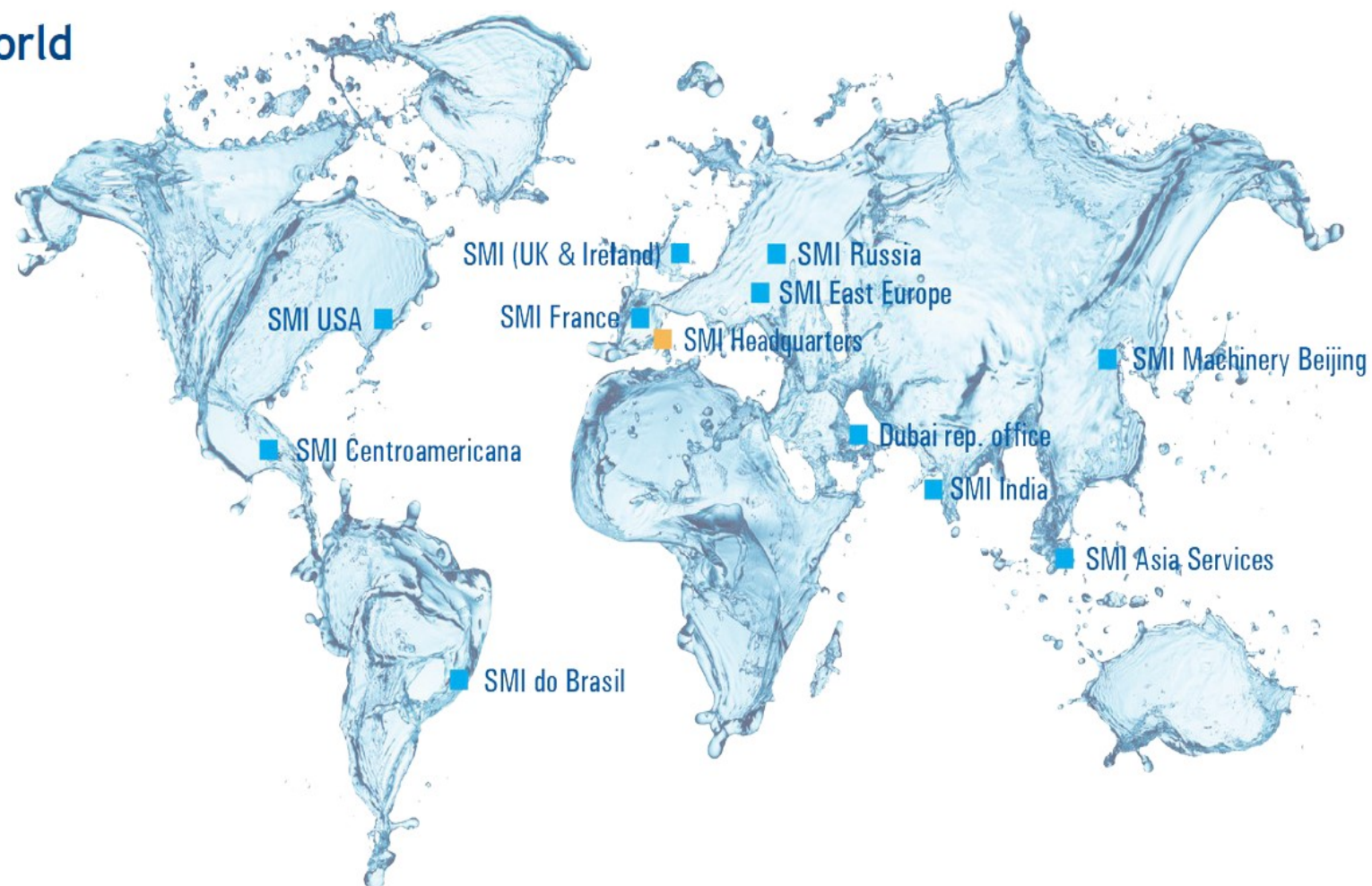




IZBA 2025

The SMI Group in the world



Manufacturing sites

- ✦ Since 1987, manufacturing plants and offices have increased from 1,000 m² to **105,755 m²** (of which 6,080 m² in foreign branches)
- ✦ The whole production is based in Italy, while the SMI Group's foreign network of branches provides sales and after-sales service, as well as spare parts
- ✦ The production plants are equipped with state-of-the-art technology in the field of energy saving and renewable sources



SMI production range: complete lines

SMI designs, manufactures and installs complete lines for bottling flat and carbonated products in PET/rPET/PP containers from 0.10 to 10 L, with outputs from 3,600 to 50,000 bottles/hour. The line can be designed both in traditional configuration, with accumulation conveyors from one machine to another, or in compact version with “combi” solutions to ensure cost reduction and energy saving

