

№ Q210101.5482 05.04.2021

Palletizing line Elevator, Octopus 1845S

COMMERCIAL OFFER DELIVERY AND MOUNTING OF AUTOMATIC GROUP PALLETIZING LINE

Technical requirements

- Product in corrugated boxes
- The weight of the formed pallet is up to 800 kg
- Capacity is up to 60 pallets per hour
- Pallet 800x1200 mm

Contacts in Kyiv city

Contacts in Kryvyi Rih city

OUR CUSTOMERS

Our customers trust us because we effectively assist them in resolving issues in the field of production automation.



over **12** years

in the production
automation market

over **50**

of executed complex
automation projects

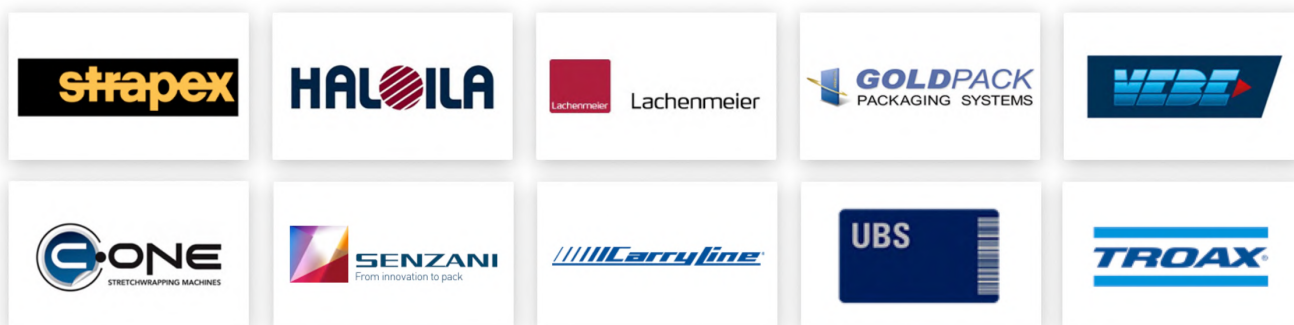
over **3000**

units of equipment installed at
the manufacturing facilities

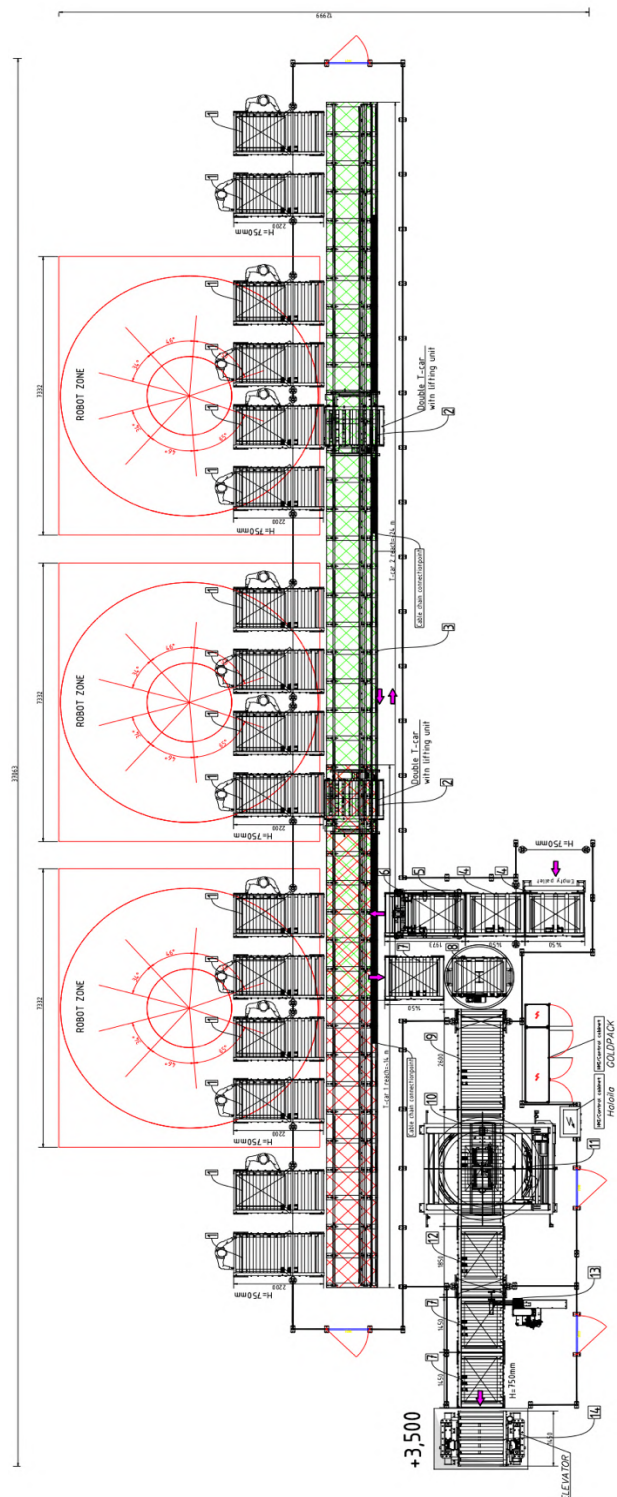
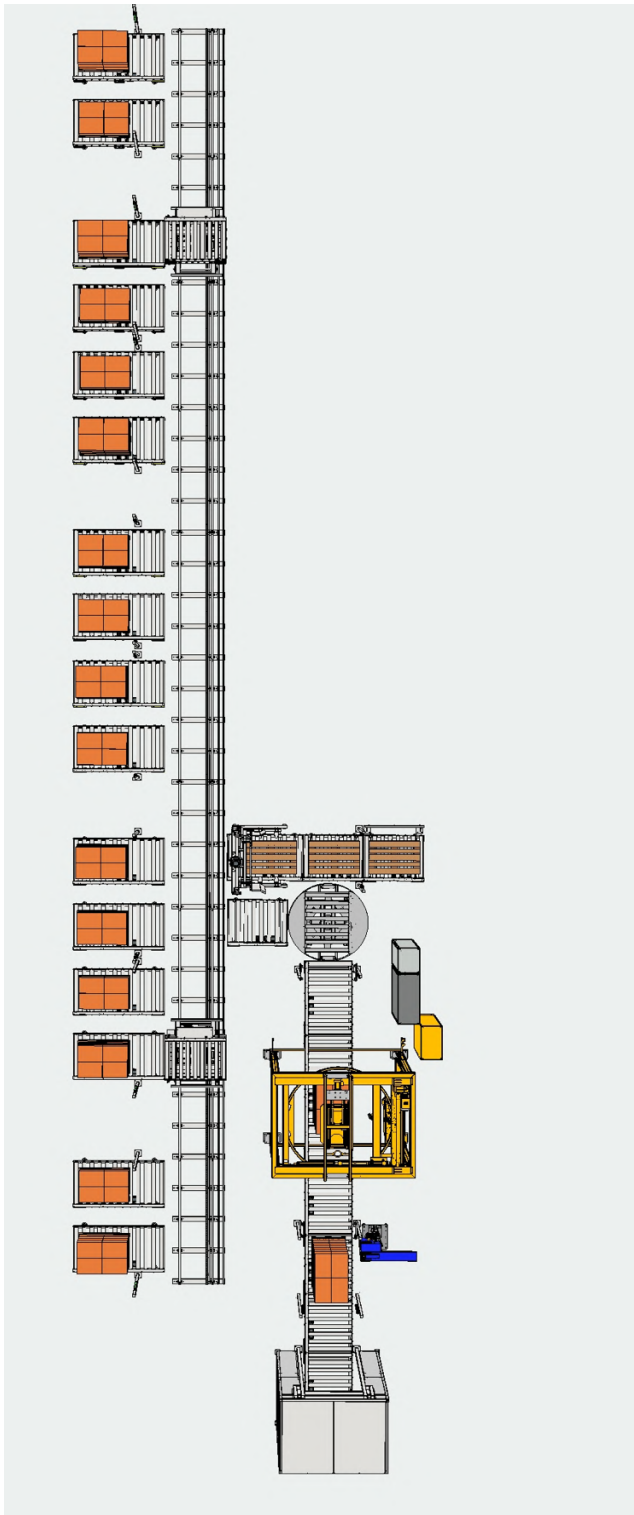
"SKLADPACK" COMPANY is a leader in the national production automation market in the field of stabilization and palletizing of products. It was founded as a private Ukrainian company in 2008. The company has made great contributions to the development of modern packaging solutions for various Industrial sectors in Ukraine throughout its operation.

