TRAY SEALER

Uncompromised variety for packaging in trays.

WEBOMATIC

BUILDING TRUST SINCE 1958
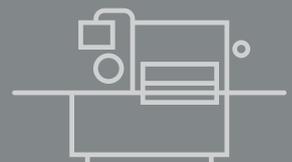
For trade, craft and industry.

Although today **WEBOMATIC** is a multinational family business, we have not forgotten our roots and traditions. Since 1958 **WEBOMATIC** is the ideal partner for small, medium and industrial sized companies.

Whether you want to pack food products (e.g., fresh and processed meat, dairy products, convenience meals, fresh or pickled vegetables, pasta, fish, frozen foods, etc.) or non-food products (e.g., sterile pharma goods or cosmetics), **WEBOMATIC** offers a wide range of tray sealers to pack your product in sealable, ready-made trays.

Our portfolio ranges from semi-automatic entry tray sealers for smaller packaging quantities to fully automated tray sealer concepts for industrial capacities.

The most significant benefit of utilizing tray sealers is the adaptability of different tray or product sizes with minimal downtime and effort. **WEBOMATIC** tray sealers are continuously adjusted to worldwide packaging trends and can process all available sealable tray and film materials. **WEBOMATIC** tray sealing machines convince through their high flexibility to fit individual needs.

Unsure how much automatization is required for your production style or is needed in the beginning? Thanks to our craftsmanship and engineering industry, we offer retrofit or step-by-step automatization to meet the packaging volume to current or future requirements.

WEBOMATIC ®

TRAY SEALERS

Available range

Tray Sealers

	TL 250	TL 300	TL 550	TL 650	TL 750	TL 1150
Area of Use	Food, Non-Food	Food, Non-Food	Food, Non-Food	Food, Non-Food	Food, Non-Food	Food, Non-Food
Tray size	●●○○○○	●●○○○○	●●●○○○	●●●●○○	●●●●●○	●●●●●●
Output	●●○○○○	●○○○○○	●●●○○○	●●●●○○	●●●●○○	●●●●●●
Cycles/min up to *	7	4-5 (for skin)	16	16	17	18
Degree of customization	●●○○○○	●●○○○○	●●●●○○	●●●●●○	●●●●●●	●●●●●●
Duo-Version	—	—	●	●	●	●
WEBOMATIC Servo-drive technology (SDT)	—	—	Optional	Optional	●	●
WEBOMATIC Single Cavity Control (SCC)	—	—	Optional	Optional	Optional	Optional
WEBOMATIC CleanDesign®	●	●	●	●	●	●
WEBOMATIC Twin-use	—	—	Optional	Optional	Optional	Optional
Pseudo-skin	—	●	●	●	●	●
Protrude-skin	—	—	●	●	●	●
MAP prepared	●	●	●	●	●	●

● STANDARD EQUIPMENT   — NOT AVAILABLE   * DEPENDING ON PRODUCT AND APPLICATION

Semi-Automatic
Tray Sealers

Prior to packaging

The pre-made trays can be filled before or after they are placed in the die set. Choose the desired packaging parameters or select one of the pre-defined programs.

Starting the packaging process

The packaging process starts by manually pushing the drawer into the tray sealer. Evacuation, gas flushing, sealing and cutting take place automatically according to the packaging parameters that were selected.

Finishing the packaging process

After the packaging process is complete, the drawer is opened automatically, and the finished packagings are lifted within the die set for easy removal.

Semi-automatic tray sealers
TL 250 & TL 300

The small semi-automatic tray sealers are the ideal solution for an inexpensive and professional vacuum packaging with trays and combine ease of use with reliability. They are ideally suited as an entry machine into tray packaging for smaller businesses or as an addition in larger productions or laboratories to cover samplings and new product launches.

After placing the filled trays and closing the vacuum chamber, all processes are fully automated: **evacuation, adding modified atmosphere (MAP) or skin-application (TL 300-skin only), sealing and precise cutting of the trays.**

With their compact external dimensions, both tray sealers require only a tiny footprint and can easily be placed in corners.

The closed front of the tray sealers protects film and die set behind the door (no dust, no dirt, no contamination) and additionally allow for a smooth, thorough all-around cleaning. These compact machines can process all sealable, pre-fabricated trays (e.g. cardboard,plastic, renewable materials, aluminium).

The specially extended chamber allows for a variety of tray formats and tray arrangements – up to the size of ½ standard euro boxes and ½ standard gastronorm (½ GN) containers (max. tray size 400 x 300 x 120 mm).

To save even more time, the high level of serviceability ensures that the sealing die-sets and formats can be changed quickly and easily without any additional tools.

Every time an arrangement is to be swapped, a guided step-by-step manual can be selected on the screen to ensure that every change is done correctly and efficiently. Additionally, the film changing is completed in mere seconds with the easy-to-remove bolt.

TL 250

Semi-automatic tray sealer

semi-automatic operation

craft and trade, laboratory, retail, HoReCa, product development/ R&D

ideal for small to medium quantities

the packaging of food, e.g., antipasti, crèmes, fish and seafood, fresh and processed meat or cheese, convenience food, fresh and pickled vegetables or fruits, truffles

sealing, vacuum, MAP

optimally suited for confined places

automatic film transport and film rewinding

film change easily from the front

secured working area (contamination free sealing process)

guided die set change on the touch screen of PLC control unit

easy internal and external cleaning thanks to WEBOMATIC CleanDesign®

maintenance and service friendly

OPERATIONAL MODE

Top film width:
max. 350 mm

Cooling water:
not necessary

Cycle capacity:
up to 7 cycles/min.
depending on product
and application

Tray dimensions:
max. 400 x 300 x 120 mm
Ø 300 x 120 mm

WEBOMATIC

Vacuum pumps, for 50 Hz:
63 m³/h
(other capacities, voltages and
frequencies upon request)

Vacuum
by Busch

Weight:
approx. 350 kg

Machine dimensions:
800 x 800 x 1.710 mm
(W x D x H)

