

Columbia

PALLETIZER MODIFICATIONS & ACCESSORIES CATALOG



WWW.PALLETIZING.COM

VISION

We will be the preferred supplier of engineered product solutions in the targeted markets we serve. We will provide exceptional customer value through strategic marketing, innovative product development and unparalleled customer service.

MISSION

We are committed to recognized leadership in serving targeted segments of the Concrete Products, Material Handling and Manufacturing Services industries.

We will “always” see our business through “the eyes of our customers,” and provide them with superior solutions through innovation, quality, reliability and continuous improvement.

We will leverage the expertise, product knowledge and technology of our business units to better serve our current and future customers.

Our core competencies will be marketing, product development, manufacturing technology and customer service.

We value safety, integrity, trust, fairness, professionalism and teamwork in relationships with our customers, employees, business partners, suppliers and shareholders.

We respect our legacy and reputation within our communities and global markets.

We strongly encourage personal growth and the involvement of all employees in achieving company goals.

We will secure our future through strategic investments and profitable growth.



Dear Valued Customer,

For more than fifty years the Palletizer Division at Columbia Machine, Inc. has developed the reputation as the world's premier palletizer manufacturer, offering the most complete line of high speed, floor level, high level and robotic palletizers, load transfer stations and systems integration. Designed with superior construction, maximum flexibility and upgradable performance... your current Columbia palletizer cannot be worn out!

We have put together the Columbia Machine Palletizer Modifications & Accessories Catalog to ensure that your Columbia palletizer can meet the current and future demands of your plant. This publication contains popular accessories and modifications for all Columbia palletizers and load transfer stations. The catalog is updated regularly as more options are made available. Please note that not all of our accessories and modifications are listed in this catalog and if you have a special request or question about your existing palletizer, please contact our Palletizer Customer Care Department at the number provided below.

The catalog is categorized into seven different sections. Section one contains modifications available for your Columbia sheet dispenser. Section two contains modifications available for your Columbia pallet dispenser. Section three focuses on the accessories that are available for your electric palletizer. Section four highlights the modifications available for hydraulic palletizers. Section five consists of electrical modifications that are available. Section six outlines the safety modifications items available for your palletizer. Section seven contains modifications available to your Columbia load transfer station.

Each of the items listed in the catalog consists of a description of the item, benefits, the applicable models, and if self installation or professional installation is required. If the item requires professional assistance, Columbia highly recommends a qualified Columbia Service Technician aids with the installation and start up. This can be arranged at the time of your purchase of the item, or after the item has been delivered.

When contacting the Columbia Customer Care Department to place your order, please ask about other rebuild or performance improvements available for your palletizer.

Thank you for your business and we look forward to working with you!

Sincerely,

Columbia Machine Inc.
Palletizer Division Customer Care Department
Phone: 1-360-694-1501
Toll Free: 1-800-628-4065
Email: MHService@colmac.com

COLUMBIA CUSTOMER CARE DEPARTMENT

We are here to support you with your installation, start-up, equipment audits, parts orders, service, preventative maintenance programs and modifications to existing equipment - 24-hours a day, 7 days a week.

800-628-4065 OR DIRECT **360-905-1614**

JEFF SAGER

Modifications & Technical Sales Support
Extension 795
jefsag@colmac.com

DIANE ROUZEE

Machine Modifications
Extension 374
diarou@colmac.com

RUSS SCOFIELD

Parts Sales
Extension 378
russco@colmac.com

NORM YOUNG

Parts Sales
Extension 279
noryou@colmac.com

TOM DOLAN

Service Supervisor
Technical Support Specialist
Extension 285
tomdol@colmac.com

BRANDON GRASER

Technical Support / Training
Extension 489
bragra@colmac.com

JENNIFER GAMBOA

Service Administrator
Extension 510
jengam@colmac.com

TOMMY THOMPSON

Customer Care Manager
Extension 412
tomtho@colmac.com

TABLE OF CONTENTS

Introduction Letter	i
Customer Care Contact List	ii

SECTION 1 | Sheet Dispenser Modifications

1097 Sheet Dispenser	1
1098 Sheet Dispenser	1
1091 Sheet Dispenser	2
597 Sheet Dispenser	2
6098 Sheet Dispenser	3
Bulk Loading Sheet Dispenser Option	3
Sheet Cartridge Loading Option	4
High Speed Sheet Placement	4