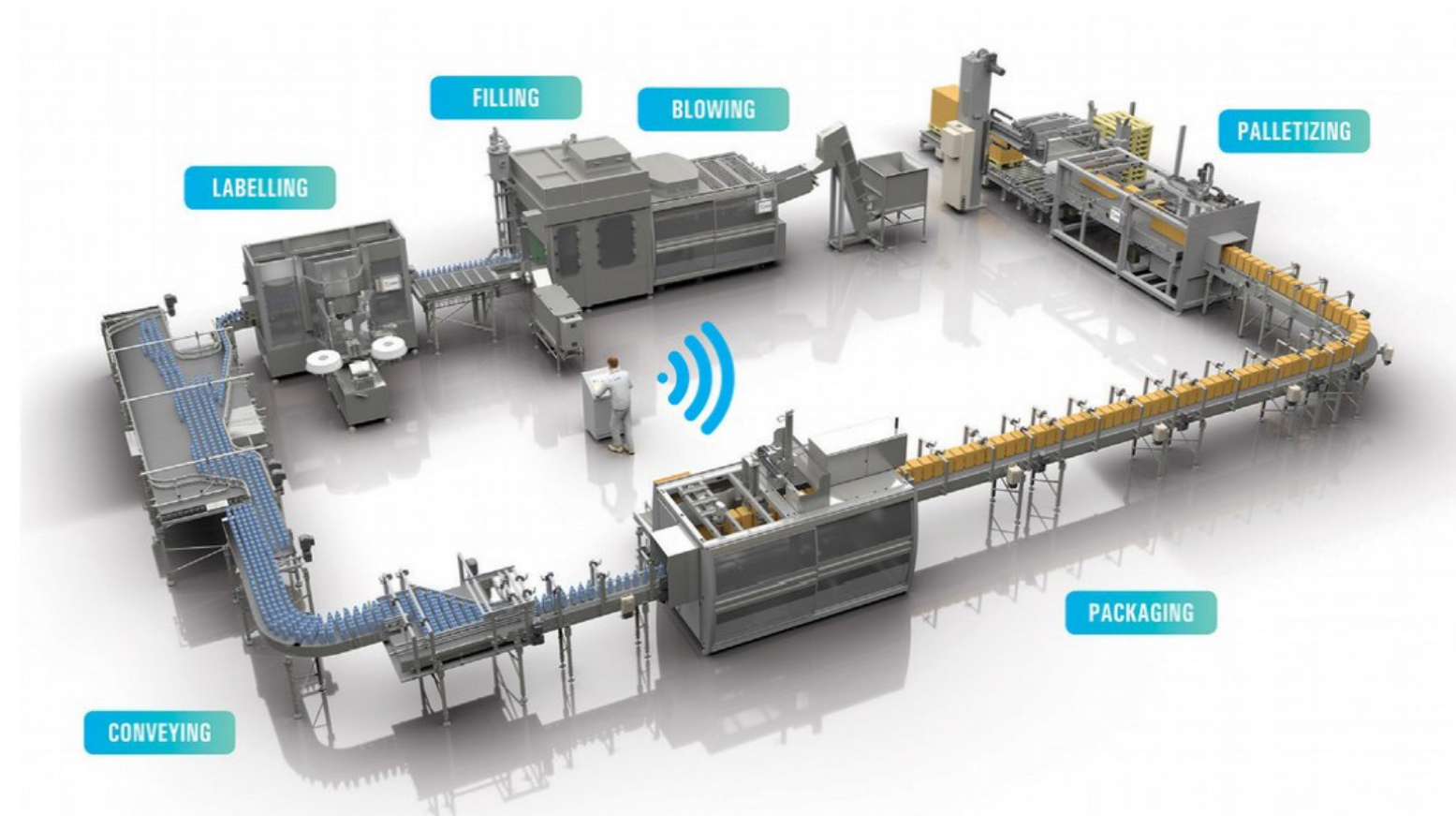


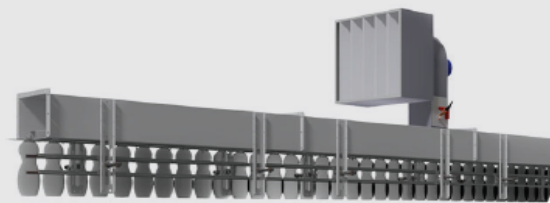
TABLE TOP CONVEYORS SYSTEMS



DESCRIPTION

Bieffe Co designs and manufactures chain conveyors for bulk or packaged products, according to the requirements of the plant, product specifications and specific Customer's needs. The efficiency and reliability of our systems are guaranteed thanks to a detailed study of the production requirements and due to a constant implementation through decades of experience in the field. Extremely solid, they easily adapt to any conditions of use and to any environment, they are also built in complete compliance with the strictest hygienic and washing regulations.

AIR CONVEYORS



DESCRIPTION

The "BLOWIND" transport system is suitable for handling empty PET containers, due to its simplicity, high efficiency and unique functionality that eliminates the possibility of sticking due to the known instability of the containers themselves. Indispensable for high-speed lines, they are used to connect the various operating machines handling the empty container (unscrambler/blower - filling machine). The "BLOWIND" support the containers via a neck guide, pushing them through an aeration system generated by the ventilation units equipped with an air filtering system. The particular shape of the conveyors thus exploits the flow generated by the air to move the products in a quiet and uniform way. Laterally, the "BLOWIND" system is completed by body guides that, on request, can be equipped with pneumatic actuators to permit a quick and precise change of position, perfectly adapting to the various production formats.

ADVANTAGES

- Highly adaptable;
- Modular construction of all components;
- Reduced wear and maintenance times;
- Possible development on multiple levels;
- Reduced overall dimensions.

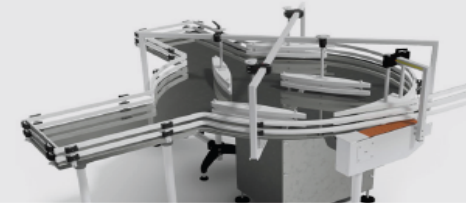
OPTIONAL

- Automatic pneumatic adjustment of the side rails for multiple bottle formats;
- Automatic pneumatic adjustment of neck rails for multiple formats;
- HEPA filters.

TECHNICAL SPECIFICATIONS

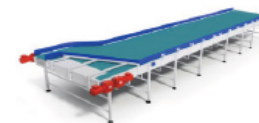
- Structure in stainless steel: AISI 304;
- Guide neck in UHMW material, with steel reinforcement;
- Possibility of manual and/or automatic management of the entire plant;
- Pneumatic bottle stoppage;
- Automatic pneumatic bottle expulsion;
- Tilting elements useful for height adjustment;
- Automatic partitions with 2 or more directions;
- Different types of supports for fixing to the ground, wall or ceiling.

ACCUMULATION SYSTEMS



DESCRIPTION

Bieffe Co designs and manufactures a wide range of accumulation systems, in accordance with the requirements of the plant, in relation to the product to be handled and following the specifications requested by the customer.



Accumulation systems come in a range of types:

- Bidirectional;
- Dynamic;
- Decompression;
- FIFO.

ROTARY TABLES

Bieffe Co produces rotary tables for both in-line and product accumulation, dimensioned and realised on the basis of specific customer requests, the type of products and the dynamics connected to the plant.



FOOD CONVEYORS SYSTEMS



DESCRIPTION

Bieffe Co designs and manufactures modular network transport for bulk or packaged products, according to the requirements of the plant, in relation to the product and the specifications requested by the customer. The efficiency and reliability of our systems are guaranteed thanks to a detailed study of the production needs and due to a practical implementation deriving from decades of experience in the sector. Extremely solid, they easily adapt to any conditions of use and to any environment. Construction is possible in complete compliance with the strictest hygiene regulations and washing needs.

