

turning your world

**TOPPY**

**V S H A P E**

**V SHAPE LOGY**

**L S H A P E**

**MASTER INVERTER**

**FOUR FINGERS**

**I N V E R T E R**

**P A L L E T  
CHANGING &  
HANDLING  
SYSTEMS**

# PALLET CHANGING & HANDLING SYSTEMS

## **TOPPY** V SHAPE 95°/120° (Push Button / PLC / Logistic System)

**TOPPY** V SHAPE is a pallet exchanger built with a unique, strong V SHAPE frame. Manufactured in painted steel with a full stainless steel model also available.

All moving parts are operated by hydraulic, electrical systems and pneumatic systems.

The pallet to be replaced is loaded onto a lower platform at floor level by either an electric pallet jack or forklift.

At the start of cycle, a pallet holder secures the pallet to the platform and the upper compactor plate moves down until a sensor detects the top of the load. In this position the plate provides a gentle support to the load.

The load, secured by the V SHAPE frame, is then lifted and rotated backwards. When the load is in the tilted position the lower platform moves back to the floor and the pallet is released. The operator can quickly and easily replace the pallet at floor level.

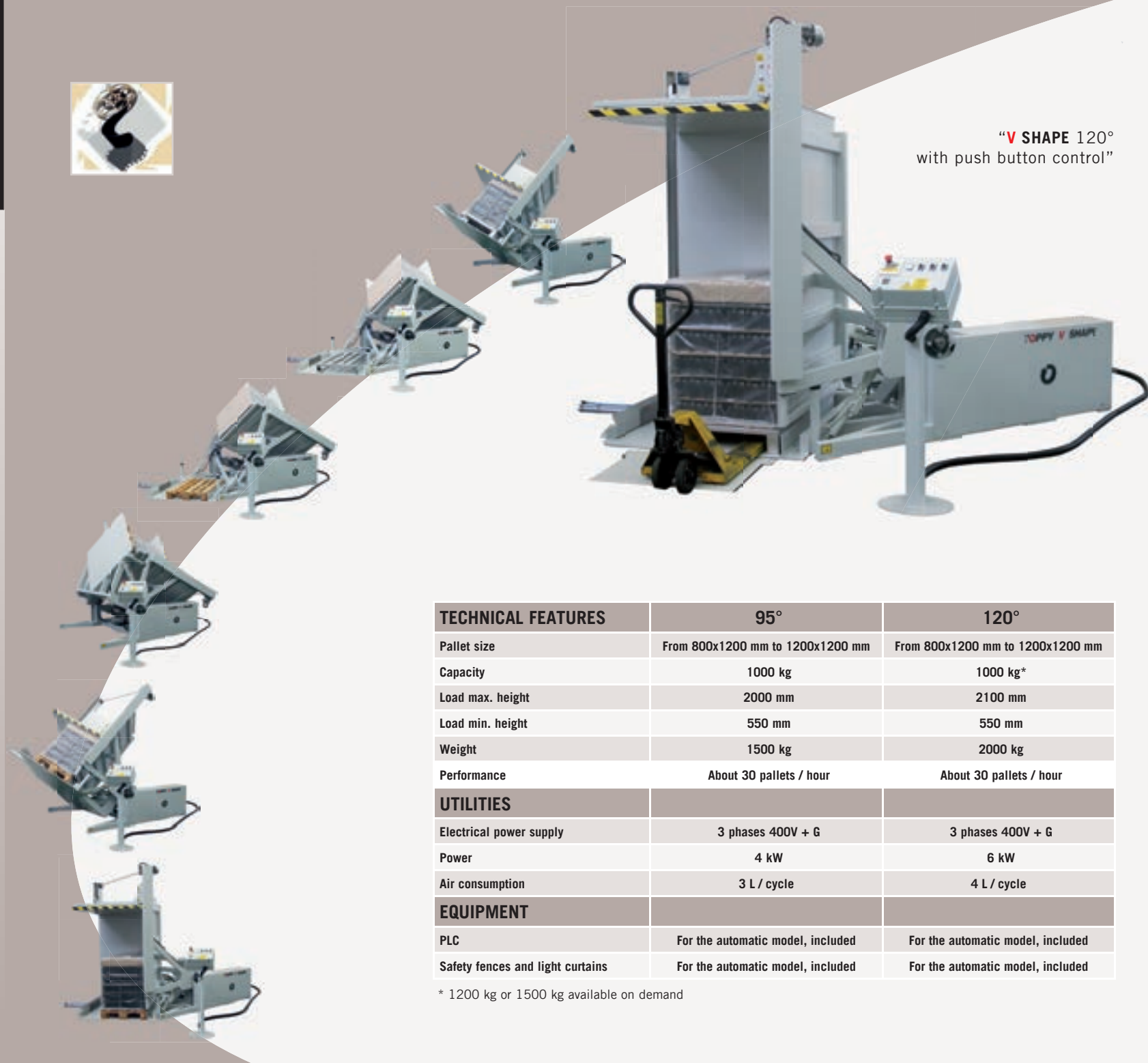
With the new pallet, the load is returned to floor level and removed.