SECTION 2 | Pallet Dispenser Modifications

708F Pallet Dispenser	5
702 Pallet Dispenser	5
704 Pallet Dispenser	6
703LS Pallet Dispenser	6
Electric Lift for Pallet Dispenser	7

SECTION 3 | Electric Palletizer Accessories

Case Stop Assembly	8
Close Center Rolls Kit	8
Pusher Gate Assembly	9
Soft Turn Upgrade	9
FL100 to FL125 Conversion	10
FL100 to FL150 Conversion	10
Heavy Product Upgrade Kit	11
Pacer / Meter Belt Replacement	11
Pattern Addition	12
Side Layer Guide Position Sensing Alarm	12
Small Case Conversion	13
Speed Up Kit	13
Patented Variable Position Turner (VPT)	14
Side Shift	14
Dual Infeed	15

TABLE OF CONTENTS

SECTION 4 | Hydraulic Palletizer Accessories

Close Center Rolls Arranging Dual Chain FL200 / FL500	16
DAC Hoist Replacement	16
Arranging Chain for FL500	17
Case Stop Assembly	17
Automatic Layer Positioner	18
Pivoting Transition Assembly	18

SECTION 5 | Electrical Modifications

Variable Frequency Drive (VFD)	19
Product Manager	19
PLC Conversion	20

SECTION 6 | Safety Modifications

High Visibility Guarding	21
Warning Horn / Beacon	21
Row Hoist Pin Lockout	22
Safety Pin Detect	22
Additional Emergency Stop(s)	23
Light Curtains	23
Category III Safety Upgrade	24
Trapped Key	24
Fallen Case Detect	24

SECTION 7 | Load Transfer Modifications

Pallet Magazine Guard Kits	25
Receiving Deck Shims	25
Bucket Wedge Kit	26
Cold Climate Package	26
Multiple Load Positioning	27
Pallet Cart & Receiving Deck Shims	27

SECTION 1

1097 SHEET DISPENSER

DESCRIPTION:

Used to place a slip sheet on staged pallets.

Field Service Installation Required.

BENEFITS:

- Low Cost.
- Flexible solution for slip sheet.
- Bulk loading available.

MODELS:

All or standalone



1098 SHEET DISPENSER

DESCRIPTION:

Used to place slip or tie sheets in load.

Can also be used to place cap sheets at discharge.

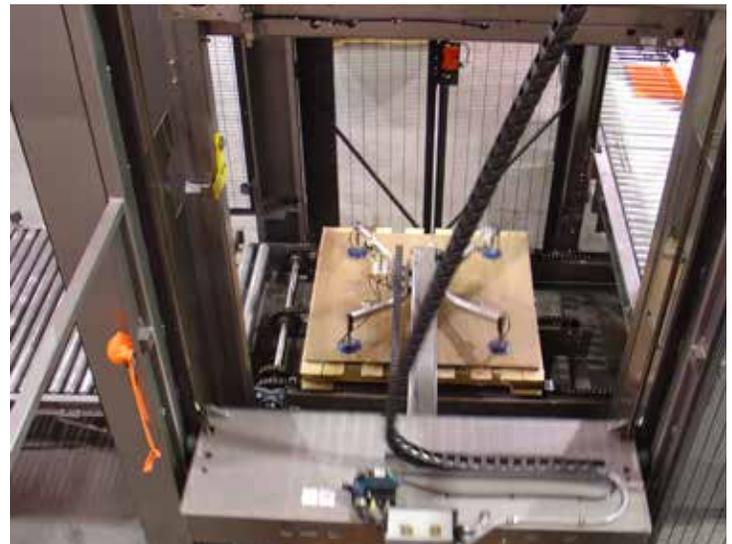
Field Service Installation Required.

