

# cobotiz<sup>ur</sup>

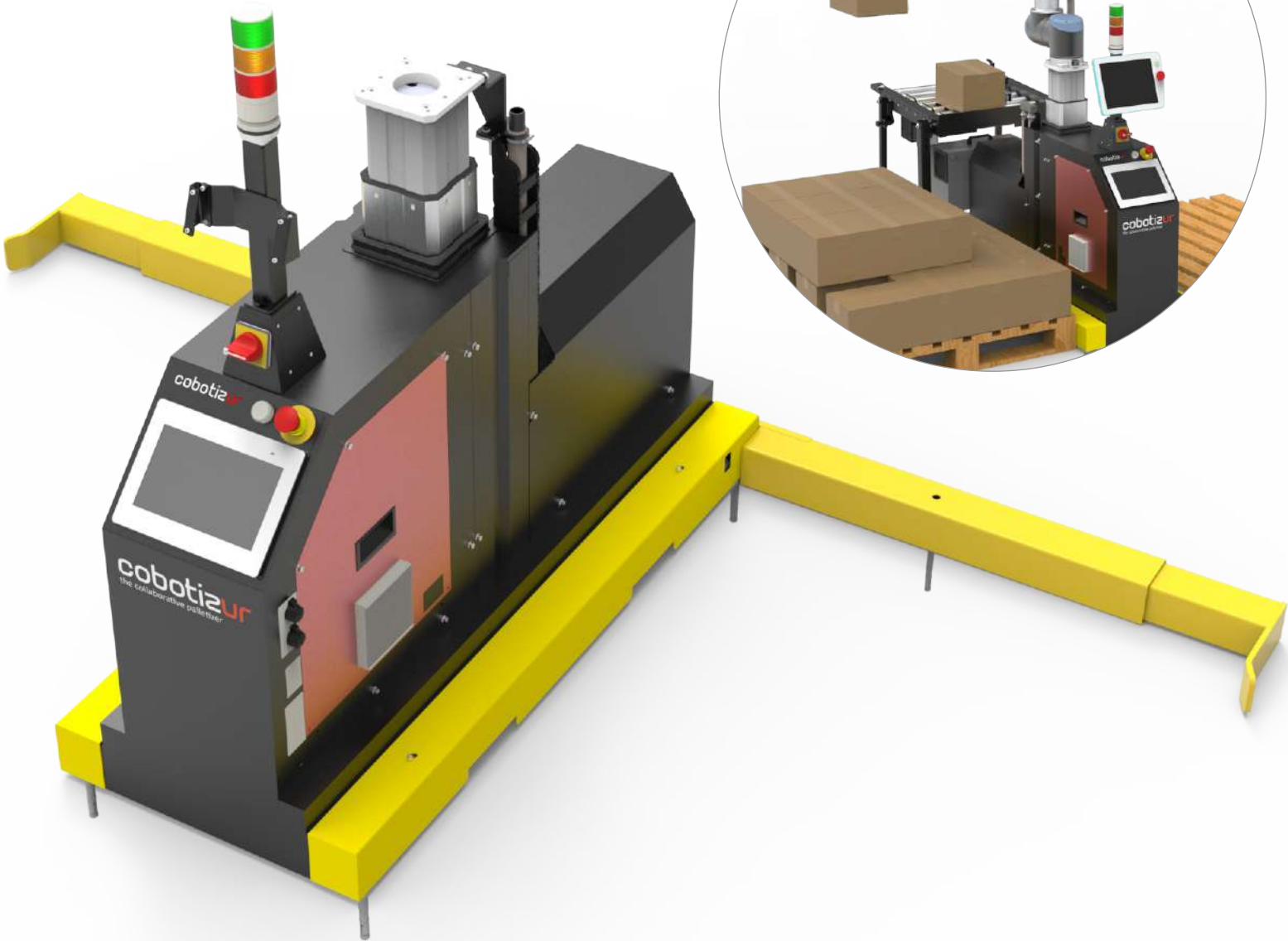
the collaborative palletizer

Introducing the

**T-Series**

**CR-1800T**

A Plug & Play  
Palletizing Platform with  
**Telescopic Pillar**



Start Palletizing in **Sixty Minutes!**  
**World's Fastest Installation**

**Introducing Cobotizur**

The Cobotizur is a flexible plug & play palletizing platform that integrates with UR10 /UR10e / UR16e collaborative robot from Universal Robots for palletizing.