The complete operation takes approximately 1 minute and 45 seconds.

**TOPPY** V SHAPE will handle various types of loads including boxes, bags, vials, drums, bottles and other types of products depending on the amount of backward tilting: 95° and 120°.

**TOPPY** V SHAPE 95° and 120° can become part of a logistic system with conveyors and automatic pallet stackers. These systems allow for non-stop working cycles of up to 45 pallets per hour and 24/7 operation.

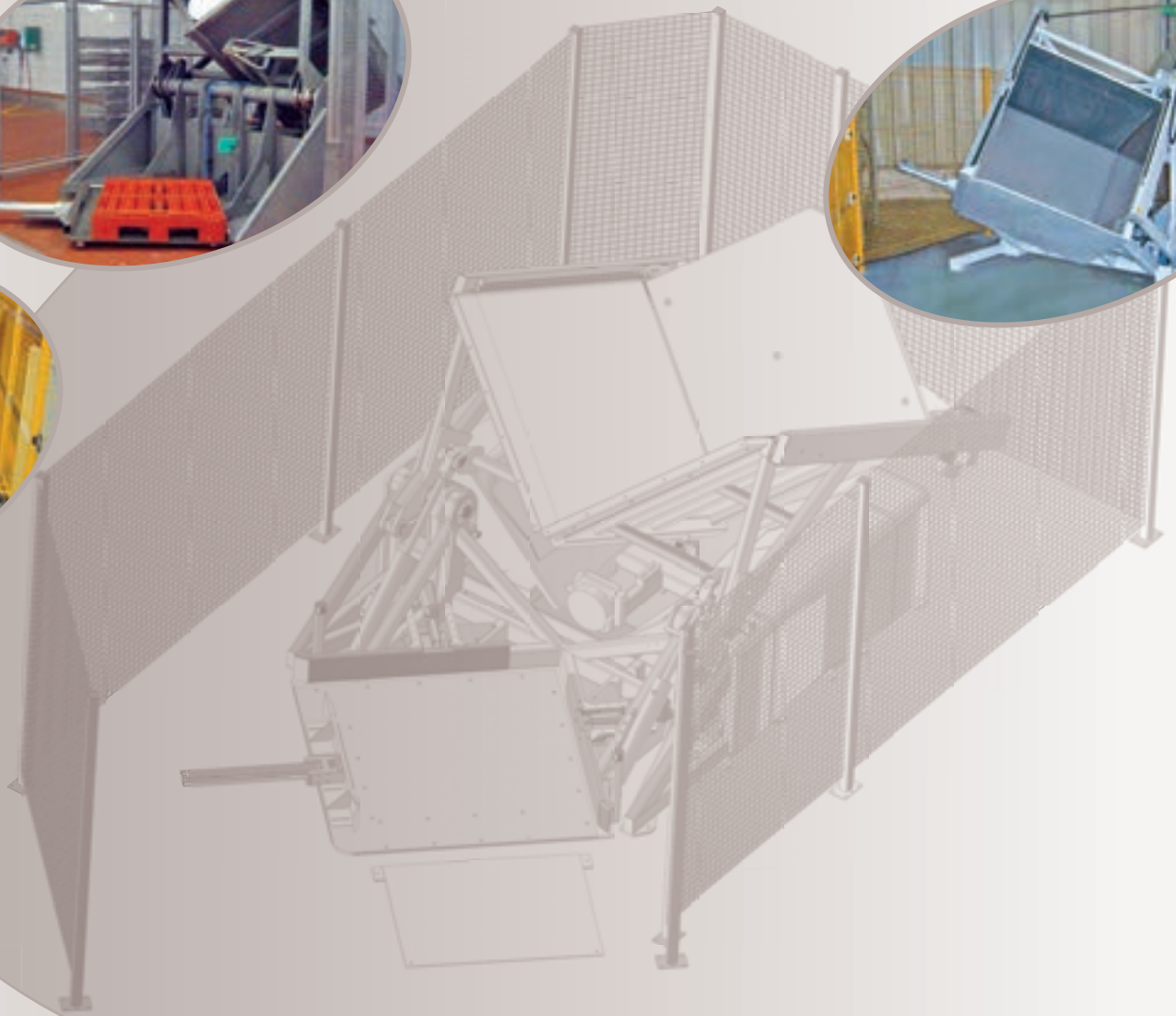
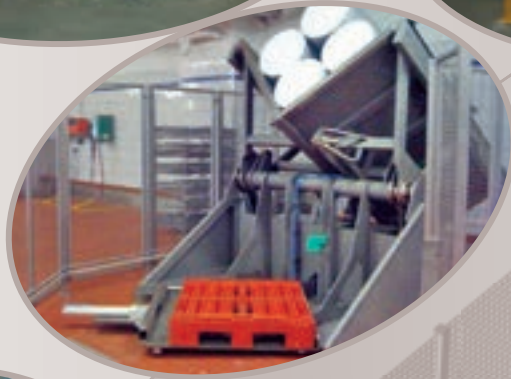
**SPECIAL MODEL AVAILABLE**