BENEFITS:

- Available for slip, tie, cap or slip & tie sheet applications.
- Flexible uses.
- Bulk loading available.

MODELS:

All or standalone



1091 SHEET DISPENSER

DESCRIPTION:

Used to place a single size of sheet, either slip or tie, directly into the load building area.

Field Service Installation Required.

BENEFITS:

- Easy to operate.
- Short cycle time.
- Low cost.

MODELS:

FL1000



597 SHEET DISPENSER

DESCRIPTION:

Used to place sheets on staged pallets.

Field Service Installation Required.

BENEFITS:

- Motorized carriage travel.
- Rugged durability.

MODELS:

All or standalone



6098 SHEET DISPENSER

DESCRIPTION:

Places tie and/or cap sheets in load.

Field Service Installation Required.

BENEFITS:

- Motorized carriage travel.
- Reduced cycle times.

MODELS:

High level machines



BULK LOADING SHEET DISPENSER

DESCRIPTION:

Bulk loading sheet dispenser allows the operator to place a pallet load of sheets onto the deck of a scissor lift that raises the sheets to the top of the palletizer.

Field Service Installation Required.

BENEFITS:

- Increases efficiency of sheet handling.

MODELS:

High level machines



SHEET CARTRIDGE LOADING OPTION

DESCRIPTION:

2 cartridges are included to allow operator to fill the empty cartridge while palletizer is still running with the 2nd cartridge.

Field Service Installation Required.

BENEFITS:

· Limits downtime for sheet loading.

MODELS:

HL2000, HL4000, SP4000, HL6000, HL6200,
HL7200, HL9200



HIGH SPEED SHEET PLACEMENT

DESCRIPTION:

Servo driven linear actuated arm.

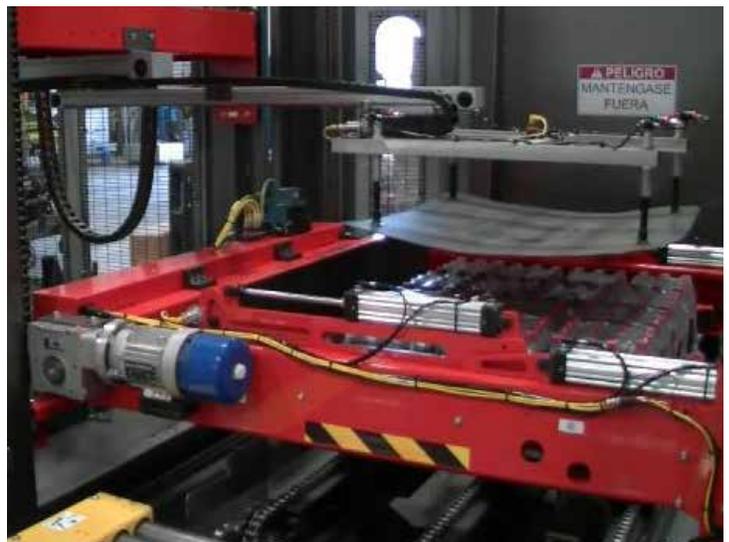
Field Service Installation Required.

BENEFITS:

· Heavy-duty and increases speed of sheet placement.

MODELS:

1098 Sheet Dispenser



SECTION 2

708F PALLET DISPENSER

DESCRIPTION:

Uses electric motor driven forks and lift carriage to dispense and/or stack up to 3 pallets per minute.

Field Service Installation Required.

BENEFITS:

- Can be used as a pallet dispenser or as a pallet stacker.
- Accommodates a variety of pallet sizes with little or no adjustment.
- Increase overall pallet handling efficiency.
- Can be standalone or as an addition to an existing palletizer.