TL 300

Semi-automatic tray sealer

semi-automatic operation

craft and trade, laboratory, retail, HoReCa, product development/ R&D

ideal for small to medium quantities

the packaging of food, e.g., antipasti, crèmes, fish and seafood, fresh and processed meat or cheese, convenience food, fresh and pickled vegetables or fruits, truffles

sealing, vacuum, MAP

skin application: Pseudo-skin

optimally suited for confined places

automatic film transport and film rewinding

film change easily from the front

secured working area (contamination free sealing process)

easy internal and external cleaning thanks to WEBOMATIC CleanDesign®

maintenance and service friendly

OPERATIONAL MODE

Top film width:
max. 350 mm

Cooling water:
not necessary

Cycle capacity:
4 - 5 cycles/min.
for skin
application

Tray dimensions:
max. 400 x 300 x 120 mm
Ø 300 x 120 mm

Vacuum pumps, for 50 Hz:
100 m³/h
(other capacities, voltages and
frequencies upon request)

Vacuum
by Busch

Weight:
approx. 375 kg

Machine dimensions:
995 x 795 x 1.600 mm
(W x D x H)

WEBOMATIC
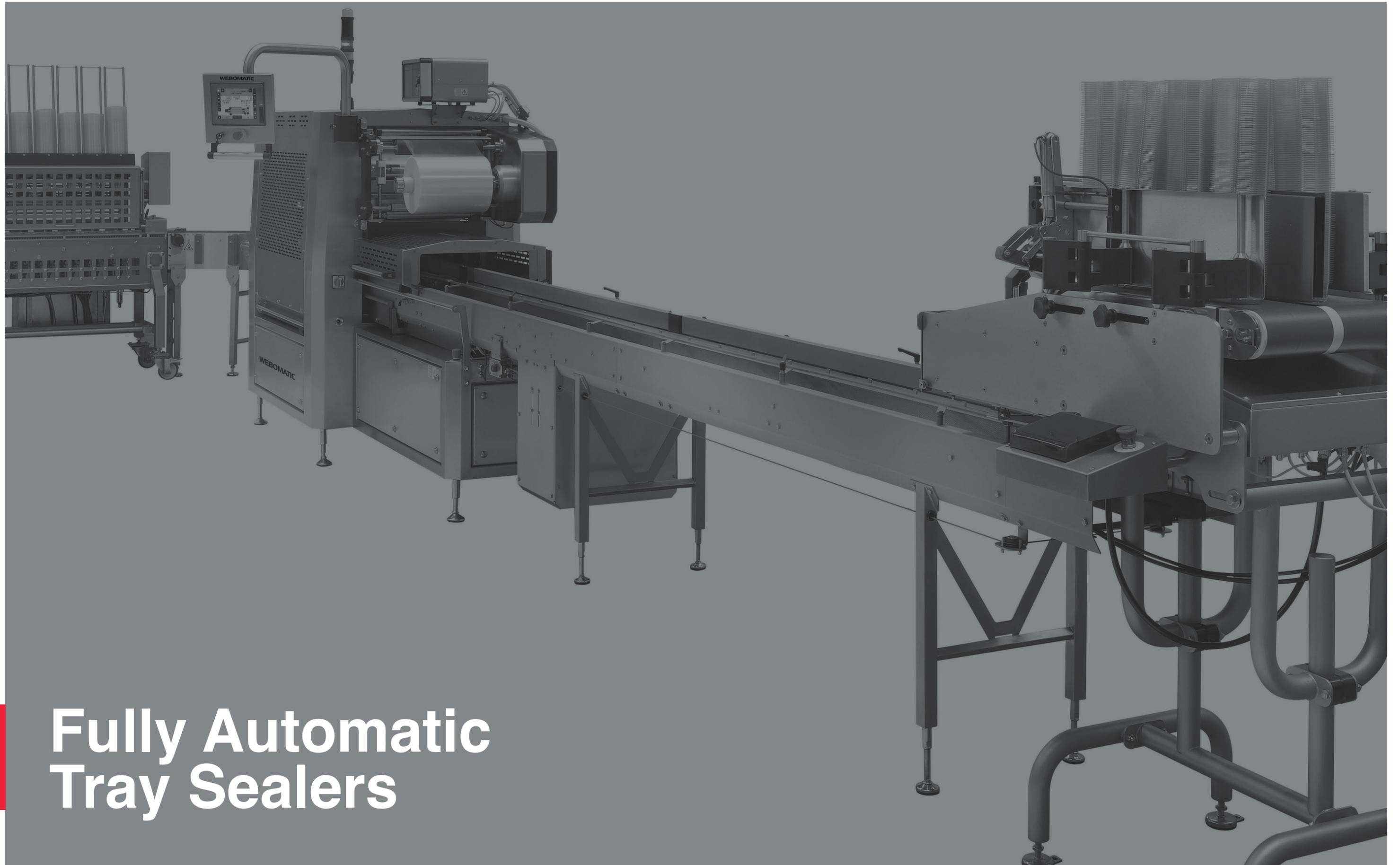
Fully Automatic
Tray Sealers

Flexibility to the core:

Our fully automatic tray sealers offer all-around flexible solutions, whether as a stand-alone version or up to a whole automated and (almost) operator-free packaging line. Depending on the tray size, product requirements, and the tray sealer version (mono or duo), WEBOMATIC tray sealers can work up to 18 cycles/min.

The technical standards surpass comparable machine types: equipped with servo controlled gripper arms and a knee lever system our standards set the benchmark for precise transportation of trays. The tray sealers can be conveniently integrated into any production process; for instance, the conveyor belts can be individually adapted to the grade of automatization if automated dosing or labeling systems are retrofitted and, whether long or short conveyor belts are required - the tray sealer can be easily upgraded over time.

