Hermes Automation Series

Mobile Cobot Palletizer

OVERVIEW

The Hermes Mobile Cobot Palletizer combines a robotic palletizing cell with a mobile cart creating a compact, safe, and mobile solution. This is an economical approach to palletizing while increasing your efficiency, flexibility, and reliability.

WHAT'S INCLUDED

ROBOT - CRX-30*i*A
- 8 years zero maintenance on robot
- Fanuc PalletTool® 3 software

END OF ARM TOOLING
- Single zone vacuum tool

CONTROLS
- Allen Bradley PLC
- Indicator light (red and green) for go and no-go
- Pallet present sensors

FESTO FILTER REGULATOR
- Pressure switch
- Lockable dump valve
- Quick disconnect

BASE & DOCKING STATION
- Stainless steel castors
- Accurate repeatability

ERGONOMIC HMI
- 15.6" capacitive touch screen
- Remote access
- Video and PDF documents embedded

MELTRIC SAFETY PLUG
- Safety rated switch plug
- Lockable disconnect
- Quick disconnect

IN-FEED CONVEYOR
- 4 Zone MDR conveyor

SKUs
- Five palletizing configurations loaded and tested

ASSEMBLY
- Ships fully assembled
- Complete FAT testing completed on Zeta's floor

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STANDARDS

HERMES SPECS	
Max Payload	Up to 55lbs
Max Height	85 in.
Power Source Req.	120V, Single Phase, 20 amp circuit
Air Pressure Req.	60-80 PSI
Cycle Time	Up to 7 picks per minute with standard tool

FEATURES

MOBILITY

- No fork truck or lift truck needed to move unit.
- Shut down, disconnect, move, reconnect, and start-up in under 5 minutes.
- Docking stations achieve repeatable accuracy.

COMPACT

- Due to the nature of collaborative robots, no bulky fencing or safety scanners are needed.
- Takes up a fraction of the space as industrial robots.

EASY INSTALL

- Ships fully assembled and factory tested.
- Install, start-up, and training in under one day.
- Training and how-to videos are conveniently housed on the HMI, ensuring easy access while operating the system.

PRODUCTION

- Two pallet building locations allows for continuous production.
- Operator can remove/add one pallet while cobot is still using the other location.
- Light indicator button quickly and easily shows operator if system is up and running, even from far distances.

SAFETY

- The CRX features sensitive contact stop and is backed by FANUC's reliable and rigorous testing.
- Meltric plug allows for safe disconnect.
- E-stop button.

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WHY ZETA

ZETA ENHANCED USER EXPERIENCE FEATURES

At Zeta Group Engineering, we take the time to think through each of our solutions to ensure that we are providing an Enhanced User Experience to all of our customers.
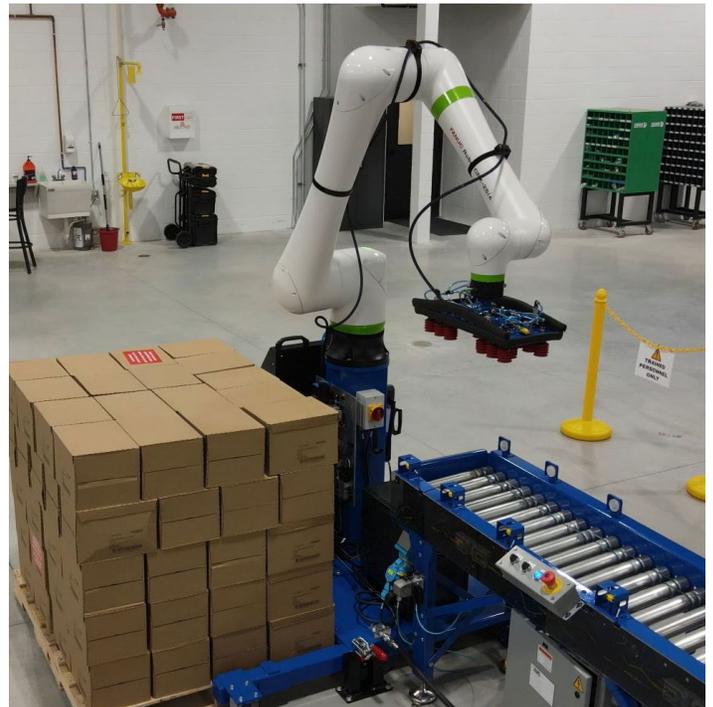
KEY PARTNERS

We partner with industry leaders to be able to provide the best solutions possible.

MOBILITY

No fork truck or lift truck is needed for Hermes. Shut down, disconnect, move, reconnect, and start back up in under 5 minutes.

ZETA SUPPORT

We aim to ensure the install of your Hermes mobile cobot solution is successful. We are with you each step of the install process including our internal FAT testing, providing on site training for your workers, and service after install.

INCLUDED FEATURES

Zeta has one of the most robust packages for a mobile robot solution.

Access to training videos regarding system operation, safety information, and maintenence/ inspection is included with the system.

QUICK ROI

Hermes has approximately 1 year payback.

