



# Product catalogue

Complete filling lines

Filling equipment

Labelling equipment

Packing equipment

Conveyors and conveyor systems





# THERMO-PACK

Packing equipment plant



Dear Friends and Partners,  
We are glad to present you the product catalogue of Packing equipment plant "Thermo-Pack" Ltd.

Thermo-Pack is a progressive Ukrainian engineering manufacturer of high-technology equipment for filling, labelling, packing as well as conveyor systems.

Due to almost 20 years of experience, our ambitious objectives and high standards we have become a reliable business partner for Companies in Ukraine, countries of CIS, Europe and Asia.

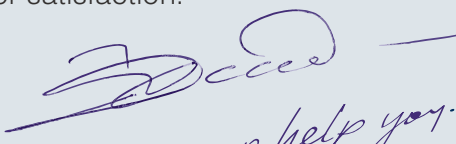
Today Packing equipment plant «Thermo-Pack» Ltd means a highly qualified engineering staff, a powerful and modern production base located on the 9000 square meters, the competent Sales and Service Department.

We are providing an all-round service like project development, coordination, manufacture of equipment, supply, installation, commissioning, personnel training, warranty and post-warranty service.

We offer to manufacturers the comprehensive solutions to improve business efficiency.

Our advantages:

- high operational rates;
- compliance with standards;
- consistent quality;
- the possibility to integrate "Thermo-Pack" equipment into existing lines of other manufacturers;
- innovative engineering solutions;
- non-standard equipment design;
- the possibility of fast changeover to another types of tare;
- prompt service;
- clear system of spare parts supply;
- customer satisfaction.



*We sure we can help you.*

Iakiv Usenko.

Director of Packing equipment plant  
"Thermo-Pack" Ltd.



ISO 9001:2008



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## Packing equipment

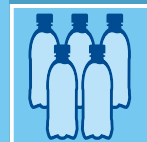
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# Complete filling lines

Packing equipment plant «Thermo-Pack» Ltd. produces the complete technological filling lines in PET and glass containers for different types of beverages: drinking, still and carbonated water, beer, etc. The filling line of our company is the complex of the equipment intended for performance in technological sequence of operations beginning with the preparation of liquid, production of container, then filling it with product, capping, registration and packing.

The full cycle of processes of the filling line includes: for filling into PET-container — a water preparation, blowing of PET-container, a saturation of liquid by the carbonate acid, a blend, container rinsing, direct filling of the product, capping, labelling, group packing, overwrapping of the pallets by tape; for filling into glass container – a water preparation, unloading of empty bottles from pallets, a rejection, a saturation of liquid by the carbonate acid, a blend, container rinsing, direct filling of the product, capping, labelling and group packing, overwrapping of the pallets by tape.

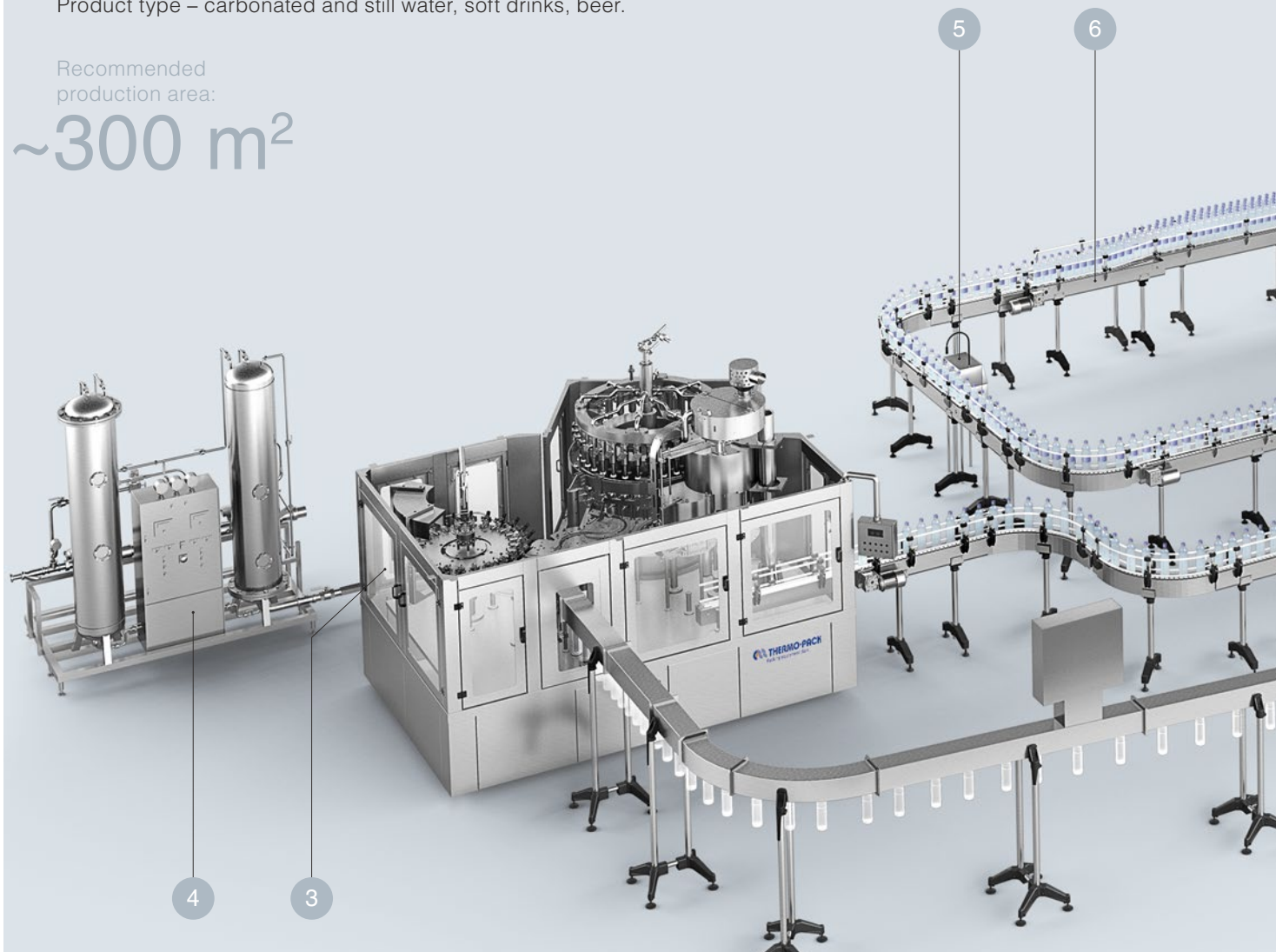
All the processes in the cycle are connected among themselves by uniform conveyor system.



Product type – carbonated and still water, soft drinks, beer.

Recommended  
production area:

~300 m<sup>2</sup>



1

1. Automatic blow molding machine APF-3002, productivity – 3000 bph, for the small and medium volume bottles with capacity (0,25 – 2,0 litres) from PET preforms.

2. Pneumatic conveyor (air) for PET containers for transporting from the blow molding machine to the filling block by a flow of air.

3. Filling machine MR 63.3 (triple block) with the optional cap feeding device. This machine is for rinsing, filling of the soft drinks, mineral water, beer, kvass into PET bottles

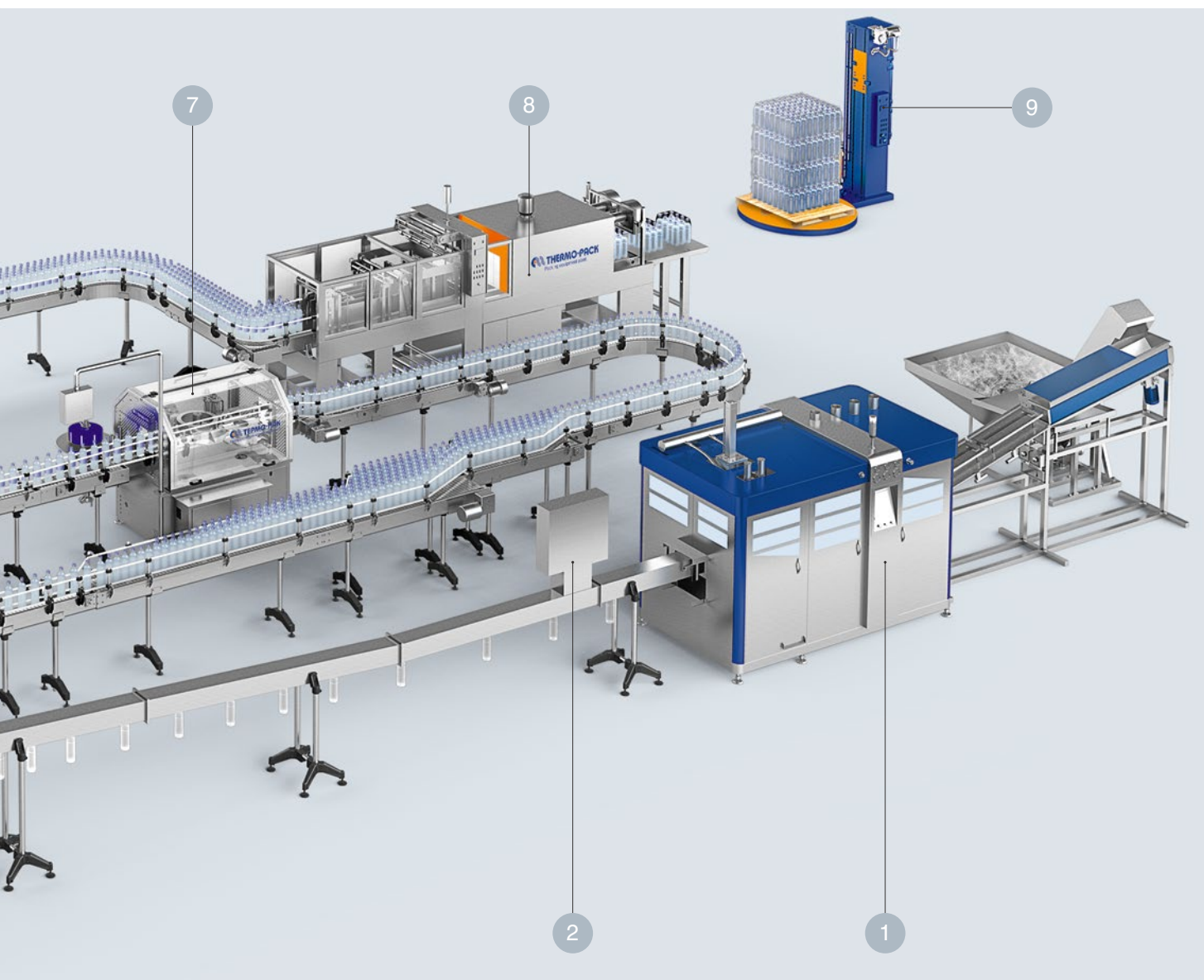
with capacity from 0,33 to 2,0 litres and capping them with the plastic screw cap.

4. Saturator — the device for gassing (saturation) of liquids by the carbon dioxide.

5. Ink jet printer (dater) – the device used for coating the commercial package marking symbols, bar codes or other informative data (date of manufacture of products or deadline date, time or number of manufacturing of change packer and the trademark logos).



## Filling line, productivity up to 3000 bph (4,5 m<sup>3</sup>/h)



6. Conveyor chain plate. A configuration of conveyor system developed on the basis of the plan placement of the equipment in the shopfloor and the customer's specifications.

7. Labelling machine MPPE-3000 A is for application (sticking) of circular segment polypropylene labels from the roll on the cylindrical PET or glass bottles from 0,33 to 2,0 litres. Productivity — up to 4000 bph.

