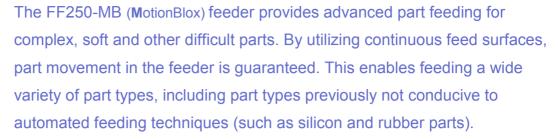
Flexible Parts Feeding with the FF250-MB







This feeder uses MotionBlox-10 for the servo-axes and is designed to interface seamlessly with CX-based robot systems from Adept Technology, Inc.







Features

- ✓ MotionBlox-10 control system
- ✓ Encoder output to support continuous conveyor tracking
- ▼ Emergency Stop interface
- ✓ Works with 110 and 230 VAC / 50-60 HZ
- ✓ Multiple feeders per robot system
- ✓ Integrated backlight option
- ✓ Multiple feed surface options (color & surface texture)







Benefits

- ✓ Compatible with all Adept CX-based robot systems
- ✓ Integrated with line and cell safety circuit
- ✓ Compatible with domestic and international power
- ▼ Continuous belt tracking enables high throughput
- Multiple feeders can present multiple parts for complex assembly applications

Additional benefits include high flexibility for production runs with high mix of parts and short productions cycles. The programmable flexibility guarantees the reusability of each assembly cell and decreases total cost of ownership.



FF250-MB Specifications

Throughput (varies with part type)

Indexina Mode

35 - 45 parts per minute (typical)

~60 parts per minute (maximum)

Belt Tracking Mode

>60 parts per minute possible

Height Adjustment

In-feed belt to pick-up belt 3" - 6" (76 - 152 mm)

Storage Capacity

Lift Bucket 183 in³ (3 dm³) In-Feed Conveyor 305 in³ (5 dm³) Return Conveyor 490 in³ (8 dm³)

Max Conveyor Speeds & Drive Type

In-Feed 3.3"/sec (83 mm/sec) AC Drive
Pick-Up 20"/sec (500 mm/sec) Servo Drive
Return 13.3"/s (332 mm/sec) AC Drive

Options

Pick-Up Conveyor (vision) Belt Selections

White Tacky (standard)

Black

White Polyester White Non-tacky

Black Cloth Backlight Selections

White

Red

Feeder Operation

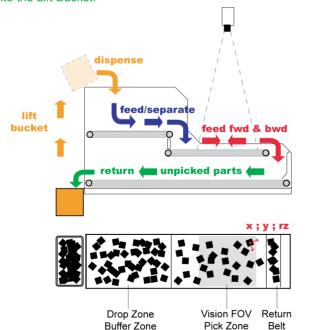
Bulk parts are placed in Lift Bucket.

The Lift bucket raises dumping parts onto In-Feed Conveyor.

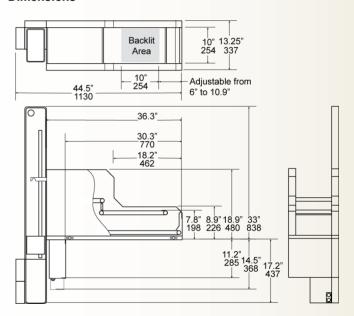
The In-Feed Conveyor advances parts onto the Pick-Up Conveyor.

The Pick-Up Conveyor advances at a faster rate, separating parts and presenting them to the vision system. The vision system locates the desirable parts and the robot picks the parts. The Pick-Up Conveyor advances, dropping unpicked parts onto Return Conveyor

The Return Conveyor advances re-circulating unpicked parts into the Lift Bucket.



Dimensions



Specifications subject to change without notice