MODELS:

All or standalone



702 PALLET DISPENSER

DESCRIPTION:

Uses a powered chain drive system to feed a pallet from the bottom of the pallet stack to the load building area.

Can be modified to accommodate multiple pallet sizes.

Capacity of 1200 Pounds (Approximately 12 pallets).

Field Service Installation Required.

BENEFITS:

- Simple design makes for easy maintenance.

MODELS:

All



704 PALLET DISPENSER

DESCRIPTION:

Uses lifting mechanisms to raise the pallet stack while the bottom pallet is fed into the load building area.

Field Service Installation Required.

BENEFITS:

- Full pallet stacks may be staged into this dispenser.
- Can be a standalone unit to feed pallets into multiple palletizers.
- Simple design allows for easy maintenance.

MODELS:

All or standalone



703 LIFT & SEPARATE PALLET DISPENSER

DESCRIPTION:

Uses a powered chain drive and hydraulic lift table system to feed the bottom pallet to the load building area. Can be modified to accommodate multiple pallet sizes. Capacity of 1200 Pounds (12 pallets).

Field Service Installation Required.

BENEFITS:

- Reduces Pallet Damage.
- Simple design makes for easy maintenance.

MODELS:

All



ELECTRIC LIFT FOR PALLET DISPENSER

DESCRIPTION:

Electrically driven scissor lift for pallet dispenser.

Field Service Installation Required.

BENEFITS:

- Eliminates hydraulic pump maintenance.

MODELS:

OK-1 and 703LS



CASE STOP ASSEMBLY

DESCRIPTION:

Kit includes all mechanical and pneumatic parts needed to add a new pop-up stop assembly between the rollers of the row former conveyor.

Field Service Installation Suggested.

BENEFITS:

- Separates run and turn cases to maintain intentional spaces between cases in a layer.
- Creates new patterns.
- Increases pattern forming capability.

MODELS:

All



CLOSE CENTER ROLLERS KIT

DESCRIPTION:

Kit includes 1.9" and 1.375" diameter rollers and belts. All rollers are driven, reducing the roll centers.

Field Service Installation Suggested.

BENEFITS:

- Allows palletizing of smaller package types, as small as 4.25 inches wide.
- Keeps product upright eliminating jams in the palletizer.

MODELS:

All



PUSHER GATE ASSEMBLY

DESCRIPTION:

Generate front to back gaps in a pattern. Includes new gate assembly completely assembled with gap cylinders, a second gate cylinder and all pneumatic and electrical components.

Field Service Installation Required.

BENEFITS:

- Allows palletizing of patterns with internal gaps.
- Loads are flush to the outside.

MODELS:

All



SOFT TURN UPGRADE

DESCRIPTION:

Ideal for labels out and products that require soft handling, such as bliss and display cases.

Field Service Installation Required.

BENEFITS:

- Turn Cases 90°, 180°, or 270° at high speeds.
- Reduces product damage.
- Touchless turning.
- Replace turntables for increased uptime.

MODELS:

All or standalone



FL100 TO FL125 CONVERSION

DESCRIPTION:

Replaces the current air pusher bar with a new electric flight bar pusher.

Field Service Installation Required.

BENEFITS:

- Allows a faster transfer from row former to stripper plate.
- Reduces the row push cycle time.
- Increases the overall speed of the palletizer.

MODELS:

FL100



FL100 TO FL150 CONVERSION

DESCRIPTION:

Includes full layer storage, row forming conveyor, electric flight bar row pusher and full layer pusher.

Field Service Installation Required.

BENEFITS:

- Increases full layer storage during hoist cycles.
- Increases overall palletizer speed.

MODELS:

FL100, FL125



HEAVY PRODUCT UPGRADE KIT

DESCRIPTION:

This includes replacing the stripper plate with a 1/2" plate, replacing the lift and stripper plate drives with MGM motors and adding a second gate cylinder.

Field Service Installation Required.

BENEFITS:

- Smooth reliable operation of hoist under heavy load requirements.
- Superior braking for more accurate and consistent stops.
- Increase hoist speed, increasing the production throughput.