8. Packing machine UMT-600 AL is designed for shrink wrapping of products. This is a fully automatic machine, it does not require the constant operator presence.

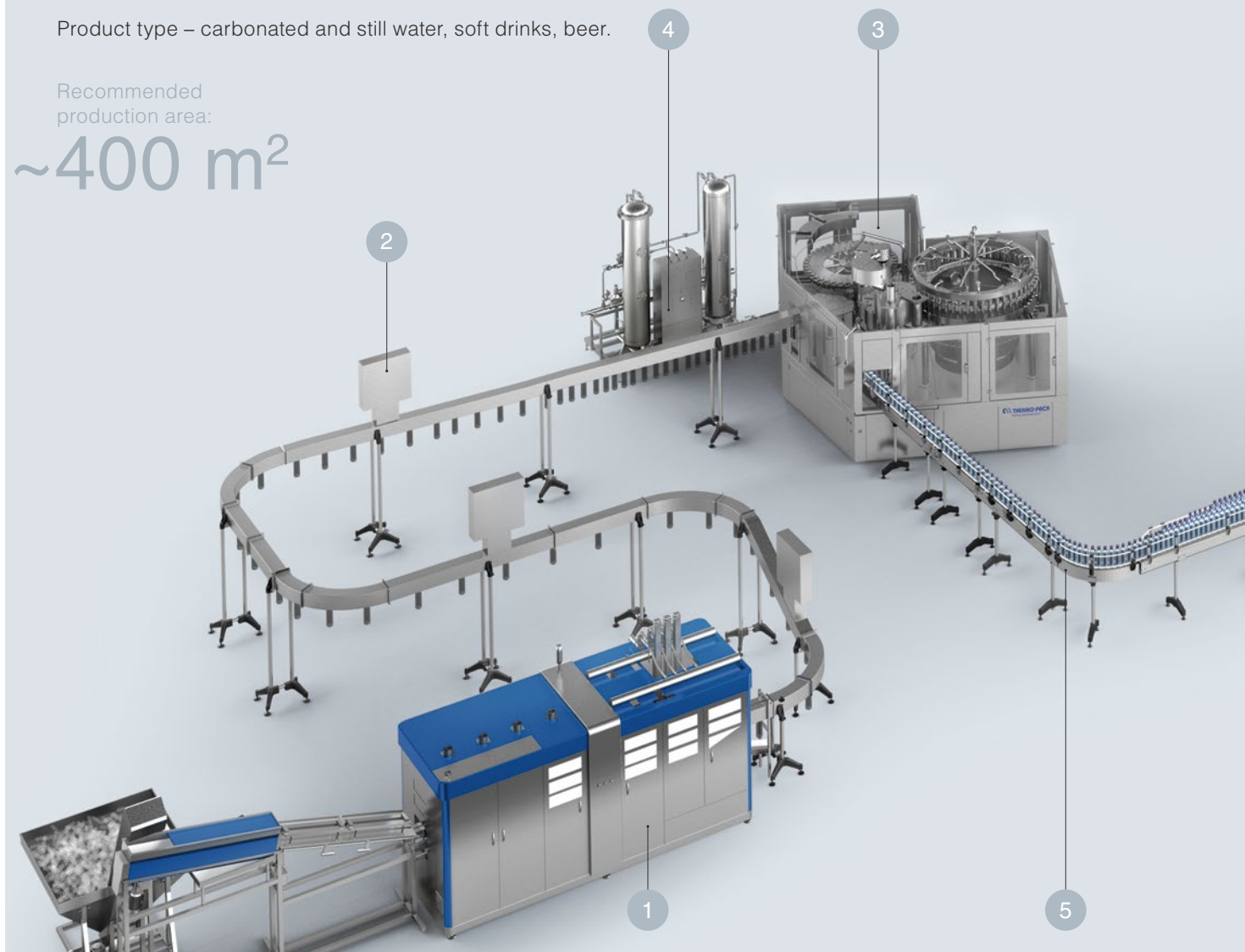
9. Packing machine, type «Cocoon» is for wrapping of the goods on pallets by the stretch film.



Product type – carbonated and still water, soft drinks, beer.

Recommended  
production area:

~400 m<sup>2</sup>



3

1. Automatic blow molding machine APF-6004, productivity — 6000 bph is for the small and medium volume bottles with capacity (0,25 – 2,0 litres) from PET preforms.

2. Pneumatic conveyor (air) for PET containers for transporting from the blow molding machine to the filling block by a flow of air.

3. Filling machine MR 63.9 (triple block) with the optional cap feeding device. Machine is for rinsing, filling of the soft drinks, mineral

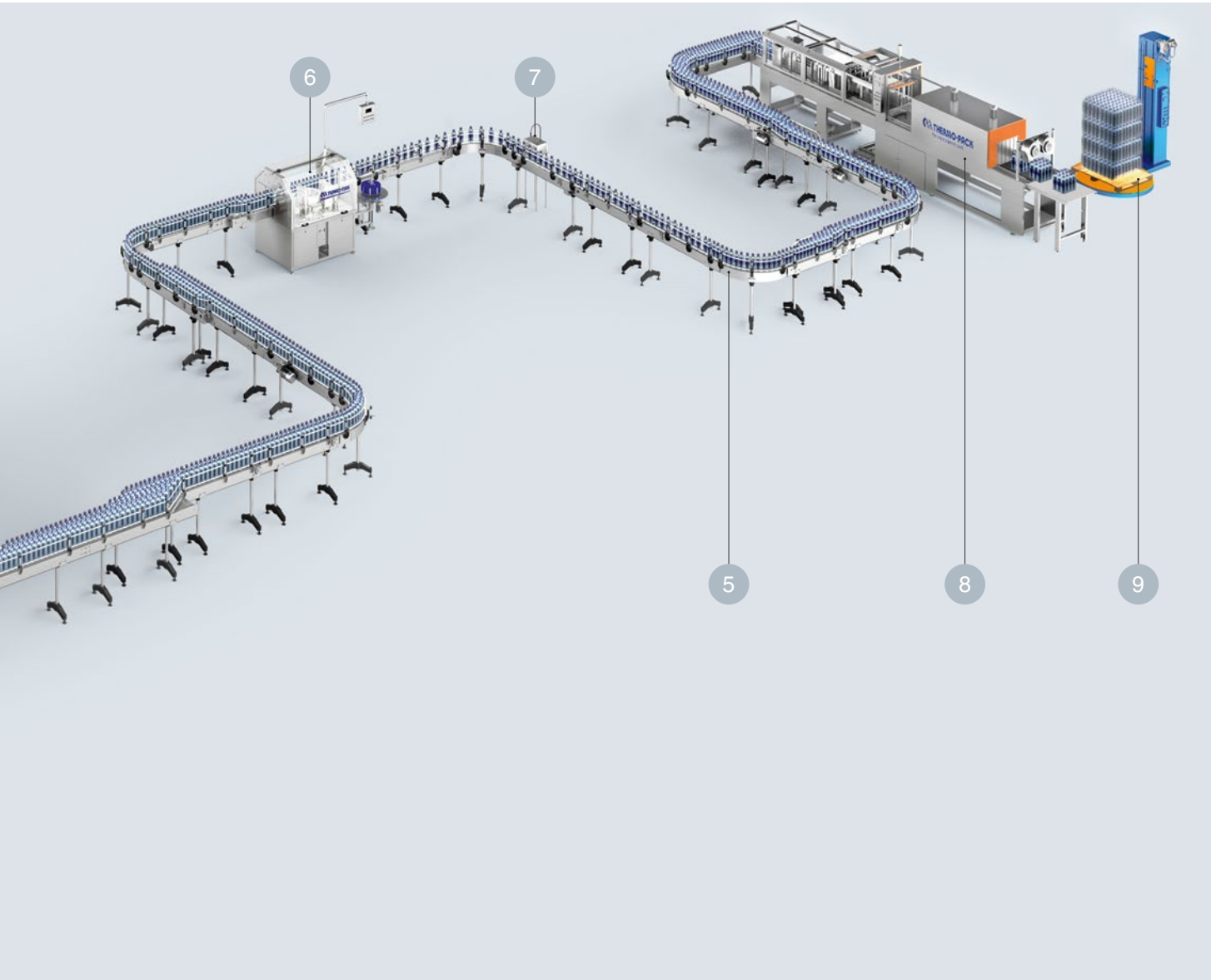
water, beer, kvass in PET bottles with capacity from 0,33 to 2,0 litres and capping them with the plastic screw cap.

4. Saturator — the device for gassing (saturation) of liquids by the carbon dioxide.

5. Conveyor chain plate. A configuration of conveyor systems developed on the basis of the plan placement of the equipment in the shopfloor and the customer's specifications.



## Filling line, productivity up to 6000 bph (9,0 m<sup>3</sup>/h)



6. Labelling machine MPPE-6000 A is for application (sticking) of circular segment polypropylene labels from a roll on the cylindrical PET or glass bottles from 0,33 to 2 litres.

Productivity — up to 6000 bph.

7. Ink jet printer (dater) – the device used for coating the commercial package marking symbols, bar codes or other informative data (date of manufacture of products or deadline date, time or number of manufacturing of change packer and the trademark logos).

8. Packing machine UMT-1500 AL. This is the automated packing complex of linear type for products packaging (PET, glass bottles, glass jars) into shrink polyethylene. Productivity — up to 1200 pph.

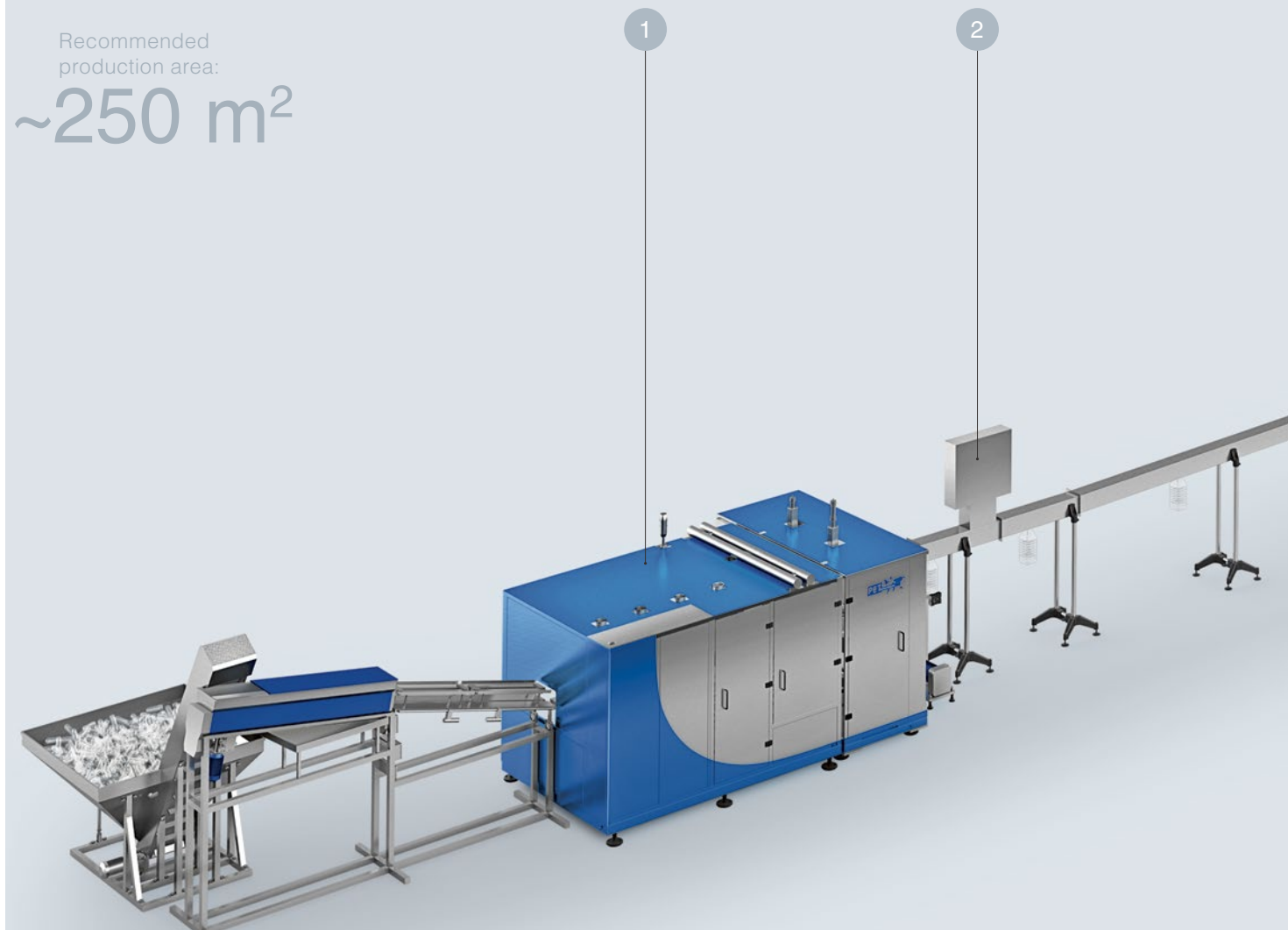
9. Packing machine, type «Cocoon» is for wrapping of the goods on pallets by the stretch film.



