orion® Robotic Corner Board Applicator

The new Orion Robotic Corner Board Applicator, or RCBA, is the fastest and most efficient way to apply corner boards to pallet loads. Using robotics to pick and place the boards vastly increases the precision and simplicity of the process as compared to systems that place boards by mechanical means. Corner boards are attached to loads on the infeed section while transporting in to the wrapping area. Attachment methods can be tailored to customer specifications. Current methods include hot melt glue or nitrogen charged adhesive to produce a foam type adhesive for protecting the corrugate from damage when the boards are removed.

Other features of the RCBA include:

Non-contact load sensing: a variety of ultra-sonic or photoeye sensing methods can be used to assure accurate load sensing without the need to physically touch the load.

Category 3 Safety: full surround fencing, light curtains, emergency stop buttons and several other safety features assure that operators are protected while near the system.

Flexibility: the RCBA can be integrated on to most Orion automatic stretch wrapping systems including both FA Turntable and MA Rotary Tower models. It can also be retro-fitted to many third-party wrapping machines or configured as a stand alone device prior to any manufacturers stretch wrapping machine.

Reliability: Orion/Brenton is one of the country's top integrators of Fanuc robotics. Our technical experience with Fanuc is recognized as superior in sales, installation, programming and service.
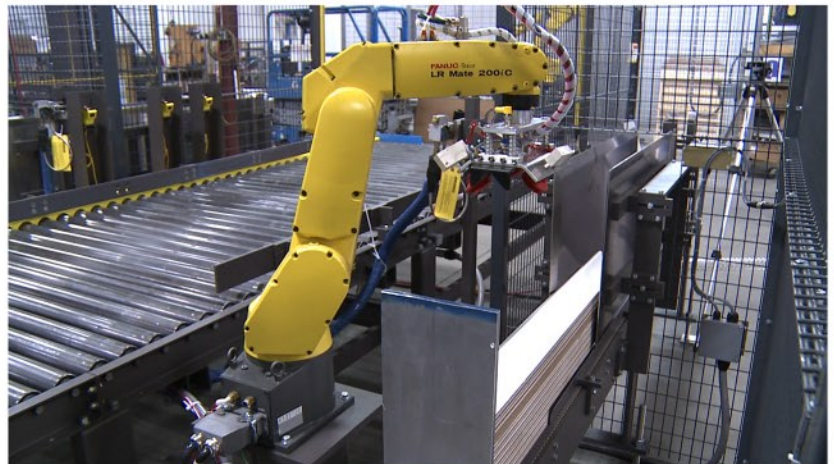
Corner boards are held to the load with beads of adhesive that are precisely sprayed on to the board. Customers can choose from a variety of adhesives to match their application.

Specifications

- Standard Load Sizes:Min: 36"x36" / Max 48"x48" / Height 20"-80"
- Throughput Rate Up To 60 Loads Per Hour
- Cornerboard Size Range: 3"x3" - 6"x6"
- Scored Corrugate Range: 6"x6" - 12"x12"
- Conveyor: 52" EW CDLR, 18" Top of Roller
- Magazine: Convey Stacks Into Cell, Can be Loaded While in Operation