MODELS:

FL100, FL125, FL2000, FL3000



PACER/METER BELT REPLACEMENT

DESCRIPTION:

Replaces the existing meter belt, jumproll or metering grate. Comes completely assembled with a split drive- one of which is controlled by a VFD, Photocells, carton guides and safety guarding. Length and width of the pacer/meter belt can be customized based on your needs.

Field Service Installation Suggested.

BENEFITS:

- Automatically generates proper gap between cases.
- Allows for continuous flow of product into the palletizer's row former.

MODELS:

All



PATTERN ADDITION

DESCRIPTION:

Allows for additional patterns as required by your customer's requests. Additional case stop assemblies may be required.

Field Service Installation Suggested.

BENEFITS:

- Pallet fit for product.
- Satisfy customer needs.

MODELS:

All



SIDE LAYER GUIDE POSITION SENSING AND ALARM

DESCRIPTION:

Sense position of side layer guides to confirm that they have closed to the proper position.

Field Service Installation Required.

BENEFITS:

- Prevents damage to product.
- Prevents downtime.

MODELS:

All



SMALL CASE CONVERSION

DESCRIPTION:

Conversion includes 1/8" PVC metering belt, skid plate, soft turn infeed, wide overhead reciprocating row pusher and modular plastic belting on the accumulating table.

Field Service Installation Required.

BENEFITS:

- Smooth transition between metering belt and turning area.
- Positive transfer from row forming area to layer forming area.
- Handles cases as small as 4.25".

MODELS:

FL150, HL6000



SPEED UP KIT

DESCRIPTION:

Contact Columbia to discuss the solutions available to speed up your palletizer.

Field Service Installation Required.

BENEFITS:

- Increase case per minute speed.
- Meet your customers' needs.
- Increase machine throughput.

MODELS:

All



PATENTED VARIABLE POSITION TURNER (VPT)

DESCRIPTION:

With Columbia's patented VPT technology, servos are used to dynamically position the center turners laterally on an in-line palletizer while the layer is being formed. VPT locations are accessed and programmed via the HMI making layer pattern additions and optimization extremely simple. Fewer turners are required (maximum of only four) and when used in conjunction with Columbia's adjustable lane position technology, pattern forming capability is virtually limitless.

Field Service Installation Suggested.

BENEFITS:

- Maximizes speed & flexibility while orientating cases +/- 90°.

MODELS:

HL7200, HL8000, HL9200



SIDE SHIFT

DESCRIPTION:

Servo driven side shift is added after the turner and before the row former to position cases into two rows of the pattern.

Field Service Installation Required.

BENEFITS:

- Reduces the number of row pushes, maximizing speed.

MODELS:

FL2000, FL3000, FL6200, HL2000,
SP4000, HL4000, HL6000, HL6200



DUAL INFEED

DESCRIPTION:

Take a single high speed production line and divide it into two infeeds to quickly move product into the palletizer.

Field Service Installation Required.

BENEFITS:

- Increases speed of palletizer.

MODELS:

FL2000, FL3000, FL6200, HL6000, HL6200



CLOSE CENTER ROLLS ARRANGING DUAL CHAIN

DESCRIPTION:

Includes completely assembled row pusher chains, row former conveyor and stop assemblies, electric motor drives for the assembled arranging conveyor with rollers on 3.25" centers to handle small product.

Field Service Installation Required.

BENEFITS:

- Handles small cases down to 4.25" in width.
- Reduces the row push cycle time.
- Increases the overall speed of the palletizer.

MODELS:

FL200, FL500



DAC HOIST REPLACEMENT

DESCRIPTION:

This replaces the existing hoist with a 48" x 48" Dual Direct Acting Cylinders style stripper plate, 18" gate, automatic centering side layer guides and all necessary accessories.

Field Service Installation Required.

BENEFITS:

- Replaces rack & pinion hoist with direct acting cylinder.
- Direct replacement for rebuild.
- Time savings.

