



I PACKSTATION



최적화된 수동 혼합 팔레타이징

i-Packstation은 WSR의 인체공학적 MCS 케이스 처리 기술을 결합하여 전 세계 물류 센터에서 혼합 제품 팔레트 작업을 간소화합니다. 기존 수동 주문피킹에서는 작업자가 시간당 200-250개의 혼합 케이스를 처리할 수 있는 반면, i-Packstation에서는 인체공학적 작업 환경을 통해 시간당 600-700개의 혼합 케이스를 정확하고 유연하게 적재할 수 있습니다.

WSR의 i-Packstation은 혁신적인 Stack Assist Tool [레이저 지침 및 화면 기술과 당사의 Intelligent Palletizing Software를 결합한 솔루션]을 통해 기존 수작업 박스 피킹 솔루션 대비 최대 3배의 성능 향상을 제공합니다.



i Packstation specifications



NUMBER	TYPE
1	Lifting unit #1: - lowest position ca. + 500 mm - highest position ca. + 4460 mm = (pallet height 2000 mm)
1	Pallet loading shaft: - inside LxW ca. 1250 x 850 mm - level rim of filling shaft ca. + 4760 mm - walls for guiding pallet/cartons on 4 sides (underneath working platform no walls for guiding)
1	Empty pallet infeed in top of filling shaft, to reduce pallet changing time
1	Retractable stopper ca. 400 x 50 mm, on top of filling shaft = side conveyor
1	Control and switch cabinet for each I Packstation: - push-buttons for operator built-in rim of filling shaft - communication with central control (WCS)

GENERAL	SEMI-AUTOMATED
PLC	Siemens/Alan Bradley/Beckhoff plc
OPERATOR PANEL	At central control cabinet for all manual and service operating functions including displaying of operating and fault messages
FILLING SHAFT (OPERATOR)	Control panel built-in rim of filling shaft for operator with push-buttons, signal lamps and warning light (fault message) Each time the operator pushes the button DOWN during the packing/ loading process the lifting platform will go downwards in steps of about 300 mm (adjustable)
COMMANDS & FUNCTIONALITY	WCS gives the command to the I Packstation to start the loading cycle for the pallet, the operator informs the WCS by push-button READY indicating the loading process is finished.
SWITCH CABINET	On ground floor integrated inside I Packstation
COMMUNICATION	With central control (WCS)

IPS SOFTWARE & LASER GUIDED STACKING

The Intelligent Palletizing Software (part of WSR Server) provides a simple high-level interface to the WCS (Warehouse Control Software). Communication is file based (xml-files). Via the interface IPS receives from WCS requests for calculation of the load units. After calculations IPS in return will send the load information containing the sequence of products and the coordinates for the laser pointer and by instruction on screen.

POWER SUPPLY & CONSUMPTION

- Power supply 400 Volt 3 Ph. with neutral + earth 50 Hz
- Feeding cable layed and connected in switch cabinet, this belongs not to our delivery
- Power consumption (installed power) approx. 20.0 kW for each I Packstation for Pallet

AIR SUPPLY & CONSUMPTION

- Air pressure 6 bar
- Properly prepared compressed air which is free of any aggressive media
- Air supply to connecting point on each I PackStation for Pallet
- Air consumption minimum ca. 50 L/min (6 bar) for each I PackStation for Pallet

i-PACKSTATION CONFIGURATION

- Pallet change time ca. 7 sec.
- Capacity (max. load) 1500 kg
- Available for roll containers or both (Combi)

