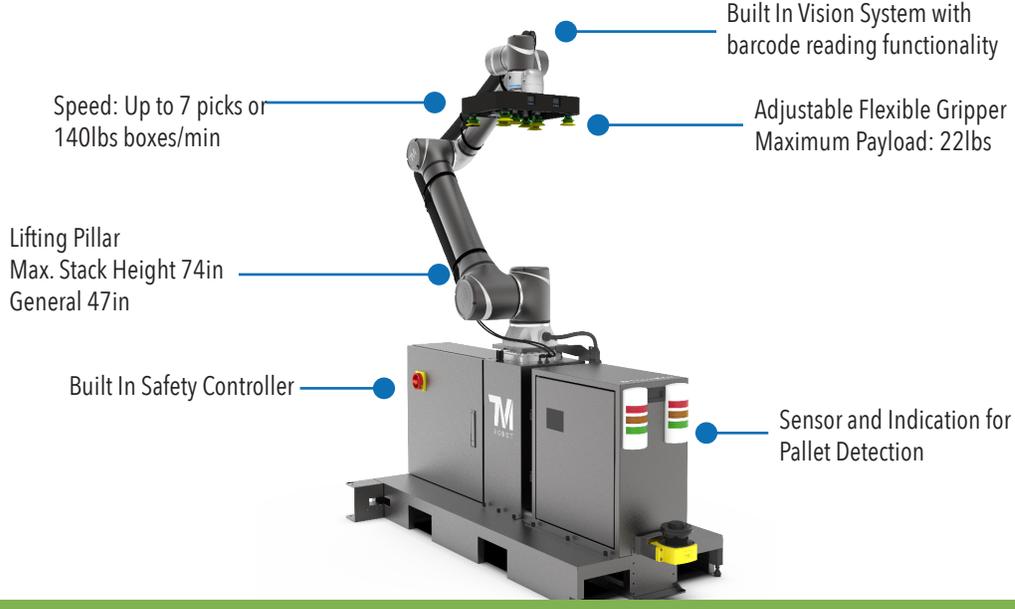


# Palletizing Operator

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.

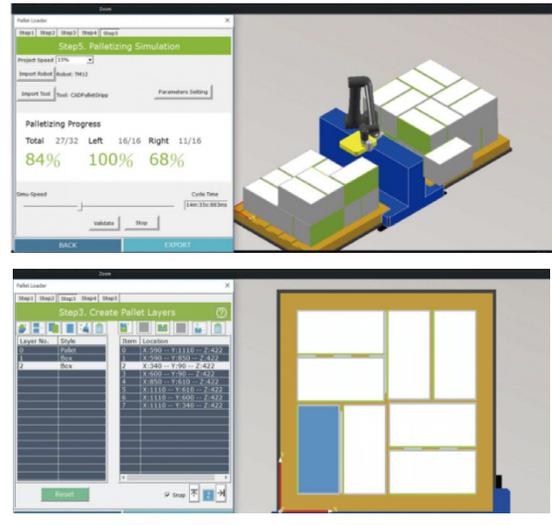


## Smart. Simple. Safe.

### 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.

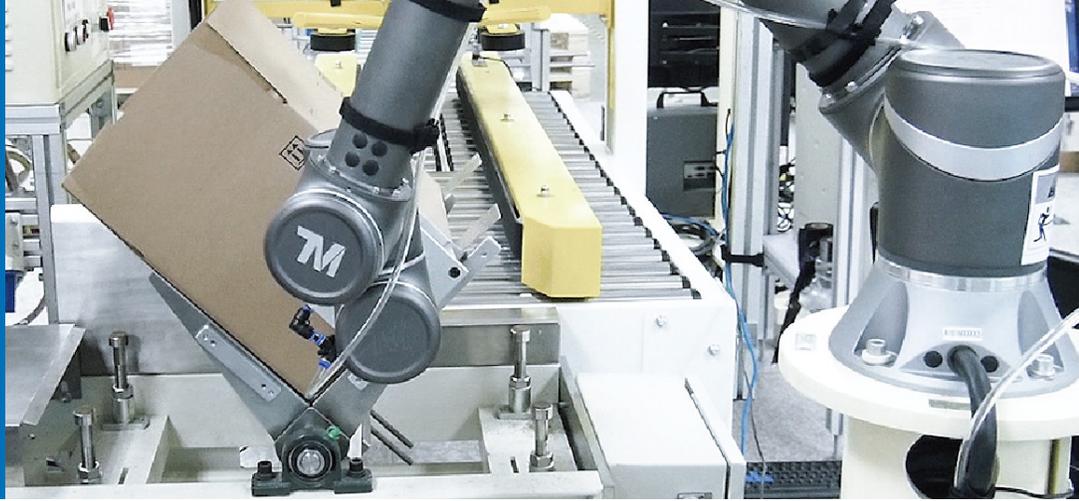


## TM Operator

- 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" 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, 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; 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	✓