Unsure how much automatization fits your production style or is needed in the beginning? Thanks to throrough planing and reliable craftsmanship, we are able to offer retrofit or step-by-step automatization to meet the packaging volume to current or future requirements.

Working principle:

The operator runs the tray sealer through an easy to use color touch screen with a graphical interface. The display shows operating data and status, packaging data as well as process information. This allows for higher production transparency and quality control ensure the reliability of machine and product. Moreover, a wide range of possibilities and adaptions for digitalization concepts like industry 4.0, Industrial Internet Consortium (IIC), industrial Value Chain Initiative (IVI) or smart factory, are technically feasible.
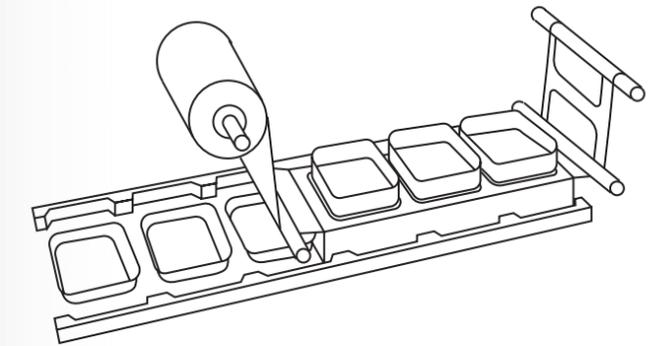
After the trays are placed manually or automatically onto the infeed belt, they are transported to the filling section and can be filled with the product by hand or by an automated action.

As a standard WEBOMATIC approach, the filled trays are carried into the sealing chamber via gripper arms. Depending on the product application, other transport variations are available. WEBOMATIC tray sealers feature multiple packaging techniques like simple sealing, atmosphere exchange (MAP) or the appealing skin packaging. At the end of the chosen packaging style, trays are hermetically sealed, cut and transferred to the discharge conveyor which carries them to further handling like weighing, direct printing or logistic packing.

Automatic or manual
denesting on conveyor

Filling or dosing
of trays

Top Film is unwound and:

● SEALED

● EVACUATED, MAP TREATED AND SEALED

● EVACUATED AND SEALED VIA SKIN

Packages are subsequently
separated, transported out of
the tray sealer and optionally
enhanced by metal detectors,
labelers, lid applicators, or
others.

Max. tray dimensions:
MONO: 520 x 325 x 120 mm
DUO: 520 x 150 x 120 mm

Film reel diameter:
max: ø 350 mm

Top film width:
max. 380 mm

Machine dimensions:
4.525 x 1.090 x 1.685 mm (W x D x H)

Cycle capacity:
Ø 11-16 cycles/min.
depending on product
and application
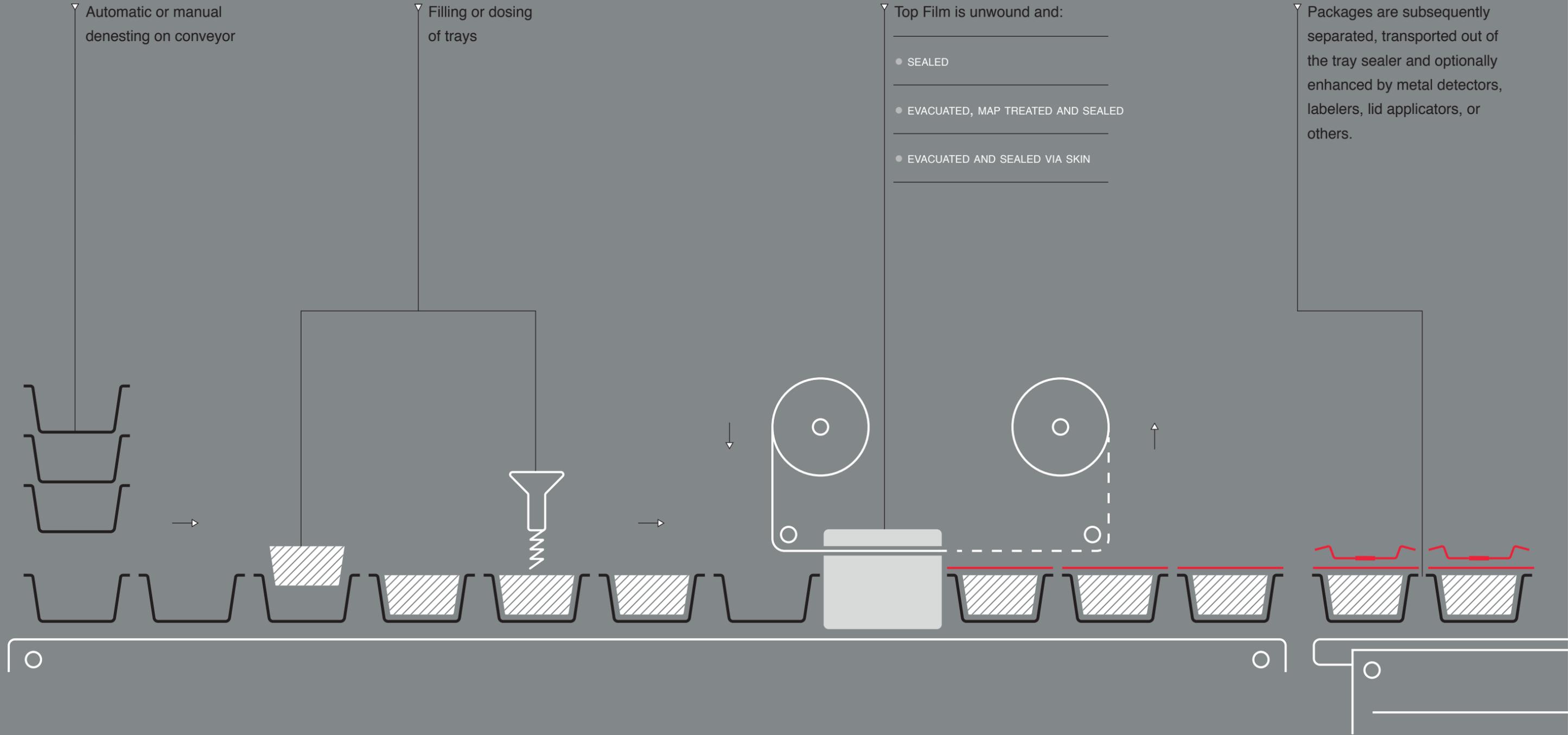
TL 550

Fully automatic tray sealer

To enter the world of fully automated tray sealing, the **TL 550** is a great start. Its compact external dimensions in combination with packaging efficiency and size predestine it for up to medium production capacities.