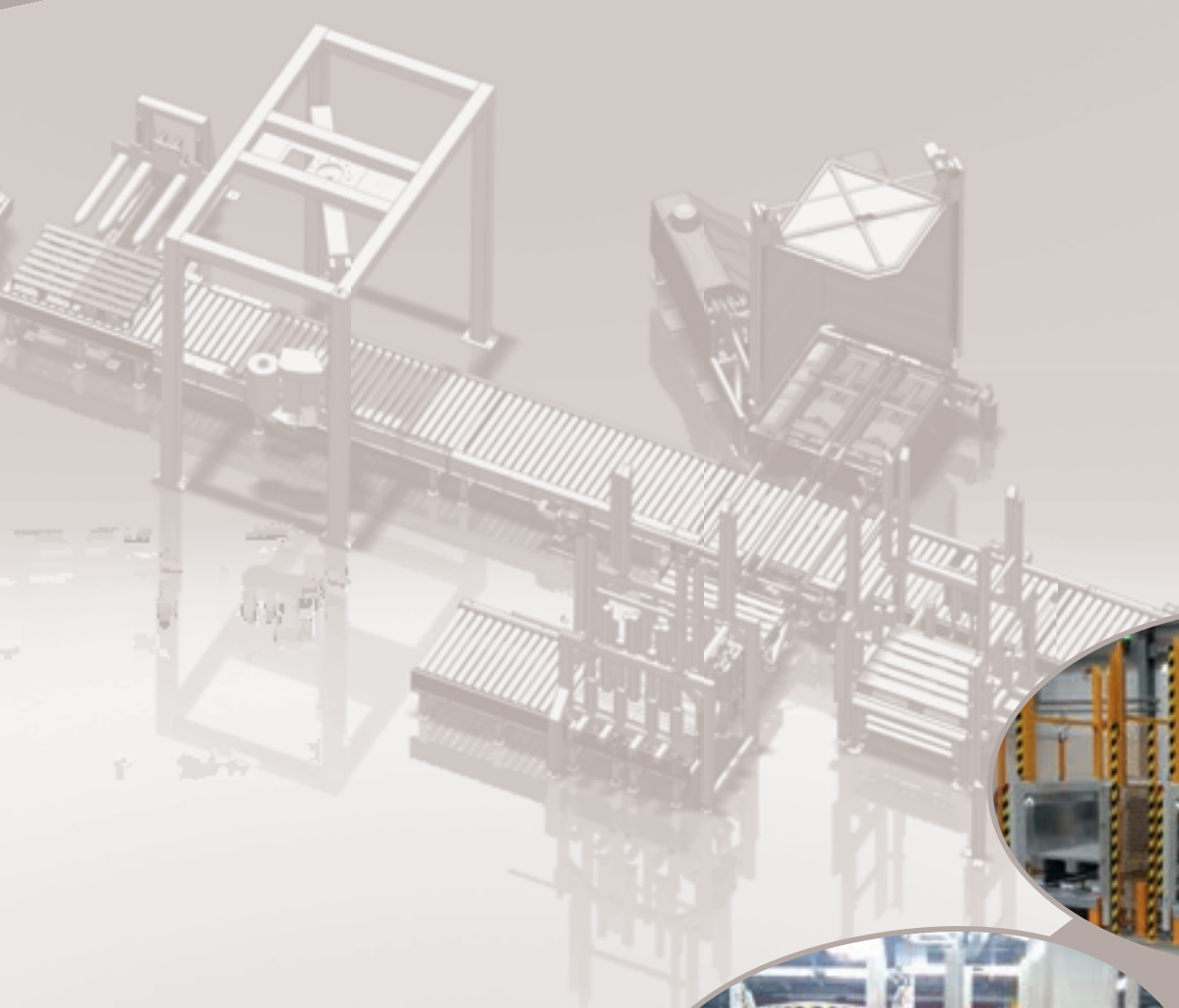


**“V SHAPE 120°**  
with push button control”

TECHNICAL FEATURES	95°	120°
Pallet size	From 800x1200 mm to 1200x1200 mm	From 800x1200 mm to 1200x1200 mm
Capacity	1000 kg	1000 kg*
Load max. height	2000 mm	2100 mm
Load min. height	550 mm	550 mm
Weight	1500 kg	2000 kg
Performance	About 30 pallets / hour	About 30 pallets / hour
UTILITIES		
Electrical power supply	3 phases 400V + G	3 phases 400V + G
Power	4 kW	6 kW
Air consumption	3 L / cycle	4 L / cycle
EQUIPMENT		
PLC	For the automatic model, included	For the automatic model, included
Safety fences and light curtains	For the automatic model, included	For the automatic model, included

\* 1200 kg or 1500 kg available on demand





# PALLET CHANGING & HANDLING SYSTEMS

## **TOPPY** L-SHAPE

**TOPPY** L-shape is a model of pallets exchanger that can be integrated with the logistics system. The pallet changer is fully automatic and allows a very quick pallet changing. On the lower platform is mounted a roller conveyor, so that the machine can be positioned in line maintaining a unidirectional flow. This model is equipped with a sonar adaptive centering system.

SPECIAL MODEL AVAILABLE



### TECHNICAL FEATURES

Max. dim. Pallet	800 x 1200 mm - 1000 x 1200 mm or 1200 x 1200 mm
Max capacity	1200 kg
Max load height	2000 mm
Min load height	500 mm
Performance	About 60 pallets/hour
Platform conveyor	Roll conveyor
<b>UTILITIES</b>	
Electrical power supply	3 phases 400 V + G
L-Shape Power	15 kW

# PALLET CHANGING & HANDLING SYSTEMS

## **TOPPY** MASTER INVERTER “pusher system”

**TOPPY** MASTER INVERTER is a pallet exchanger. This unit transfers the load from one type of pallet to another without inverting or turning.

The pallet is exchanged through a **two-way translation movement** by using the combined forces of the side press and back pushed.

The pallet with the load is placed onto a conveyor and directed to a system chamber. A new pallet is dispensed onto the conveyor and placed in front of it. Two rubber side plates close and support the load on two sides. The side plates gently apply pressure to the material and together with a back plate, slide it onto the new pallet. The load then continues through the conveyor ready to be removed.

The load can be placed in the **TOPPY** MASTER INVERTER or removed by electric pallet jack, forklift or conveyor.

**TOPPY** MASTER INVERTER can be integrated with logistics systems, conveyors and an automatic pallet stacker for continuous working cycles of up to 40 pallets per hour.

