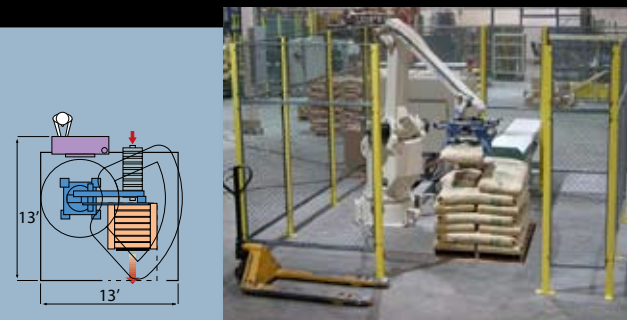


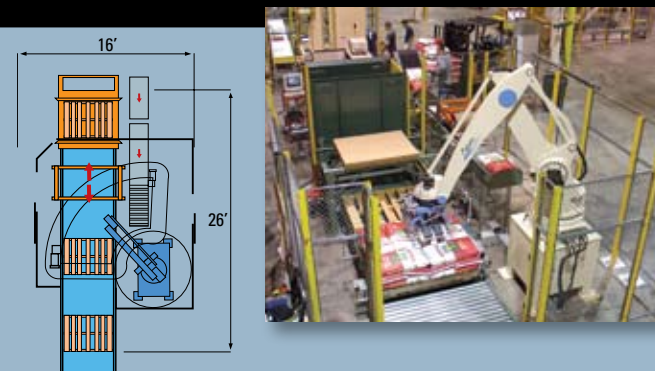
# Series

Columbia/Okura robotic palletizers are compact and cost effective. With the ability to manage one to four production lines concurrently, and stack onto one to six pallets, the possible system layouts are practically endless. Designed to use minimal floor space and with flexibility in mind, it is easy to find the automated solution that meets your palletizing and depalletizing needs.

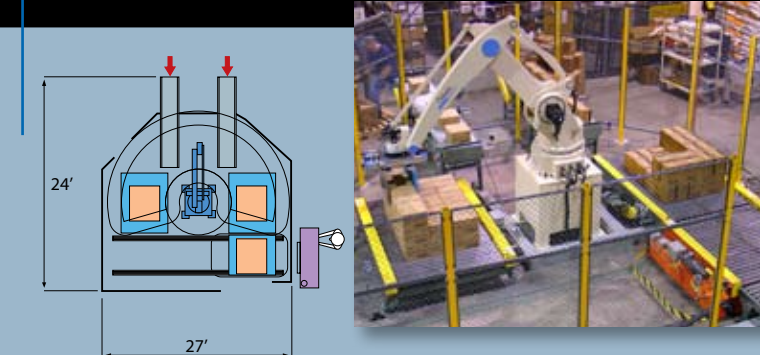
## Economical Layout



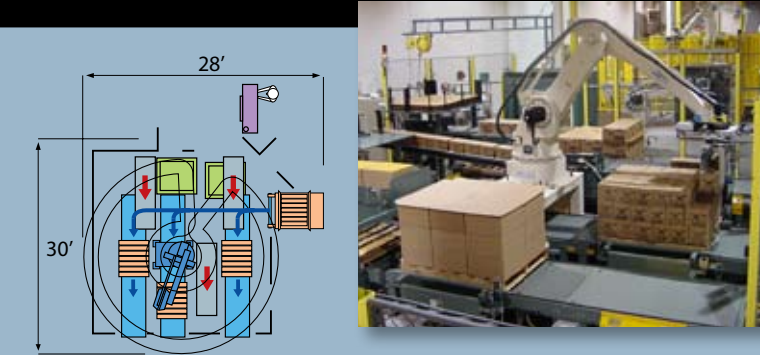
## Single Line Layout



## Two Line Layout



## Multiple Line Layout



## END EFFECTORS

Columbia/Okura has designed a wide range of standard end effectors to handle virtually any product, including cases, bags, trays, totes, bales, bundles, crates, pails, pallets and sheets. Our parts warehouse carries service parts for immediate support on all these standard designs. The end effectors shown here are some of the most common types utilized.

### PAIL STYLE

Pails



### CLAMP STYLE

Cases, trays, bundles, etc.



### FORK STYLE

Cases, trays, bundles, etc.



### CASE/BAG STYLE

Bags and cases



### VACUUM STYLE

Cases



## CONTROLS SOFTWARE AND PROGRAMMING

The Columbia/Okura robotic palletizing system utilizes highly advanced software to create pattern programs. The operating screen, complete with detailed graphics and easy navigation tools, provides quick access to the 50 standard product patterns already built into the program. OXPA-DIY "Do-it-Yourself" software is designed to make adding patterns to your robot a simple process. Custom patterns are created off-line on your personal computer or laptops, and then downloaded to the robot controller. Patterns can also be added at the control panel using the operator interface. No need to interrupt your production schedule; custom patterns can be created offline while your system is running, and downloaded between production runs.



### OXPA-DIY

"Do-it-Yourself" programming is Windows based and can be run from your laptop computer. Here's how it works...

## 1 ENTER PRODUCT INFO.



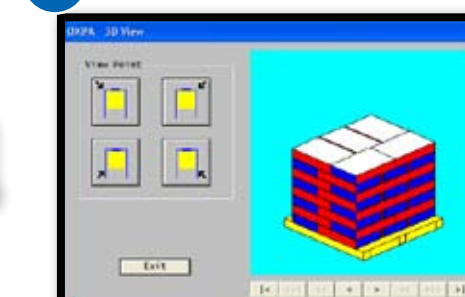
Launch DIY from your personal computer and enter the product weight, dimensions and the desired number of layers.

## 2 SELECT PATTERN.



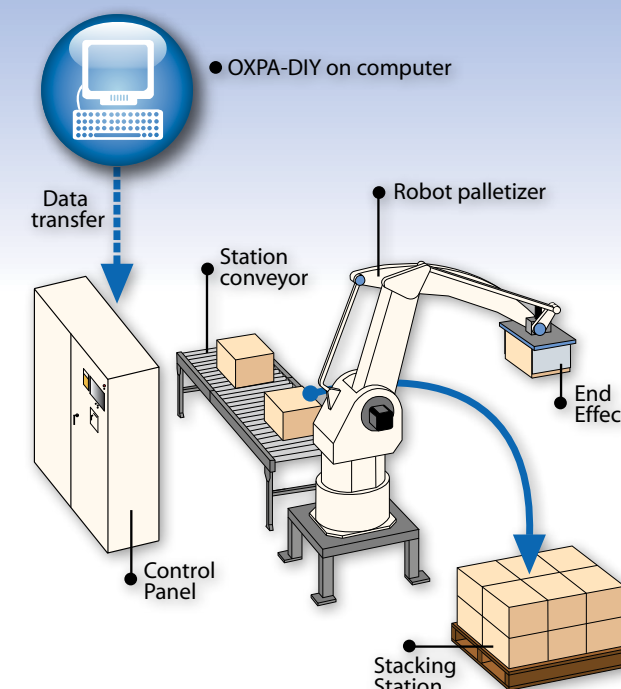
DIY displays possible stacking configurations based on your input. Just click on the one you want and the software automatically calculates the stacking coordinates for you.

## 3 DOWNLOAD. PALLETIZE.



Use the 3-D image of the pattern you have created to evaluate the complete pallet load from four different viewpoints.

Then download the pattern to the control panel and you're ready to palletize your product.



Model A700



Model A1600



Model A1800