Standards: WEBOMATIC CleanDesign®, Fiber Optics, PLC control unit, servo-driven gripper arms
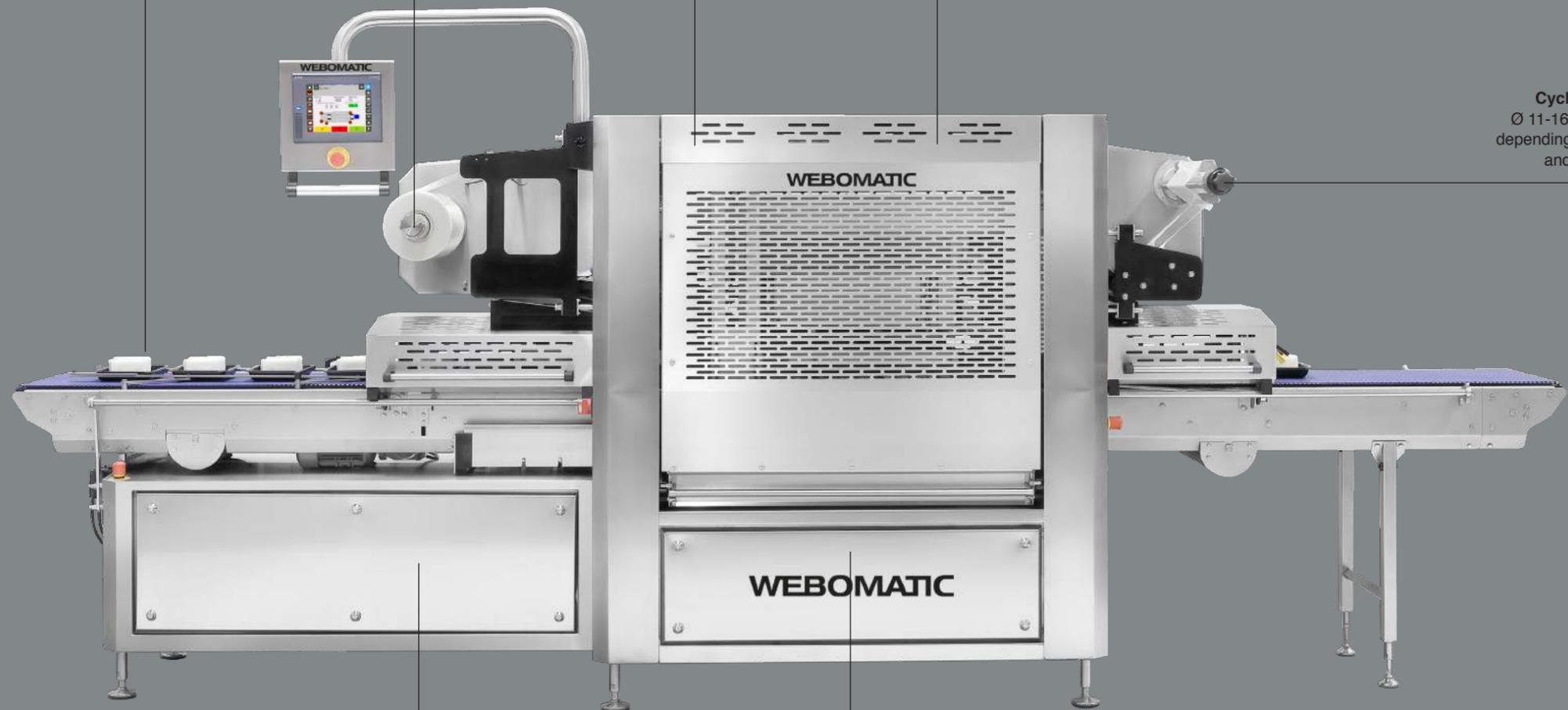
Weight:
approx. 1.700 kg

Vacuum pumps, for 50 Hz:
100, 140,160, 250, 300 m³/h
(other capacities, voltages and
frequencies upon request)

Vacuum
by Busch

Max. tray dimensions:
MONO: 590 x 325 x 120 mm
DUO: 590 x 150 x 120 mm

Film reel diameter:
max: ø 350 mm

Top film width:
max. 380 mm

Machine dimensions:
4.575 x 1.090 x 1.685 mm (W x D x H)

Cycle capacity:
Ø 12-16 cycles/min.
depending on product
and application

TL 650

Fully automatic tray sealer

The award-winning tray sealer
TL 650 sets the benchmark of
professional automated tray packaging
for ever increasing output requirements.
High efficiency, larger tray sizes,
and reliable output suit this machine
for most tasks of growing and
medium enterprises.