WE SINCERELY VALUE THE TIME OF OUR CUSTOMERS and offer a full range of engineering solutions for production automation; palletizing and automation; packing, labeling and marking; and complete maintenance and support of your equipment. Our range of products include the most well-known packaging machines; stationary and mobile equipment; as well as industrial safety systems.

OFFICIAL DISTRIBUTOR



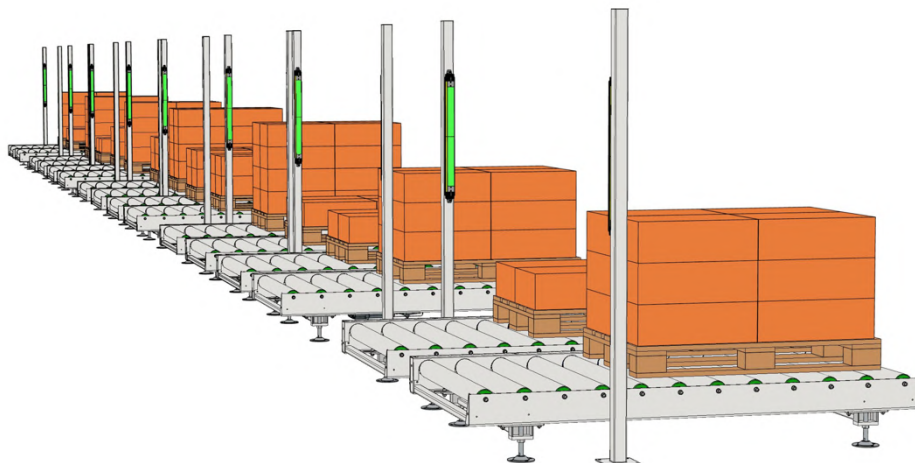
PROJECT VISUALIZATION AND OVERALL DIMENSIONS OF THE AUTOMATIC COMPLEX



The complete configuration of the packaging complex, the location of the units can be amended upon agreement of the parties.

ROLLER CONVEYOR VP with centering unit**Technical data**

Length	2200 mm
Width	1000 mm
Height	750 mm
Max. loading on the pallet	1500 kg
Roller diameter	90 mm
Motor	SEW
Reducer	SEW
Sensors	SICK / LEUZE
Chain drive	
Reversible	
Rigid frame, painted steel	
Supports are adjustable with screwing legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	



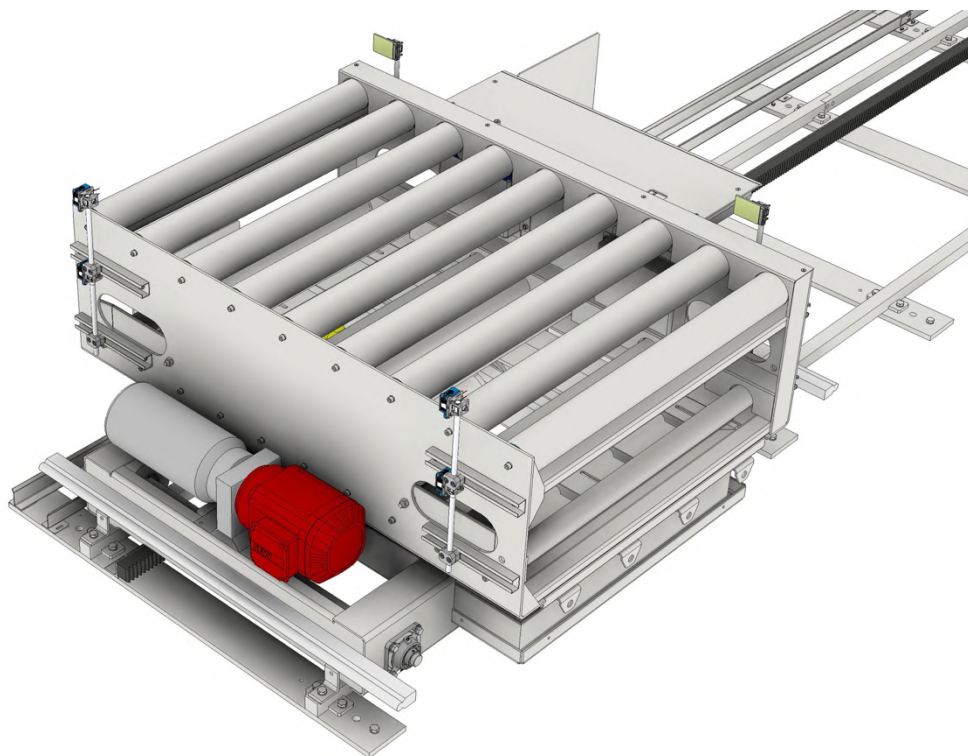
T-MOBILE 2+2 SANDWICH-ROLLER CONVEYOR

The T-mobile sandwich-roller conveyor is designed for submitting empty pallets to the robotic palletizer and for sending out full pallets from the laying line to the packing machine. The line will be equipped with a double T-shaped unit. T-mobile sandwich roller conveyors will be equipped with special laser guidance devices for instant tracking of equipment location. A 360° laser collision avoidance system is also installed 0.5 m around.

The safety system is programmed and synchronized with all safety zones. If one of the safety zones is interrupted, the T-conveyor will continue to operate by entering this zone at half speed. After leaving this area it will restore the standard speed.

Technical data

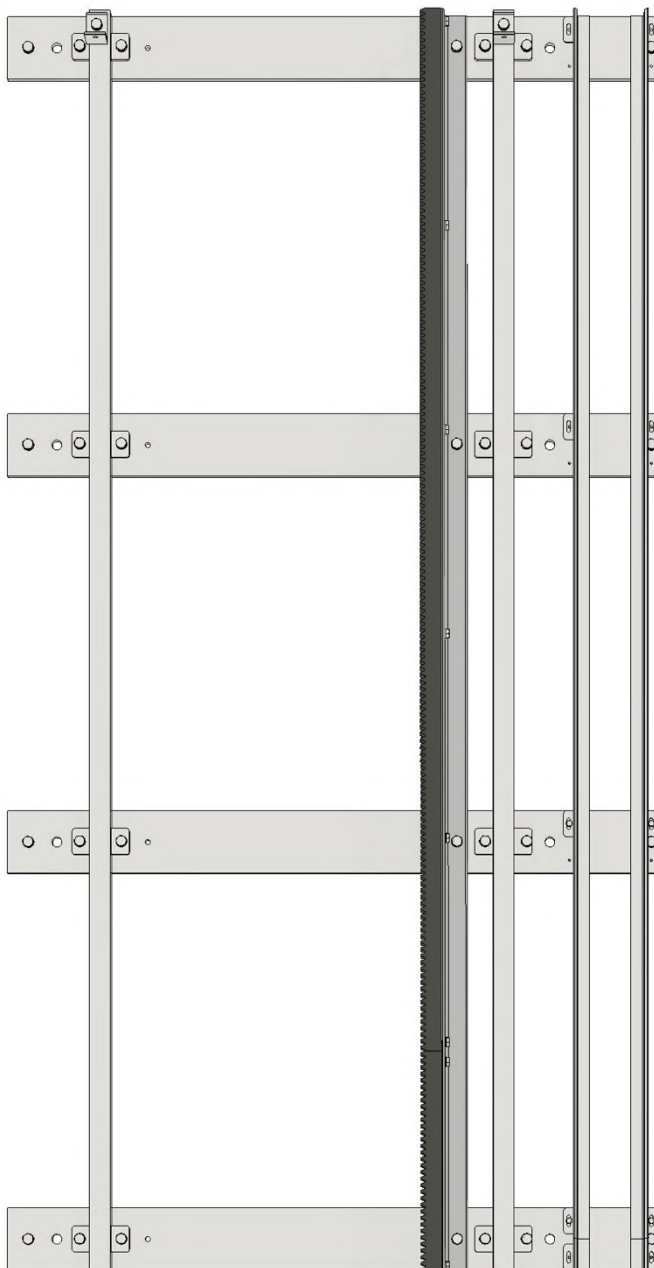
Length	1500 mm
Width	1100 mm
Height	400 / 750 mm
Max. loading on the pallet	1500 kg
Motor	SEW
Reducer	SEW
Sensors	SICK / LEUZE
Reversible	
Chain drive	
Rigid frame, painted steel	
Supports are adjustable with screwing legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	



