PS520
PALLET LOAD STACKER

Heavy duty pallet load stacker to save time and labor in a minimum amount of floor space

The Kolinahr Systems PS520 Pallet Load Stacker offers quick, accurate pallet load stacking at speeds up to 80 double stacks per hour making it the ideal alternative to forklift stacking.

Efficient Design

The PS520 mounts on both sides of the pallet conveyor to minimize floor space requirements. Pallet loads are located in the conveyor flow direction with a set of positive stop gates. A pneumatic alignment system locates the pallets in a consistent position in the cross-conveyor direction. The Pallet Load Stacker uses pneumatic slide arms to grab the pallet and lift it with an electric motor.

PLC Controlled

The machine is controlled by a PLC, which can communicate with the conveyor, stretch wrapper, and palletizer, making it an integral part of the packaging line. By tracking pallets via a data stream provided from the palletizer, non-matching or partial pallets are allowed to pass through.

Built to Last

The PS520's heavy-duty, two-post steel frame delivers maximum stability and quick installation, and is ideal for high volume warehousing operations where space is at a premium.

More Information

Online http://www.kolinahrsystems.com/products.php?p=7
E-mail info@kolinahrsystems.com
Phone: (513) 745-9401

Load on Foot sensor   Load alignment system   Positive stop gate

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Technical specifications

Size (L x W x H)	137" x 178" x 130" (3.5 m x 4.5 m x 3.3 m)
Electrical	480 VAC, 60 Hz, 3 phase, 10 A; 110VAC,60 Hz, 15A; 24 VDC Control Panel
Pneumatics	3 SCFM (80 Lpm) @ 60 PSI (552 kPa) Clean Dry Air
Pallet Size	40" x 48" CHEP or GMA pallet loads traveling broad side first
Maximum base pallet load height	56" on 30" conveyor
	68" on 18" conveyor
Maximum lifted pallet load weight	1200 lbs
Double-stack cycle time	45 sec

Options	
Heavy-duty upgrade	Increased maximum pallet load weight
HMI status display	(WonderWare, Vorne, RSView, PanelMate, PanelView, more)
Customer-specified control system	(Allen-Bradley PLC/SLC/CLX, Flex, I/O, more)
Custom load height	Increased maximum base load height
Custom load sizes	Adaptation for a wide range of pallet load sizes
Extra capacity	Multi-stack (3+) capability
Over-stack prevention	"Top Level Full" detector (photocells and partial load tracking)
Safety switches	Additional maintenance access gate safety switches
Turnkey installation	On-site pre-inspection and equipment installation

Standard Features	
Compact size	Uses minimal amount of floor space; easy to install
Variable-speed electrical lift	Low impact starts and stops
	Better accuracy of lift placement when setting down load
Load alignment system	Extremely accurate pallet stacking
Load on Foot sensor	Ensures lifting carriage will not retract until load is down
Open design	Open top allows for higher multiple stacks and ease of installation
Heavy-duty stand and mounting	Large posts (12" L x 8" W x 3/8" THK) and mounting ensure maximum stability for pallet load lifting
PLC fault messages	Operator friendly HMI controls and problem identification
24 VDC UL Listed control panel	Safer than 120 VAC control panels
Short pick-up travel	Faster stacking than standard forklift style pickup
	Reduced chance of pallet misalignment
Linear carriage travel rails	Heavy-duty linear bearing for years of quiet, precise, dependable operation
Top of Load sensor	Minimal lifting motion for faster throughput
	Accurate pallet load height measurement
Industrial safety features	Wire mesh safety enclosure
	LEXAN® safety guard around 480 VAC in control panel
	NEMA 12 controls enclosure
	Lockable electrical disconnect and air dump valve
Chain safety spring	Spring loaded chain take-up on tower lifting chain provides soft connection to lessen drive impacts during jam conditions
Carriage over-travel stops	Upper and lower stops ensure mechanical over-travel protection
Fault beacon	Initiates operator alert when machine is down
Ratcheting Emergency Fall Prevention	Provides "zero stored energy" state during maintenance

Kolinahr Systems, Inc.

6840 Ashfield Drive

Cincinnati, OH 45242

USA

Tel: +1 513 745 9401

Fax: (513) 794-3240

info@kolinahrsystems.com

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