**SPECIAL MODEL AVAILABLE**

TECHNICAL FEATURES	MASTER INVERTER
Pallet size	From 800 x 1200 to 1000 x 1200 mm
Capacity	1000 kg
Load max height	1700 mm pallet included
Load min height	not relevant
Weight	1500 kg
Performance	About max 40/50 pallets / hour
UTILITIES	
Electric power supply	3 phases 400V + G
Power	5 kW
Air consumption	20 L / cycle
EQUIPMENT	
PLC	For the automatic model, included
Safety fences and light curtains	For the automatic model, included



# PALLET CHANGING & HANDLING SYSTEMS

## **TOPY** DE-DUSTING CABIN

**TOPY** Topy de-dusting cabin is a cabin that separates the “white zone” from the “grey zone” and allows a fast and silent de-dusting work.

The de-dusting cabin is made of stainless-steel AISI 304 scotch brite finishing. It is provided with two interlocked vertical rolling doors.

The operation principle is based on the action of high speed air jets sifted through a HEPA filter; before being filtered, the recirculated air passes through two prefilters G4.

The launch of the air-jets comes from 21 swivel nozzle diffusers: 16 of them are placed on the four corners and 5 of them are positioned on the cabin top.

**SPECIAL MODEL AVAILABLE**

## TECHNICAL FEATURES

Pallet material	Wooden, plastic and alluminium
Maximum dimension of the pallet	Up to 1200 x 1200 mm
Maximum height of the load	2000 mm



# PALLET CHANGING & HANDLING SYSTEMS

## TOPY FOUR FINGERS

**TOPY** FOUR FINGERS is designed and built to exchange fully loaded pallets without inverting or turning the loads.

This system will work with EPAL pallets (800 x 1200 mm) or industrial pallets (1000 x 1200 mm). The pallets used for this system are required to meet all EC rules and regulations.

The palletized load is placed onto the lift platform from the side either through a conveyor system or forklift. Once the pallet is placed onto the platform, four forks (fingers) are inserted automatically through the open slots of the pallet under the material load. Two rubber side plates gently close to help stabilize the load and reduce the weight the forks need to support. The pressure of the plates adjusts automatically and does not damage the load.

The pallet is lowered allowing the forks and plates to support the load. Either using a forklift or a conveyor system, the pallet is removed and replaced. The new pallet on the lift platform is then introduced under the load and the forks are removed.

### TECHNICAL FEATURES

Pallet size

From 800 x 1200 mm to 1000 x 1200 mm

Capacity

1200 kg

Load max height

2000 mm pallet included

Load min height

not relevant

Weight

2000 kg

Performance

About 70 pallets / hour (integrated logistic system)