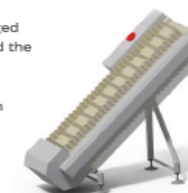




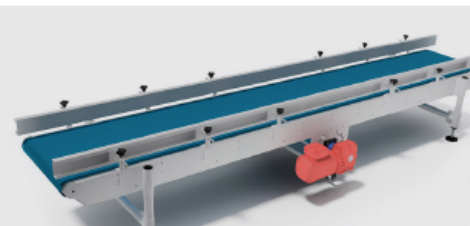
TABLE TOP CONVEYORS SYSTEMS



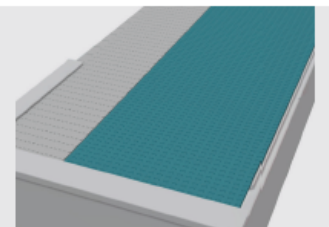
DESCRIPTION

Bieffe Co designs and manufactures chain conveyors for bulk or packaged products, according to the requirements of the plant, product specifications and specific Customer's needs. The efficiency and reliability of our systems are guaranteed thanks to a detailed study of the production requirements and due to a constant implementation through decades of experience in the field. Extremely solid, they easily adapt to any conditions of use and to any environment, they are also built in complete compliance with the strictest hygienic and washing regulations.

BELT CONVEYORS



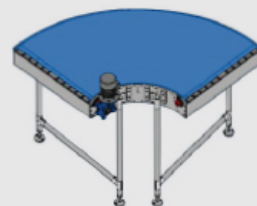
MODULAR BELT CONVEYORS



DESCRIPTION

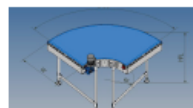
Bieffe Co designs and manufactures belt and roller conveyors for bulk or packaged products, according to the requirements of the plant, in relation to the product and the specifications requested by the client. The efficiency and reliability of our systems are guaranteed thanks to a detailed study of the production needs and due to a practical implementation deriving from decades of experience in the sector. Extremely solid, they easily adapt to any conditions of use and to any environment. Construction is possible in complete compliance with the strictest hygiene regulations and washing needs.

CURVE CONVEYOR MBC



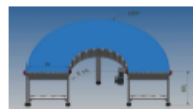
CURVE CONVEYOR 90°

BELT WIDTH W = 200-400-600-800-1000-1200-1400-1600
INTERNAL RADIUS R int. = 600-800-1000-1200-1400-1600-1800-2000



CURVE CONVEYOR 180°

BELT WIDTH W = 200-400-600-800-1000-1200-1400-1600
INTERNAL RADIUS R int. = 600-800-1000-1200-1400-1600-1800-2000



MBC-MT ACTIVE TRANSFER MODULES

In case the products to be transferred are relatively small or the conveyors to be connected to the MBC curves have a very wide rolling, a transfer module can be inserted in between as well as at the exit or at the entrance. The input module is independently motorized while the output module can be moved by a transmission.

ROLLERS CONVEYORS



DESCRIPTION

Bieffe Co designs and constructs motorised and idle roller conveyors for transporting cartons, boxes and bundles. Made with a stainless steel or galvanised steel (upon specific request) structure, the rollers conveyors integrate the production line, acting as a connection/accumulation system between the various machines towards the end of the line. Bieffe Co's production is distinguished by great versatility and adaptability, with all of our roller conveyor products able to be customised according to the specific requests of the client.

SMI production range: blowing, filling and capping - ECOBLOC® ERGON series

- Stretch blow-molding, filling and capping integrated systems for PET/rPET/PP containers **up to 10 L**
- Output **up to 50,000 bottles per hour**
- Products: **flat/carbonated water, soft drinks, milk and oil**
- **Double option:**
blow-molder combined with filler; this latter's motorization can be in the upper or lower part of the machine according to customer's needs
- Ideal for bottling flat and carbonated liquids





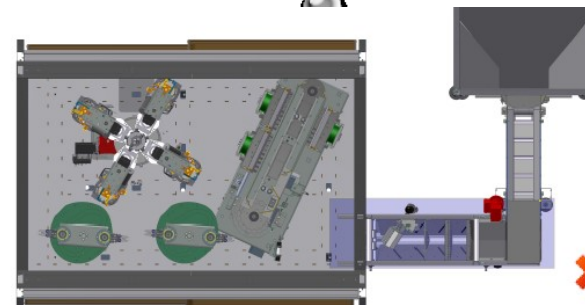
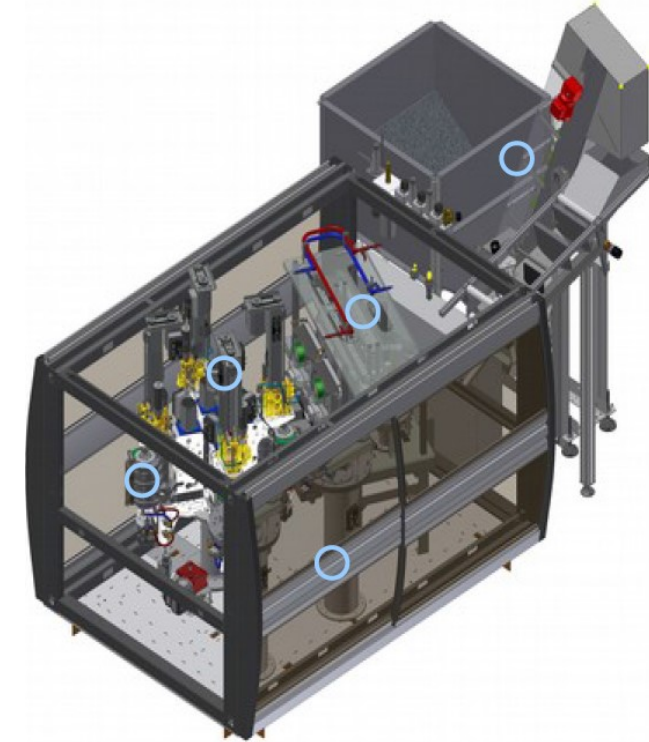
SMI production range: blowing - EBS ERGON series

- ◆ 11 models for containers from 0.10 to 3 litres with outputs from 5,000 to 50,000 bottles/hour
- ◆ 3 models for containers from 3+ to 10 litres with outputs from 3,600 to 7,200 bottles/hour
- ◆ New compact and integrated horizontal tunnel: **volume 50%-reduction** as compared to traditional solutions with the same performances
- ◆ Highly reflective panels made from ceramic material **to boost IR lamps efficiency**
- ◆ Optimized, high-pressure valves: **50%-reduction of dead volume**
- ◆ **Electronic stretch rods**, driven by a brushless motor
- ◆ Optimized mold closure
- ◆ **Air Master** system for HP compressed air recovery (up to 40% saving compared to machines not equipped with this system)





