

Columbia

COMPLETE PALLETIZING SOLUTIONS



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Custom Solutions Built with Proven Technology

Columbia Machine is a family owned company that began in 1937 as a small repair shop in Vancouver, WA. Today, Columbia has manufacturing facilities in the U.S., India and Poland and employs over 1,000 people worldwide. The headquarters is still located in Vancouver, WA and has over 300,000 square feet of space that is dedicated for design, machining, fabricating, assembling and testing of a variety of products.

ABOUT US



Columbia Machine manufactures high level, floor level and robotic palletizers, load transfer stations and provides complete system integration. All equipment is built with the highest priority on safety, flexibility, performance and support to ensure your palletizer maximizes production every day for the life of your palletizer. By consistently supplying over 100 palletizers annually, Columbia is considered to be the leading palletizer manufacturer in North America. With over 80 years of experience, the broadest palletizer line and over 4,000 palletizers installed in the industry Columbia is sure to have a solution to fit your needs.

INDUSTRIES SERVED



Have a challenging package type? Columbia can stack it! Columbia palletizers are designed for current and future package types including cases, display packs, totes, trays, bundles, shrink film without pad, bales, plastic containers, crates, small cases and more!

» FOOD
» BEVERAGE

» PAPER
» PERSONAL CARE

» DAIRY
» CHEMICAL

» PHARMACEUTICAL
» BUILDING PRODUCTS



Small Cases



Trays



Bundles



Totes

SAFETY



Columbia's standard safety package contains Category 3 electrical safety system including AB's SensaGuard dual circuit safety interlocks, full height light curtains and comprehensive guarding package. This safety package provides a fully guarded, Performance Level D palletizer to keep your employees safe while meeting production demands.

Full Height Light Curtains



Upper Level Guarding



Fallen Case Detection



FLEXIBLE SOLUTIONS

Modular Layouts

Are you limited on space? Replacing existing equipment? Working around obstacles? No problem. Columbia offers a choice of high level, floor level and robotic palletizers with countless layout possibilities. You can easily fit a Columbia palletizer into your workflow and your floor layout.



Various Package Types

We can handle your specific product mix with proven modular components that can be placed on most all models to gently and efficiently stack your package type.