RAILS FOR T-MOBILE CONVEYOR

Technical data

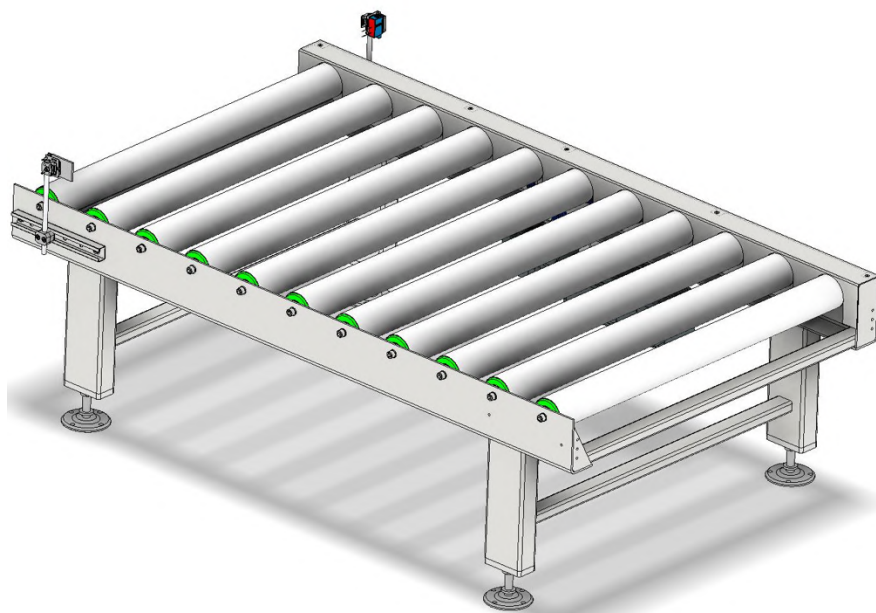
Length	31000 mm
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ROLLER CONVEYOR VP

Technical data

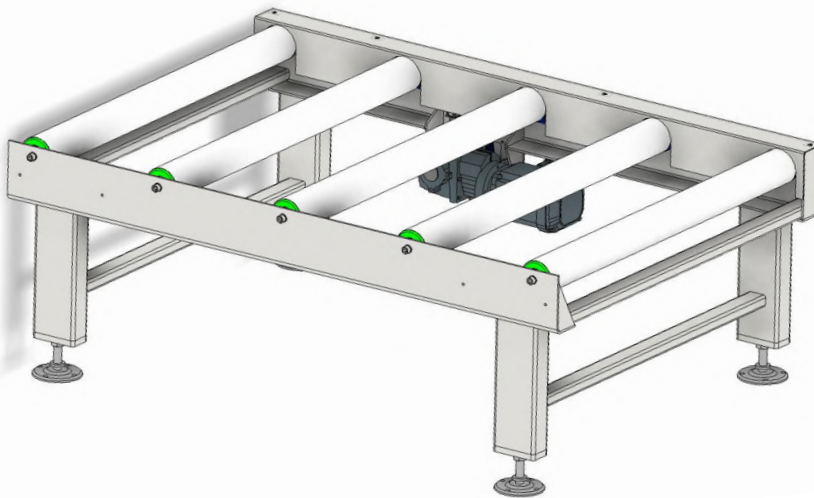
Length	according to the layout
Width	1000 mm
Height	750 mm
Max. loading on the pallet	1500 kg
Roller diameter	90 mm
Motor	SEW
Reducer	SEW
Sensors	SICK / LEUZE
Chain drive	
Reversible	
Rigid frame, painted steel	
Supports are adjustable with screwing legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	



ROLLER CONVEYOR VP for MP15

Technical data

Length	according to the layout
Width	1000 mm
Height	750 mm
Max. loading on the pallet	800 kg
Roller diameter	90 mm
Motor	SEW
Reducer	SEW
Sensors	SICK / LEUZE
Chain drive	
Reversible	
Rigid frame, painted steel	
Supports are adjustable with screwing legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	

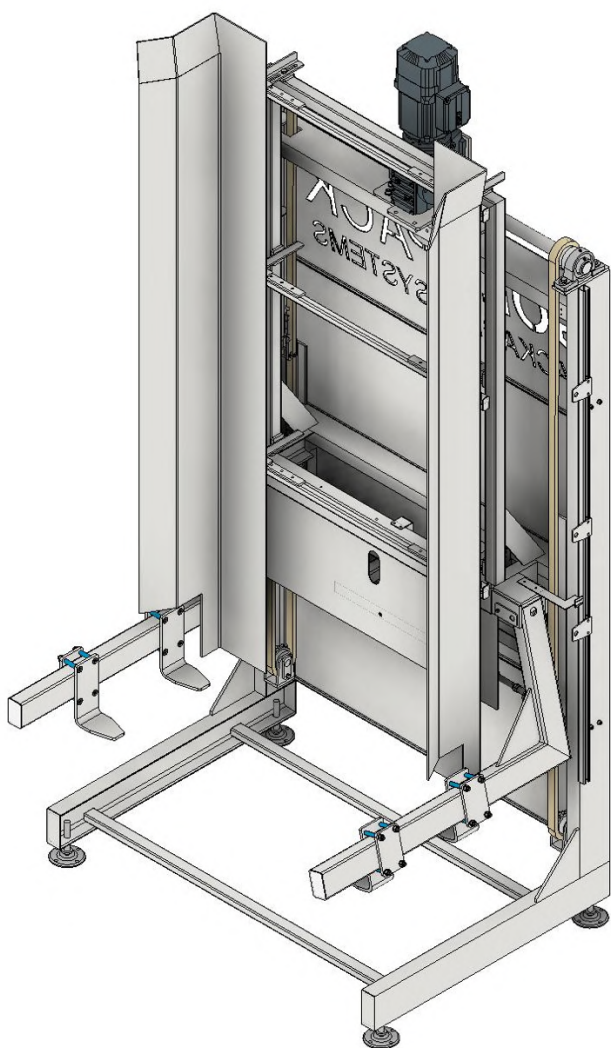


EMPTY PALLET MAGAZINE MP15

The empty pallet storage is designed to automatically feed the empty pallets to the drive conveyor, which is part of the magazine. Storage capacity is 15 pallets.