The Cobotizur provides the capability to quickly setup a collaborative robot for palletizing cartons. It relieves the workers from the labourious task of stacking cartons and enables them to do more value-added work. Thus, increasing the throughput of our end customers and the job satisfaction of their employees.

The integrated UR10 / UR10e / UR16e with Cobotizur, becomes the palletizer platform. This can be installed into an existing line without the need for additional guarding or fencing, making the installation extremely simple and effective.

**Platform Approach to Palletizing**

End of line palletizing has always been a made to order implementation which is complex to install & operate.

Cobotizur is a platform-based approach to palletizing and is UR+ certified.

Designed to seamlessly integrate with Universal Robots, Cobotizur allows system integrators or end-customers across the world to install their own collaborative robot (UR) on to the Cobotizur.



**Democratize Palletizing**

Traditionally, palletizers have a long lead time for designing, manufacturing and shipping for installation. The installation is also a long-drawn process causing high down-time at the site. Thus these palletizers require expensive technical support to keep it operational.

Cobotizur democratizes the concept of palletizing. With the simplified platform-based approach, any engineering integrator or end-customer can now uncrate and install Cobotizur and start palletizing in just a few hours.



**Payload:**  
11 kg [24.25 lbs]  
**Speed:**  
Upto 8 cartons / minute \*1  
**Pallet Size:**  
1,219 mm x 1,016 mm [48" x 40"]  
**Maximum Stack Height\*2:**  
1,800 mm [71"]

- |                                    |                         |
|------------------------------------|-------------------------|
| FASTEST<br>INSTALLATION            | MOST COST<br>EFFECTIVE  |
| ONE POINT<br>TEACHING              | UNLIMITED<br>SKUs       |
| MINIMAL<br>FOOTPRINT               | LINEAR<br>TRACK         |
| PALLETIZE SINGLE<br>OR DUAL PALLET | MODULAR<br>EASY TO MOVE |
| TOUCH<br>PANEL HMI                 | CONTINUOUS<br>OPERATION |
| SAFETY CERTIFIED<br>CE CONFORMITY  | COBOTIZUR<br>SOFTWARE   |

**Eliminate Unergonomic Operations**

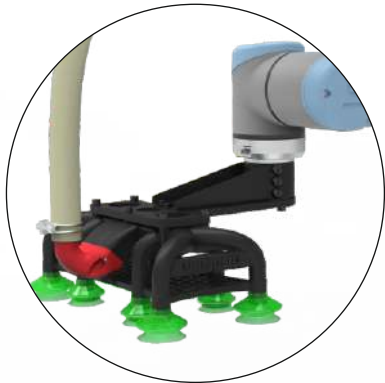
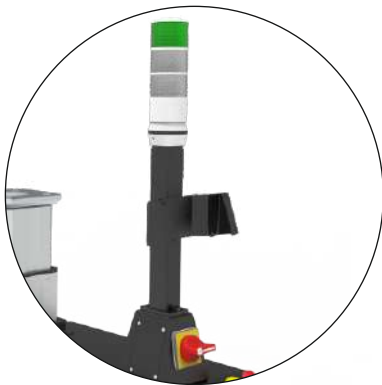
By eliminating the repetitive manual process of stacking cartons, workers are removed from injury prone activities. Workers can now perform other value-added tasks. Thus, automating this operation reduces manual errors, increases the throughput and job satisfaction for the workers.

**Cobotizur T-Series**

The Cobotizur T-Series uses a Telescopic Pillar as the vertical 7th axis. The T-Series is designed and built with a singular focus of being modular and agile. CR-1800T can stack up to 1.8 meters or 71 inches high.