### UTILITIES

Electrical power supply

3 phases +N +G

Power

10 kW

Air consumption

30 L / cycle

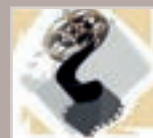
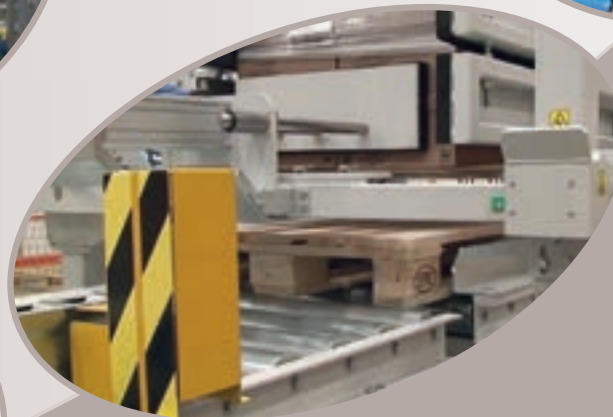
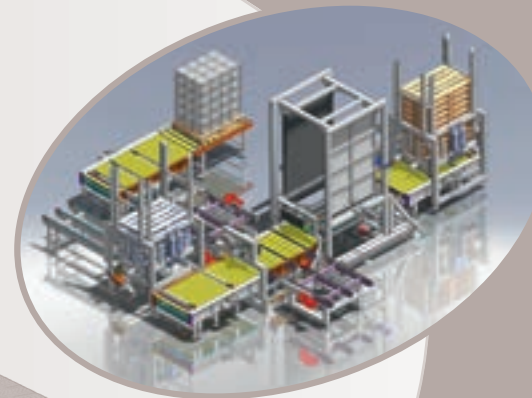
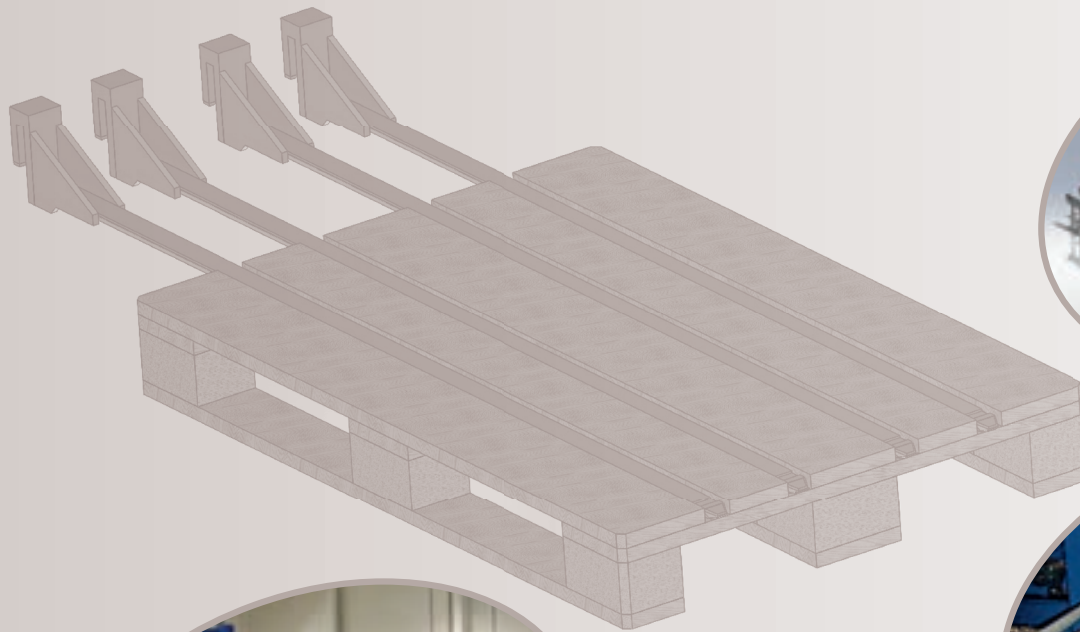
### EQUIPMENT