Product type – drinking water.

Recommended  
production area:

~250 m<sup>2</sup>



5

1. Automatic blow molding machine APF-5, productivity – 2000 bph for the large volume bottles with capacity from 3,0 to 10,0 litres.

2. Pneumatic conveyor (air) for PET containers for transporting from the blow molding machine to the filling block by a flow of air.

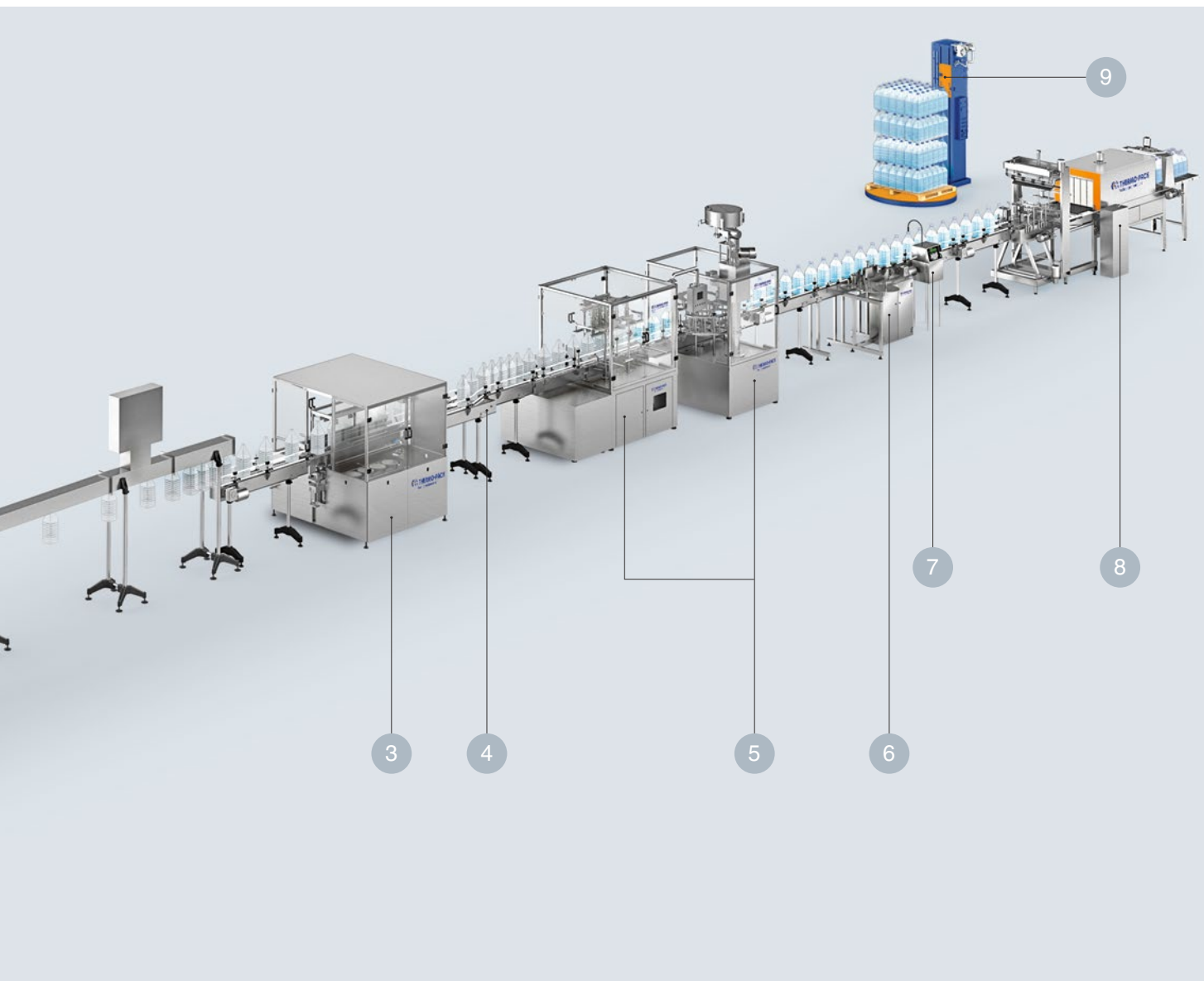
3. Rinser OP-5. Machine is designed for rinsing of the inner surface of the bottles with the aim to remove the dust and easy contamination. Productivity up to 1000 bph.

4. Conveyor chain plate. A configuration of conveyor systems developed on the basis of the plan placement of the equipment in the shopfloor and the customer's specifications.

5. Filling machine MR 62 B.L. (double block). The machine used for filling of non-carbonated beverages and water into the PET bottles with a capacity from 3,0 to 10,0 litres and capping them with the plastic screw cap.



## Filling line, productivity up to 1 000 bph (5,0 m<sup>3</sup>/h)



6. Adhesive label applicator, type AEM is for applying self-adhesive labels (one and two position) on the cylindrical surface automatically.

7. Ink jet printer (dater) – the device used for coating the commercial package marking symbols, bar codes or other informative data (date of manufacture of products or deadline date, time or number of manufacturing of change packer and the trademark logos).

8. Packing machine UMT-500 A (automatic) is for the formation of products in packets, wrapping the packets into the shrink polyethylene. Capacity up to 600 pph.

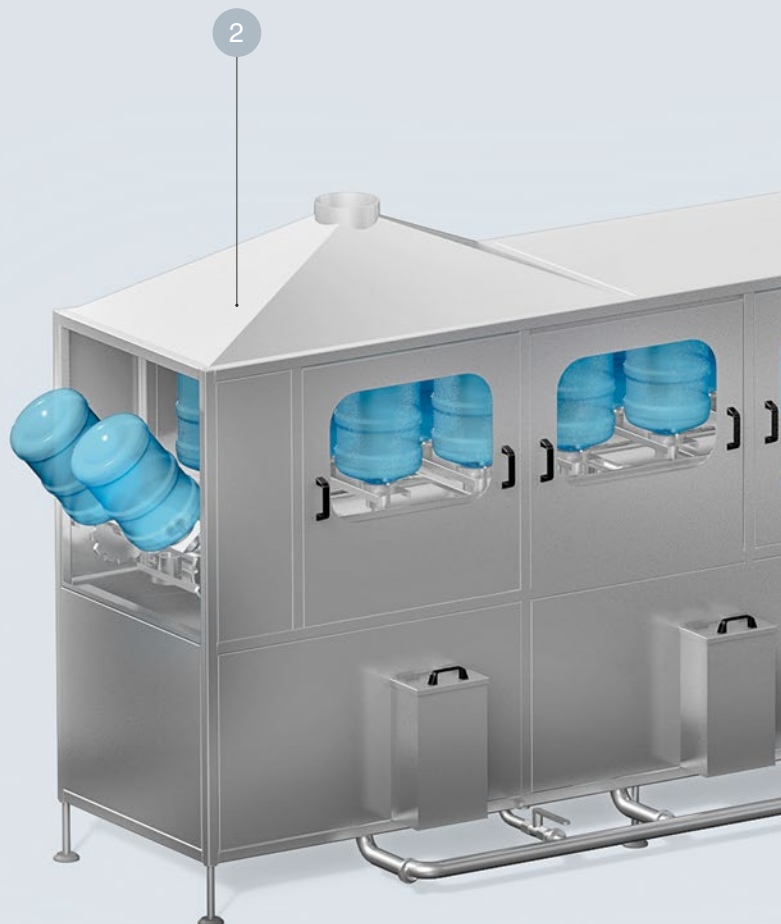
9. Packing machine, type «Cocoon» is for wrapping of the goods on pallets by the stretch film.



Product type – drinking water.

Recommended  
production area:

~45 m<sup>2</sup>



2

1. The semi-automatic machine for external washing of bottles MR 63.19L.A2-03 is designed for cleaning outer and inner surfaces of 19 litre bottle by washing solution and subsequently rinsing with water to prepare them for the reuse.

Productivity — up to 300 bph.

Automatic filling monoblock MR 63.19L.A2

Capacity — up to 300 bph.

