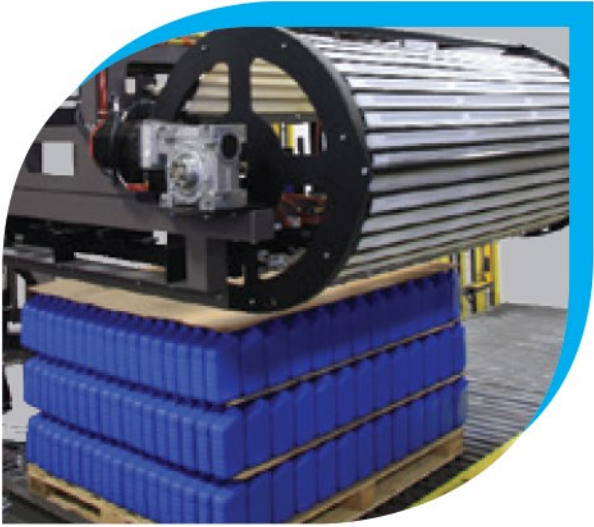


# MASTER PAL

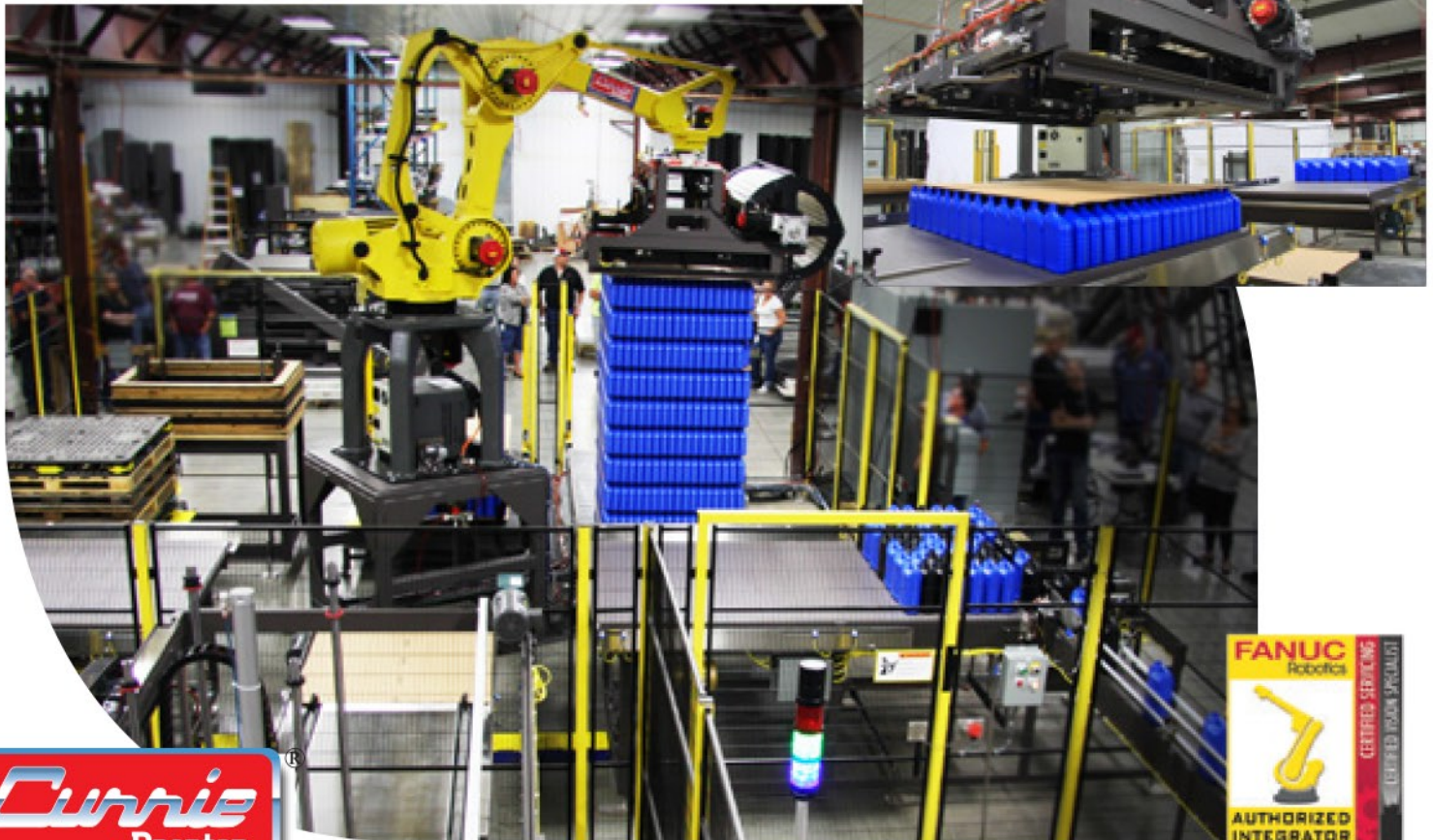
PALLETIZER AND DEPALLETIZER

## FULL LAYER ROBOTIC END-OF-ARM TOOL (EOAT)



Currie by Brenton is recognized by FANUC as having unique expertise in applying FANUC robots in various secondary packaging operations.

