



FEEDING SYSTEMS

PALLETIZING

Flexible – Variable – Compact

PALLETIZING

STIWA MECHATRONIC SYSTEMS – YOUR PLUG & WORK PARTNER FOR OPTIMIZED PRODUCTION

As a leading manufacturer of automation technology, we have been providing products, projects and services for many years, thereby enabling optimized technology integrations with the best possible overall effect. Through the targeted interaction of mechanics, software and electronics, we achieve production solutions that guarantee the

greatest possible flexibility, standardization, and safety. Our approach is all about “cooperative growth”, meaning we are there every step of the way along our client’s value added chain. No matter whether you need supply, handling, process, or automation systems, STIWA is your partner for mechatronic special solutions!

PALLETIZING SYSTEMS

Modern production systems often require products to be deposited on pallets or trays. STIWA palletizing solutions allow high-performance assembly units to operate at low cycle times. As an integrated interface for the processing

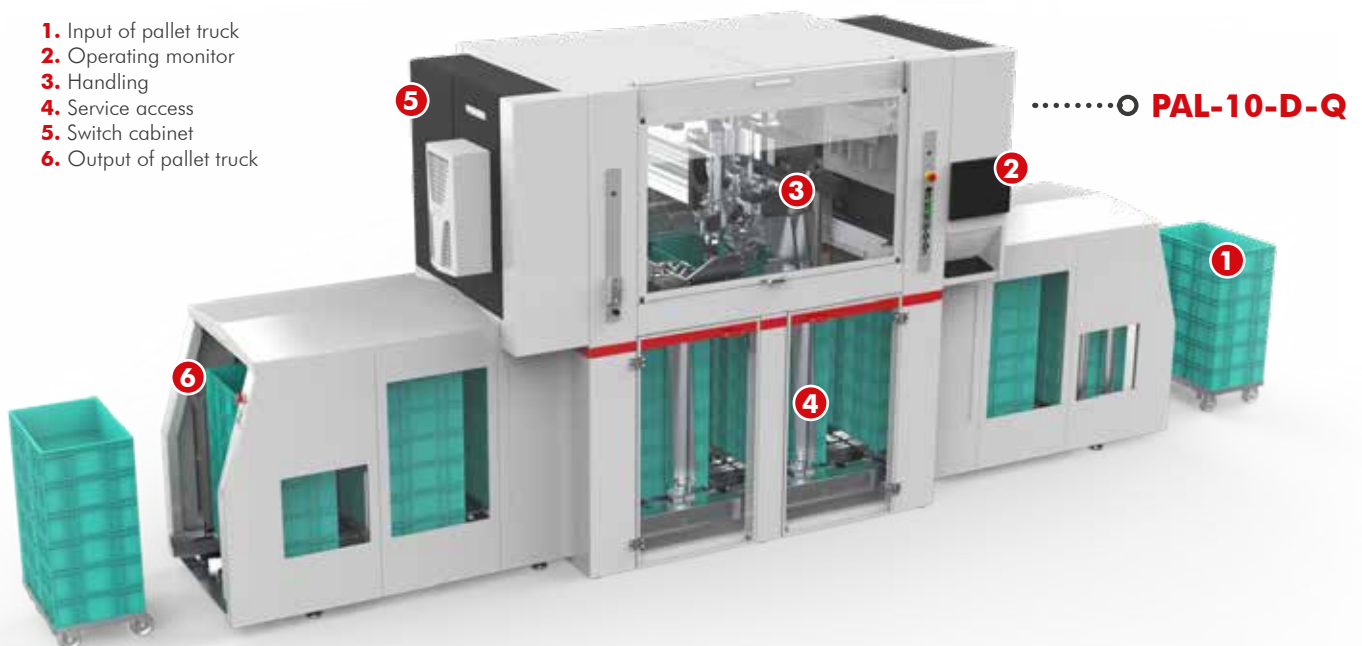
of blister pack parts, trays, and SLC containers (small load carriers), they guarantee optimum automated parts logistics in production. This ensures the greatest possible efficiency in the supply and disposal process.

MECHANICAL STRUCTURE

Our palletizing systems are available in three basic versions. Two-stack, three-stack, and pull-through palletizing with automatic pull-through for the buffering of several stacks.

These can also be customized with handling components, if necessary. Our systems use intelligent H-kinematics for effective pallet transportation.