Standards: WEBOMATIC
CleanDesign®, Fiber Optics,
PLC control unit, servo-driven
gripper arms

Weight:
approx. 1.800 kg

Vacuum pumps, for 50 Hz:
100, 140, 160, 250, 300 m³/h
(other capacities, voltages and
frequencies upon request)

Vacuum
by Busch
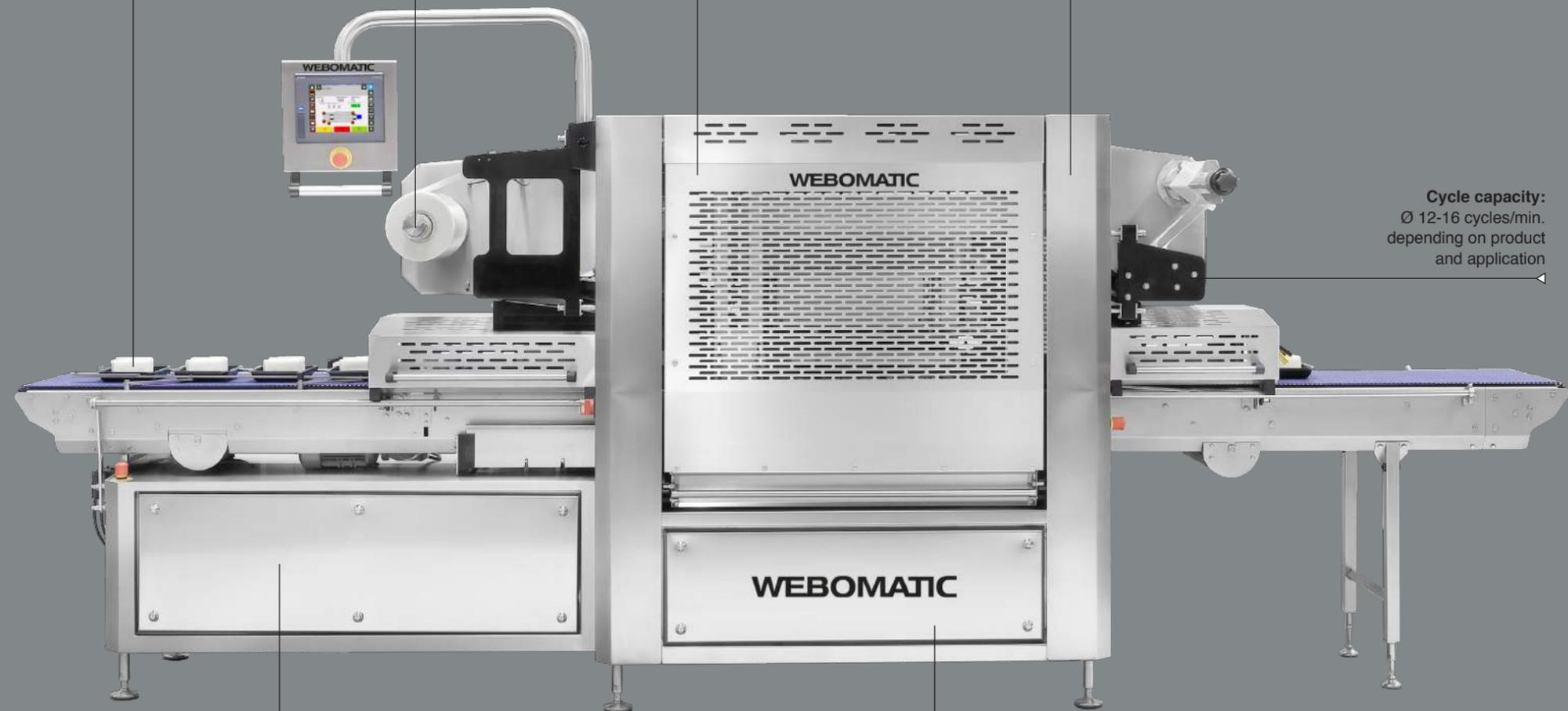
TL 750

Fully automatic tray sealer

The **TL 750** marks the entry into high-speed industrial tray sealing due to the perfect combination of innovation, design and performance. Additionally, a well-thought-out selection of features supports efficient production on an industrial level.

Standards: WEBOMATIC CleanDesign®, PLC control unit, WEBOMATIC SDT, Fiber Optics, servo-driven gripper arms
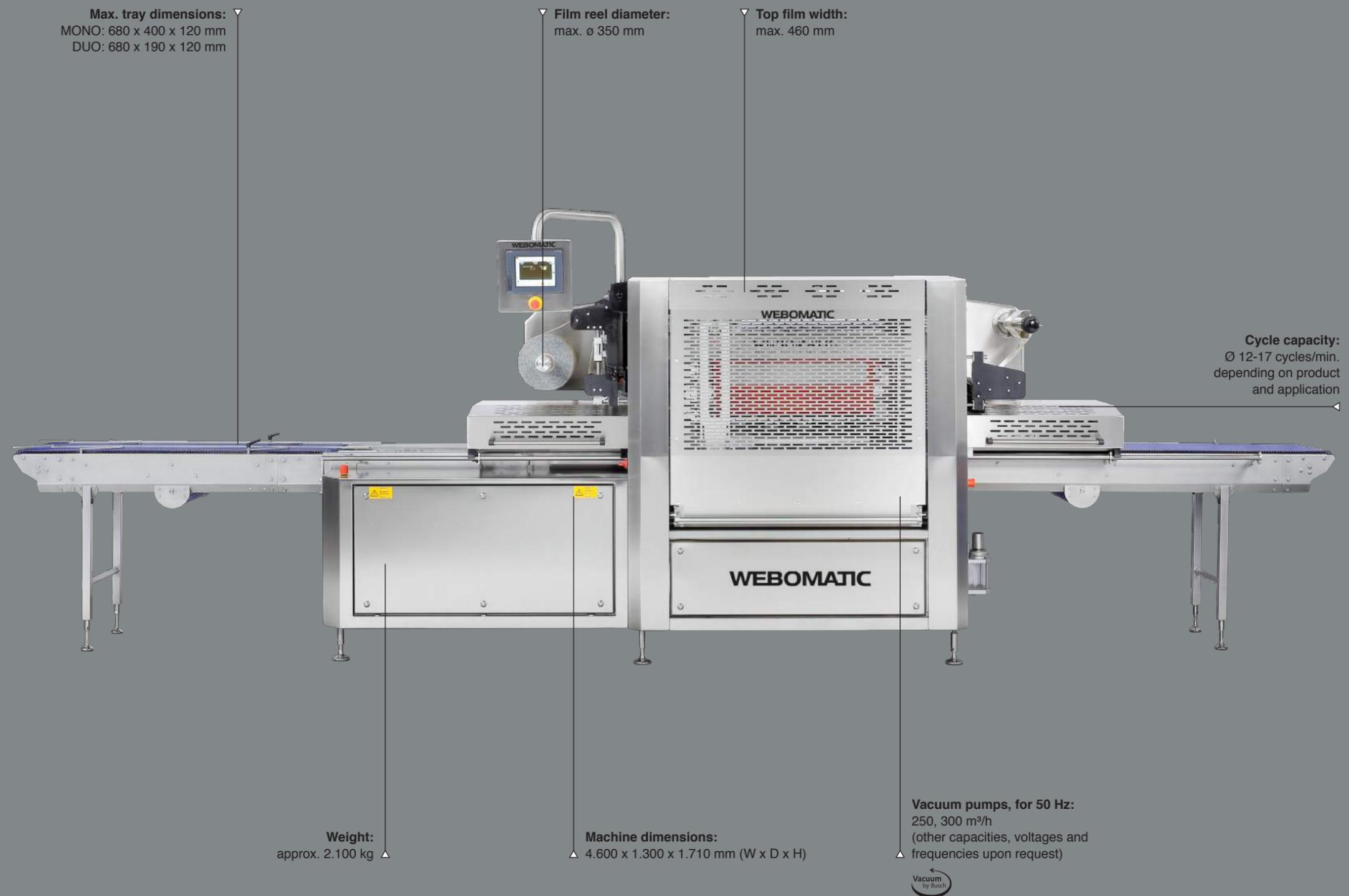
Max. tray dimensions:
MONO: 680 x 400 x 120 mm
DUO: 680 x 190 x 120 mm