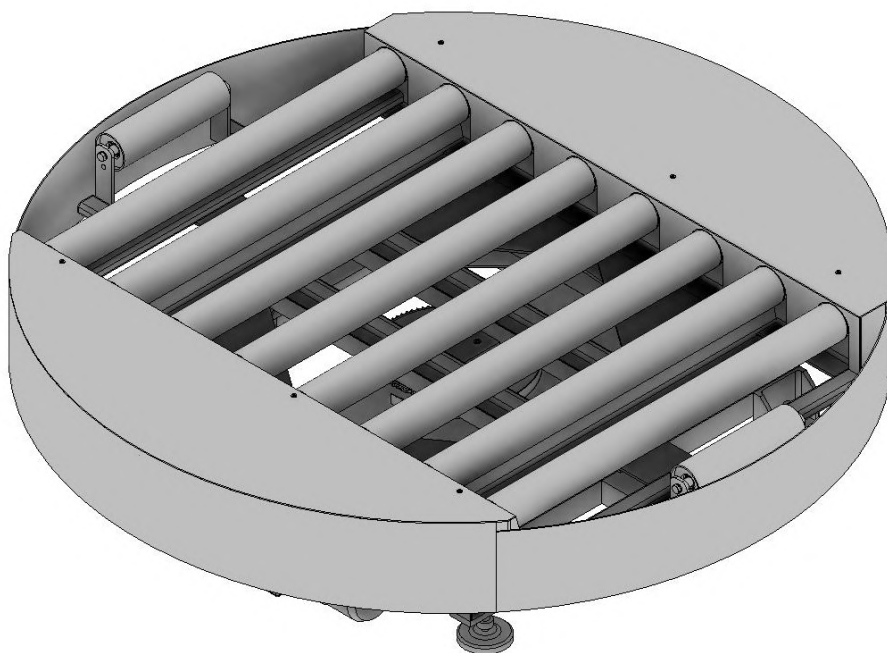
Technical data

Pneumatics	FESTO / SMC
Motor	SEW
Reducer	SEW
Sensors	SICK / LEUZE
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	



ROTARY PLATFORM OBP**Technical data**

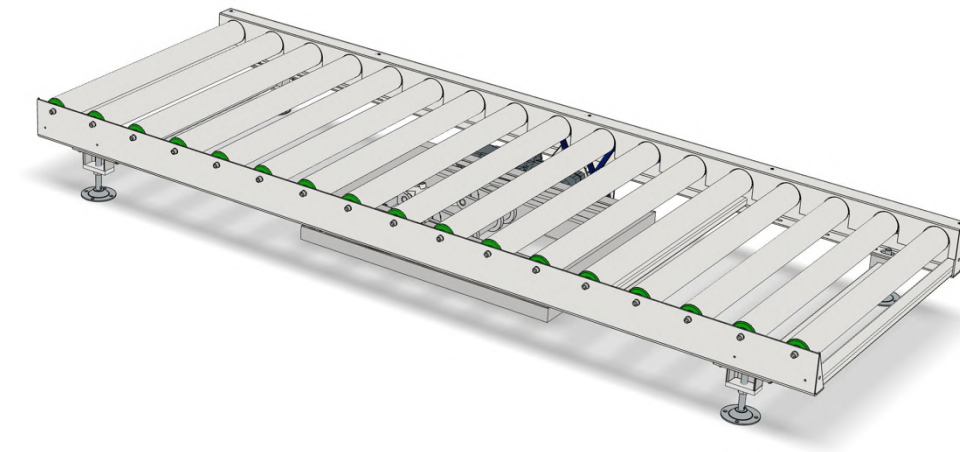
Diameter	according to the layout
Max. loading on the pallet	1500 кг
Rollers	Interrol
Conveyor height	750 мм
Reducer	SEW
Motor	SEW
Rollers diameter	90 мм
Chain drive	
Reversible	
Rigid frame, painted steel	
Supports are adjustable with screwing legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	

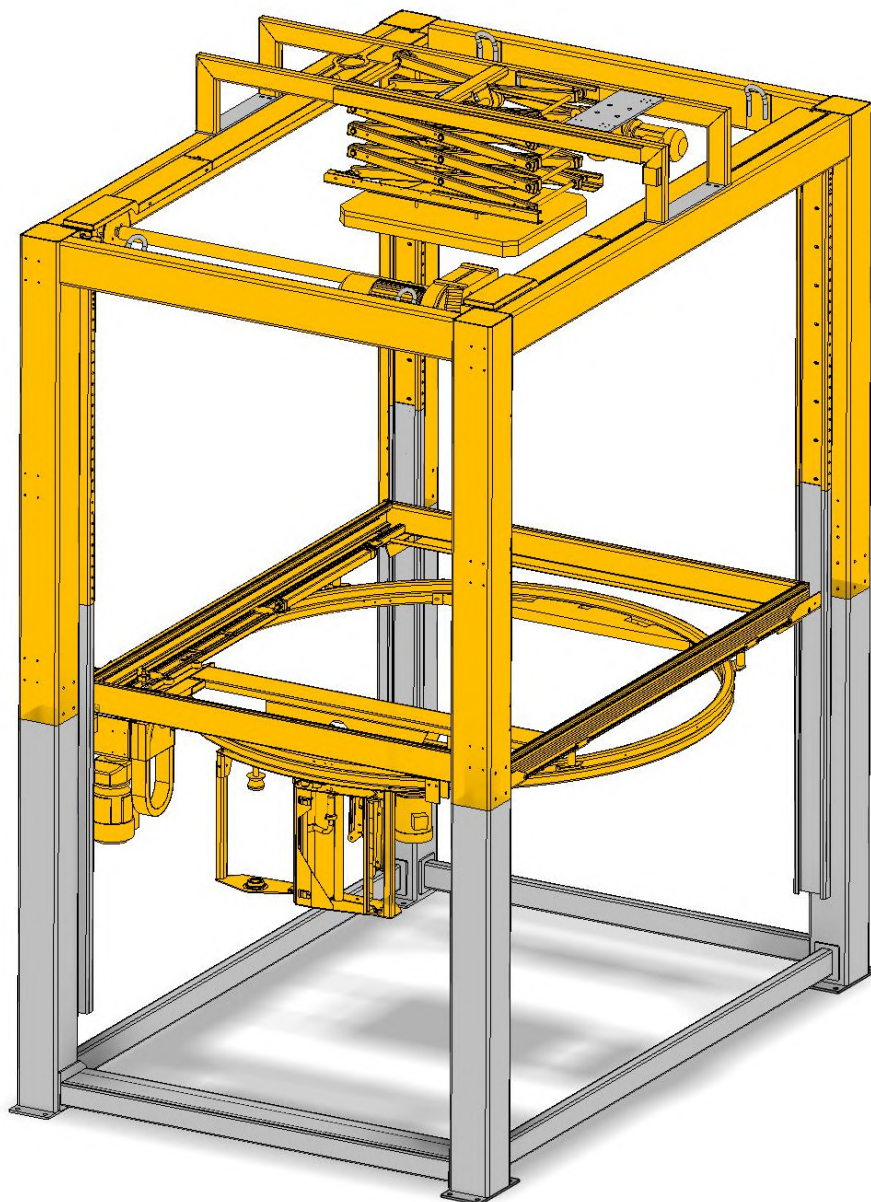


ROLLER CONVEYOR VP for OCTOPUS

Technical data

Length	according to the layout
Width	1000 mm
Height	750 mm
Max. loading on the pallet	800 kg
Roller diameter	90 mm
Motor	SEW
Reducer	SEW
Sensors	SICK / LEUZE
Chain drive	
Reversible	
Rigid frame, painted steel	
Supports are adjustable with screwing legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	



OCTOPUS 1845S Speed-Up HIGH PERFORMANCE AUTOMATIC PALLET WRAPPER

Octopus 1845S WRAPPER Speed-Up

Layout is for familiarization only and may differ from the design of equipment supplied.