NEW EBS 4K



SMI production range: packaging

➔ Shrink wrappers, with/without pad or tray:

- ➔ **LSK ERGON series:** up to 40 ppm (40+40 ppm - double lane)
- ➔ **CSK ERGON series:** up to 50 ppm (50+50 ppm - double lane)
- ➔ **SK ERGON series:** up to 150 ppm (150+150 ppm - double lane)
- ➔ **ASW ERGON series:** up to 150 introductions/minute (90-degree infeed)



SMI production range: packaging

- Wrap-around casepackers (boxes and trays):
 - ➔ LWP ERGON series: up to 30 ppm
 - ➔ CWP ERGON series: up to 40 ppm
 - ➔ WP ERGON series: up to 80 ppm
 - ➔ ACW ERGON series: up to 150 introductions/minute (90-degree infeed)

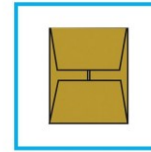


SMI production range: packaging

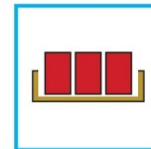
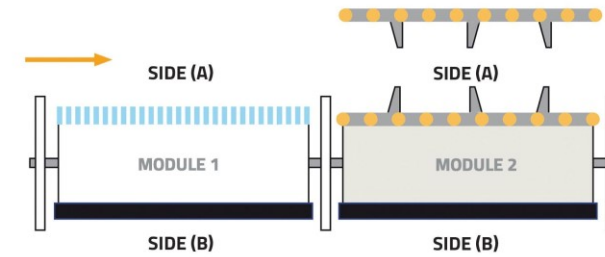
➤ Combined packers (shrink wrapper + wrap-around casepacker):

- **LCM ERGON series:** up to 40 ppm
- **CM ERGON series:** up to 80 ppm
- **AFCW ERGON series:** up to 150 introductions/minute
(90-degree infeed)

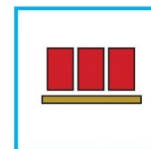
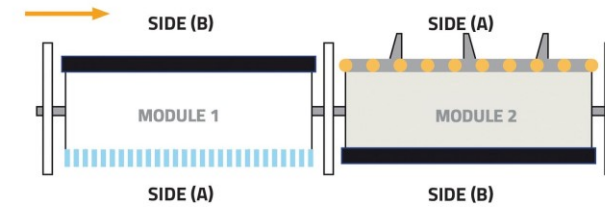




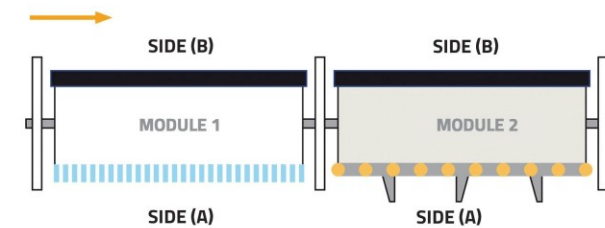
WRAP-AROUND
CASE



TRAY ONLY
TRAY+FILM



FILM ONLY
PAD+FILM



SMI production range: packaging

◆ Shrink wrappers, with/without pad or tray:

- LSK ERGON series: up to 40 ppm (40+40 ppm - double lane)
- CSK ERGON series: up to 50 ppm (50+50 ppm - double lane)
- SK ERGON series: up to 150 ppm (150+150 ppm - double lane)
- ASW ERGON series: up to 150 introductions/minute (90-degree infeed)



SMI production range: packaging

➤ Wrap-around casepackers (boxes and trays):

- LWP ERGON series: up to 30 ppm
- CWP ERGON series: up to 40 ppm
- WP ERGON series: up to 80 ppm
- ACW ERGON series: up to 150 introductions/minute
(90-degree infeed)