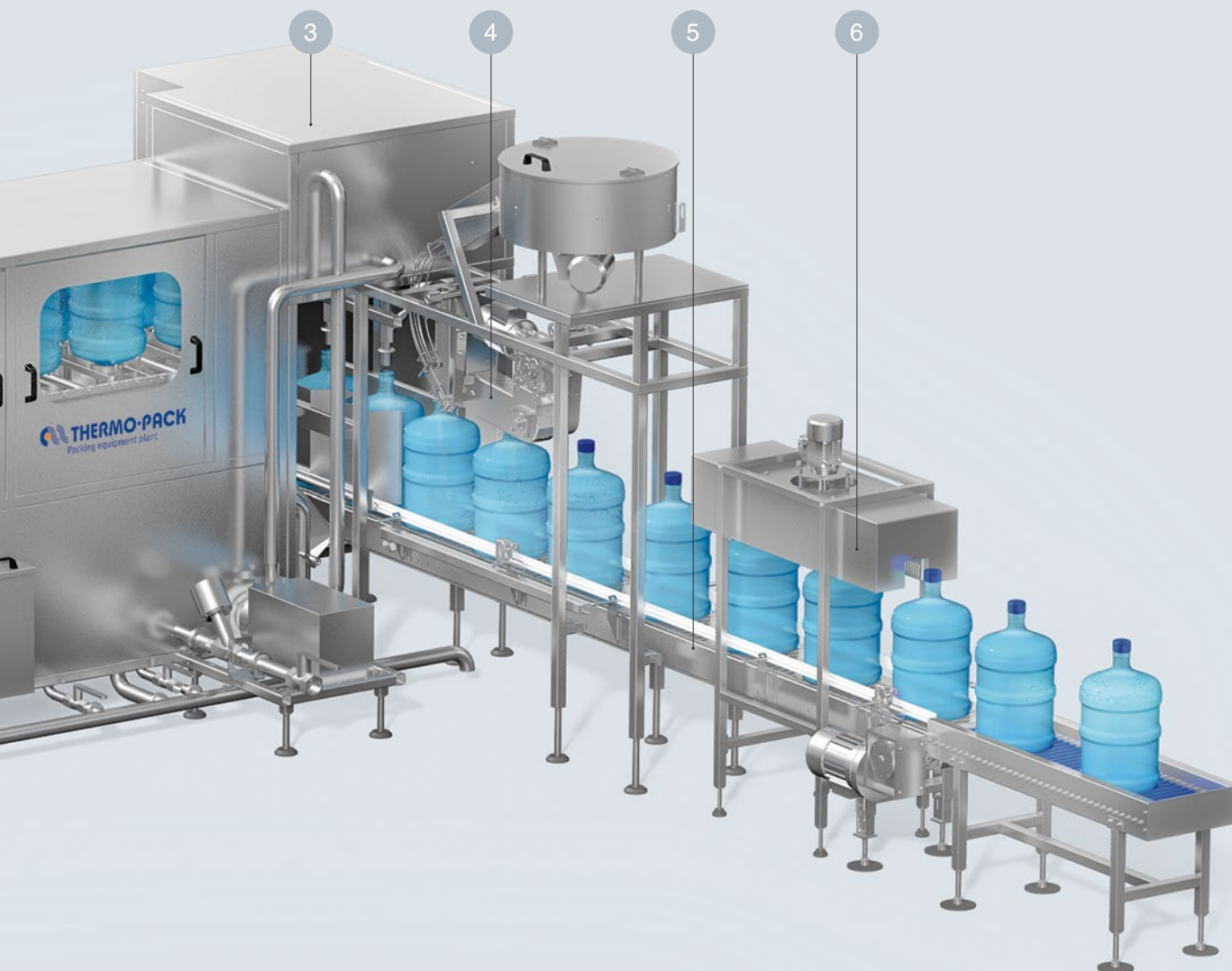
2. Rinsing unit is designed for sanitization of internal surfaces of bottles. Washing is carried out through the fixed nozzles. Rinsing time is regulated. The submission of empty bottles in the monoblock is carried out manually.

\* Can be equipped by a bottles loader.

3. Filling unit is used for filling of water into the bottles. The filling time is regulated.



## Filling line, productivity up to 300 bph (5,7 m<sup>3</sup>/h)



4. Capping unit provides guidance and installation of plastic stopper.

5. Conveyor chain plate. Is used to move the bottles between the units of machine. A configuration of conveyor systems developed on the basis of the plan placement of the equipment in the shopfloor and the customer's specifications.

6. Shrink tunnel is designed for thermal shrinkage of the overhead hygienic caps on the bottle stoppers.

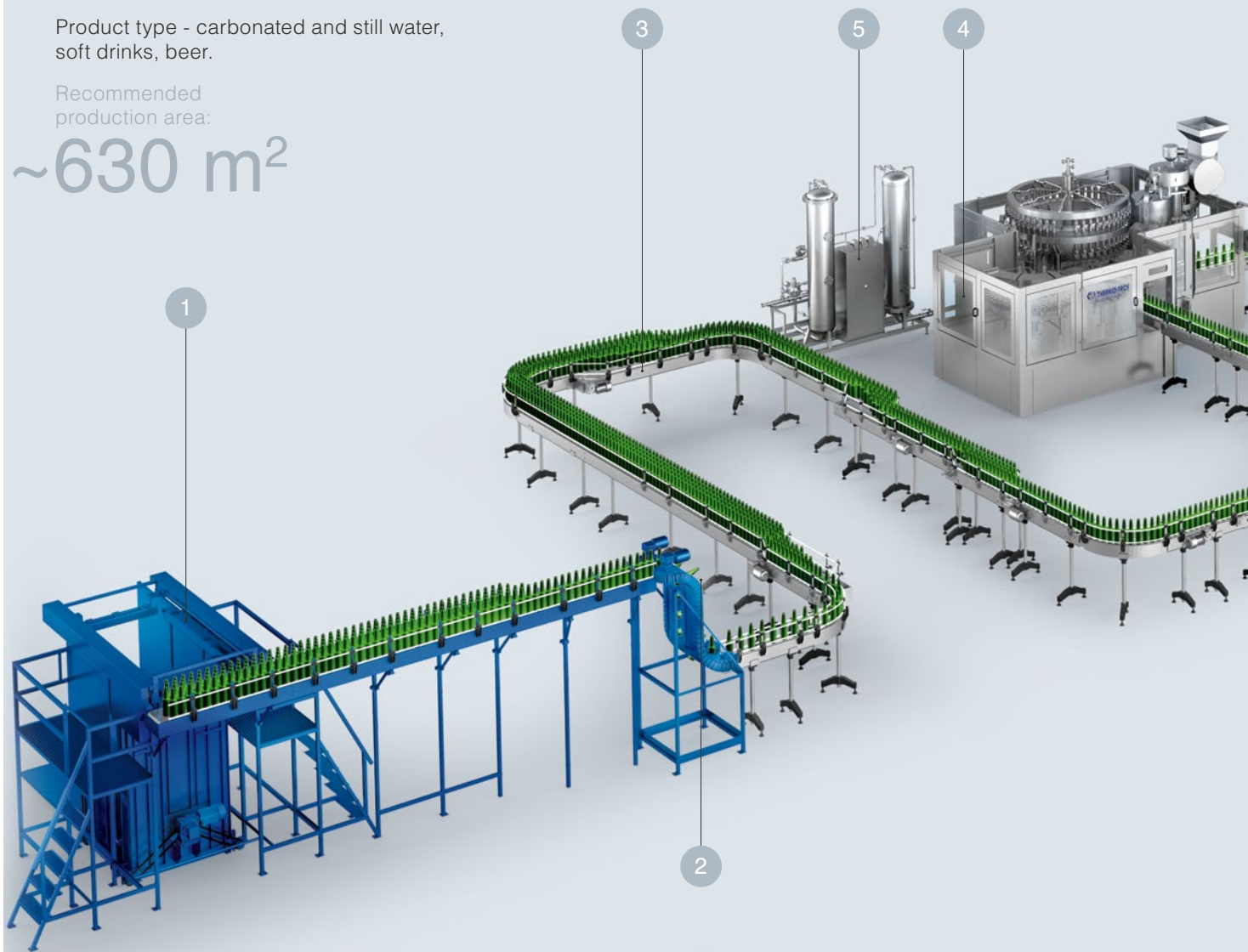
The processes of sanitizing, filling, capping of bottles and issuance are automated. Productivity — up to 300 bph.



Product type - carbonated and still water, soft drinks, beer.

Recommended production area:

~630 m<sup>2</sup>



6

1. Depalletizer is designed for automatic unloading of the bottles and cans from pallets on a conveyor line.

2. Vertical side flexing gripper conveyor.

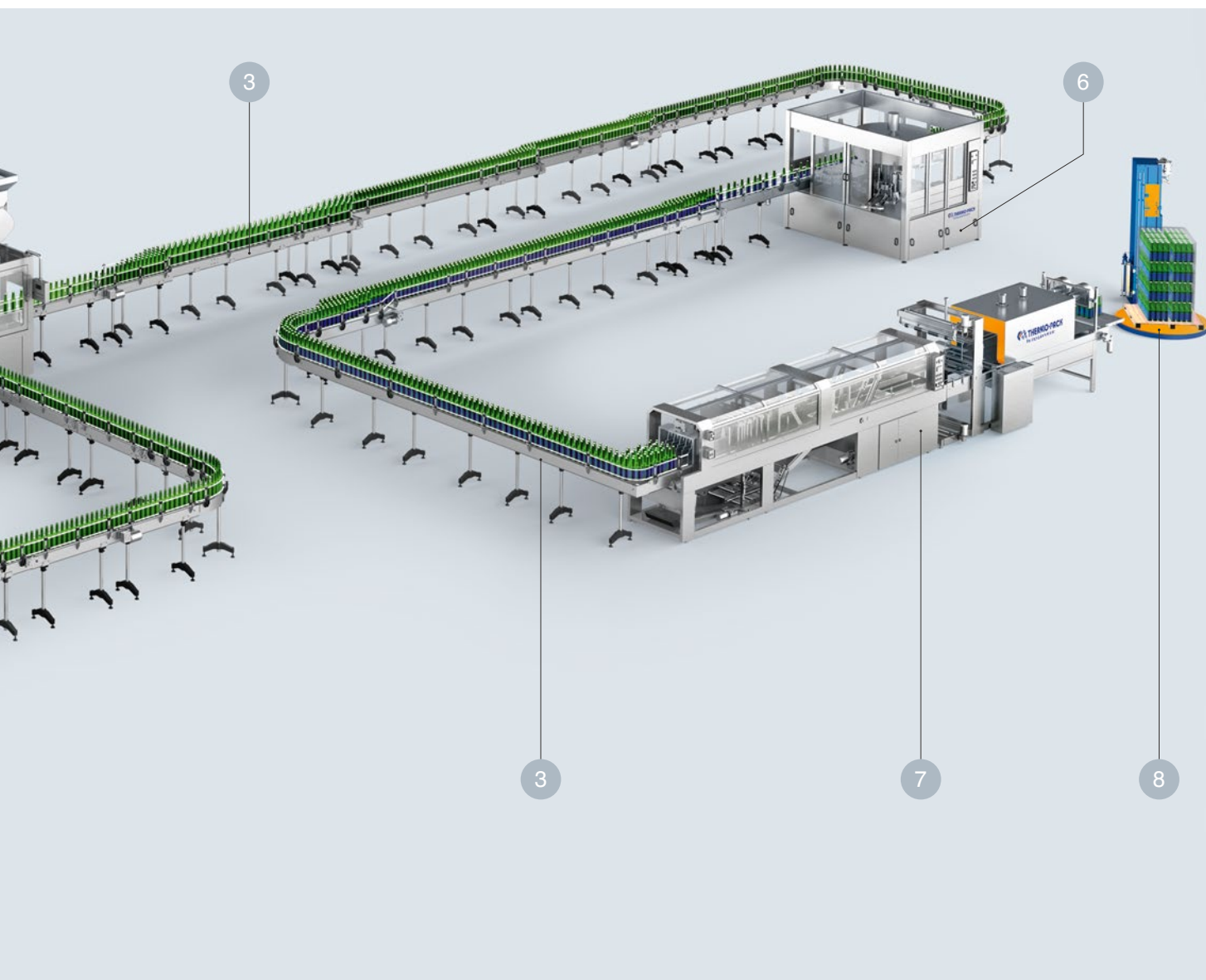
3. Conveyor chain plate. A configuration of conveyor systems developed on the basis of the plan placement of the equipment in the shopfloor and the customer's specifications.

4. Filling machine MR 63.S (triple block). Machine is for rinsing, filling of the soft drinks, mineral water, beer, kvass into glass bottles and capping them with crown or screw cap.

5. Saturator is the device for gassing (saturation) of liquids by the carbon dioxide.



## Filling line, productivity up to 9 000 bph (4,5 m<sup>3</sup>/h)



6. Labelling machine MEW for application (sticking) of paper labels to glass bottles of 0,33 litres and 0,5 litres. The equipment is made for a specific type of containers and label size.  
Productivity — up to 12 000 bph.

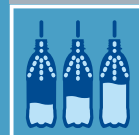
7. Packing machine UMT-1500 AL.02 of linear type for various types of packaging of cylindrical containers. Productivity up to 1200 pph.