1. Input of pallet truck
2. Operating monitor
3. Handling
4. Service access
5. Switch cabinet
6. Output of pallet truck



CHARACTERISTICS

H-Kinematics for Pallet Transport

- » Stable linear guide with two-rail systems
- » Drive motors are fixed in place in the H-kinematics and cannot move
- » Dynamic servo drives with brake unit
- » Maintenance-free carbon toothed belt

Integrated Handling Protection

- » Automatically positioned protection separates the machine room from the operating personnel and ensures safety when changing the pallet truck without shutting down the system
- » The protective doors are secured with a locking system

Pallet Stack

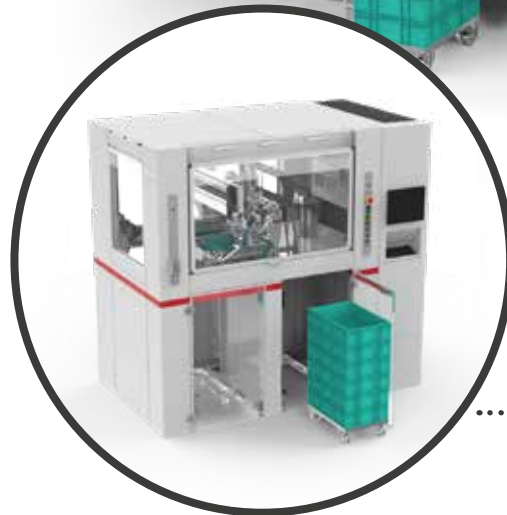
- » Processing directly from the transport trolley
- » Elimination of floor influences due to feed rollers in the standby-by position depending on the pallet truck
- » Automatic tensioning device for positioning the transport trolley and fixing it in place
- » Poka-yoke protection of the pallet layer

Multitouch Operation

- » Software-supported teaching of the pallet geometry and depositing/removal positions
- » Freely configurable tray types: number of parts per tray, tray height, number of trays

OPTIONAL ACCESSORIES

- » Robotic or adaptive handling
- » Automatic removal of blister pack from small load carrier containers
- » Processing of double stack possible on one floor roller
- » Floor roller inquiry with optional RFID/DMC scan or with hand scanner
- » Integrated label printer for blister packs
- » Automatic protective doors for bringing in autonomous transport trolleys
- » Processing from autonomous transport systems
- » Traceability (DMC detection of each component)
- » PWC-buffer belt for the decoupling of the production system



○ PAL-10-S3

.....○ PAL-10-S2

YOUR BENEFITS

- » Pallet truck can be changed during operation
- » Automatic detection of the stack height
- » Standardized interfaces for easy integration
- » Autonomous handling (optional)
- » Stand-alone operation with independent control

INTELLIGENT MEANS OF PRODUCTION

With high-performance control cycles of our products, we enable you to control your processes almost in real time. Included basic software guarantees networked processes. The convenient integration ensures quick implementation and optimized control. There is also the option of an ERP connection for production and product data collection, which opens up further analysis options and records important parameters from your production processes.



TECHNICAL DATA

Palletizing	PAL-10-S2 (two-stack system)	PAL-10-S3 (three-stack system)	PAL-10-D-Q (passage palletizing)
Device length (incl. switch cabinet)	2620 mm	3680 mm	4105 mm (shortest version with 6 trucks) + 1160 mm for two further trucks in the buffer area
Device depth	1395 mm	1495 mm	1440 mm
Device height	2285 mm		
Weight (incl. switch cabinet, excl. handling and pallet gripper)	1400 kg	1800 kg	1850 kg (shortest version with 6 trucks) + 200 kg for two further trucks in the input and output area
Pallet size (length/width)	up to 600 mm/up to 400 mm		
Pallet weight (per pallet)	up to 15 kg	up to 25 kg	up to 15 kg
Stack height	up to 900 mm		
Pallet change time	from 8 seconds	from 11 seconds	from 8 seconds
Noise emission	78 dBA		
Power supply	3 x 400 V AC ± 5% 50/60 Hz		
Max. back-up fuse	13 A		
Interface	EtherCAT or ProfiNet		

COMPLETELY INTEGRATED:

- » Flexible plug & work solutions tailored to your needs
- » Control of the IIoT (Industrial Internet of Things): Optimized technology and system integration thanks to many years of experience in the production and networking of automation systems
- » Safe processes with the best possible overall effect and lowest total costs
- » Adaptive, subsequent production: Based on the pre-production processes and according to the situational requirements
- » Comprehensive standardization – high scalability



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