Dual Infeed



Tie Sheets



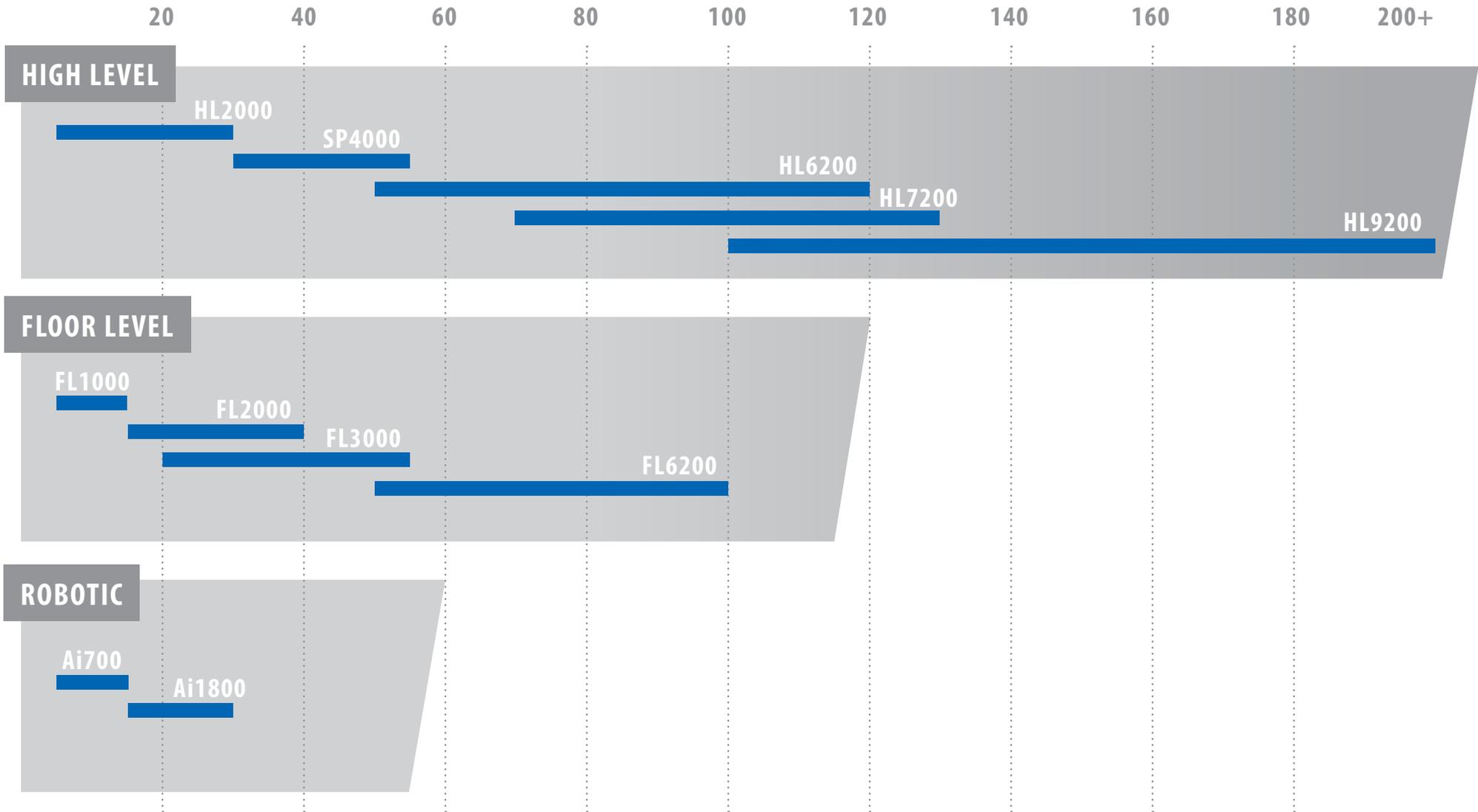
Soft Turn



PALLETIZER LINE

Columbia manufactures high-speed, high-level, floor-level and robotic palletizers. With the broadest palletizer line and over 4,000 palletizers installed in the industry, Columbia is considered to be the leading palletizer manufacturer in NA.

CASES PER MINUTE*



*Speed ranges are always layout and pattern dependent.

STANDARD FEATURES



Columbia has a palletizing solution for virtually any application and all Columbia palletizers are equipped with more standard features designed to maximize throughput and uptime. There are also features included to address the industry's increasing demand for higher levels of sustainability.

- » Comprehensive Guard Package
- » Category 3 Safety Electrical System
- » Interlocked Access Doors to Load Build Area
- » Full Height Light Curtains at Discharge
- » Automatic Hoist Protection Pins
- » Product Manager for Pattern Creation and Tuning
- » Heavy Duty Sensor Mounts
- » 4-Sided Pallet Stack Retention
- » Stack Light / Beacon
- » Smart Squeeze Technology for Misformed Layer Detection
- » Fallen Case Detection (High Level)
- » Low Pallet Detection
- » Low Sheet Detection
- » Heavy Duty Construction
- » 80 Pitch Hoist Chain
- » Infeed Tunnel Guard
- » UL Approved or CSA Certified Control Panel
- » Ethernet Enabled PLC with Distributed I/O

FLOOR LEVEL PALLETIZERS

Columbia's floor level palletizers are available in countless layout possibilities and provide consistent performance from one to over 100 cases per minute. The infeed elevation of Columbia's floor level series makes them ideal for close coupling to case packers and case sealers and is also at a height for easy access for maintenance needs. Columbia's floor level palletizers are built to last.

FL1000*

10+ CPM



FL2000

20+ CPM



FL3000

30+ CPM



FL6200*

62+ CPM



*Optional integrated stretch wrapper.

HIGH LEVEL PALLETIZERS

Columbia's high level palletizers offer a wide range of solutions from a small footprint, economical option to the industries fastest row forming high level palletizer. The high infeed elevation allows for better traffic flow and higher speeds, up to 120 cases per minute.