PLC

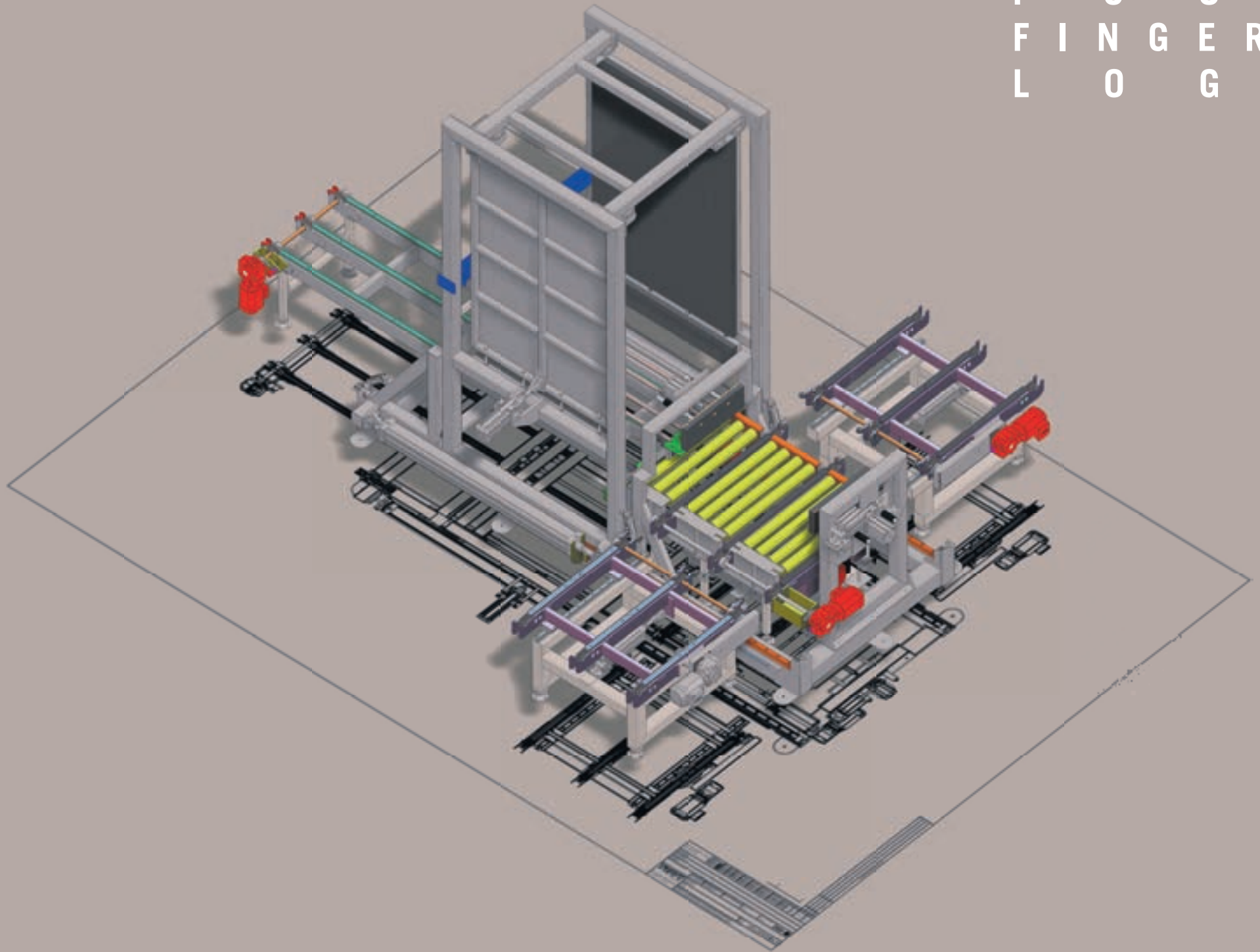
Included

Safety fences and light curtains

Included



F O U R  
F I N G E R S  
L O G Y



**"TOPPY INVERTER**  
with push button control"

# PALLET CHANGING & HANDLING SYSTEMS

## **TOPPY** INVERTER

**TOPPY** INVERTER is a stationary pallet inverter that will turn loads and exchange pallets on loads of a maximum weight of 1500 kg and maximum height of 2000 mm. The Pallets are loaded and unloaded using a forklift.

The pallet turning is accomplished with:

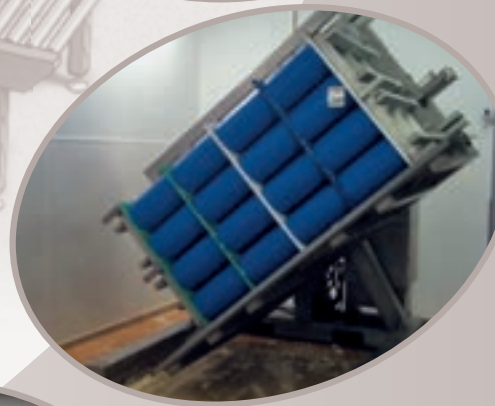
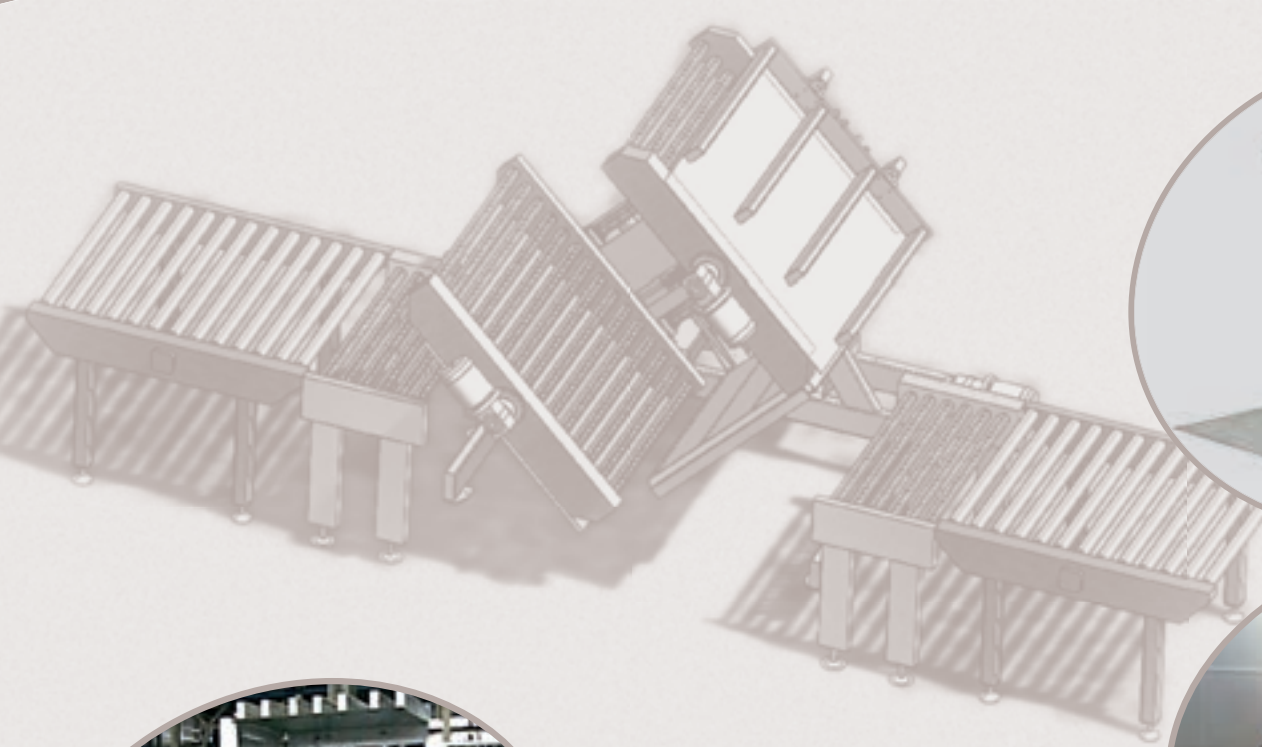
- 90° rotation without pressure for steady loads (i.e. boxes).
- 180° rotation without pressure for unsteady and fragile loads (i.e. cruetts and bottles).
- 180° rotation with pressure for unsteady but not fragile loads (i.e. bags, larger size bags and drums).

**TOPPY** INVERTER is also available with a PLC control (fully automatic), and as a floor level version that can be loaded and unload using an electric pallet jack.

**SPECIAL MODEL AVAILABLE**

TECHNICAL FEATURES	INVERTER SILVER 1000	INVERTER	INVERTER FLOOR LEVEL
Capacity	1000 kg	1500 kg	1500 kg
Max. opening	1680 mm	2000 mm	2200 mm
Min. opening	550 mm	650 mm	820 mm
Platform size	1220x1020 mm	1200x1200 mm	1200x1200 mm
Power	3 kW	6 kW	6 kW - 400 V
Rotation	Hydraulic	Hydraulic	Hydraulic
Control	Push-buttons panel	Push-buttons panel	Push-buttons panel
Turning time	About 25 sec.	About 25 sec.	About 25 sec.
Performance	22 pallets/hour	22 pallets/h	22 pallets/hour
Safety fences and light curtains	Not included	Not included	Not included

# PALLET CHANGING & HANDLING SYSTEMS



## MOBILE PALLET CHANGER **TOPY** ADVANCE PHARMA



turning your world

# **T**OPPY

Established in Bologna on 1978, **TOPPY** S.r.l. began as a producer of machines and trucks for the graphic industry. Since then, whenever a good application was found, other machines were added to the **TOPPY** range, significantly in the pharmaceutical, food, cosmetic and ceramic fields. Constant growth in technology and output has enabled **TOPPY** to consolidate its position amongst the Italian leaders in the materials handling sector. The **TOPPY** range has been continuously extended and upgraded to satisfy the market and the users' varied needs.

**TOPPY** can supply pallet turning and pallet changing machines, both mobile and stationary, also pallet trucks, reel lifting machines and logistic systems. The **TOPPY** becomes indispensable everywhere the load to handle is placed on a pallet.



VIDEO AVAILABLE

**TOPPY** is continually updating their products according to market needs.

The technical specifications given here are therefore subject to change without prior notice or liability.

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