8. Packing machine, type «Cocoon» is for wrapping of the goods on pallets by the stretch film.









# Filling equipment

Filling equipment is designed for rinsing, filling of soft drinks, still and sparkling water, beer, kvass into PET or glass bottles, with the capacity from 0,33 to 10,00 litres and 19 litres bottles and capping them with a plastic screw cap for PET bottles or aluminum cap for glass bottles and crown-stopper for 19 L bottles.





1.01

## Triple block MR 63.9 40/50/10

This machine is for rinsing, filling of the soft drinks, mineral water, beer, kvass into PET bottles with capacity from 0,33 to 2,0 L and capping them with the plastic screw cap.

Productivity, bph (volume 1L)	9000
Power, kW	≤ 12
Dimensions, mm	4300 x 3850 x 3000
Weight, kg	8700
Pneumatic, MPa	0,4 – 0,5
Power supply, V/Hz	380/50





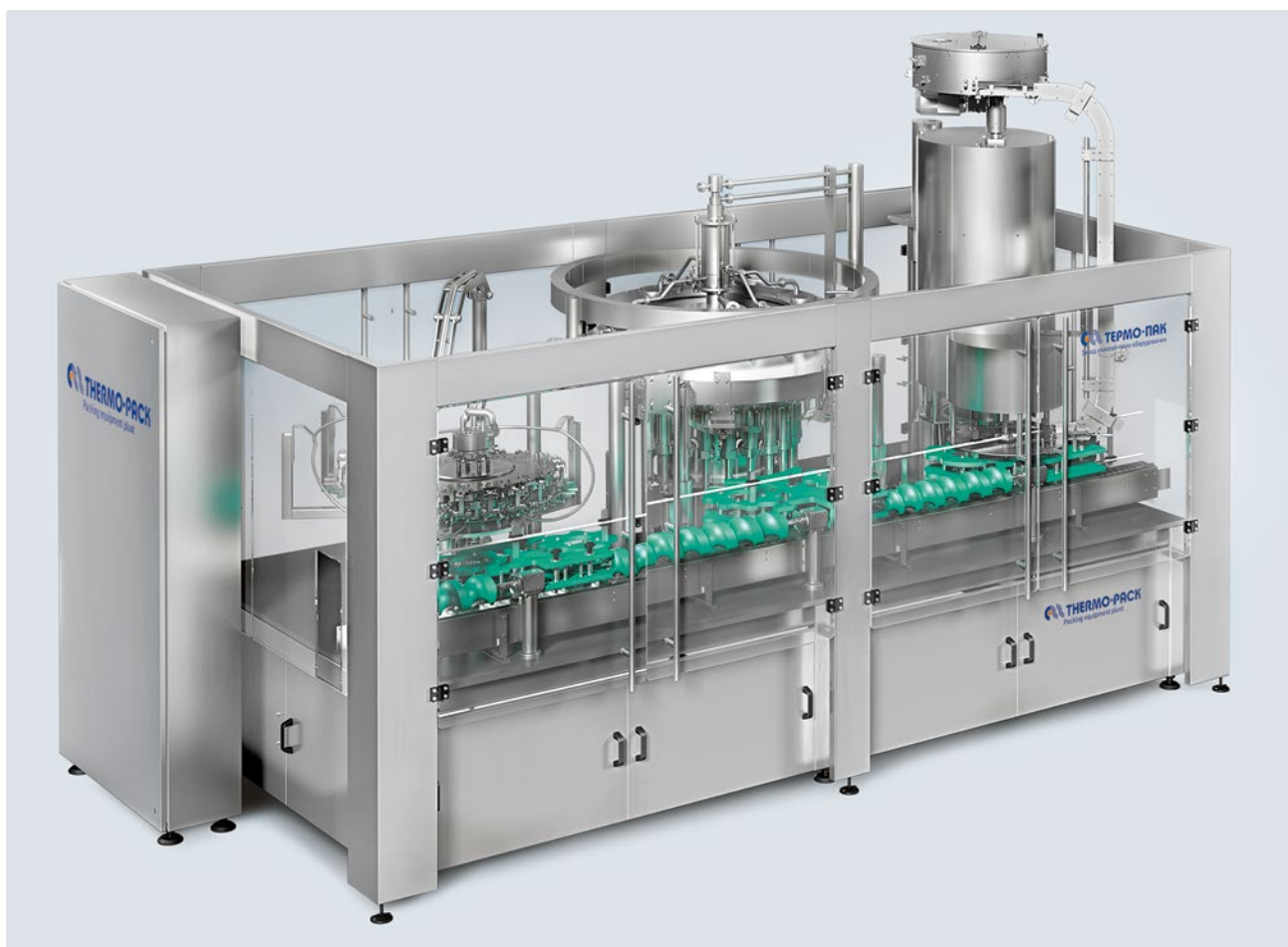
1.02

## Triple block MR 63 24/32/10

This machine is for rinsing, filling of the soft drinks, mineral water, beer, kvass into PET bottles with capacity from 0,33 to 2,0 L and capping them with the plastic screw cap.

Productivity, bph (volume 1L)	6000
Power, kW	≤ 10
Dimensions, mm	3500 x 3700 x 3000
Weight, kg	7000
Pneumatic, MPa	0,4 – 0,5
Power supply, V/Hz	380/50





1.03

## Triple block MR 63.33 20/22/4

This machine is for rinsing, filling of the soft drinks, mineral water, beer, kvass into PET bottles with capacity from 0,33 to 2,0 L and capping them with the plastic screw cap.

Productivity, bph (volume 1L)	Up to 3000
Power, kW	$\leq 10$
Dimensions, mm	4200 x 2200 x 3400
Weight, kg	6000
Pneumatic, MPa	0,8
Power supply, V/Hz	380/50





1.04

## Rinsing machine OP-10000

This machine is designed for the inner rinsing of PET bottles. Rinsing process means the intermittent washing of the inner surface of the bottle with the aim to remove the dust neutral to voltage of electrostatic and easy washing contaminants in particulate form without a strong mechanical bond with the surface of the bottle.

Productivity, bph	Up to 10000
Power, kW	$\leq 1,5$
Weight, kg	1680
Water consumption at pressure 0,1MPa, m <sup>3</sup> /h	0,3
Rinsing time, s	$\geq 3,0$
Dimensions, mm	2900 x 2500 x 2300
Height from the floor to the surface of the conveyor's chain, mm	1000
Pneumatic, MPa	0,5 – 0,6
Power supply, V/Hz	380/50





1.05

## Double block MR-63.OD

This is the linear dosing machine with volume batching which is designed for filling of tare with volume 1,0 L - 5,0 L with household or industrial chemicals (another types of liquids are optional) and capping it with the plastic screw cap (another types of caps are optional).

Productivity, bph *	300 – 1000
Power, kW	≤ 4
Dimensions, mm	7500 x 2000 x 3500
Weight, kg	2500
Pneumatic, MPa	0,6 – 0,8
Power supply, V/Hz	380/50

\* – depending on the tare volume (0.25-6.0 L) and the type of the product the productivity can vary from 300 to 5000 bph.





1.06

## Double block MR-62 B.L.

This is a linear fully automatic machine for filling of still drinks and water into PET bottles with capacity from 3,0 to 10,0 L and capping them with the plastic screw cap.

Productivity, bph (volume 5 L)	Up to 1000
Power, kW	$\leq 10$
Dimensions, mm	5100 x 1100 x 2520
Weight, kg	1400
Pneumatic, MPa	0,6 – 0,8
Power supply, V/Hz	380/50





1.07

## Capping machine RUB-6000

This machine is for capping the bottles with the plastic screw cap.

Productivity, bph	Up to 6000
Power, kW	≤ 2,2
Dimensions, mm	5000 x 1700 x 2500
Weight, kg	2500
Pneumatic, MPa	0,4 – 0,6
Power supply, V/Hz	380/50





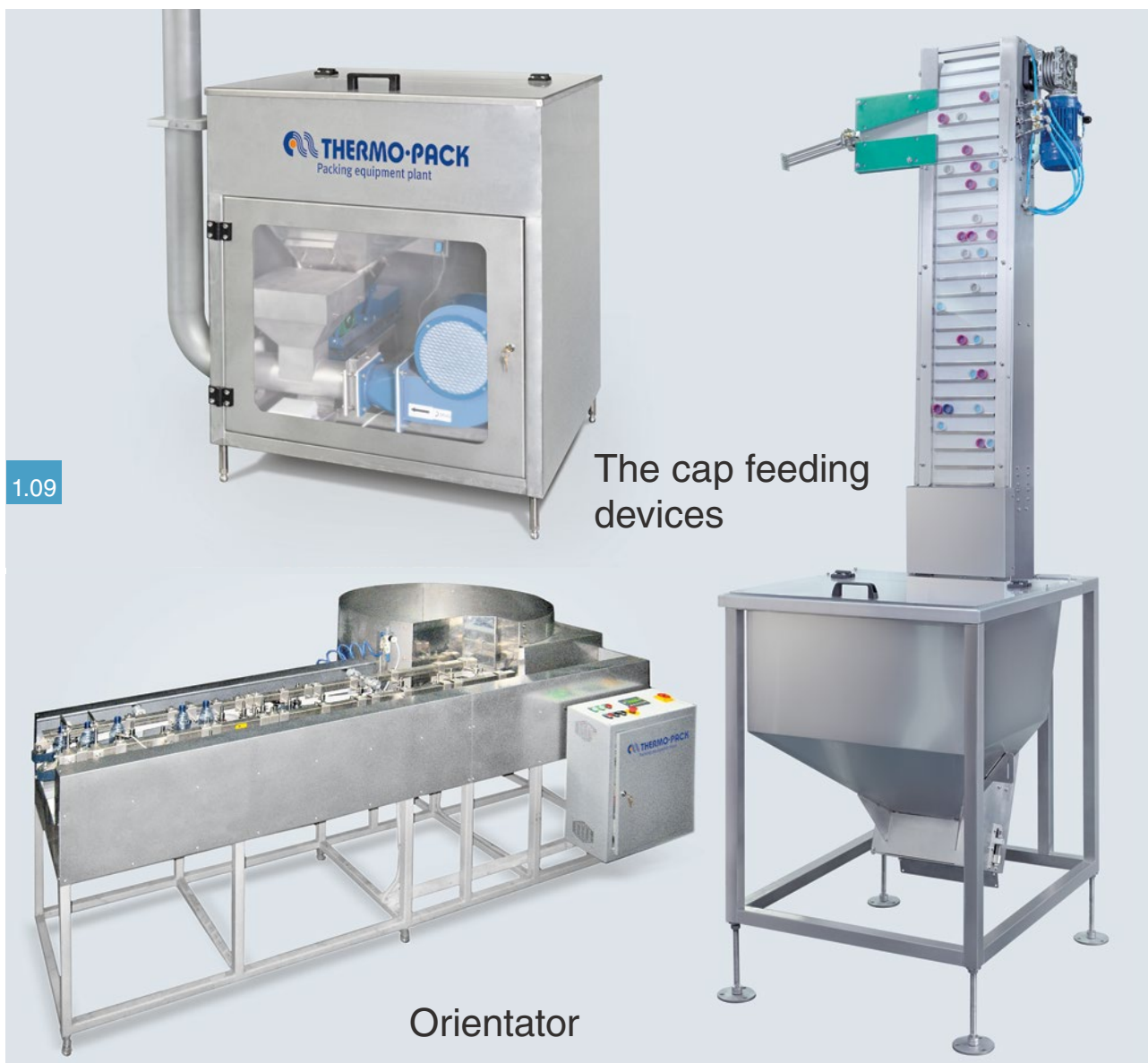
1.08

## Capping machine RUB-1000

This machine is for capping the bottles with the plastic screw cap.