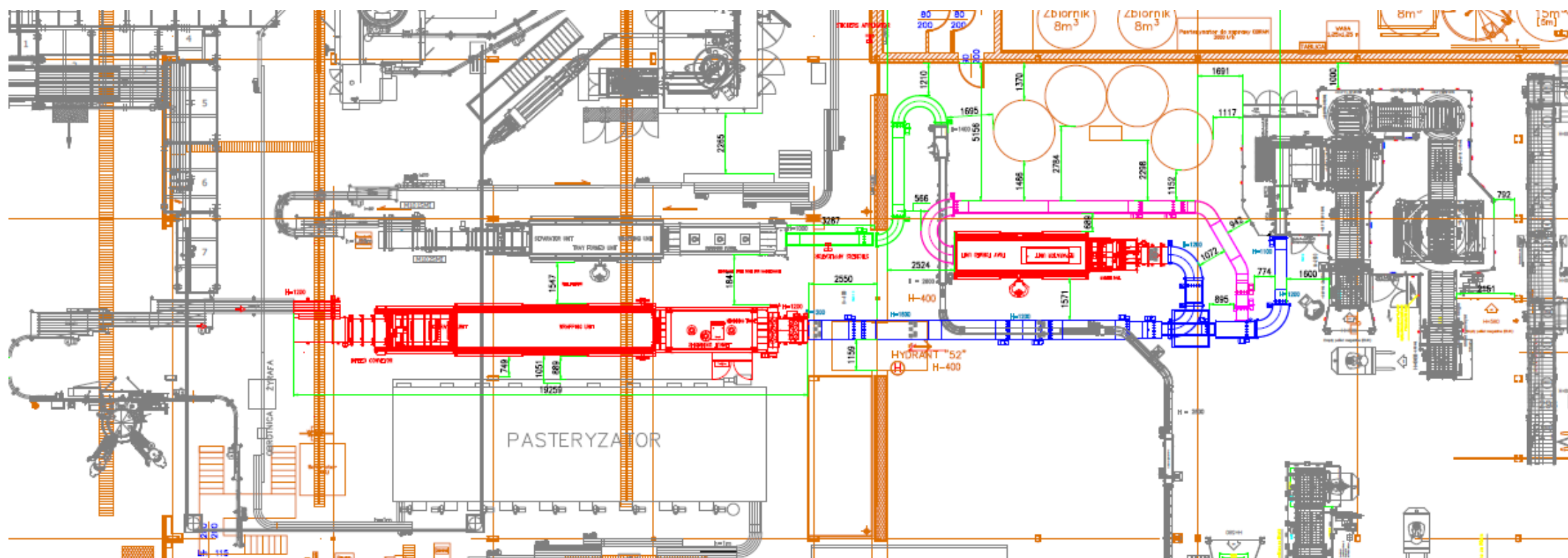


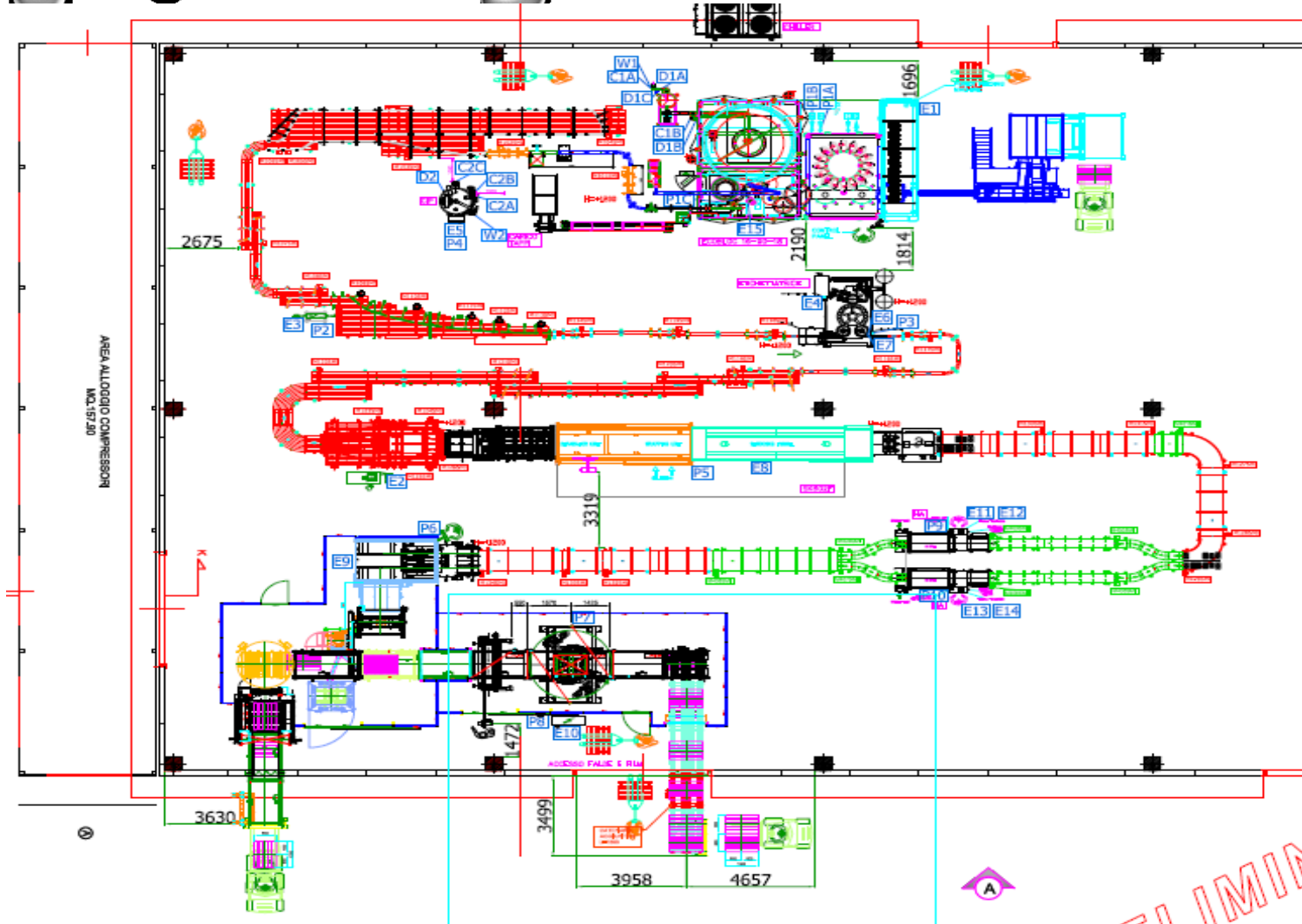












Products

Filling Machines

Rinsing
Filling
Capping

- Filling into different types of containers (bottles, cans, PET...) on the same machine
- Filling of different products on the same machine
- Option of filling in ultra-clean or aseptic versions
- Capping with different types of caps on one or more capping heads

Process Equipment

Flash Pasteuriser
Mixer/carbonator
CIP System

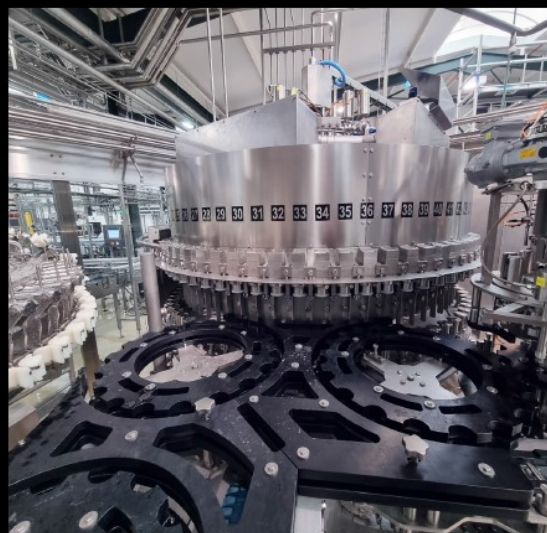
Conveyors



References

1 MONOBLOCK FILLER

Filling medium: beer
Packaging type: glass bottle/can
Capacity: max 24.000/h
Rinsing: two-channel rinsing
Volumetric filling