Film reel diameter:
max. ø 350 mm

Top film width:
max. 460 mm

Cycle capacity:
Ø 12-17 cycles/min. depending on product and application

Weight:
approx. 2.100 kg

Machine dimensions:
4.600 x 1.300 x 1.710 mm (W x D x H)

Vacuum pumps, for 50 Hz:
250, 300 m³/h
(other capacities, voltages and frequencies upon request)

Vacuum by Busch

TL 1150

Fully automatic tray sealer

Quality, craftsmanship and engineering meet the highest demands by offering a unique packaging technology which is second to none in the industrial tray capacities. With its specially extended sealing chamber, the **TL 1150** represents the high industrial volume **WEBOMATIC** tray sealing solution.

**Standards:** WEBOMATIC CleanDesign®, PLC control unit, WEBOMATIC SDT, Fiber Optics, servo-driven gripper arms

Max. tray dimensions:
MONO: 1.030 x 400 x 120 mm
DUO: 1.030 x 190 x 120 mm

Film reel diameter:
max. ø 350 mm

Top film width:
max. 460 mm

Machine dimensions:
6.950 x 1.220 x 1.750 mm (W x D x H)

Cycle capacity:
Ø 12-18 cycles/min.
depending on product
and application

Weight:
approx. 2.200 kg

Vacuum pumps, for 50 Hz:
300 m³/h
(other capacities, voltages and
frequencies upon request)