Productivity, bph	1000
Power, kW	≤ 2,2
Dimensions, mm	3900 x 1700 x 2500
Weight, kg	600
Pneumatic, MPa	0,4 – 0,6
Power supply, V/Hz	380/50





1.09

The cap feeding devices

Orientator

1.10

## Orientator

This machine is for transporting and orientating of the PET bottles.

Productivity, bph	Up to 6000
Power, kW	$\leq 0,95$
Speed of movement of carrying element	Can be regulated
Dimensions, mm	3180 x 1460
Weight, kg	$\leq 400$
Pneumatic, MPa	0,5 – 0,6
Power supply, V/Hz	380/50





1.11

## Handle applicator APR

Handle applicator is designed for handles' donning on 3,0 – 10,0 L bottles. The orientating and loading of handles in the machine is provided by operator, who forms the cartridge and sets it on the machine. The machine is working in semiautomatic mode.

Productivity, bph	up to 1500
Power, kW	≤ 1,5
Dimensions, mm	2500 x 2240 x 1590
Weight, kg	≤ 1100
Pneumatic, MPa	0,6 – 0,8
Power supply, V/Hz	380/50



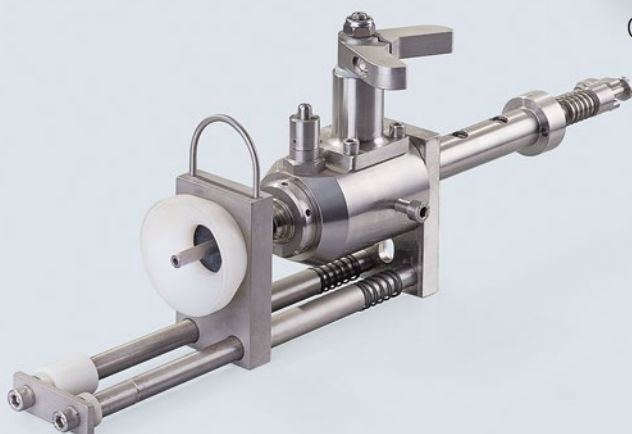
## Spare parts and changeover sets for the filling equipment



Rinsing grips



Capping head



Filling unit for glass bottle



Filling unit for PET bottle



Guiding shoes



Turnstile sprockets





# Labelling equipment

Labelling equipment is designed for applying the round or segmented polypropylene, paper or self adhesive label to cylindrical PET or glass bottles. Machines work in fully automatic mode.





2.01

## Labelling machine MPPE-10000A / 12000A

The machine is designed for applying of rolled polypropylene label to cylindrical PET or glass bottle with volume 0,5 – 2,0 L. Machines with productivity over 6 000 bph are supplied with hot-melt glue station produced by Valco Melton Ltd. (Spain). Glue station is the equipment for heating and feeding of the hot-melt adhesive to the zone of label applying and for package forming. The station is working with different types of hot-melt adhesives in a form of granules, pillows and blocks.



Label stabilization unit for  
MPPE – 12000A

Productivity, bph	Up to 10000 (12000)
Dimensions, mm	4660 x 1665 x 2014
Weight, kg	≤ 1150
Conveyor height above the floor level, mm	1000
Bottle diameter, mm	45 – 110
Label thickness, μm (polypropylene)	35 – 40
Label height, mm	50 – 150
Power, kW	≤ 12
Air consumption (at pressure 0,5MPa), L/min	130
Pneumatic, MPa	0,45 – 0,6
Power supply, V/Hz	380/50





## Labelling machine MPPE-6000A

Machine is designed for applying of rolled polypropylene label to PET and glass bottles with volume 0,5 – 2,0 L with glue tank for hot-melt adhesive.

Productivity, bph	Up to 6000
Dimensions, mm	3840 x 1665 x 2014
Weight, kg	≤ 850
Conveyor height above the floor level, mm	1000
Bottle diameter, mm	45 – 110
Label thickness, µm (polypropylene)	35 – 40
Label height, mm	50 – 150
Glue consumption	1 kg / 15000 labels
Power, kW	≤ 7,0
Air consumption (at pressure 0,5MPa), L/min	≤ 85
Pneumatic, MPa	0,45 – 0,6
Power supply, V/Hz	380/50





2.03

## Labelling machine MPPE-3000A

Machine is designed for applying round or segmented rolled polypropylene label to PET or glass bottle with volume 0,5 – 2,0 L.

Productivity, bph	Up to 3000
Dimensions, mm	3840 x 1665 x 2014
Weight, kg	≤ 850
Conveyor height above the floor level, mm	1000
Bottle diameter, mm	45 – 110
Label thickness, µm (polypropylene)	35 – 40
Label height, mm	50 – 150
Glue consumption	1 kg / 15000 labels
Power, kW	≤ 7,0
Air consumption (at pressure 0,5 MPa), L/min	85
Pneumatic, MPa	0,45 – 0,6
Power supply, V/Hz	380/50





2.04

## Labelling machine MEW-6000

Machine is designed for applying of paper label from cassette to cylindrical tare with volume 0,5 – 3,0 L.

Productivity, bph	Up to 6000
Dimensions, mm	2500 x 1250 x 1700
Weight, kg	≤ 410
Conveyor height above the floor level, mm	1000
Bottle diameter, mm	45 – 150
Label material	paper
Label height, mm	50 – 130
Glue consumption (for the label 300x100 mm)	2,6 kg / 6000 labels
Power, kW	≤ 2,5
Air consumption (at pressure 3 bar), m <sup>3</sup> /min	0,96
Power supply, V/Hz	380/50





2.05

## Labelling machine AEM-03

Machine is designed for applying of self-adhesive labels (uni-position) on cylindrical surface in automatic mode. AEM-03 can be used in conditions of single, serial or mass production in food and other industries.

Productivity, bph	Up to 6000 *
Power consumption, kW	≤ 1
Weight, kg	200
Dimensions, mm	2000 x 1100 x 1100
Label dimensions, mm	Length: up to 200; Width: 20 – 100
Power supply, V/Hz	220/50

\* – depends on the label length













# Packing equipment

Packing equipment is designed for packing of the products into heat shrinking polyethylene.

Types of package: monoblock and group packing. There are mechanical, semi automatic and fully automatic packing machines presented in our range.

Depending on the machine model we realize the next types of packings:

- into heat shrinking film;
- into heat shrinking film with carton padding;
- into heat shrinking film with carton tray.





3.01

## UMT-1500AL.O

This is fully automatic packing complex of linear type which is used for wrapping of products into heat shrinking polyethylene. In this machine the thermo-knife is replaced by seamless wrapping unit, which speeds up the process of block's wrapping by film in several times. The machine can be integrated into existing production line and can be connected to the general automatic control system (in accordance to the customer's requirements).

Productivity, ppm	Up to 35
Pack dimensions, mm	400 x 300 x 350
Machine dimensions, mm	9600 x 1220 x 1850
Weight, kg	≤ 2500
Power, kW	≤ 50
Pneumatic, MPa	0,6 – 0,7
Power supply, V/Hz	380/50

\* – The base model is designed for packing of cylindrical products.

If it is necessary to pack the product of rectangular or oval shape there is an option to add the flow dividing unit.





3.02

## UMT-1500AL.01

This is fully automatic packing complex of a linear type for packing of bottles, cans and other similar products on a carton padding into thermo shrinking film. Can be used without carton padding as well.

Productivity, ppm	Up to 20
Pack dimensions, mm (max)	400 x 300 x 350 **
Type of the packed products*	cylindrical package
Max pack size*	6 x 4
Machine dimensions, mm	8150 x 1220 x 1850
Weight, kg	≤ 2000
Power, kW	≤ 34
Pneumatic, MPa	0,5 – 0,7
Air consumption L/min	Up to 400
Power supply, V/Hz	380/50

\* – in accordance to the customer's requirements.

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.01

## UMT-1500AL.02

This is fully automatic linear high capacity machine for a wide range of cylinder-shape tare packing into heat shrinking polyethylene with a carton trays.

Productivity, ppm	Up to 20
Pack dimensions, mm (max)	400 x 300 x 350 **
Racking unit dimensions, mm	6300 x 1220 x 1700
Packing unit dimensions, mm	4000 x 1120 x 1850
Weight, kg	≤ 2000
Racking unit power kW	≤ 4
Packing unit power, kW	≤ 33
Pneumatic, MPa	0,6 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.04

## UMT-1500AL.B

This machine is designed for the group packing of 5,0 – 8,0 L bottles into heat shrinking film in automatic mode. Package format – two bottles – one by one.

Productivity, ppm	Up to 15
Pack dimensions, mm	Due to technical task
Machine dimensions, mm	6350 x 1220 x 1850
Weight, kg	≤ 2000
Power, kW	≤ 28
Pneumatic, MPa	0,45 – 0,6
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.05

## UMT-1500AL

This is fully automatic linear packing complex, which is designed for group packing of different types of containers: PET bottles, glass bottles, glass jars into heat shrinking film.

Productivity, ppm	Up to 20
Pack dimensions, mm (max)	400 x 300 x 350 **
Machine dimensions, mm	7520 x 1220 x 1850
Weight, kg	≤ 2000
Power, kW	≤ 34
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.06

## UMT-500A

This machine is used for group packing of 5,0 – 8,0 L bottles into heat shrinking film in automatic mode.

The package format – two bottles one by one.

Productivity, ppm	Up to 10
Pack dimensions, mm	340 x 170 x 360
Package format	from 1 x 2
Machine dimensions, mm	4500 x 1050 x 2300
Weight, kg	≤ 1500
Power, kW	≤ 28
Pneumatic, MPa	0,45 – 0,6
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.07

## UMT-600AL

This is fully automatic linear packing complex, which is designed for group packing of different types of containers: PET bottles, glass bottles, glass jars into heat shrinking film.

Productivity, ppm	Up to 15
Pack dimensions, mm (max)	400 x 300 x 350 **
Packadge format	from 2x2 till 6x4
Machine dimensions, mm	5500 x 1220 x 1850
Weight, kg	≤ 1000
Power, kW	≤ 30
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.08

## UMT-600A – 07 PET

This is the automatic packing machine which does not require the operator presence. The machine is designed for packing of cylindrical containers. Package may contain over 2 rows of products. It is manufactured in accordance to the customer's requirements, considering specifics of a particular product to be packed. It works in complex with automatic lines in high capacity enterprises of different industries.

Productivity, ppm	10 – 12
Pack dimensions, mm (max)	350 x 210 x 350
Machine dimensions, mm	4200 x 1200 x 2200
Machine dimensions with feeding conveyor, mm	4200 x 3200 x 2200
Weight, kg	≤ 1000
Power, kW	≤ 29
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.09

## UMT-600A-06 KP

This is the automatic shrink wrapping machine with feeding unit of cardboard paddings from the cassette. It is used for a group packing of products in glass, PET bottles or tin cans with volume 0,3 – 2,0 L (juices, sauces, tomatoes, condensed milk etc.). The pack formation is done in automatic mode.

Productivity, ppm	Up to 10
Pack dimensions, mm (can be changed)	400 x 300 x 350 **
Machine dimensions, mm	6200 x 2000 x 2250
Weight, kg	≤ 1000
Power, kW	≤ 28,5
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.10

## UMT-600A

This is an automatic machine for packing of ready blocks of products into heat shrinking film.