HL2000

20+ CPM



SP4000

40+ CPM

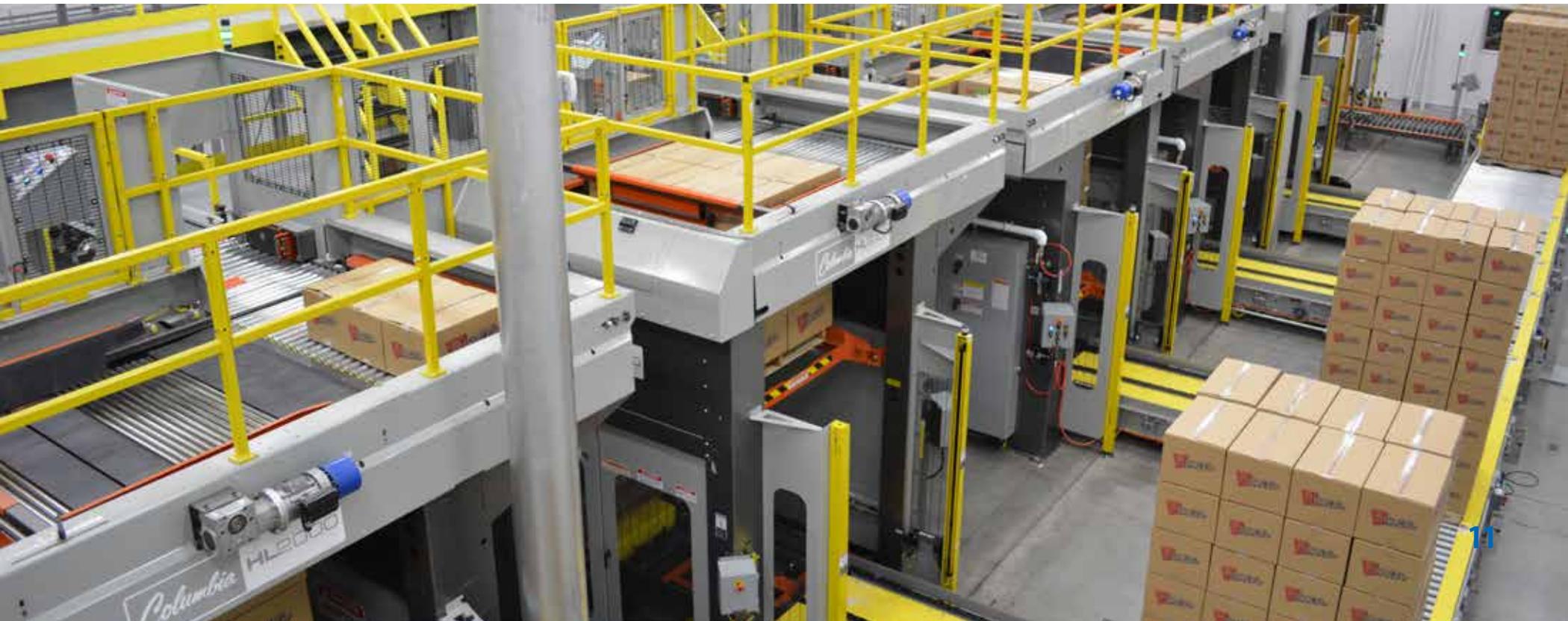


HL6200

62 - 120 CPM



Multi-Machine Fully Integrated System



HIGH SPEED, INLINE PALLETIZERS

Columbia's high-speed palletizers provide the ultimate in flexibility. Incorporating Columbia's new programmable laner technology with Columbia's proven soft turn or patented VPT technology and configurable layer table to provide accurate and stable layer forming. Maximum performance is achieved with speeds up to 200 cases per minute.

HL7200

72+ CPM



HL9200

92 - 200 CPM





VPT

PATENTED
TECHNOLOGY

Columbia[®]
Complete Palletizing Solutions

ROBOTIC PALLETIZERS



For over 20 years, Columbia/Okura has handled almost any type of product packaging from bag palletizing systems in abusive and harsh environments to high-speed, multi-robot, multi-picking case applications. Each system is custom designed and tailored to fit almost any space, speed or budget.