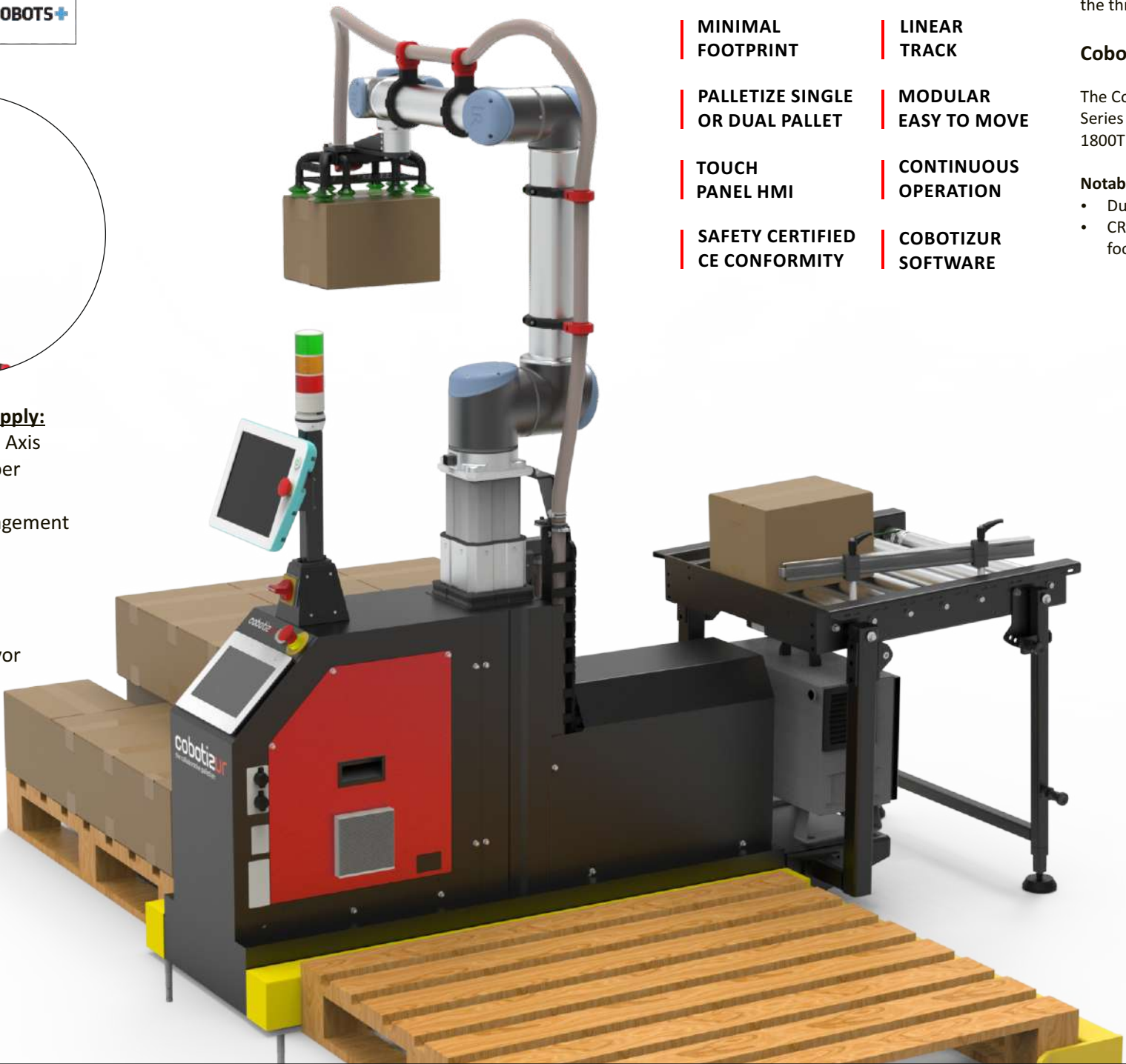
**Notable Features:**

- Dual conveyor carton pick-up and outward label orientation for cartons.
- CR-1800T has all the standard features such as one-point teaching, minimal footprint, unlimited SKUs, and multi-carton pick-up.



**Included in Scope of Supply:**

- Telescopic Pillar as 7th Axis
- vaQgrip Vacuum Gripper
- Vacuum Pump
- Qik-Kit for Cable Management
- Vacuum Hose
- Touch Panel HMI
- Tower Lamp
- Pallet Sensor x 2
- Pick Sensor for Conveyor
- Controller Stand
- Cobotizur Software





## General Specifications

- Footprint : 1,350 x 600 mm [53" x 24"]
- HMI – 10.1" Touch Screen
- Repeatability: +/- 0.1 mm
- Vertical Stroke: 800 mm [31"]
- Maximum Height\*<sup>1</sup>: 1,800 mm [71"]
- Power Supply: Single-phase; 230 V, 50 Hz

