

Palletizing Solution

Paddle (Side-Gripping) EOAT – Flexible Palletizing

Basic Description

FANUC Robotics developed a unique Paddle (Side-Gripping) End Of Arm Tool for Case Handling. This innovative EOAT is designed for robotic Mixed Case Palletizing where a thin tool profile is needed to place cases next to each other on a pallet without tooling-to-case interference. Using proven methods of material handling, integrated with a FANUC Robotics' robot, this single-servo actuated tool provides the flexibility in handling mixed or fixed sizes and shapes of products (i.e., cases, bundles, etc...).

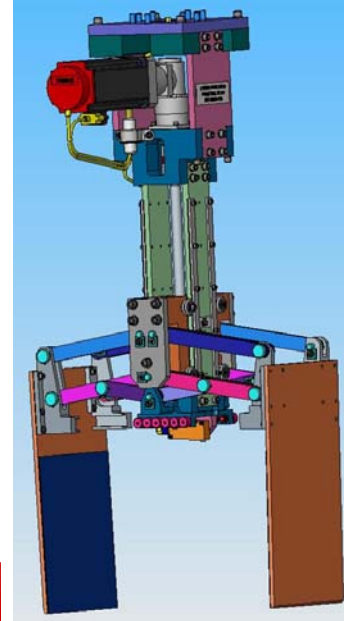
Technical Description

The servo-driven motion allows the EOAT to securely handle multiple product sizes, enabling mixed load palletizing and accommodating product changes under program control with no manual set-up required beyond initial product definition. The thin profile of the EOAT allows "insertion" of cases into pockets, which enables the robot to place product in more "useable" areas on a pallet.

FANUC Robotics' Paddle EOAT, the Solution for -

Mixed-or-Fixed case sizes:

- Min Width 4.5" (114mm).
- Max Width 18.8" (478mm).
- Weight to 45 lbs (20 kg).



Features

- The EOAT assembly utilizes a pair of servo actuated paddles to grip cases for palletizing. The servo driven vertical ball screw drive system allows the EOAT to grip multiple case widths, enabling mixed load palletizing and accommodating product changes under program control with no manual set-up required beyond initial case definition.
- The EOAT grips the cases between two parallel vertical blades (paddles) that address the cases dependent upon the specific product gripping requirements, with grip forces being generated either through the major or minor axis of the case.
- The EOAT is able to be pre-opened to a product dimension before being positioned for case pick to minimize cycletime.
- The EOAT closes to a predetermined grip force value range.
- Sensing is incorporated to monitor product presence and is used in conjunction with robot error recovery routines to quickly assist in establishing handling status allowing for efficient recovery from stopped conditions

Robot Models

Paddle EOAT's can be mounted on many FANUC robots including:

- FANUC M-410iB Series
- FANUC R-2000iA Series
- FANUC M-900iA Series

Currently featured on the FANUC M-410iB/160 robot.



Included in Packaged Solution

- FANUC M-410iB/160 Robot
- Cabling Dress For robot arm only
- Tool with Servo motor and cables
- Assembly of all components
- Custom Paddle Gripper Control Software macros
- Custom Paddle Gripper Teach Pendant Screens
- Aux Axis Configuration
- Tested and Ready for System Integration
- ROBOGUIDE® Basic Cell; configured with 3D model.
(provided after order placement for workcell development)
- Packaged part number **MO-1800-415**.

Options Priced Separately

- Custom Software
- Customer Specific Processing
- Work Cell peripherals
- Mixed Case Palletizing Random Order Palletizing Software
- Mixed Case Palletizing (MCP) Plug-in Software
- ROBOGUIDE®-HandlingPRO™



Intelligent Robot Solutions

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