cobotizur
the collaborative palletizer

Introducing the

L-Series
CR-2600L

A Plug & Play
Palletizing Platform with
Linear Track

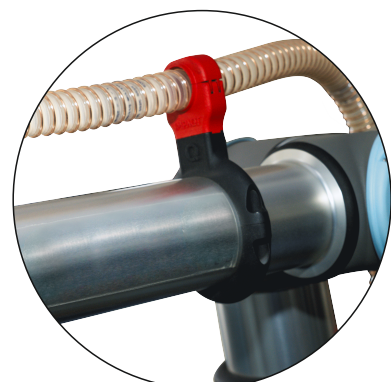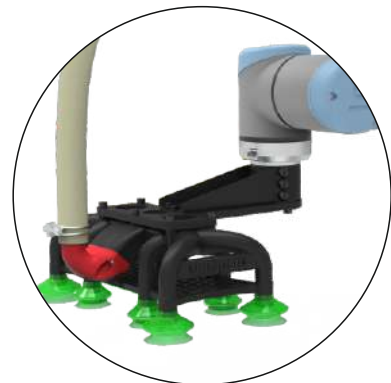Palletize Faster with Dual Conveyors
World's Fastest Installation

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.

Included in Scope of Supply:
- Linear Track 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

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.

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 7 cartons / minute*[1]

Pallet Size:
   1,219 mm x 1,016 mm [48" x 40"]

Maximum Stack Height*[2]:
   2,600 mm [102.4"]

FASTEST INSTALLATION	**MOST COST EFFECTIVE**
ONE POINT TEACHING	**UNLIMITED SKUs**
MINIMAL FOOTPRINT	**LINEAR TRACK**
PALLETIZE SINGLE OR DUAL PALLET	**MODULAR EASY TO MOVE**
TOUCH PANEL HMI	**CONTINUOUS OPERATION**
SINGLE OR DUAL CONVEYOR	**COBOTIZUR 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 L-Series

The Cobotizur L-Series uses Linear Track as the vertical 7th axis. The L-Series is designed and built with a singular focus of higher stacking height. CR-2600L can stack up to 2.6 meters or 102.4 inches high.

Notable Features:
- Dual conveyor carton pick-up and outward label orientation for cartons.
- CR-2600L has all the standard features such as one-point teaching, minimal footprint, unlimited SKUs, and multi-carton pick-up.

General Specifications
- Footprint : 1,350 x 600 mm [53" x 24"]
- HMI – 10.1" Touch Screen
- Repeatability: +/- 0.1 mm
- Vertical Stroke: 1,600 mm [63"]
- Max Height*¹: 2,600 mm [102.4"]
- 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
- 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
- Max pallet size :
  1,219 x 1,016 mm [48"x 40"]
- Max stacking height*²: 2,600 mm [102.4"]

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 7 cartons/ minute*¹

Carton Gripping System
- vaQgrip – Vacuum gripper for cartons
  Vacuum generation by vacuum pump
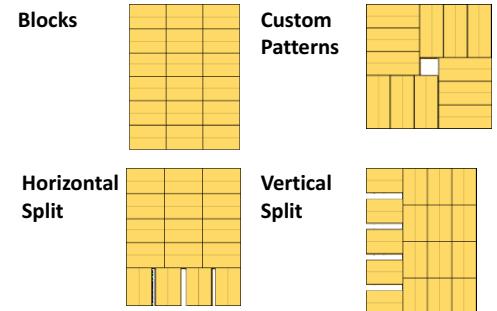- Gripper weight: 1.4 kg [3.1 lbs]

Safety
- Built to run collaboratively with workers without additional safety measures
- Safety risk assessment to be performed by end customer

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

Blocks **Custom Patterns**

Horizontal Split **Vertical Split**

Cobotizur Models:

L series model: CR-2600L
7th Axis: Linear Track
Vertical Stroke: 1600 mm [63"]
Max Stacking Height*²: 2600 mm [102.4"]

T series model: CR-1800T
7th axis: Telescopic Pillar
Vertical Stroke: 800 mm [31.5"]
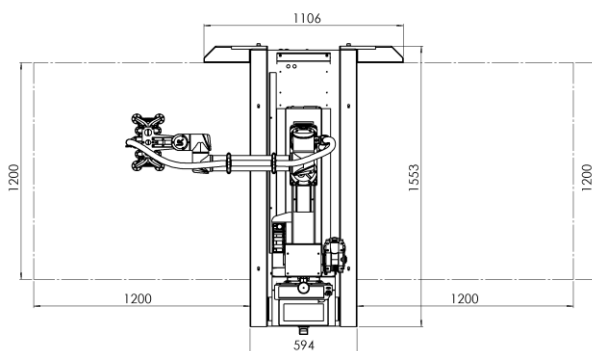Max Stacking Height*²: 1,800 mm [71"]

*¹: Varies based on carton size & weight
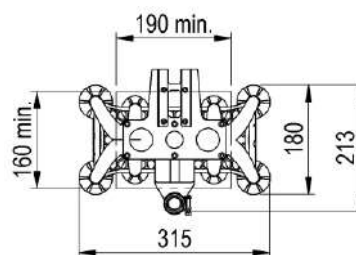*²: Includes pallet height of 160 mm [6.3"]

Dimensions

Cobotizur CR-2600L

vaQgrip VG-03

*All measurements in mm

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

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