Vacuum
by Busch
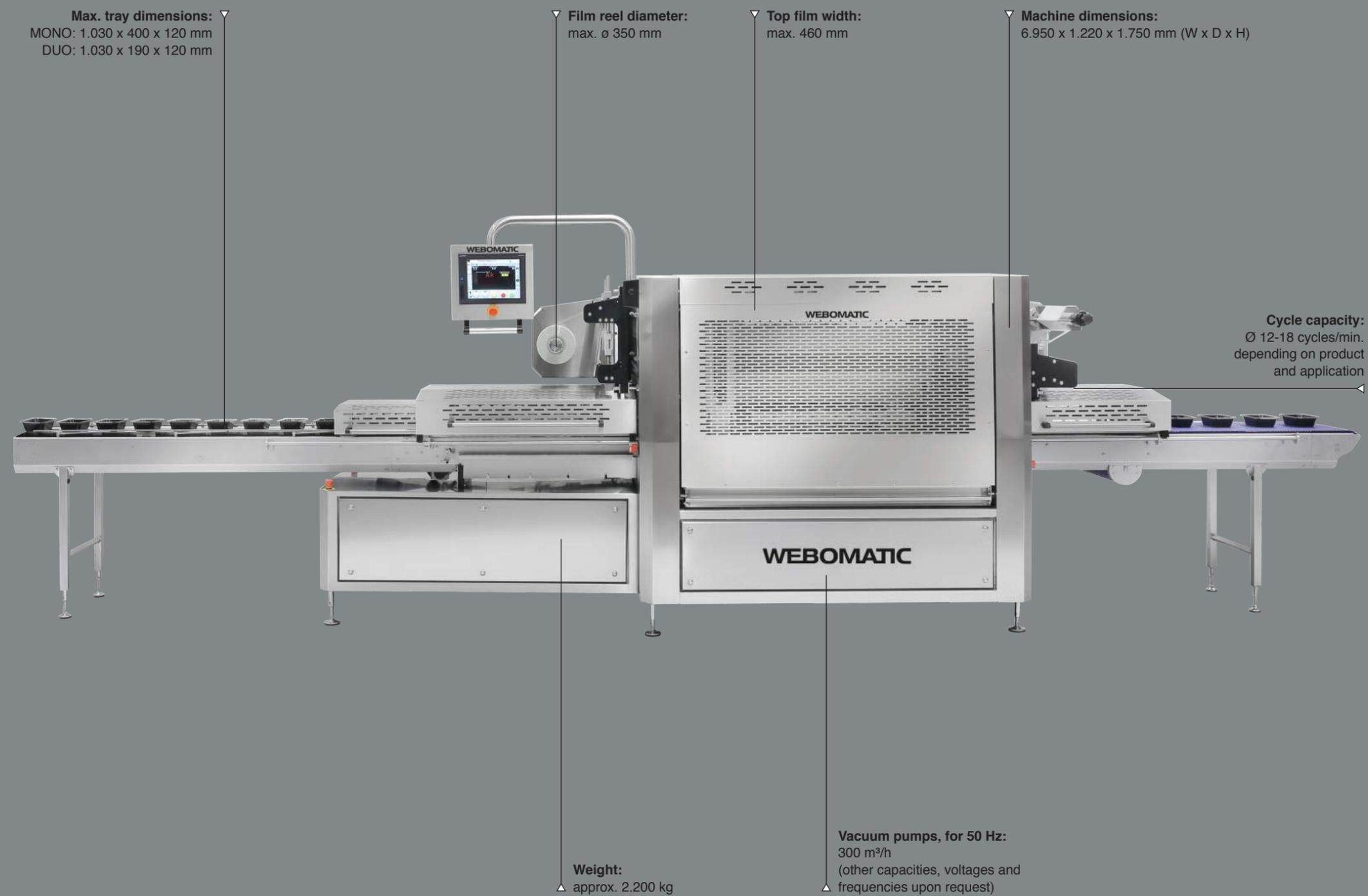
Technical focus
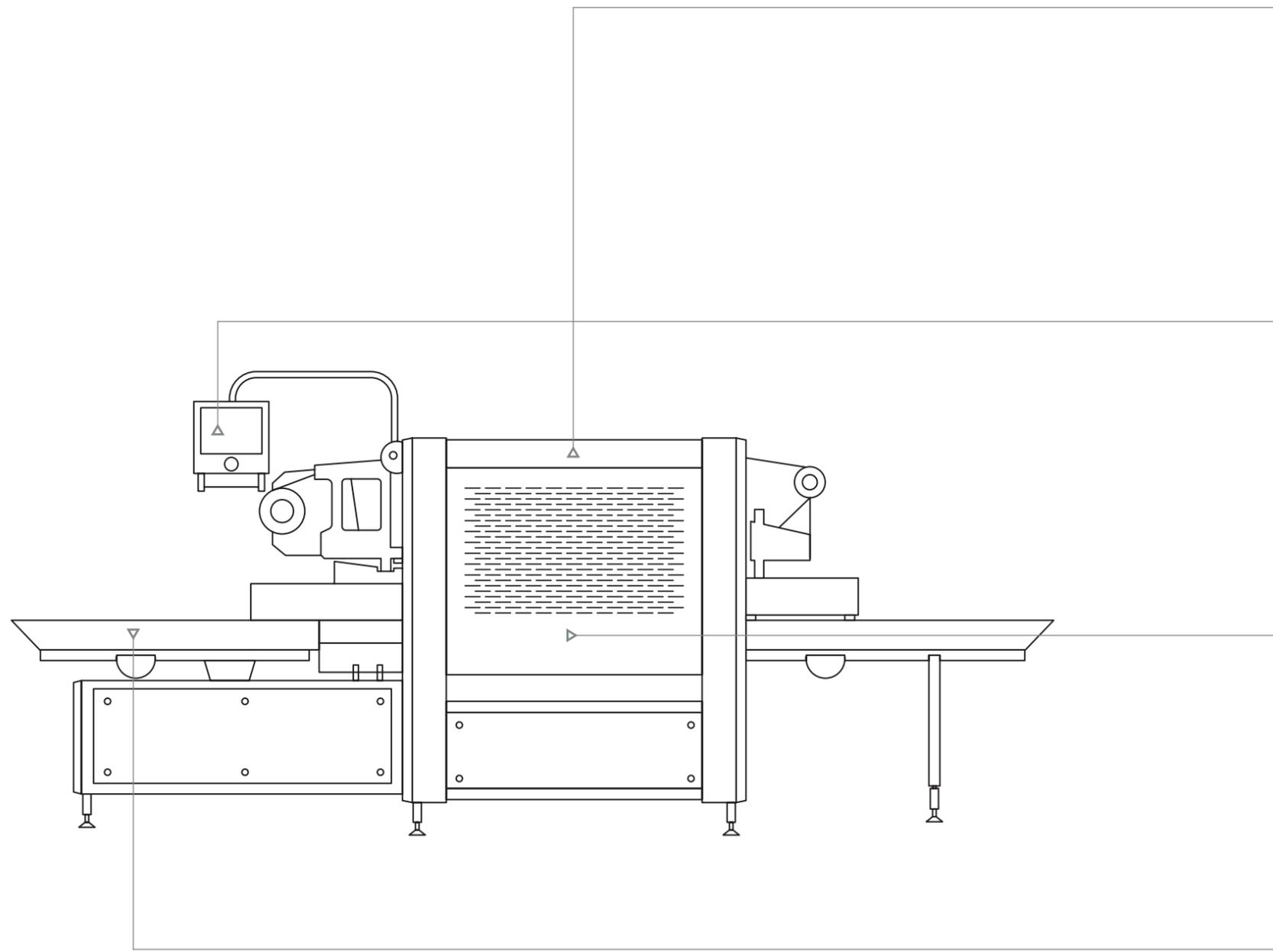
WEBOMATIC CleanDesign® and the highest stainless-steel (AISI 304) ratio compared to other models so that the design and construction make the tray sealers robust and durable.

PLC control unit from Mitsubishi and **WEBOMATIC In-house programming**, to prepare for tailored digitalization concepts. Rotatable and swiveling touch screen with a graphical interface and necessary production data control.

Servo-driven gripper arms for accurate tray positioning into the sealing chamber.
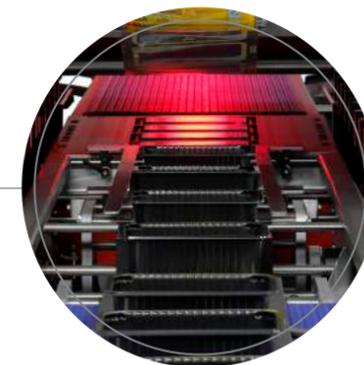
WEBOMATIC Fiber Optics for precise tray positioning.