*based on national average salary and three shifts

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OPTIONS

ADDITIONAL OPTIONS FOR HERMES PALLETIZER

- EOAT Options
    - Multi-zone tooling for higher case rate
    - Fork tool for display cases
    - EOAT for 55# cases (single pick)
    - Zimmer automatic tool changer with stand
- Conveyor Options
    - Case in-feed conveyor for other lines
    - Dual conveyor line feed
    - Other conveyor types
- Slip sheet stand
- Tote Filling

- Additional indicator lights as needed
- Additional pallet configurations developed by Zeta
- UL Labeled Panels
- Risk Assessment
- FANUC Software (PalletPro) Network License, used for in-house (customer) pallet pattern generation and verifying rates on a laptop.
- Higher level network communication
- Quick disconnect for ethernet communication
- Pallet detection & pallet clear sensors
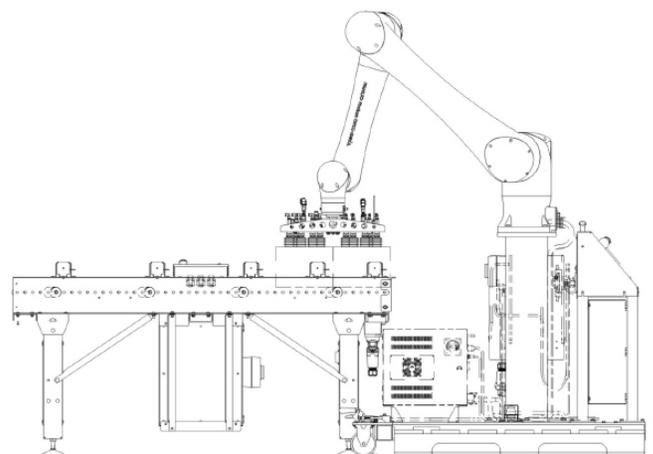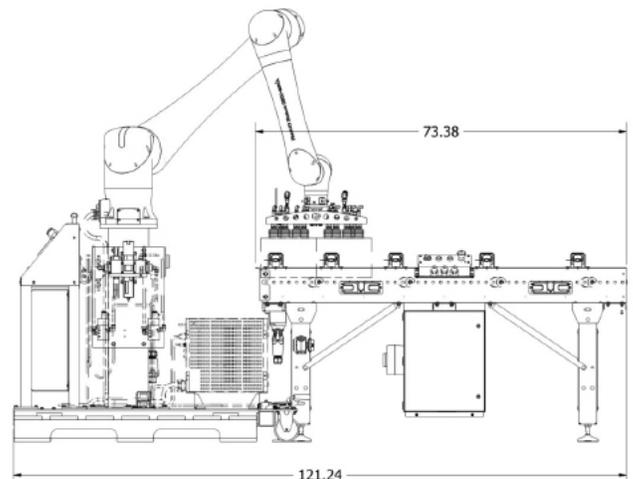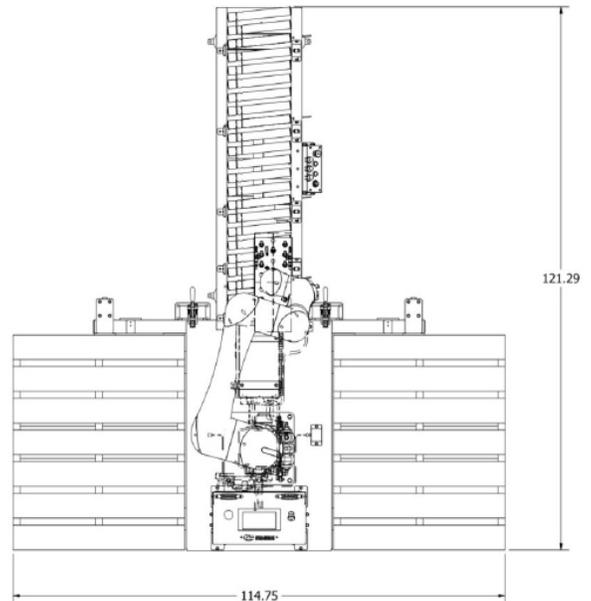   - Pallet type detection (GMA vs. Chep)

EASY INSTALL

We provide install & startup support on all of our Hermes units. The install is a quick and easy 10 step process.

10 STEP INSTALL PROCESS

1. Position roller conveyor to desired location.

2. Anchor the (4) adjustable feet of conveyor with 1/2" anchors.

3. 120VAC power to power box on conveyor.

4. 60-80 PSI air drop.

5. Position docking station using supplied template based off the conveyor location.

6. Anchor each docking station with (4) 1/2" anchors.

7. Once the conveyor and docking stations are anchored, dock the robot cart into docking stations.

8. Clamp the robot cart to docking stations using toggle clamp on docking stations.

9. Plug in electrical, ethernet, and pneumatic quick disconnect to cobot.

10. Make sure to position all electrical and air lines so they don't interfere with robots path or human traffic.

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QUOTE REQUIREMENTS

HERMES - MOBILE COBOT PALLETIZER

CASE INFORMATION

Case Dimensions (*LxWxH*) _____

Case Weight _____

Cases Per Minute _____

Seal type   **Tape   Glue   Strapped   None**

Case type   **RSC   HSC   Open Tray   Other**

PALLET LOAD INFORMATION

Slip/Base sheet required?	**Yes**	**No**
Tier/Layer sheet required?	**Yes**	**No**
Top sheet required?	**Yes**	**No**
Configuration (i.e. Topps Drawings)	**Yes**	**No**

*If yes, please send with RFQ

PALLET INFORMATION

Type   **GMA   Plastic   CHEP/PECO   Other**

Size (*LxWxH*) _____

PLANT ENVIRONMENT

Clean & Dry   Dusty & Harsh   Hot & Humid

Freezer   Wash-down

CASE CONVEYOR

Case orientation (leading edge)	**Narrow**	**Wide**
Bar code reading?	**Yes**	**No**
Case reject required?	**Yes**	**No**
Open flap detection?	**Yes**	**No**

REQUIRED CUSTOMER INFO

CONTACT INFO

NAME _____

PHONE _____

EMAIL _____

FACILITY LOCATION

Address _____

_____

PROJECT NAME

What is the project being called by customer?

_____

NOTES

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