- Patented technology handles full layers of product up to 500 lbs.
- (De)Palletizes up to five full layers a minute of almost any type load.
- Innovative, servo-operated rotary tool outperforms vacuum pick and rollers.
- Provides consistent tight layer grids of palletized product through a unique “cradle and place” technology.
- Versatile end-of-arm technology field proven for multiple palletizing and depalletizing applications.
- Delivers superior results for empty or full bulk items, bags, cans, bottles or irregular shaped packs.
- Reliably handles open or sealed cases, trays, display packs, bundles, and bulk product.



## Operation



Currie custom layer forming.



MasterPal™ tool then lowers over the formed layer on the pick table to capture the product. The internal tool clamping energizes to stabilize the product within the formed layer.



Robot moves to slide the product off the table end while the floor of the MasterPal™ tool moves simultaneously replacing the table with the floor of the tool until the layer is completely captured within the tool.



Robot moves to the pallet load position and lowers next layer level.



MasterPal™ tool slatted apron retracts to place formed layer atop the waiting pallet/lower layer. Then the clamping system retracts and the robot raises the tool above the pallet.

## MasterPal™ Bulk (De)Palletizer

Speed	5 full layers per minute
Product Height (up to)	16"
Pallet Size (up to)	40" x 48" and 44" x 56"
Load Height (up to)	102"
Load Weight (up to)	500 lbs
Air Requirements	80 PSI

### MasterPal™ Tool Options

- Pallet Handling
- Base/Tier Sheet Handling
- Top Frame Handling

### Robot Cell Options

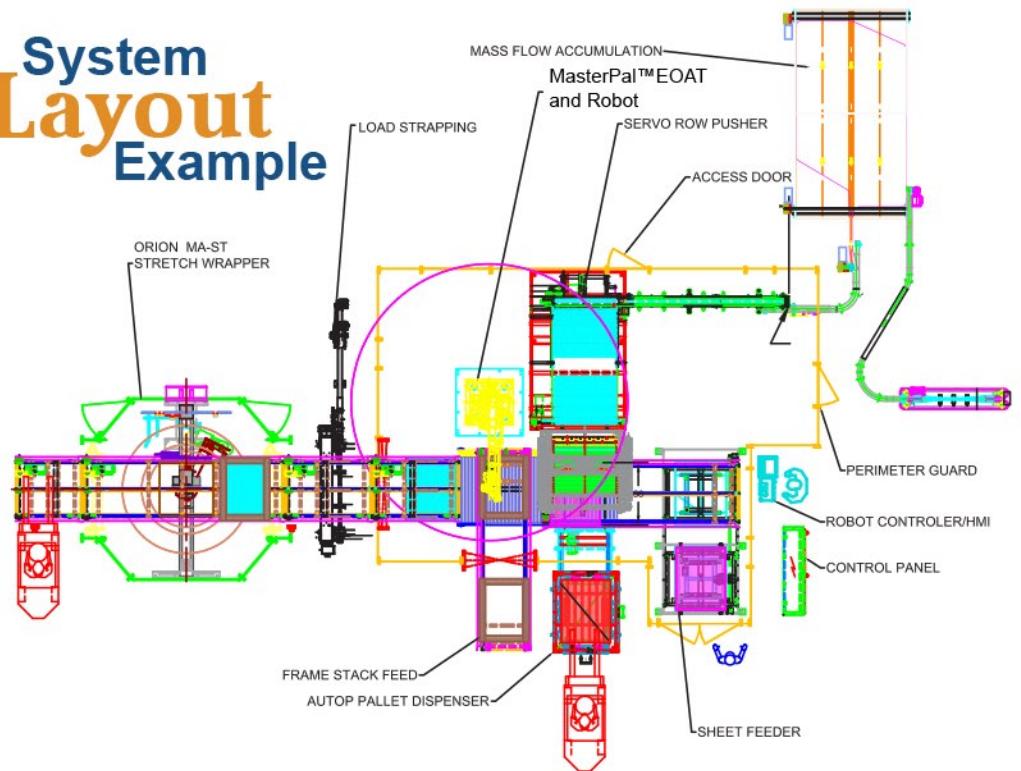
- Auto Load Pallet Dispenser
- Sheet Feeders
- Formal Training Program

## Slatted Apron Benefits

- Completely supports an entire layer of product from the bottom.
- Eliminates product handling limitations created by rollers or vacuum pick and place, which leave trays behind or fail to handle certain bulk items.
- Can accommodate most shapes and types of product; if it can be conveyed, it can be stacked. Even soft or gentle-requirement products are efficiently and consistently handled.



## System Layout Example



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