MODELS:

FL200, FL500, FL610



ARRANGING CHAIN FOR FL500

DESCRIPTION:

Upgrade your palletizer with the addition of a layer table and electric dual chain transfers, one for the row push and one for the full layer push.

Field Service Installation Required.

BENEFITS:

- Increase case rate.
- Creates full layer storage during hoist cycle and pallet change over.
- Reduces delivery conveyor accumulation.

MODELS:

FL500



CASE STOP ASSEMBLY

DESCRIPTION:

Kit includes all mechanical and pneumatic parts needed to add a new pop-up stop assembly between the rollers of the row former conveyor.

Field Service Installation Suggested.

BENEFITS:

- Separates run and turn cases to maintain intentional spaces between cases in a layer.
- Creates new patterns.
- Increases pattern forming capability.

MODELS:

FL200, FL500, FL510, FL610, B50



AUTOMATIC LAYER POSITIONER

DESCRIPTION:

Replaces the current manually adjustable stripper bar with an automatic motorized stripper bar. The position of the stripper bar is pre-programmed and pattern selectable.

Field Service Installation Required.

BENEFITS:

- Automatically moves the stripper bar to allow different layer sizes to be positioned front to back on the pallet.
- Usually used for centering multiple sizes of loads onto a pallet.

MODELS:

All



PIVOTING TRANSITION ASSEMBLY

DESCRIPTION:

Add a transition plate to cover the space between the row former and full layer conveyors. The plate is pneumatically operated and automatically opens and closes to allow the row pusher flight bar to move through the opening.

Field Service Installation Required.

BENEFITS:

- Positive transfer from row forming area to layer forming area.

MODELS:

FL150, HL6000



VARIABLE FREQUENCY DRIVES

DESCRIPTION:

Addition of Allen Bradley Power Flex 5 variable frequency drives to existing control panel.

Field Service Installation Suggested.

BENEFITS:

- Less maintenance and quieter machine.
- Fine-tunes each pattern configuration to optimize palletizer throughput, including difficult package types such as heavy products, high center of gravity products, etc.
- Connects simply to DC Output modules for four (4) preset speeds or optional Analog Module for infinite speeds.

MODELS:

All



PRODUCT MANAGER

DESCRIPTION:

Product Manager is a database that stores all the data required to run multiple products on a palletizer.

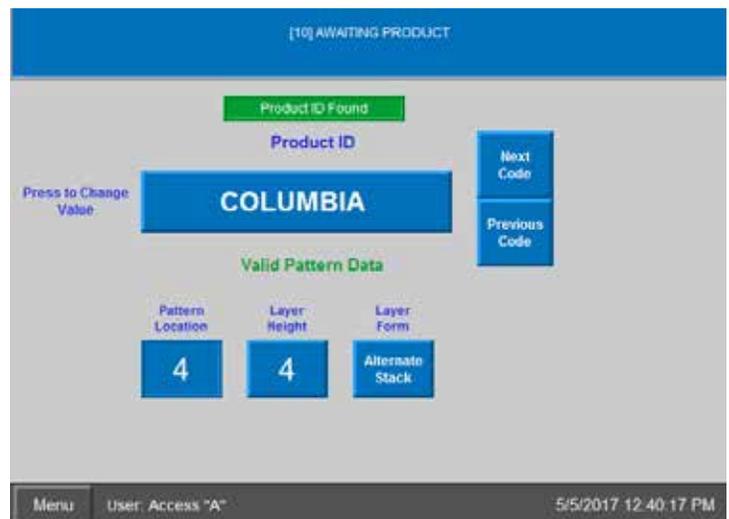
Field Service Installation Suggested.

BENEFITS:

- Add, delete and modify pattern configurations without the need of a computer.
- Ability to adjust timers, drive speeds and sheet positions directly from the HMI.
- Reduces the need for a service representative to make pattern changes.

