Mixed Case Palletizing

OPTIMIZE YOUR END-OF-LINE FULFILLMENT

CARTER INTRALOGISTICS

Carter Control Systems, Inc. dba Carter Intralogistics
V1 - Updated 02.08.22

CREATE PALLETS WITH MULTIPLE SKUS

Mixed Case Palletizing is a cutting edge robotic solution for building pallets with a variety of different SKUs, giving retailers and distributors the flexibility and efficiency they need to reduce costs and stay competitive in today's market.

MAXIMIZE PALLET DENSITY

By stacking multiple SKUs on the same pallet, you are maximizing pallet density and reducing shipping costs. Mixed Case Palletizing is quickly becoming the new norm for palletizing operations everywhere because it allows a company to ship a variety of SKUs for individual orders that may not warrant a full pallet load.

CUSTOMIZE PALLETIZING ORDER

Carter Intralogistics' proprietary Mixed Case software *STACKS* allows for nearly unlimited customization for palletizing order. This means pallets can be built with single SKU layers, mixed-SKU layers, or even specific SKU orders to match the end recipients warehouse or store plannergrams.

REDUCE LABOR COSTS & INCREASE UPTIME

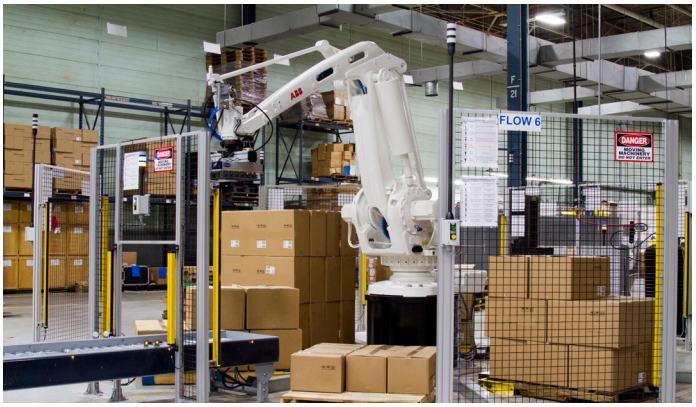
Keep uptime high and labor costs low by automating palletizing — one of the most labor intensive and injury-prone processes in the warehouse.

INCREASE ORDER ACCURACY

Robots don't make the same errors that manual labor sources do. A robotic palletizing solution can save thousands by eliminating human interactions.

WITH YOU EVERY STEP OF THE WAY

At Carter Intralogistics, we pride ourselves in offering quick turn around times and competitive pricing. With every mixed case palletizing project we work on, a project manager and full team of engineers are available to help meet any organization's specific needs from planning and manufacturing to installation and and beyond.



SPECIFICATIONS

Up to 600 Cases Palletized Per Hour*

* Throughput Dependent on Application

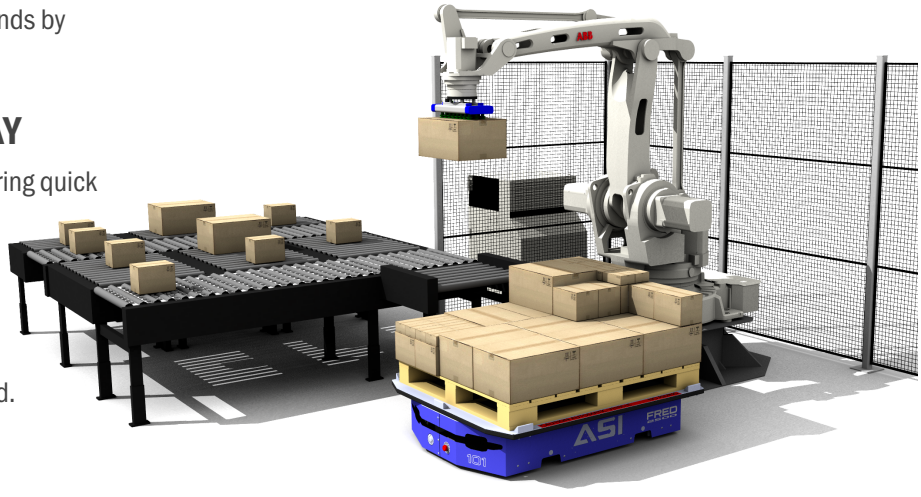
Weight Capacity: Up to 70 lb.*

* Custom Weight Capacity Available

Mounting Capabilities: Floor*

* Custom Mounting Available

Operational Environment: 10-120° F, 10-95% Humidity



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End-of-Arm-Tool (MCEOAT) Specifications

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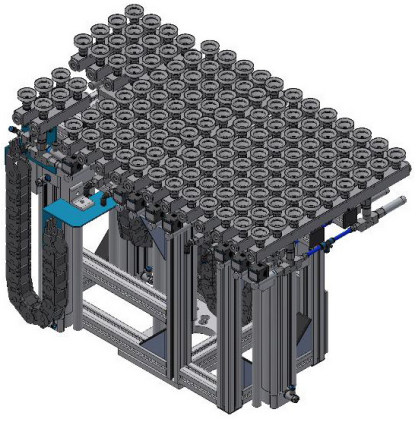
GENERAL

Tool Weight	200 lbs
Dimensions (fully retracted)	31.3" x 19.6" x 25.8"
Dimensions (fully extended)	31.3" x 19.6" x 37.8"
Cycle Time (1500 mm/s)	5.5 sec per part
Cycle Time (670 mm/s)	7.5 sec per part
Cycle Time (250 mm/s)	11.5 sec per part



ELECTRICAL

Input Voltage	24 VDC
Max. Current	18 mA per solenoid
Communication	Ethernet I/P

PNEUMATIC

Input Pressure (nominal)	70 psi
Input Pressure (max.)	100 psi
Airflow	80 cfm

GRIPPER SECTIONS

	2x3	4x4	4x9	8x9
Dimensions	6.3" x 3"	8.4" x 7.6"	18.5" x 8"	18.5" x 15.8"
TCP Data (mm)	X: 198.5 mm Y: -202.9 mm Z: 958.6 mm	X:-36.4 Y:-210.8 Z:958.6	X:57.5 Y:0 Z:958.6	X: 57.5 Y: 257.5 Z: 958.6
Lifting Capacity (@ 6 m/s2, 670 mm/s)	15 lbs	25 lbs	40 lbs	50 lbs
Lifting Capacity (@ 6 m/s2, 670 mm/s)	30 lbs	40 lbs	60 lbs	70 lbs

ROBOT COMPATABILITY

BRAND	MODEL*	NO. AXES	PAYLOAD	REACH
ABB	IRB 660-180/3.15	4	180 kg	3.15 m
ABB	IRB 6700-205/2.80	6	205 kg	2.8 m
FANUC	M-410iC/185	4	185 kg	3.143 m
FANUC	R-2000iC/210L	6	210 kg	3.1 m

**The MCEOAT can be easily modified to work with any 4 or 6 axis ABB or FANUC robot with a payload capacity ≥180 kg and reach ≥2.8m.*