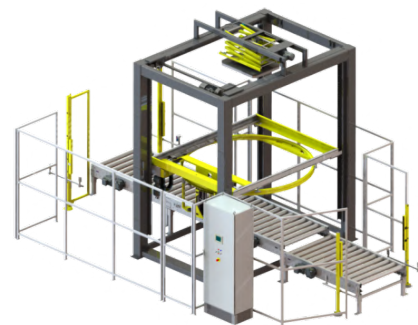
TECHNICAL DATA

General description	Повна автоматична машина для пакування піддонів		
Product	Гофроящик з м'ясними виробами		
Pallet type			
Load dimensions	Length :	min. 1200 mm	max. 1200 mm
Width :	Width :	max. 1000 mm	
Height :	Height :	max. 2000 mm	
Weight :	Weight :	max. N / A kg	
Combinations:	Combinations:		
Type of palletizing	Layers, automatic palletizing		
Over palletizing	All sides N / A mm		
Under palletizing	All sides N / A mm		
Conveyor height	N / A mm		
Conveyor speed	N / A м / min		
Pallets orientation	Short side Leading		
Load transfer	Max. +/- H / A mm from the center		
Ordering pallets	V large sizes continuously		
Pallet input / output	See Section Documents attached		
Power requirements	Nominal power line, 60-70 pallets / h		
Requirement for excess capacity, N / A% ref. load height, 2000 mm			
Number of wrappers, 30			
Wrapping way: Double wrapping from above			
Ceiling height	N / A mm, the lowest in the area where the equipment is installed		
Route size / the size of the door	N / A mm x N / A mm		
The supply voltage	3 x 400VAC 50Hz + N + PE		

WRAPPING MACHINE OCTOPUS 1845S Speed-Up

RING TECHNOLOGY

- Octopus is the first machine ever using ring technology, originally invented by Haloila in 1983
- Improved packaging quality when product pallet is stationary and ring is rotated
- Less mechanical stress compared to rotary arm and turntable technology
- Versatile wrapping features by one machine compared to other technologies like rotating arm technology
- Video link: <https://youtu.be/ebv4JAdfMds>



CONSISTENCY - FIXED POWER PRE-STRETCH

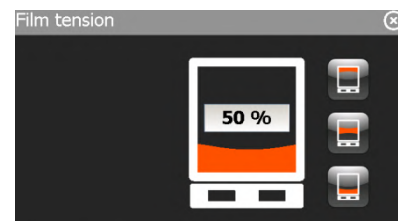
- Efficient power pre stretch – reduced cost per pallet
- Controlled film pre stretch – it cannot be adjusted by operators:
Consistency of film consumption, consistency of packaging quality, and accurate estimation of film costs/pallet

FILM FORCE TO LOAD CONTROL

- Constant control of film tension between film carriage and pallet load with stepless lay on force adjustment, high packaging quality, improved reliability
- Due to the unique control method, variation of pallet load sizes or shape does not effect to adjusted lay on force towards product
- Separate starting and film welding force to load, regardless of wrapping force to load, ensure high production reliability
- Due to the wireless technology system force load control is not sensitive for dust or equal, and demand of maintenance decreased

NEW - FILM FORCE TO LOAD SETTING

- Each wrapping programs with own settings
- Three force to load settings available for each wrapping program, e.g. different values for top, bottom and overlap wraps - to meet the requirement for load stability and protection
- Unique control system adjust continuously film force to load according given setting and pallet size & shape
- Versatile product specified setting to optimize transport packaging
- Video link: https://youtu.be/hymZo_9FDHI

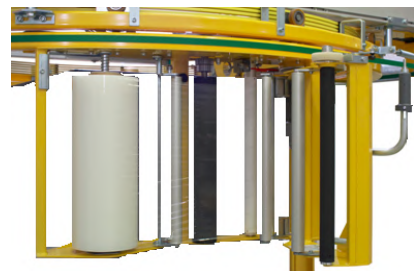


HIGH PERFORMANCE S-TYPE FILM CARRIAGE

- S-type film carriage = how film thread is done in film carriage when it is pre-stretched
- Improved film stretch performance due S-type film thread compared to W-type
- S-carriage has less film neck down due to continuous contact between film and rollers, i.e. film applied to pallet is wider
- Durable roller surface with patterned design for high stretch performance during the pre-stretch.

EASY FILM LOAD

- Patented design – S-carriage with gate to open carriage
- No need thread film between rollers
- Easy2Fix –help gripper. Improved SAFETY, simply hang the film end to gripper without going into the machine.
- Shorter film reel change time
- Video link: <https://youtu.be/nATWDGs58DI>



COST EFFECTIVE MOVEMENTS – LOWER MAINTENANCE COST

- All movements by belts instead of chains – drives with smooth start & stop
- Sanitary design - clean for machine area and product pallet inside the machine while not using chains

AUTO SPEED control

- Machine speed is controlled according to capacity of production line
- Optimized capacity – lower maintenance cost
- Automatically or by speed selected from HMI

DOUBLE NT2 - NO TOUCH NO TAIL FILM SEAMING AND CUTTING

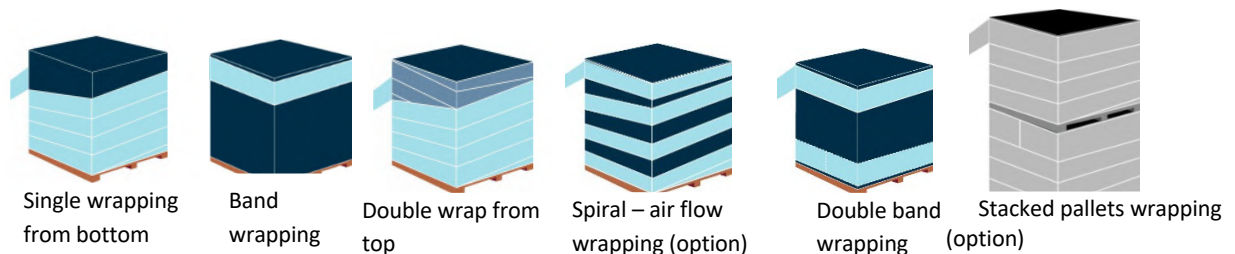
- High quality and reliable film seaming in its whole width on the counter plate, not towards the product.
- No Tail solution – automatic warehouse proof solution, less downtime as film tail does not exist
- Uneven pallet surface has no effect to the seaming result
- Service free cutting element, no film tail after cutting
- Two units, one for each film carriage
- Video link: <https://youtu.be/jEhsJcPDriU>

OCTOFACE 2.0 – NEW GENERATION HMI SOLUTION

- Control system includes Siemens S7 PLC and OctoFACE HMI
- Unlimited number of wrapping programs
- Informative, e.g.
 - Current capacity / pallets/h
 - Film left on reel (option)
 - PackML status screen
 - Visual symbols
- Consumption of air & energy (option)
- User profiles for each operators with specific password level
- **Audit Trail** – go back to previous settings. All changes to settings are recorded to trace back: When changed, by whom, previous value, new value
- **QR –codes, quick access to machine documentation by mobile device**
- Back up for memory stick function

WRAPPING PROGRAMS

- Unlimited number of wrapping programs – for different type of products, different shipment distances, different protection & stability demands.
- Cost effective optimized pallet stability and packaging material use by means of different parameters.
- **Name your program** - OctoFACE HMI enables each wrapping program to be freely named, e.g. Line 1 / Product X etc.
- Wrapping method, i.e. single, double, banderol wrapping
- Film overlap when wrapping up- and downwards
- Number of top and bottom layers
- Use of support layers – number if used
- Adjustable crossing height the pallet top edge with film
- Wrapping film tension. By OctoFACE and wireless technology variable force to load setting each wrapping program for different part of load to meet the requirement for load stability and protection.
- **NEW** - Back up feature – copy of made wrapping programs to USB memory stick can be taken by using OctoFACE and memory stick set into that
- **Due to ring structure with integrated film welding & cut, and versatile wrapping program settings, multiple ways to wrap pallets**



OCTOFACE SERVICE SCREENS

- Monitoring of utilization of key machine functions
- Adjustable warning & alarm levels to meet production area's demand
- Warnings when set value has been exceeded indicating proactively when preventing maintenance / maintenance check should be done
- Alarms when set value has been exceeded
 - Right timing for maintenance
 - Proactive approach