Bundles



Pails



Bags



SYSTEMS INTEGRATION



Columbia provides complete systems integration services, ensuring your Columbia palletizer fits perfectly with your upstream and downstream equipment. Our comprehensive services include dedicated Project Management, controls, mechanical and electrical installation, commissioning and training. We make sure that the process goes smoothly, the result is outstanding, and you don't have to juggle multiple equipment vendors.

- » Accumulation Conveyors
- » Automatic Guided Vehicles
- » Bar-Code Readers
- » Case Elevators
- » Check Weighers
- » Controls
- » Double Stackers
- » Full Pallet Load Accumulating Conveyors
- » Incline / Decline Conveyors
- » Labelers
- » Metal Detectors
- » Palletizer Discharge Conveyors
- » RFID Portals
- » Shuttle Cars
- » Sorting Systems
- » Spiral Conveyors
- » Stretch Wrap Machines
- » Transfers and Turntables

PALLET & SHEET DISPENSERS



Pallets and sheets are very important parts of the palletizing process. Pallets allow for loads to be easily conveyed, moved by fork lift or stored in racks. Sheets help to stabilize the pallet load and protect the packaging during transit and storage. There are many elements impacting both pallets and sheets so it is important to select a palletizer vendor that is experienced with these factors.

Columbia offers a variety of pallet dispensers to handle all pallet-handling needs from staging pallet dispensers, lift and separate and multiple pallet handling solutions.

With a selection of sheet dispenser options Columbia is sure to meet your needs whether your application requires slip, tie or cap sheet, bulk or cartridge loading or multiple sheet options on a single palletizer.

ACCESSORIES



Depending on your application and package type one of Columbia's numerous accessories may be integrated into your palletizing solution. These options may help to gently handle your product, stabilize the pallet load or increase productivity.

CONTROLS



Columbia Machine has an “in-house panel shop” that maintains a UL508 rating and builds panels to both CSA and CE standards.

Included with every palletizer control panel is Columbia’s state-of-the-art controls package. The controls package includes an Allen Bradley Compact Logix PLC, PanelView Plus 700 or 1000 Color Touch Screen and Columbia’s Product Manager. You’ll appreciate the package’s user-friendly interface and your palletizer’s increased up time and productivity.

- » Easily create or adjust product patterns
- » View built-in production reports, detailed help screens & I/O status
- » Adjust drive speeds & timer settings

With Product Manager, you are able to meet current and future palletizing needs, all without connecting a computer to the PLC.

PROJECT SUCCESS



Your project is in the best hands with our experienced and qualified Project Managers (PM). Your dedicated PM is here to provide strong, expert leadership from the start of the project to ensure that all your objectives are met and delivered to you on time and on budget.

Prior to shipping, we test run all palletizers through a vigorous 12-hour dry cycle and then invite customers to join us for a Factory Acceptance Test (FAT), where we run your palletizer with your product at speed so that you feel 100% confident in the palletizing solution you are soon installing at your production facility.

CUSTOMER CARE



Columbia's Customer Care team is here to support you through the life of your palletizer. We're ready to support you with every aspect of your palletizing system. Columbia provides installation and start-ups, training, maintenance programs and on going support of palletizer parts and service. It's our goal to keep your plant running at peak performance.

Service

With Columbia's customer care technicians available across the country, we are ready to install your palletizers, accessories and upstream or downstream equipment.

Parts

Columbia knows the importance of using genuine OEM parts over aftermarket replacement parts and is proud to offer parts support 24/7.

Modifications

A new product, package type or speed change may require modifications to your palletizing system and Columbia is here to support you with your future needs.

Training

Keep your plant operating at peak performance by training your operators and maintenance personnel to solve operational issues as they arise. Formal classroom training with a PMMI Certified trainer is available.



COLUMBIA MACHINE, INC.

107 GRAND BLVD.
VANCOUVER, WA 98661

+1 360 694 1501

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