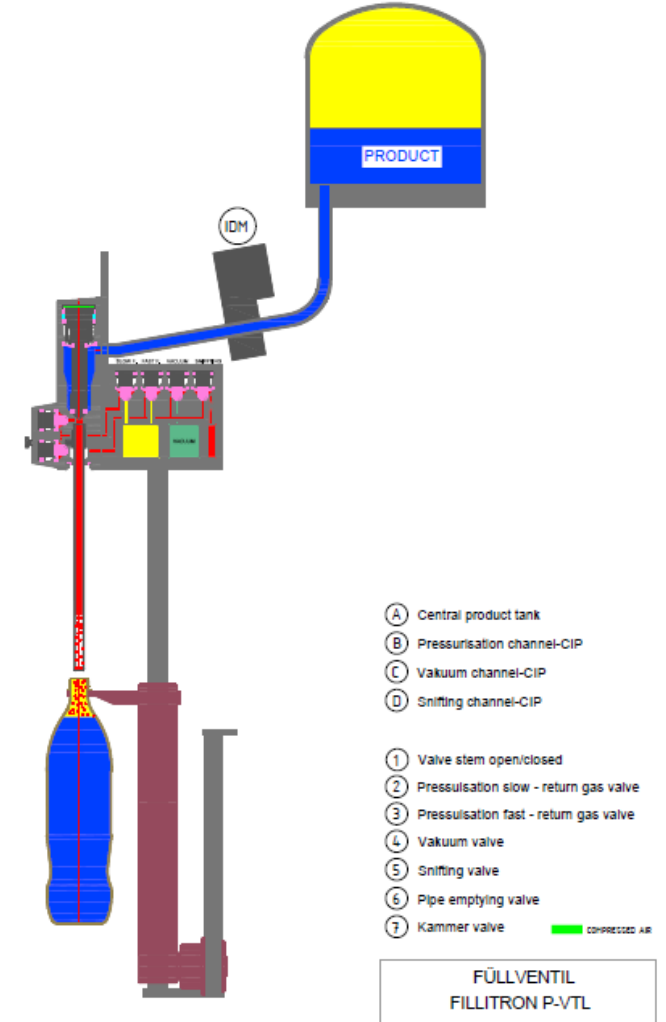
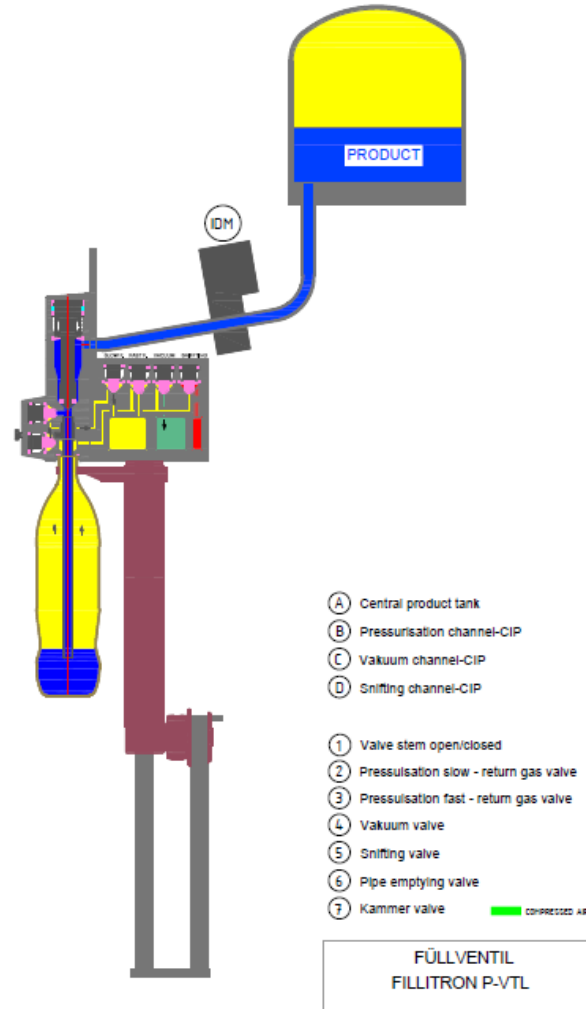
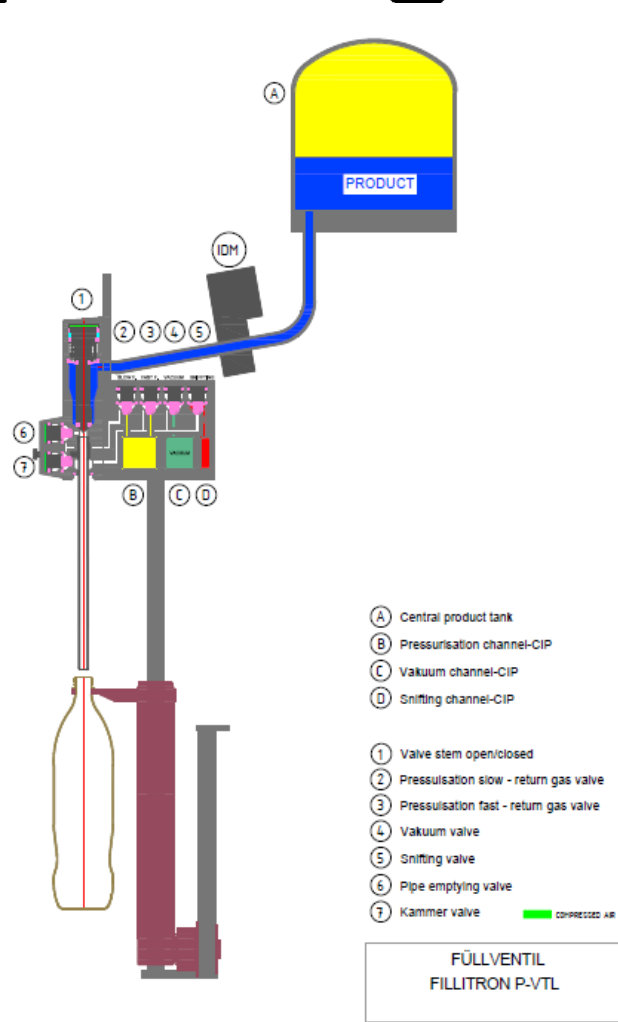
2 MONOBLOCK FILLER, FLASH PASTEURISER, MIXER, CIP SYSTEM AND CONVEYORS