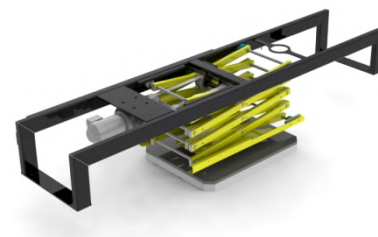
OCTOFACE FAULT DIAGNOSTIC

- Operating panel includes fault diagnostic feature, showing the picture on operating panel and instructions how to solve fault
- Less down time, improved through output, less costs
- History data
- Quick access to machine documentation by QR-code



P3-P LOAD STABILIZER, MOTOR DRIVEN

- Enable wrapping of unstable or light products. Product or units on pallet remain stable during the wrapping cycle also with high film tension.
- Keep the top film on pallet when load top is not even, or in windy production area
- When used with Integrated Top Film dispenser, load stabilizer is equipped with top film blow down unit
- Driven by gear motor
- Adjusting the system to a specific product for a minimum movement interval
- Video Link: https://youtu.be/z_1kZp5jZfs



TECHNICAL DATA

MACHINE STANDARDS

The offer is based on Oy M. Haloila Ab std. component lists. All the possible amendments must be agreed upon separately.

The Octopus machine has been designed and manufactured in accordance with the following European laws and standards.

EU Directive 2006/42 / EC

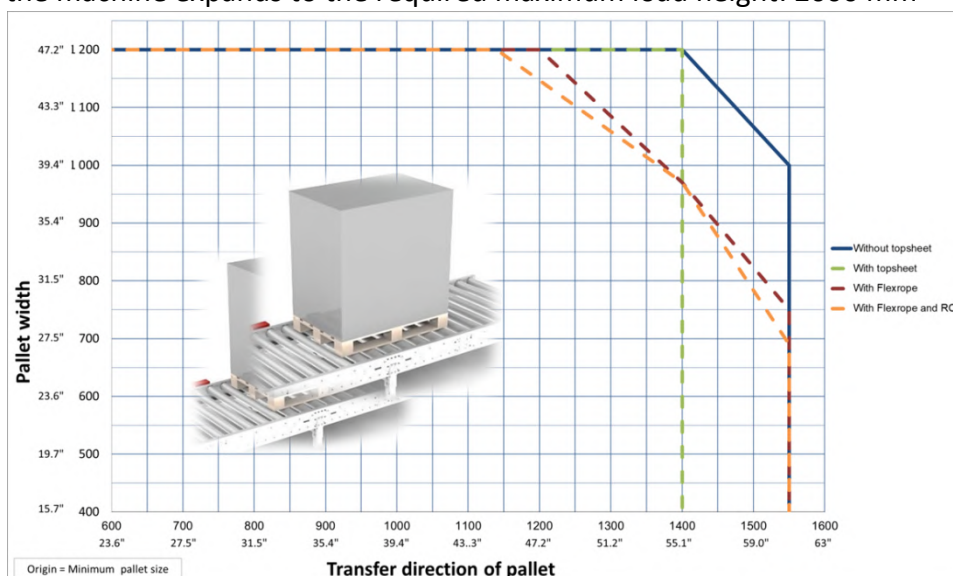
EN415-6: 2013 Packaging machines safety. Part 6. Machines for pallet packing.

MINIMUM AND MAXIMUM DIMENSIONS OF PRODUCTS

The maximum length and width of the product tray are given below. For example, without the option of top coating with film, the maximum length of the product is 1450 mm with a width of 1000 mm

The diagram shows the maximum length and width of the product or pallet, depending whichever is greater

The frame of the machine expands to the required maximum load height: 2000 mm



CALCULATION OF PRODUCTIVITY

The calculation is based on the example of wrapping according to the following data. Changes of any data will affect the calculation:

Conveyor speed is 15m / min, length of the wrapping conveyor inside Octopus 3000mm, simultaneous supply and output of pallet cargoes, transport time of the conveyor is 10,8 sec

Wrapping method: Double wrap on top
Product height: 2000 mm, including pallet
Total number of coils: 30
Wrapping capacity is 58 pallets / h, including conveyor time

Wrapping method: Double wrap on top
Product height: 1200 mm, including pallet
Total number of coils: 22
Wrapping capacity 68 pallets / h, including conveyor time

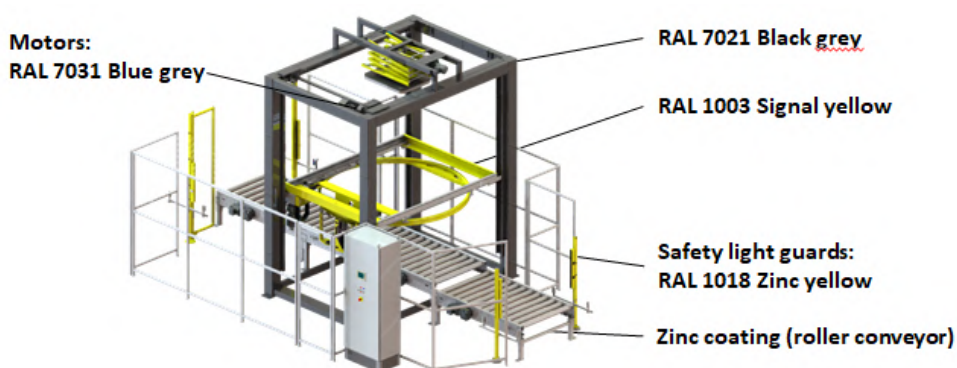
Actual line capacity according to the request: 60-70 pallets / hour

CONNECTION without conveyor control

Voltage supply :	3 x 400VAC / 50Hz + N + PE
Grounding:	16mm ² separate cable to the grounding rail of the machine
Power supply:	10 kW, 3 x 35A to customer's circuit breakers
Compressed air supply:	min. 0.6 provided by the customer
Air consumption:	9 NI / wrapping cycle Available air volume – accordingly
Compressed air connection:	Rapid clutch pin KS-3/8

MACHINE COLORS

RAL 7021 black graphite
RAL 1003 yellow
RAL 7035 light grey
RAL 9005 black - grid and frame



WORKING CONDITIONS OF EQUIPMENT OPERATION

Dry, warm premises (working temperature from + 5°C to + 35°C)

CONVEYOR IN THE MIDDLE OF B OCTOPUS

The length of the conveyor rotation area is 3000 mm

The conveyor package height area should be 300-600 mm

Request a quote for a high-speed conveyor kit, including a 2500mm conveyor belt, a 2000mm conveyor and a 2500mm conveyor to reduce transportation time

Please contact if the conveyors are supplied by others, or existing ones are used, and the dimensions do not correspond

TRANSPORT AND OWN DIMENSIONS

Dimensions of the transport package when packing Octopus for truck transportation:

Overall length: 3520 mm

Overall width: 2470 mm

Overall height: 2640 mm

Total weight: 2750 kg

The size and transportation of the door should be taken into account accordingly.

Ask for container packaging for sea transportation.

HEIGHT OF THE MACHINE FRAME AFTER INSTALLATION

Conveyor height: 720 mm (TOR)

Max. product height: 2000mm

Height of the machine: 4150 mm

Top PE machine height: 4450 mm (optional)

Note that the height of the machine frame will vary depending on the height of the conveyor, the load stabilizer and the TS option.

FILM SPECIFICATION

LLDPE stretch film manufactured for this purpose

The thickness of the stretch film depends on the quality of the film and the pre-stretching process applied

Coil width: 500 mm

Max. diameter of a cylinder: 270 mm

Diameter / length of a core: 76 mm / 500-515 mm

Film thickness: typically 15-23 microns

NOTE: The thickness of the film strongly depends on the level of pre-stretching used. Please inquire if the thickness applied does not meet the standard specification.