MODELS:

All



PLC CONVERSIONS

DESCRIPTION:

Controls conversion to newer Allen Bradley SLC Series, Control Logix or Compact Logix PLC's.

Field Service Installation Required.

BENEFITS:

- Creates more consistent forming patterns with faster scan times.
- More readily available replacement parts.
- More versatile programming techniques.
- Upgrades to current Columbia standards.

MODELS:

All

NOTE:

Rockwell Automation no longer supports:

- PanelView 500 Series
- SLC Series
- Texas Instruments



SECTION 6

Columbia Machine, Inc. recommends upgrading safety items on any existing equipment. Safety upgrades could include, but not be limited to, integrated machine guarding, interlocked perimeter guarding, horns and beacons, operator interface, emergency stops, PLC/HMI upgrades, and Category 3 PLd Safety Circuitry which includes light curtains at the discharge, and RFID interlocked door switches. The customer must perform a risk assessment on existing equipment to determine if the equipment meets Columbia’s current guarding standards. Please contact the modifications department with any questions regarding the current safety standards.

HIGH VISIBILITY GUARDING

DESCRIPTION:

If there is an area of the palletizer that needs additional visibility for your operation, guarding made of mesh or lexan can be designed for your machine.

Self Installation.

BENEFITS:

- Easy to install.
- Clear view of operation.

MODELS:

All



WARNING HORN / BEACON

DESCRIPTION:

Warning horn sounds and beacon flashes when your equipment is put into automatic, giving a six second delay while the horn sounds prior to the equipment starting.

Other warnings are available.

Self Installation.

BENEFITS:

- Warns workers that the equipment is about to start.
- Prevents injuries to workers.
- Add different beacons for different alarms.

MODELS:

All



HOIST PIN LOCKOUT

DESCRIPTION:

Allows for mechanical lockout of row hoist for maintenance in an elevated position.

Self Installation.

BENEFITS:

- Personnel protection.
- Ease of maintenance.

MODELS:

All



HOIST PIN DETECT

DESCRIPTION:

The machine will not operate until the safety pins have been removed.

Field Service Installation Required.

BENEFITS:

- Personnel protection.
- Machine security.

MODELS:

All



ADDITIONAL EMERGENCY STOPS

DESCRIPTION:

Additional Emergency Stop buttons installed around your palletizer allows for quick shutdown of your equipment in the event of an emergency.

Field Service Installation Required.

BENEFITS:

- Quick shutdown of palletizer.
- Personnel safety.
- Prevents damage to product.

MODELS:

All



LIGHT CURTAINS

DESCRIPTION:

Light curtains can be placed at any location to limit access to the palletizer.

Field Service Installation Required.

BENEFITS:

- Personnel safety.
- Component of Category 3 safety requirements.

MODELS:

All



CATEGORY III SAFETY UPGRADE

DESCRIPTION:

Our Category 3 electrical safety circuits include A-B SensaGuard dual circuit safety interlocked door switches, and full height light curtains in the discharge area. Upper level guarding on all high level palletizers include a perimeter hand railing and guarding panels to protect employees from moving parts. Infeed tunnels and interfaced guarding panels on low level machines, as well as the option of perimeter guarding and Fortress Trapped Keys.

Field Service Installation Required.

BENEFITS:

- Personnel safety while maintaining optimal performance.

MODELS:

All



TRAPPED KEY

Keyed access to all entry points.

Field Service Installation Required.

BENEFITS:

Keeps your employees safe while still meeting production demands by providing convenient and safe access when needed.

MODELS:

All



FALLEN CASE DETECT

Photo eyes that detect product that has fallen under hoist.

Field Service Installation Required.

BENEFITS:

Prevent damage to product and palletizer.

MODELS:

HL2000, HL4000, SP4000, HL6000,
HL6200, HL7200, HL8000, HL9200

PALLET MAGAZINE GUARD KITS

DESCRIPTION:

Kit includes guards around the pallet magazine and a door switch.

Self Installation.