The Orion Robotic Corner Board Applicator places two corner boards at a time in the infeed area of the stretch wrapper. Customers who place cornerboards manually can realize substantial cost savings when upgrading to robotic corner board application.
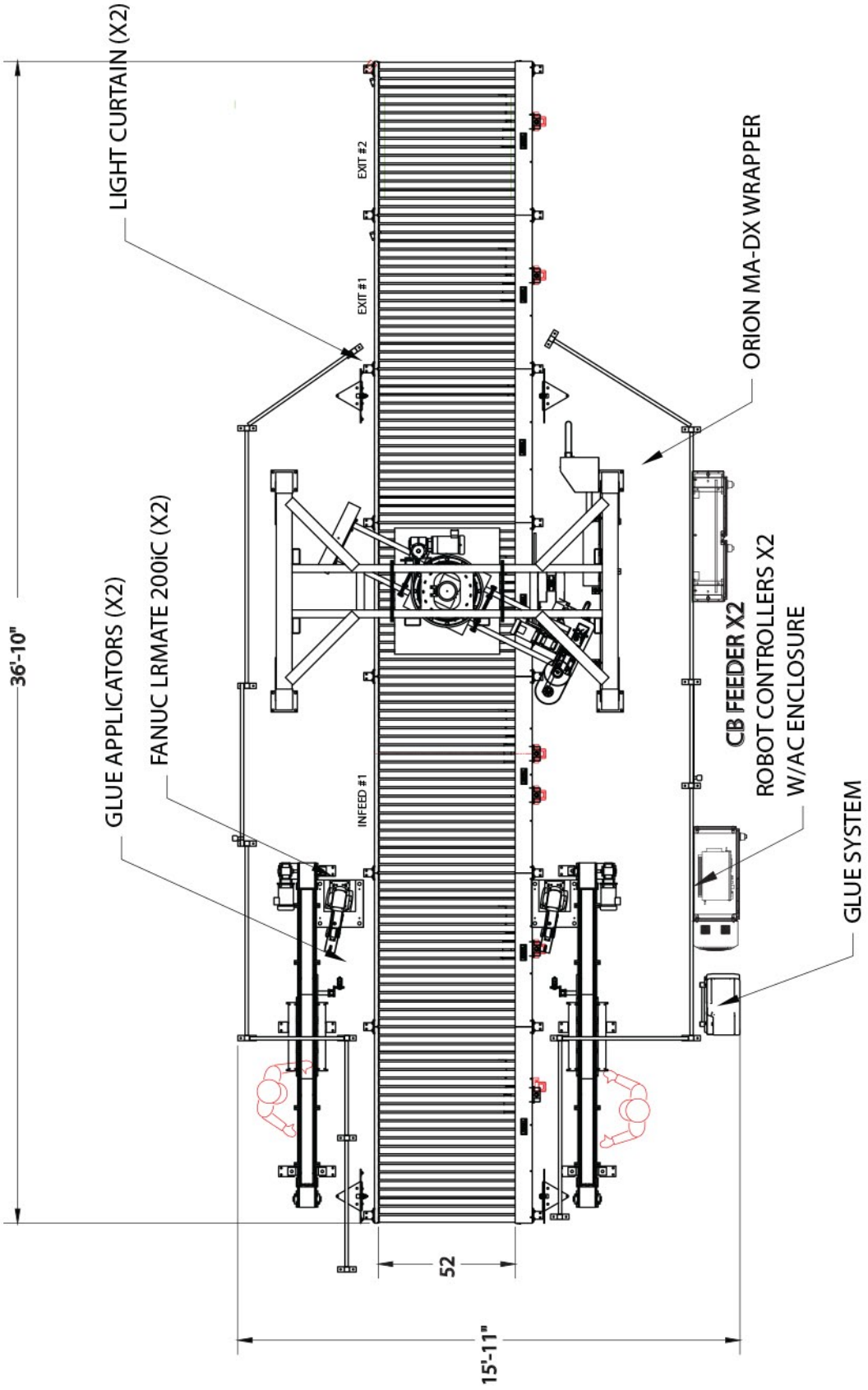
The Fanuc robot uses a specially engineered appliance to pick and place a variety of cornerboard types and sizes. Corner boards are loaded by operators outside of the Category 3 fencing and are then fed in to the production zone automatically.

LIGHT CURTAIN (X2)

EXIT #2

EXIT #1

ORION MA-DX WRAPPER

36'-10"

GLUE APPLICATORS (X2)

FANUC LRMATE 200iC (X2)

INFEED #1

CB FEEDER X2

ROBOT CONTROLLERS X2
W/AC ENCLOSURE

GLUE SYSTEM

52

15'-11"

PRELIMINARY REFERENCE LAYOUT, FOR SALES USE ONLY