The top film, PE-film, is made for this purpose

Max. coil width: 1800 mm

Max. diameter of the coil: 250 mm

Sleeve diameter: 76 mm

Film thickness: 30-80 microns

NOTE: The top film with a thickness of less than 50 µm must be examined before the final commissioning of the equipment.



APPLICATOR APL35S

The UBS Print & Apply pallet marking system is fully compatible with the most well-known Print Engine brands on the market: Zebra, Datamax, Sato and Avery Dennison, among others. Each branded printing device has maintenance, repair and spare parts services available worldwide through the manufacturer's reseller / distributors and / or a network of third-party service centers.

Technical data

Label size is A6

Double-sided application technology

Slowing brake when unwinding

Ethernet / Profinet data exchange

Photocell product detection

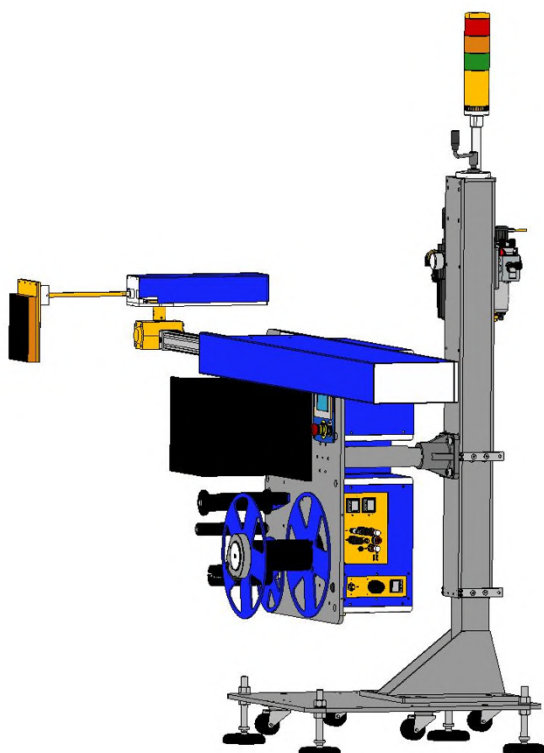
Barcode scanner on a pad

Mechanical height adjustment of the machine

Low level detector for consumables

Applied label sealant

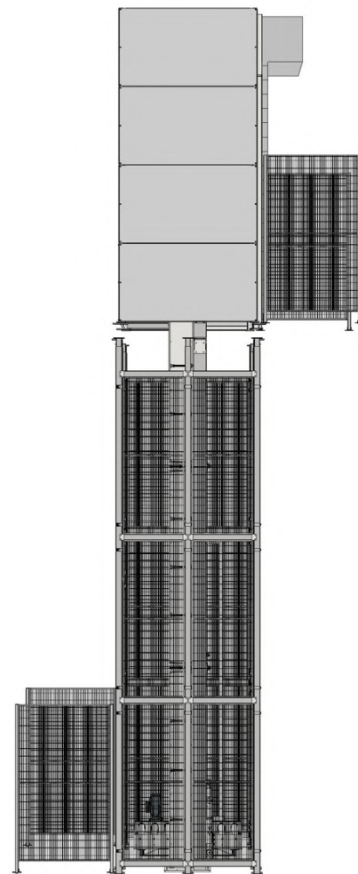
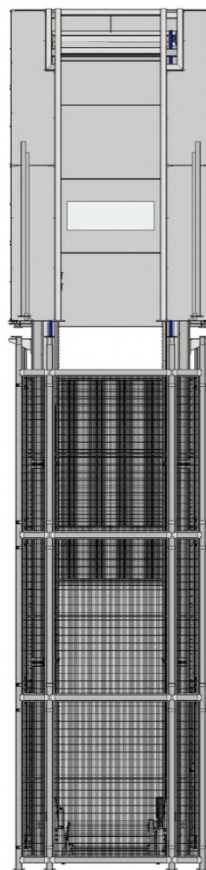
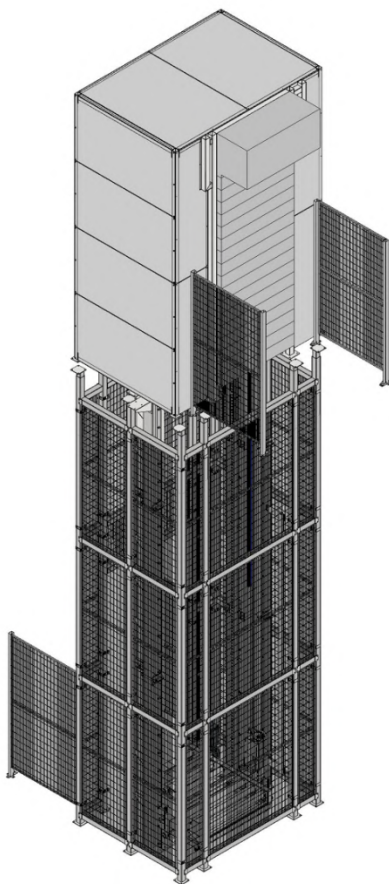
Appropriate part of programme equipment



VERTICAL ELEVATOR AND ELEVATOR SHAFT

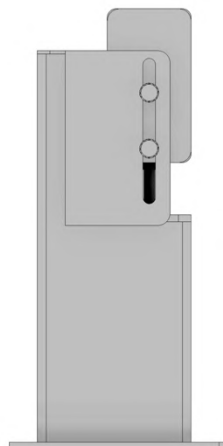
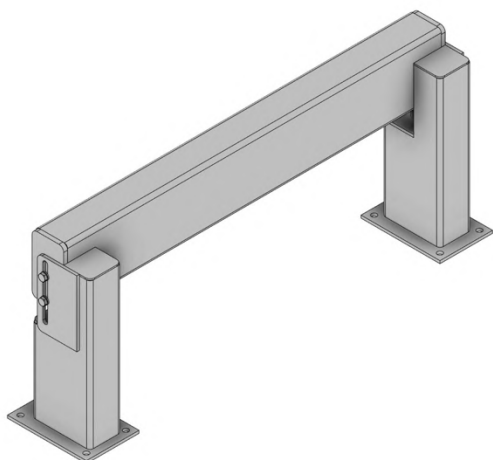
Technical data

Length	згідно макету
Width	1100 мм
Lifting height	3500 мм
Max. loading on the pallet	1500 кг
Diameter of rollers	90 мм
Motor	SEW
Reducer	SEW
Sensors	згідно конфігурації
Chain drive	
Reversible	
Rigid frame, painted steel	
Supports are adjustable with screwing of legs	
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	

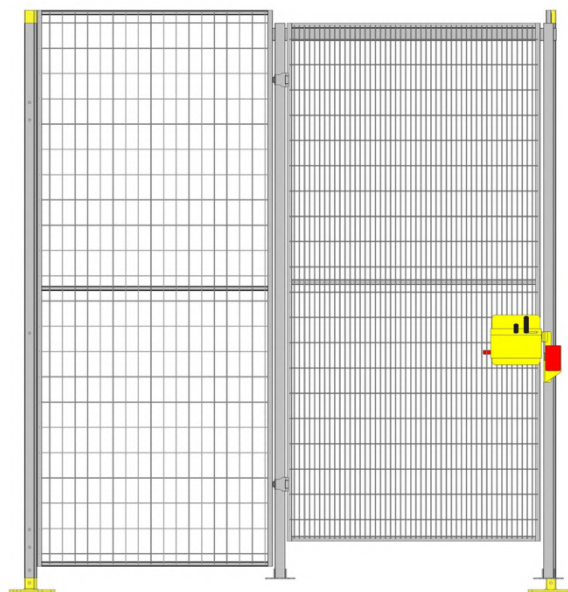
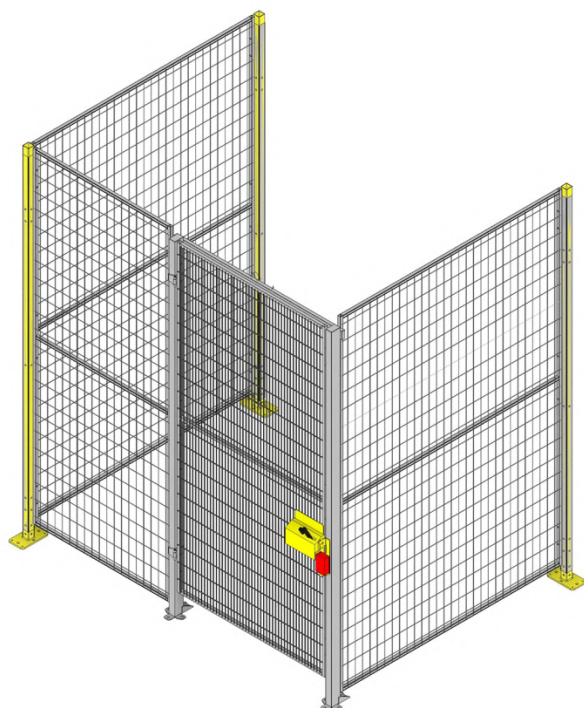