Productivity, ppm	Up to 10
Pack dimensions, mm (can be changed in accordance with customers's requirements.)	400 x 300 x 350 **
Machine dimensions, mm	4100 x 1100 x 1700
Weight, kg	≤ 800
Power, kW	≤ 28
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.11

## UMT-600AM

This is the automatic machine for group packing of products in Pure-Pak tare. It is mostly installed into low capacity production lines, up to 3000 litres per hour.

Productivity, ppm	Up to 5	
Tare volume (ml) and quantity of units in pack	0,330 ml	4x5
	0,415 ml	3x4, 4x5
	0.930 ml	2x3; 3x3
Machine dimensions, mm	3900 x 1250 x 1800	
Weight, kg	≤ 700	
Power, kW	≤ 27	
Pneumatic, MPa	0,5 – 0,7	
Power supply, V/Hz	380/50	

\* – the max film width – 630 mm





3.12

## UMT-600A-06 PP

This is the automatic machine for group packing of products in Pure-Pak tare. It is mostly installed into medium capacity production lines, up to 6000 litres per hour.

Productivity, ppm	Up to 9
Pack dimensions, mm	500 x 300 x 260
Package format	from 2x3 till 3x5
Machine dimensions, mm	4300 x 3250 x 2100
Weight, kg	≤ 1000
Power, kW	≤ 30
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.13

## UMT-600A-06 KHP

This is the automatic shrink wrapping machine for group packing of the loose products in paper packets with a steady bottom.

Productivity, ppm	Up to 10
Pack dimensions, mm (can be changed due to customer request)	400 x 210 x 250
Machine dimensions, mm	4250 x 1200 x 2050
Machine dimensions with feeding conveyor, mm	4250 x 5580 x 2050
Weight, kg	≤ 1000
Power, kW	≤ 33
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.14

## UMT-600A-06 KHP (2M)

The machine is designed for group packing of the loose products in flexible package. The machine is automatic and does not require the constant operator presence.

Productivity, ppm	Up to 5
Max pack dimensions, mm	600 x 200 x 120
Machine dimensions, mm	4900 x 1600 x 2050
Weight, kg	≤ 1000
Power, kW	≤ 35
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.15

## UMT-600A-06 KHP (4M)

The machine is designed for group packing of the loose products in flexible package into heat shrinking film. The machine is automatic and does not require the constant operator presence.

Productivity, ppm	Up to 5
Pack dimensions, mm (can be changed in accordance with customers's requirements).	300 x 280 x 190
Package format	3 x 4
Machine dimensions, mm	4900 x 1200 x 1800
Weight, kg	≤ 1000
Power, kW	≤ 33
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.16

## UMT-2000A

This is the automatic packing complex which designed for individual packing of the big size flat production (doors, plates, etc.) into heat shrinking film.

Productivity, ppm	Up to 5
Pack dimensions, mm	2050 x 1000 x 60
Machine dimensions, mm	11030 x 4930 x 2600
Weight, kg	≤ 2500
Power, kW	≤ 73
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50





3.17

## UMTO-1000A

The machines of UMTO series are designed for individual packing of roll type products, in particular for wallpapers packed in rolls. The length of the roll — 530 - 1060 mm.

UMTO-500A modification is used for packing of a roll with a length of 500 mm.

Productivity, ppm	Up to 10 – for UMTO-1000A Up to 20 – for UMTO-500A
Pack dimensions, mm	length 530 – 1060 Ø70 – 200
Machine dimensions, mm	4800 x 5800 x 1800
Weight, kg	≤ 1600
Power, kW	≤ 24
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50





3.18

## UMT-700 AW (waterproof)

Semi-automatic two roll packing machine, with possibility to work in automatic mode. Is used for package wrapping into a heat shrinking film and full package hermetization using cross and lengthwise welding elements and package shrinkage in the thermal tunnel of the machine.

Productivity, ppm	Up to 4
Max pack dimensions, mm (can be changed due to customer request)	825 x 530 x 90
Machine dimensions, mm	6800 x 1460 x 2065
Weight, kg	≤ 700
Power, kW	≤ 23
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50





3.19

## UMT-800 A.PT

This automatic packing machine is designed for packing of heavy blocks (monoblocks) of products up to 65 kg into heat shrinking film.

Productivity, ppm	Up to 5
Pack dimensions, mm	Up to 520 x 265 x 240
Machine dimensions, mm	5360 x 2200 x 2050
Weight, kg	≤ 1000
Power, kW	≤ 28
Pneumatic, MPa	0,5 – 0,7
Air consumption L/min	up to 150
Power supply, V/Hz	380/50





3.20

## UMT-1500 PT

This is the double-roll packing machine with automatic wrapping around and package feeding to the heat shrinking chamber. The package forming table is replaced by the conveyor where ready monoblocks (products in trays, boxes or single units) are placed.

Productivity, ppm	Up to 6
Pack dimensions, mm	1200 x 600 x 600
Machine dimensions, mm	5500 x 2100 x 2700
Weight, kg	≤ 1500
Power, kW	≤ 48
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50





3.21

## UMT-600 PT

This is double-roll packing machine with automatic wrapping around and package feeding to the heat shrinking chamber. The package forming table is replaced by the conveyor where ready monoblocks (products in trays, boxes or single units) are placed. It allows to integrate this machine into the technologic line and operate it in automatic mode.

Productivity, ppm	Up to 7
Pack dimensions, mm	400 x 300 x 330 **
Machine dimensions, mm	4000 x 1900 x 1900
Weight, kg	≤ 700
Power, kW	≤ 24
Pneumatic, MPa	0,45 – 0,6
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





## UMT-600 PO2

This is the double-roll semiautomatic packing machine. There is a pneumatic motor used for package wrapping and feeding. Welding of the film is done by the electric knife. There are double-roll film unwrapping units with independent electric drives, which provide faster wrapping and package feeding to heating chamber as well as facilitates rolls changing.

Productivity, ppm	Up to 7
Pack dimensions, mm (can be changed due to customer request)	400 x 300 x 330 **
Machine dimensions, mm	3800 x 1120 x 1900
Weight, kg	≤ 650
Power, kW	≤ 22
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.23

## UMT-600 PO2(M)

This is the double-roll semiautomatic packing machine. There is a pneumatic motor used for package wrapping and feeding. Welding of the film is done by the electric knife.

There are double-roll film unwrapping units with independent electric drives, which provide faster wrapping and package feeding to heating chamber as well as facilitates rolls changing.

Productivity, ppm	Up to 5
Pack dimensions, mm (can be changed according to the customer require)	400 x 300 x 250
Machine dimensions, mm	2600 x 1120 x 1900
Weight, kg	≤ 600
Power, kW	≤ 15
Pneumatic, MPa	0,5 – 0,7
Power supply, V/Hz	380/50

\* – the max film width – 630 mm





3.24

## UMT-1900 M

This is a manual packing machine which is used for packing of big size flat form products (windows, doors, plates, etc.) into heat shrinking film. Presence of two operators is necessary.

Productivity, ppm	Up to 5
Pack dimensions, mm (can be changed according to the customer require)	2500 x 1300 x 150
Machine dimensions, mm	10300 x 2800 x 1800
Weight, kg	≤ 1600
Power, kW	≤ 50
Power supply, V/Hz	380/50





3.25

## UMT-600 M

This is double-roll manual packing machine. Package collecting is done manually and wrapping is done mechanically by moving of the package. The unit for pushing of package to the heating chamber as well as the device for film cutting and welding by electric knife are operated manually by worker.

Productivity, ppm	Up to 4
Pack dimensions, mm	400 x 300 x 330 **
Machine dimensions, mm	3550 x 1120 x 1850
Weight, kg	≤ 550
Power, kW	≤ 22,8
Power supply, V/Hz	380/50

\* – the max film width – 630 mm

\*\* – It is impossible to use in the package all three maximum dimension's indexes.





3.26

## AFP

AFP is a packing machine for cardboard boxes formation.

The edges of the boxes are bended and glued. This machine can be integrated into the technological line.

AFP can be used in conditions of serial and mass production in light and food industries.

Productivity, ppm	Up to 10
Pack dimensions, mm	Length: 1200 Width: 300 – 450 Height 250 – 300
Machine dimensions (APF-2), mm	4850 x 2300 x 2525
Power, kW	≤ 0,8
Power supply, V/Hz	380/50
Pneumatic, MPa	0,5 – 0,7
Raw material	work pices from corrugated cardboard





3.27

## Cocoon

Packing machine, type Cocoon, is for wrapping of the goods on pallets by the stretch film.

- selection of manual or automatic mode;
- stopping the platform in the required position;
- setting from 1 to 3 cycles of pallets wrapping (1 cycle – carriage goes up and down).

Platform diameter, mm	1500 – 2000
Height of the block (pallet), mm	2500 – 3000
Weight of the block (pallet), kg	1500 – 3500
Tension of the stretch film	regulated
Width of the stretch film, mm	450-500
Rotation speed of the block (pallet), mm	regulated
Machine dimensions standard, mm	length: 2100 – 2600 width: 1500 – 2000 height: 2000 – 3000
Power, kW	≤ 2,1
Weight, kg	≤ 400 – 650
Power supply, V/Hz	380/50





3.28

## Handle applicator

The handle applicator is designed for applying of self-adhesive handles on a group package or overall single package as well as on a multipack system which is widely used in beverage industry.

Productivity, ppm	Up to 20
Machine dimensions, mm	2040 x 1000 x 2100
Weight, kg	≤ 400
Power, kW	≤ 0,18-0,55
Pneumatic, MPa	0,1 – 1,0
Power supply, V/Hz	220/50





3.02

## UMT-K

Machine is designed for packing of sealing lids into heat shrinking polyethylene by blocks of 50 pcs. The machine is semiautomatic.

The operator lays the block of lids on the receiving table and pushes the START bottom. Then the machine wraps the block of lids into the film and shrinks it.

Productivity, ppm	Up to 5
Machine dimensions, mm	850 x 1000 x 2000
Weight, kg	≤ 750
Power, kW	≤ 8,5
Power supply, V/Hz	380/50





3.03

## Cap shrinking machine UTK

Heat shrinking tunnels, type UTK, are designed for shrink of PVC caps (capsules) on the glass bottlenecks.

Productivity, caps/min	Up to 125
Type of the shrink products	PVC caps/capsules
Machine dimensions, mm	1350 x 800 x 1800
Weight, kg	≤ 140
Power, kW	≤ 6,18
Pneumatic, MPa	0,6 – 0,7
Power supply, V/Hz	380/50









# Conveyors and conveyor systems

Conveyors and conveyor systems are designed for loading/unloading and transportation of materials/products in all fields of industry.

Our product range includes the following types of conveyors: belt, chain, gripper, pneumatic, telescopic, roller, spiral, trolley, bucket, step transporters and pallet elevators.





4.01 Distributing conveyor together with feeding conveyor and wrapping units

## Conveyors and conveyor systems for confectionary

The conveyors and conveyor systems are used for transporting of the confectionary starting from the product forming machines through cooling tunnels then leading to wrapping and prepacking units by feeding conveyors and finishing with collecting of wrapped products and their transporting to packing machines.

The leading element is a polyurethane belt. The drive station includes the frequency controlled drive and the automatic belt centering device. This equipment may contain active knives for feeding of products to wrapping units, angle tables for connection with wrapping units at the angle of 90 degrees and automatic system for separators control.