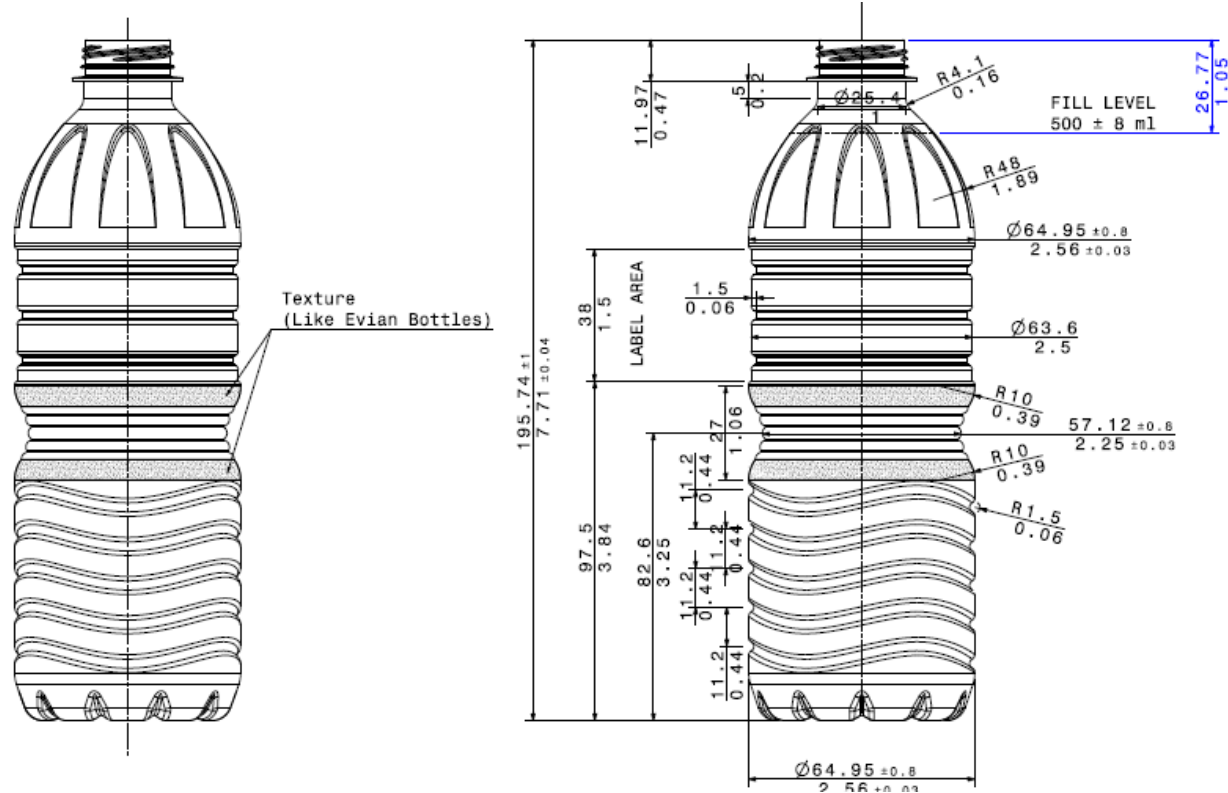
Filling medium: water, carbonated and noncarbonated soft drinks, fruit juices, cocktails
Packaging type: glass bottle/can
Capacity: max 8.000/h
Rinsing: two-channel rinsing
Filling:

- Ultraclean Filling & Hot Filling
- Two separate fillers
- Volumetric filling

Capping: crown cap/screw cap/can lid

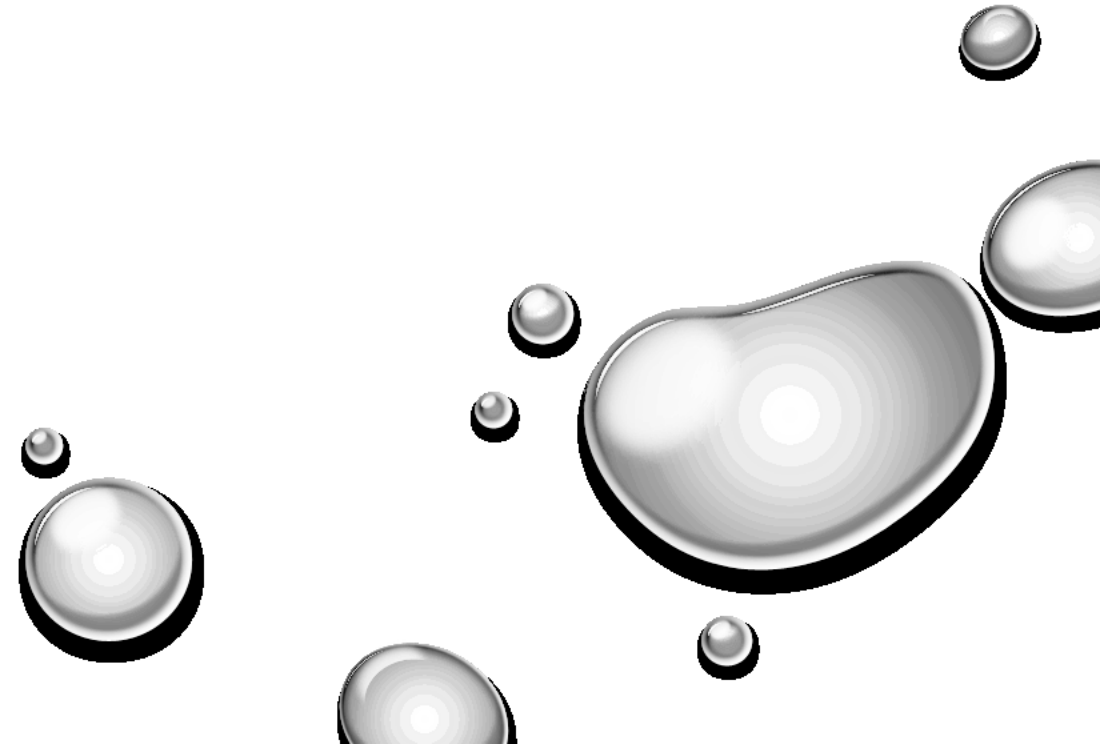
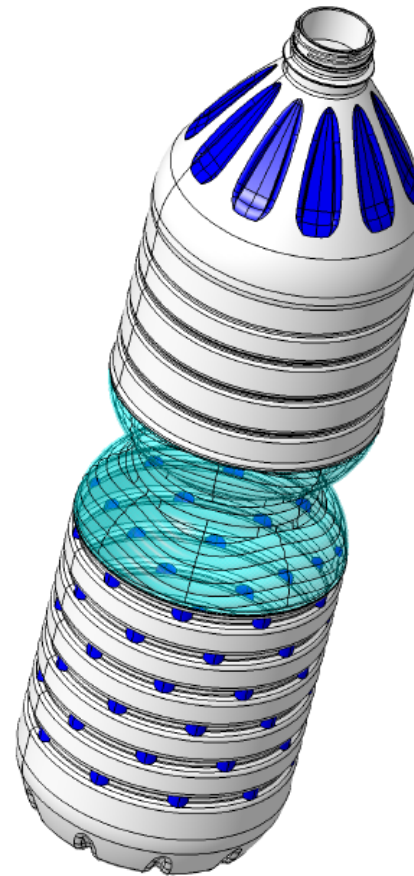
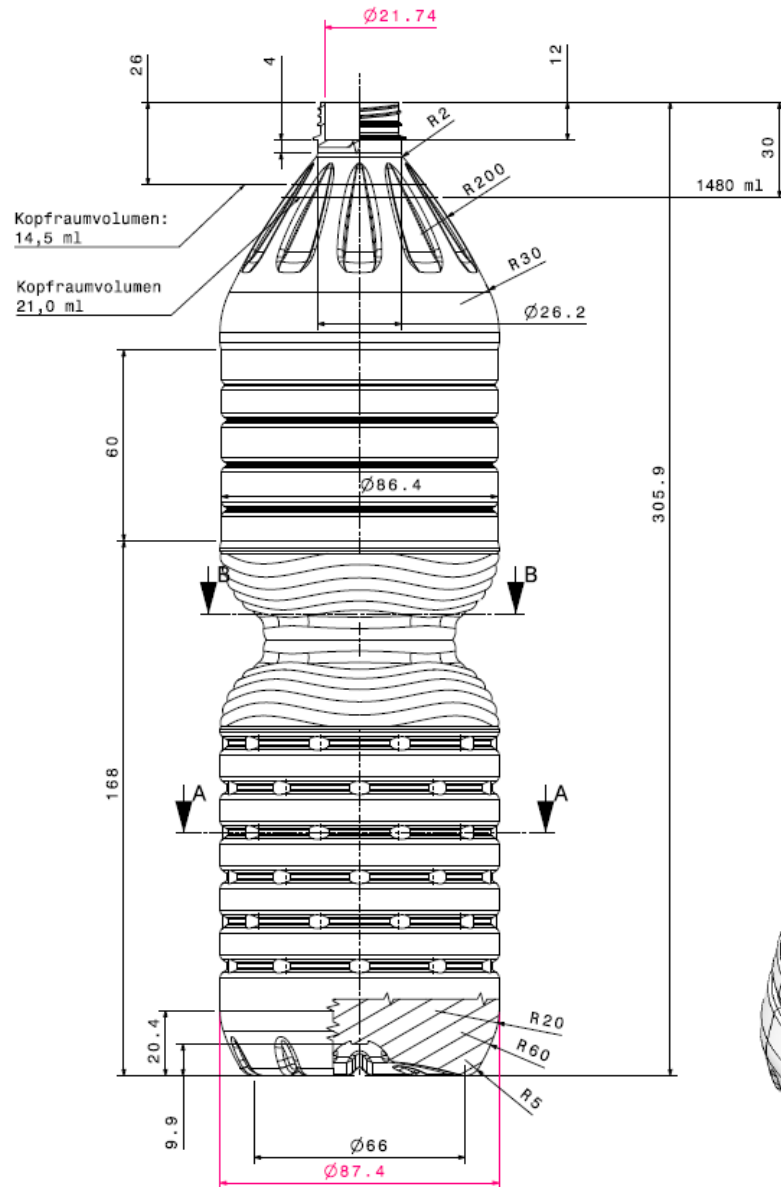