BENEFITS:

- Provides additional protection around the area where the Load Transfer Station stacks the incoming pallets.
- Door switch prevents cycling when the door is open, allowing safe removal of the pallet stack.

MODELS:

Standard LTS, LT35, LTS-C



RECEIVING DECK SHIMS

DESCRIPTION:

Deck shims are placed onto the receiving deck and held into place by steel guide blocks that fit into holes in the receiving deck.

Self Installation.

BENEFITS:

- Allows for different pallet heights to be used in the receiving deck area.
- Eliminates the need to make plate and load backrest adjustments.

MODELS:

All LTS



BUCKET WEDGE KIT

DESCRIPTION:

Kit includes hydraulic operated wedge that extends out from the lower part of the backrest to support the tapered side of the pails.

Field Service Installation Required.

BENEFITS:

- Allows smooth transfer of tapered pails.
- Insets the base of the pail onto the pallet.
- Additional spacers support the base of the entire load.
- Can be switched on for pail transfers or switched off for standard transfers.

MODELS:

Standard LTS



COLD CLIMATE PACKAGE

DESCRIPTION:

Kit includes a hydraulic tank heater that heats the oil to a constant 120°F in the hydraulic tank when the machine is not running and a panel heater that maintains 70°F in the panel.

Self Installation.

BENEFITS:

- System starts and runs at normal speed in climates as cold as 0°F.
- Reduces moisture in the hydraulic system.
- Maintains warm environment for electrical components.

MODELS:

All LTS



MULTIPLE LOAD POSITIONING

DESCRIPTION:

Allows the load transfer station to center the product load on the “go to” pallet by allowing the loads to be inset, overhung or flush along the pallet’s edge.

Field Service Installation Required.

BENEFITS:

- Centers pallet load on pallet.

MODELS:

All LTS



PALLET CART & RECEIVING DECK SHIMS

DESCRIPTION:

Includes shims, made of UHMW plastic, placed onto the receiving deck and / or pallet cart and held into place by steel guide blocks.

Self Installation.

BENEFITS:

- Allows pallets with multiple heights to be used without making adjustments to the machine.
- Quick and easy to change.

MODELS:

All



PALLETIZER TRAINING

EXPERT TRAINING CUSTOMIZED TO YOUR NEEDS

Keep your plant running at peak performance with knowledgeable operators and maintenance personnel.

Columbia Machine offers a variety of training programs for operators and maintenance personnel. From basic palletizer operation to specific machine training and advanced electronics and maintenance, Columbia's training programs are designed to improve the efficiency of every plant's workforce.

Training can take place at our training center in Vancouver, Washington or at your plant for a more customized, hands-on training option. In-plant training is a great way for your operators to get specialized training on the very equipment they run every day. Specific courses can be tailored for all Columbia palletizers and load transfer solutions.

Training programs are very popular and require at least four weeks notice to schedule and prepare the customized material.

To request a **FREE Training Needs Assessment** or to learn more, contact Brandon Graser at 360-694-1501 ext. 489 or email Brandon at bragra@colmac.com.



TRAINING TOPICS

- Safety
- Operation and Maintenance Training
- Mechanical Preventative Maintenance Training
- Electrical Preventative Maintenance Training
- Palletizer Controls Training (Upon Request)

OPTIONS

- Train the Trainer program
- Training Manual for each Trainee
- PMMI Certified Trainer available
- Job Performance Aids (JPAs) (Upon Request)
- In-plant or Vancouver, WA classroom
- Formats available:
 - Digital (CD or USB)
 - Hard copy



**EVERYTHING
WE DO
ALWAYS
FROM THE EYES
OF OUR
CUSTOMERS**

Columbia

ENGINEERED SOLUTIONS // WWW.COLMAC.COM

Columbia

COLUMBIA MACHINE, INC.

107 GRAND BLVD. VANCOUVER, WA 98661

+1 800 628 4065 | WWW.PALLETIZING.COM

WWW.COLMAC.COM