4.02 Belt conveyor with angle of 180 degrees



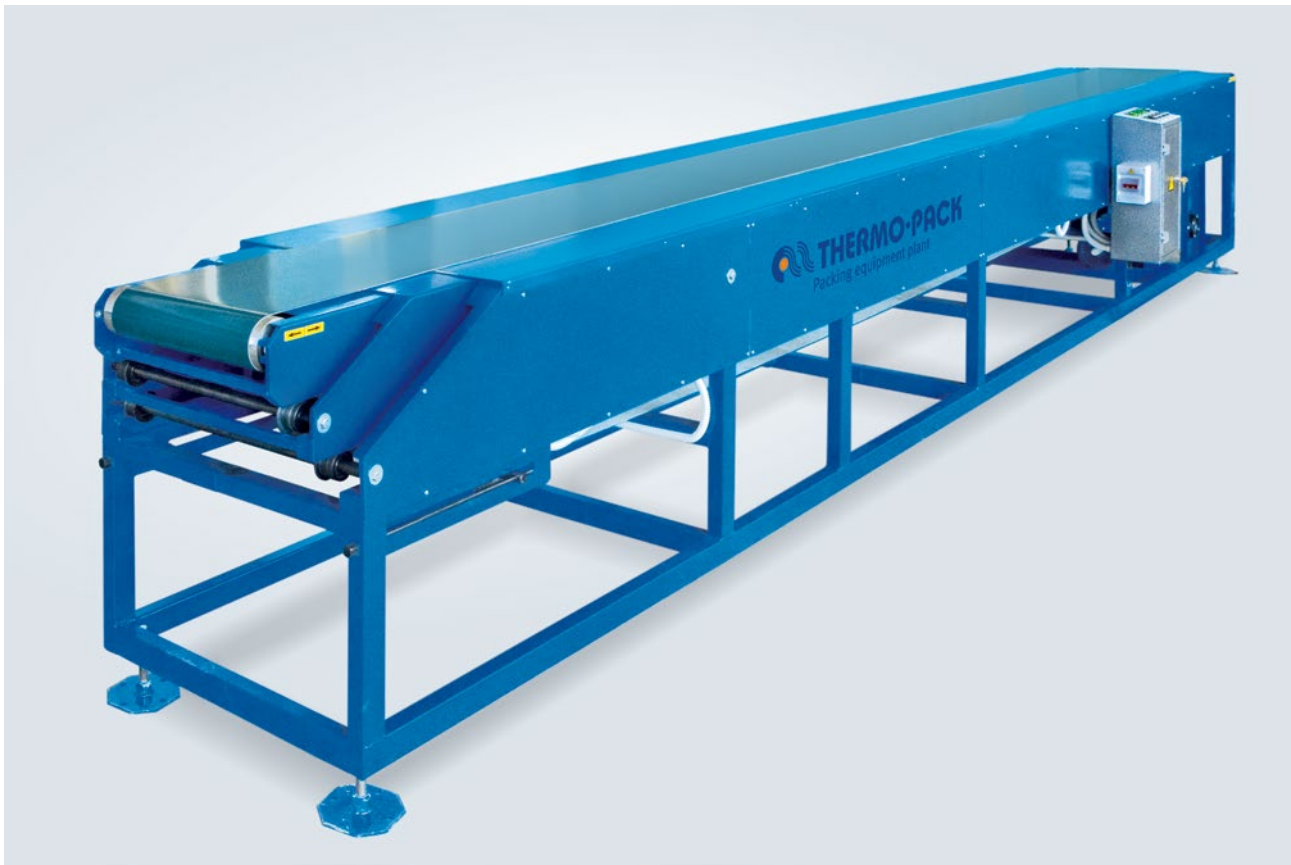
4.03 Cooling tunnel

These tunnels are designed for cooling of the confectionary. The width of belt 400 – 1300 mm.

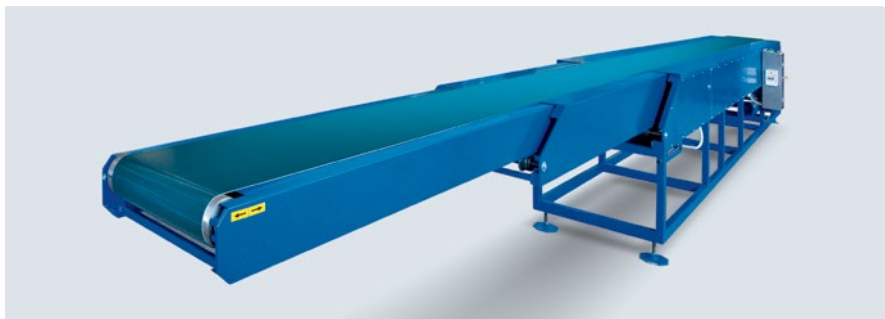
Tunnels can be equipped with belt or special net. Depending of the necessary productivity, they can be equipped with one or several cooling units. Servo-drive is supplied with the system of automatic positioning and control of the belt strengthening. The standard set gives the possibility to arrange the cooling zones for chocolate or icing. The belt is equipped with knives for automatic cleaning. Easy access is provided with up-opening lids. Sandwich panels support heat insulation on a high level. Conveyor belt fully passes the cooling channels. All the components, which can contact with confectionary, are produced from stainless steel.



## Belt conveyors



4.04 Telescopic belt conveyor



A



B

Telescopic belt conveyor with adjustable length of transporting element designed for loading/unloading of unit loads (bags, tare, boxes etc). Conveyor is able to work at any boom position.

Belt conveyors are designed for transporting of unit loads and loose products.

Conveyors' configurations: straight, incline, reverse, suspended, etc.

Conveyor's supports are height-adjustable. Material — stainless steel or ferrous metal with polymer coating. Material, width of the belt and the length of conveyor depends on the type of transported product and customer's requirements.



## Chain conveyors



4.05 Chain conveyors

Chain conveyors are designed for transporting, accumulation of unit loads, glass or PET containers. Conveyors are manufactured in various types: straight, rotary, incline, single-line or multirow.

The chain and conveyor's framework material depends on the type of transported product.





4.06 Vertical trolley conveyor

Vertical trolley conveyor is designed to transfer of packed products (boxes, bags, sacks etc.) up and down (from floor to floor). Carrying elements are the roller chain and transmitting trolleys. Loading/unloading of trolleys is performed by special programme in controller. Dimensions and design of this conveyor depends from the customers requirements.



## Conveyors for product transporting up/down



4.07 Vertical side flexing gripper conveyor



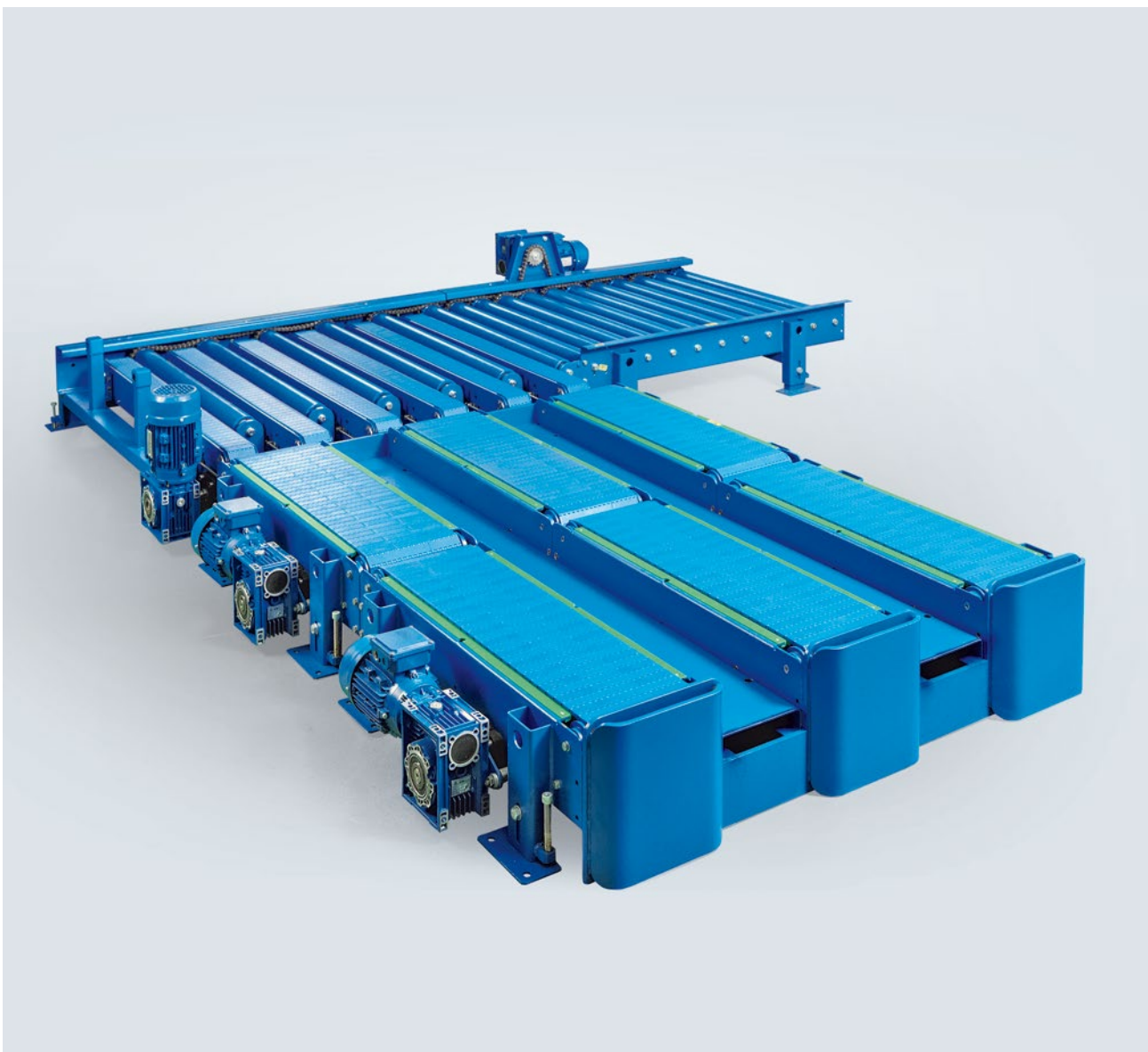
## Roller conveyors



4.08 Roller conveyor for pallet's raising and descending

Roller conveyors are used for unit loads transporting (boxes, bags, sacks, pallets etc.)





4.09 Roller conveyor with possibility of changing transmission direction with angle of 90 degrees.





4.10 Roller conveyor with devices for stopping products in the predetermined position.





4.11

Spiral conveyor

Spiral conveyors are designed for using in cooling tunnels in bakery and confectionary industries.

The height and width of spiral's pitch of conveyor is calculated according to the customers requirements. Conveyors are supplied with speed control with aim of regulating the time of products' staying in chamber.

The automatic belt washing device is an additional option.

The certain advantage of such spiral conveyors is high productivity and small floor space.

The vertical structure of the spiral conveyor is more profitable than a few units of linear type with the same power and productivity.





4.12 Conveyor for metal detector

The conveyor is made for the metal detectors installation.  
The carrying element is a polyurethane or modular belt.  
Frame is from stainless steel.  
Automatic defect tracking system is an additional option.





4.13 Pneumatic conveyor (air).



Pneumatic conveyor is designed for transporting of empty PET bottles which move due to air flow that is provided by high pressure fans.









The details and components of constructions of units and sets which presented in the catalogue may differ.  
The manufacturer reserves the right to add the changes into constuctions without notice.





Yaroslava Mudrogo street, 66/13  
Bila Tserkva, Kyiv region,  
Ukraine, 09107  
tel./fax: +38 0456 39 29 53, 39 29 52  
e-mail: [market@termo-pak.ua](mailto:market@termo-pak.ua)  
[www.tp-eu.com](http://www.tp-eu.com)