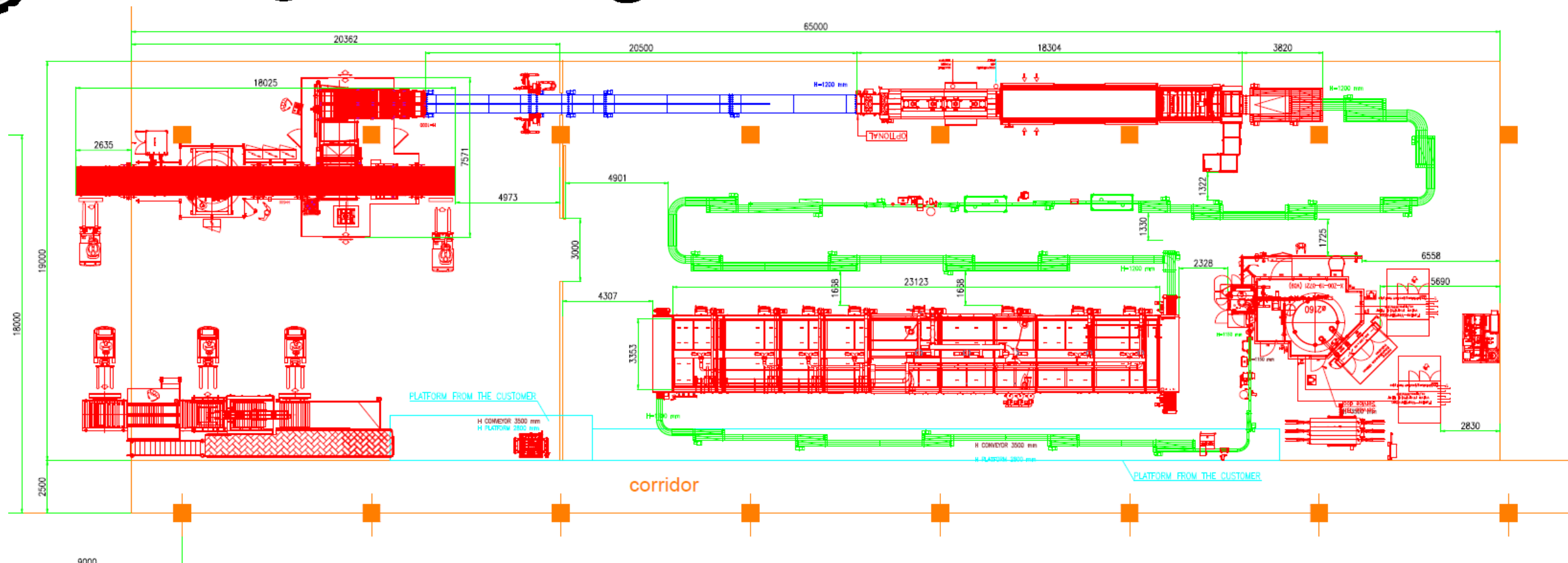
C, 2C, ... 37C













Thank you
for your
attention!

www.smigroup.it