## Features

- Master calibration: one-point teaching
- No need to teach each carton location
- Store & quick select unlimited SKUs and Layer pattern configuration
- Multiple layer pattern configuration
- vaQgrip - universal vacuum gripper
- Dry-running vacuum pump
- High-flex vacuum hose
- Snap clamps for vacuum hose
- Provision for pallet jack or fork lift
- Pallet locators with built-in sensor
- Template for calibration carton
- Separator sheet dispensing (optional)

## Pallet Dimensions

- Maximum pallet size :  
1,219 x 1,016 mm [48"x 40"]
- Maximum stacking height\*<sup>2</sup>: 1,800 mm [71"]

## Carton Payload

- Min carton size :  
250 x 200 x 150 mm [10"x 8"x 6"]
- Max carton weight: 11 kg [24.25 lbs]

## Cycle Time

- Up to 8 cartons/ minute \*<sup>1</sup>

## Carton Gripping System

- vaQgrip – Vacuum gripper for carton  
Vacuum generation by vacuum pump
- Gripper weight: 1.4 kg [3.1 lbs]

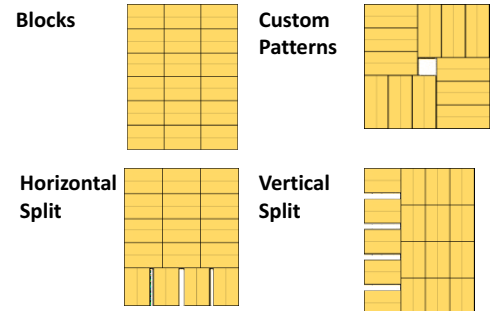
## Safety

- Built to run collaboratively with workers without additional safety measures
- Safety risk assessment to be performed by end customer
- The Cobotizur with UR10 / UR10e / UR16e is CE certifiable

## Software

- Cobotizur Software  
Install on Universal Robots Polyscope
- HMI for configuration & teaching
- Quick input of pallet and carton dimensions
- Dynamic center of gravity setting for vaQgrip
- Quick select palletizer layer pattern:  
Blocks | Horizontal Split | Vertical Split
- Independent layer patterns for left & right pallets
- Save multiple pallet programs
- Monitor production

## Layer Pattern Configuration



## Cobotizur Models:

### T series model: CR-1800T

- 7th axis: Telescopic Pillar
- Vertical Stroke: 800 mm [31.5"]
- Max Stacking Height\*<sup>2</sup>: 1,800 mm [71"]

### L series model: CR-2600L

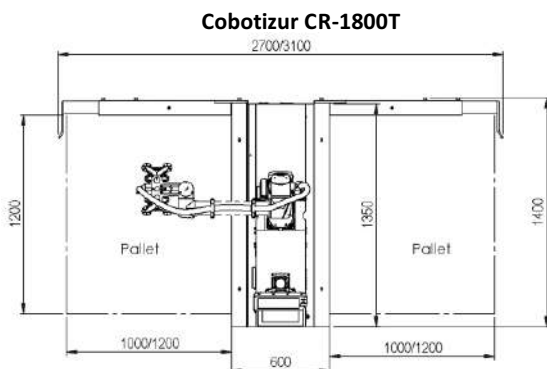
- 7th Axis: Linear Track
- Vertical Stroke: 1600 mm [63"]
- Max Stacking Height\*<sup>2</sup>: 2600 mm [102.4"]

\*<sup>1</sup>: Varies based on carton size & weight

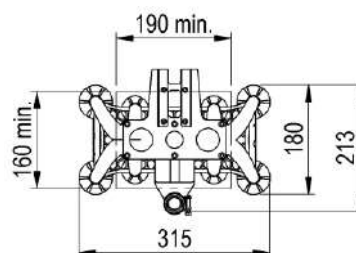
\*<sup>2</sup>: Includes pallet height of 160 mm [6.3"]



## Dimensions



### vaQgrip VG-03



\*All measurements in mm

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## Optional

- In-feed conveyor with carton orientation
- Barcode scanner
- Safety laser area scanner
- Safety light curtain
- Safety mechanical fence
- Integrate with existing traceability system

[www.cobotizur.com](http://www.cobotizur.com)