FORK TRUCK BLOCKADE

It is installed before conveyors and protects them from damages in case of collisions with unloaders.



TROAX SAFETY FENCE



- 2 m height;
- doors with safety microswitches and protective locks;
- emergency stop buttons located on the control cabinet and doors;
- safety sensors on the input and output conveyor;
- level of protection according to European standards.



CONTROL ELECTRICAL CABINET

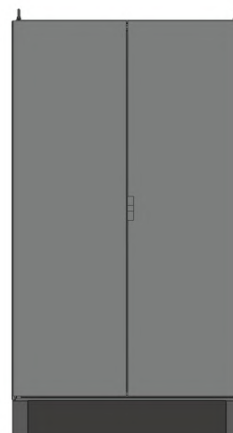
Fully equipped RITTAL electrical cabinet is located on the line (12m around the line).

Electricity 3Ph N Pe.

Complete cable line with cable channels.

Technical data

Electrical cabinet	RITTAL
Operator panel for conveyor system	
PLC	SIEMENS S7
Display	SIEMENS
Switches and keys	Telemecanique
Terminals	Weidmüller, Phoenix
Frequency converters	Mitsubishi
Security unit	SICK / Pepperl+Fuchs
Appropriate part of electrical equipment in electrical cabinet	
Appropriate part of programme equipment	



COMPONENTS - Goldpack

	According to customer's request
PLC	Siemens S7 upon customer's request - recommend Siemens S7 1500
Display	Siemens
Frequency converters	Mitsubishi
Motor	SEW
Reducer	SEW
Servo motors	SEW
Pneumatics	SMC
Pneumatic connectors	FESTO
Sensors	Pepperl+Fuchs
Photo cell	Sick
Light curtains	Leuze
Security units	Sick
Temperature control	Shinko
Terminals	Weidmüller, Phoenix
Relay	Weidmüller, Telemecanique
Transformers	Mean Well
Cables	Hellukabel
Electric cabinet	Rittal
Other electrical components	Klockner Mueller
Rollers	Interroll

- IP56 safety level

EQUIPMENT SPECIFICATION

EQUIPMENT		Q-ty
1.	VP 2.2 roller conveyor with centering unit and panel with control buttons	16
2.	T-mobile 2 + 2 sandwich roller conveyor	2
3.	Rails for the T-mobile conveyor L = 31 m	1
4.	VP 1.45 roller conveyor with mechanical centering	2
5.	VP 1.90 roller conveyor for MP15	1
6.	MP15 empty pallet magazine	1
7.	VP 1.45 roller conveyor	3
8.	OBP revolving platform	1
9.	VP 2.60 roller conveyor	1
10.	VP 3.0 roller conveyor with lifting system for wrapping pallet wooden part	1
11.	OCTOPUS 1845S Speed-Up automatic wrapper - clamping upper stabilizer	1
12.	VP 1.80 roller conveyor	1
13.	APL35s applicator double-sided A6 marking system	1
13a.	KPZ pallet weighing unit	1
14.	Vertical elevator with roller conveyor, lifting height = 3500 mm	1
14a.	The elevator shaft is made of Troax grid	1
15.	Movement restrictor with a sensor	1
16.	Troax protective fence Input sensors, Sick output sensors Sick safety light barriers, category 4 Troax door lock, etc. CE	1
17.	Electrical cabinet and software	1
18.	Packaging	1
19.	Delivery	1
Integration		
20.	Mounting, training, testing (hotel, food and transport costs are included in the price)	1

COMMERCIAL CONDITIONS

Payment conditions

50% prepayment, 40% before shipment, 10% after signing the act of work performed

Delivery and customs clearance

Delivery and customs clearance is carried out by Skladpack: DDP, Ukraine, customer address

Delivery time

6-7 months

Validity of the offer

Until 31.12.2021

Warranty

24 months

Mounting and personnel training

“Skladpack” company carries out Mounting and set-up of the equipment, afterwards carries out correct equipment operation training, and also simulates emergencies, in which customer’s experts have to correct the mistake on their own without the help of “Skladpack” employees.

Mounting duration (approximately)

20 working days

PRELIMINARY CONDITIONS FOR SALE**Preparatory work carried out by the customer:**

1. Power supply must be carried out according to the drawings of Skladpack.
2. The equipment must be unloaded at the mounting site.
3. Providing qualified personnel to carry out the necessary work on the placement of equipment, connection of power supply, compressed air.
4. Ensuring the continuity of work on mounting, connection, commissioning and setting up of equipment performed by engineers of Skladpack.
5. When starting the line (with the proper functioning of all components and units) for the purpose of proper instruction (training) of the customer's personnel for operation and maintenance, operators and service personnel should not be distracted by any other work. Operators of all shifts are instructed all at once.

Works carried out by Skladpack:

1. Mounting (organization of the line installation process).
2. Connection of power supply of the equipment and laying of electric connections from boards of the equipment of Skladpack to an operator’s platform.
3. Start-up and testing of all functions of the line and packaging units using the customer's packaging materials.
4. Training of the customer's personnel on the rules of operation, maintenance and minor repairs of the line, immediately after start-up and inspection of all functions and modes of operation.

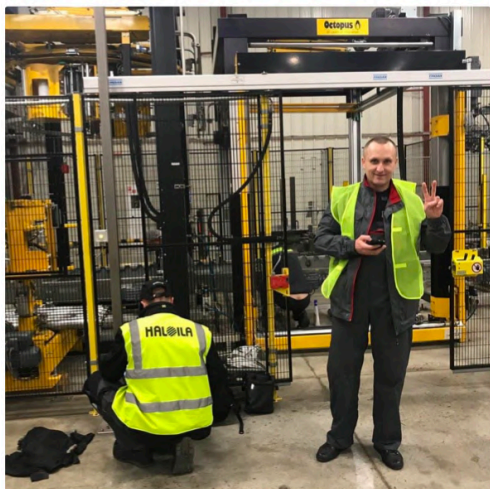
Completion of works:

Considered to be completed after the completion of all works specified in the previous section, upon the provision by engineers of a bilaterally signed Act of completion.

Contacts in Kyiv city**Contacts in Kryvyi Rih city**

BENEFITS OF WORKING WITH US

Buy high-quality, durable industrial equipment with a high life.



Customers of "Skladpack" receive highly skilled support during and after their purchase. The lifetime of our equipment is over 15 years. In any case, complete service is available for you every day, around the clock.

The products offered by our company are certified and meet all international quality standards. All equipment offered by our employees undergoes strict control processes and is ready for exploitation in any conditions. We thoroughly monitor this and choose our partners carefully.

Our main advantage is our individual approach to each customer. Highly skilled managers select the finished products, as well as offer individual development of complex systems.

"SKLADPACK" - IT'S TIME TO AUTOMATE!