

Innovative Packaging Machines for Pharmaceuticals, Cosmetics, Medical Devices, and Consumer Goods

Application Brief (AB_BlisterLoading)

Loading Alloyd Brands Blister Packaging Machines

Application: Loading Alloyd Brands Blister Packaging Machines

Products Used: TaskMate Robotic Loading System

The Challenge:

Alloyd Brands line of blister packaging machine offer a high speed solution for creating blister packages for a variety of products. However, manual loading operations do not always allow the machine to operate at maximum speed as the machine waits for product to be loaded by hand.

The Solution:

The TaskMate Robotic Loading System with ESS-designed end-of-arm tooling (EOAT) creates a highly flexible system for loading blisters at a rate of speed that allows the blister packaging machine to reach maximum production speeds. The compact robotic cell easily integrates with any Alloyd Brands machine.

How it Works:

Product is fed to the robotic cell via an infeed conveyor. A FANUC robot with ESS-designed EOAT uses vacuum suction cups to pick the products and place them into the open blisters. The EOAT may be designed to pick one or multiple products with each cycle. A number of FANUC robot models may be specified depending on the payload requirements and the speed of the blister packaging machine.

The Results:

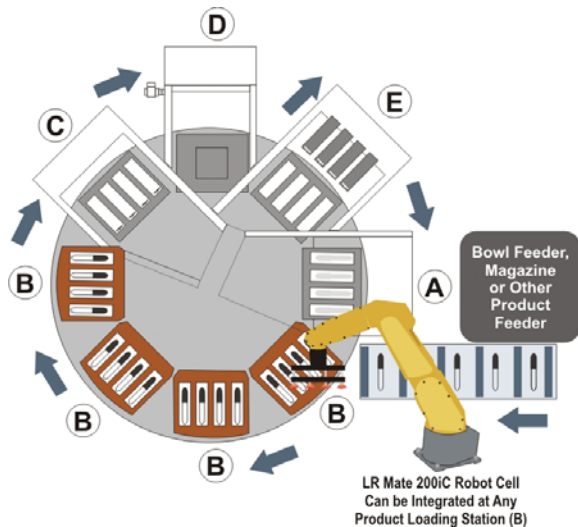
By installing a TaskMate Robotic Blister Loading System to feed the Alloyd Brands Blister Packaging Machine, the system achieved the full production speed of up to 20 cycles per minute. The flexibility of the robotic cell makes it ideal for a wide range of product types such as batteries, packets of dental floss, lip balm, USB drives, gift cards, and medical devices.

TASKMATE ROBOTS	FANUC Model #	# of Axes	Payload (kg)	Reach (mm)
	LR Mate 200iC	6	5	704
	M-TiA	4 or 6	0.5	280
	M-3iA	4 or 6	6	1350
	M-10iC	6	10	1420

TaskMate Robot Models and Payloads

BLISTER SEALING MACHINES	Model #	# Nesting Trays	Prod. Load Stations	Cycle Speed
	4SC69	4	1	20cpm
	Aergo 8	8	4	4-20cpm
	Aergo 8 Duo	8	3	4-20cpm
	Aergo SL	1	7	4-20cpm
	Aergo SL Duo	1	4	4-20cpm
	Aergo Carousel	16 or 20	8 or 12	6-20cpm
	Aergo CP	4	3	10cpm

Alloyd Brands Blister Packaging Machines



- (A) Blisters feed automatically into nesting trays.
- (B) Product loading stations.
- (C) Cards feed automatically into nesting trays.
- (D) Blisters are automatically heat sealed.
- (E) Blisters are automatically discharged from machine.

Alloyd Brands Aergo 8 Blister Packaging Machine with Robotic Loader



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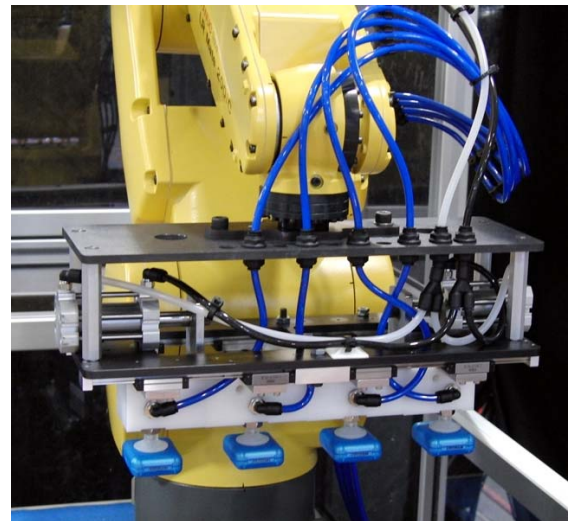
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Loading USB Drives in an Aergo 8 (Top Left) and Batteries in an Aergo SL (Bottom Left and Right)



LR Mate 200iC Robot Loading Lip Gloss in an Aergo 8 (Left) and 4-Up EOAT for Loading Dental Floss (Right)