Technical focus
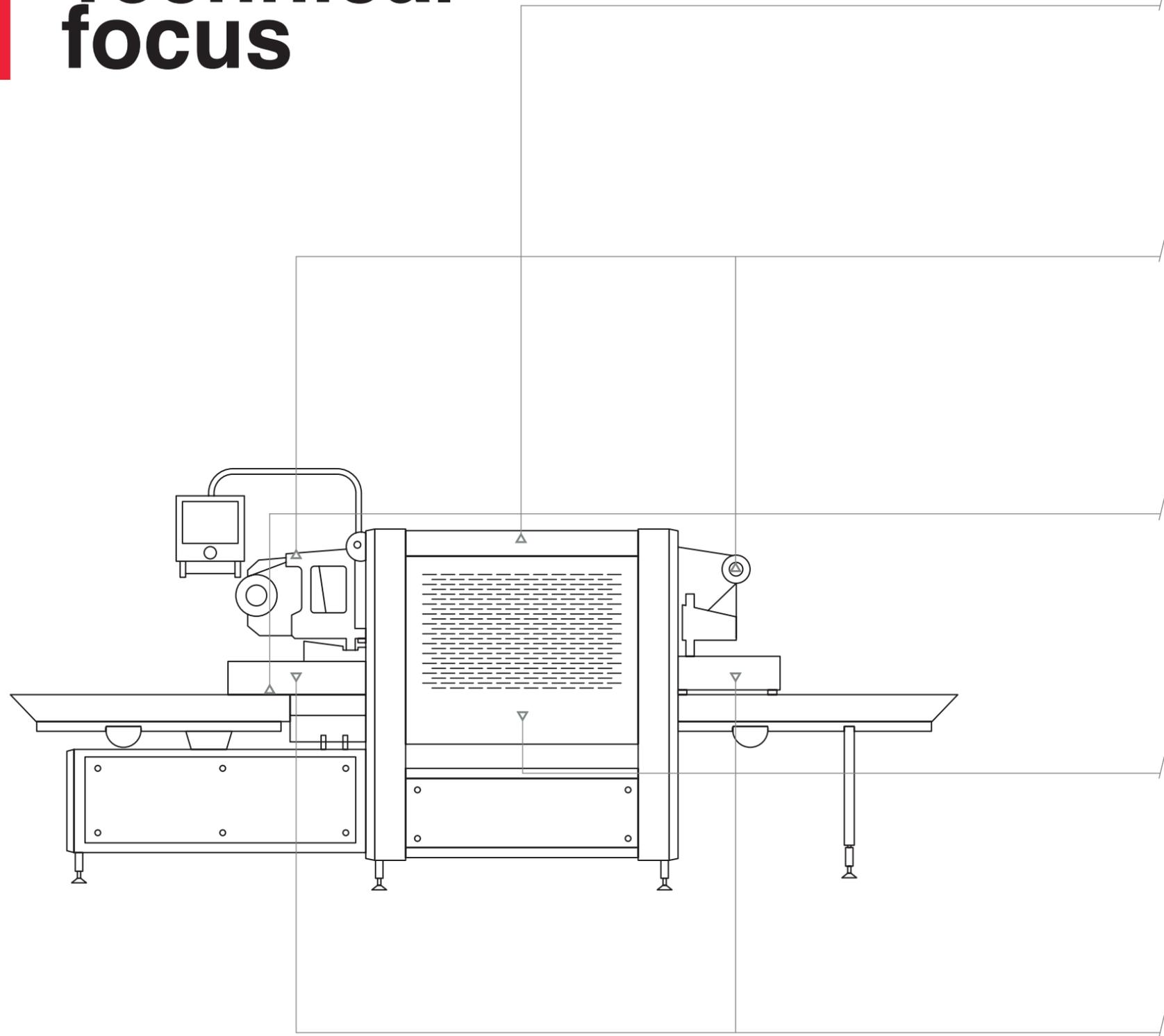
No cooling water necessary for basic operation.
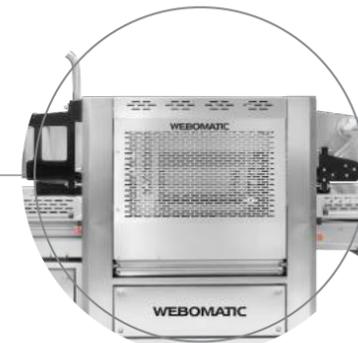
WEBOMATIC SDT: servo driven film unwinding and trim rewinding for smooth and exact film transport. Optimal tension control due to an intelligent regulation system. Service friendly and easy to operate.

With the **positioning template**, a quick and time-efficient tray fitting is ensured for every die set.

Die lifting device with a reliable knee lever system that is guided by a precise 4-column design and completely service-free.
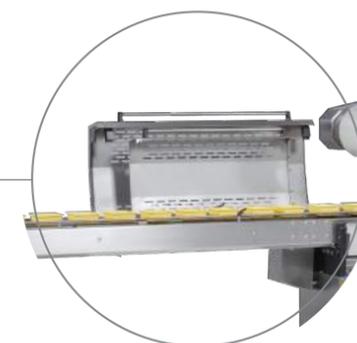
Slideable and tiltable security covers made of stainless steel (AISI 304) with bi-polar coded solenoid switches in accordance with latest EU regulations.

Available options
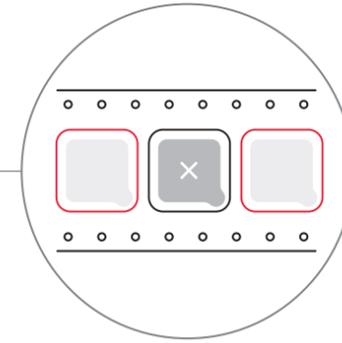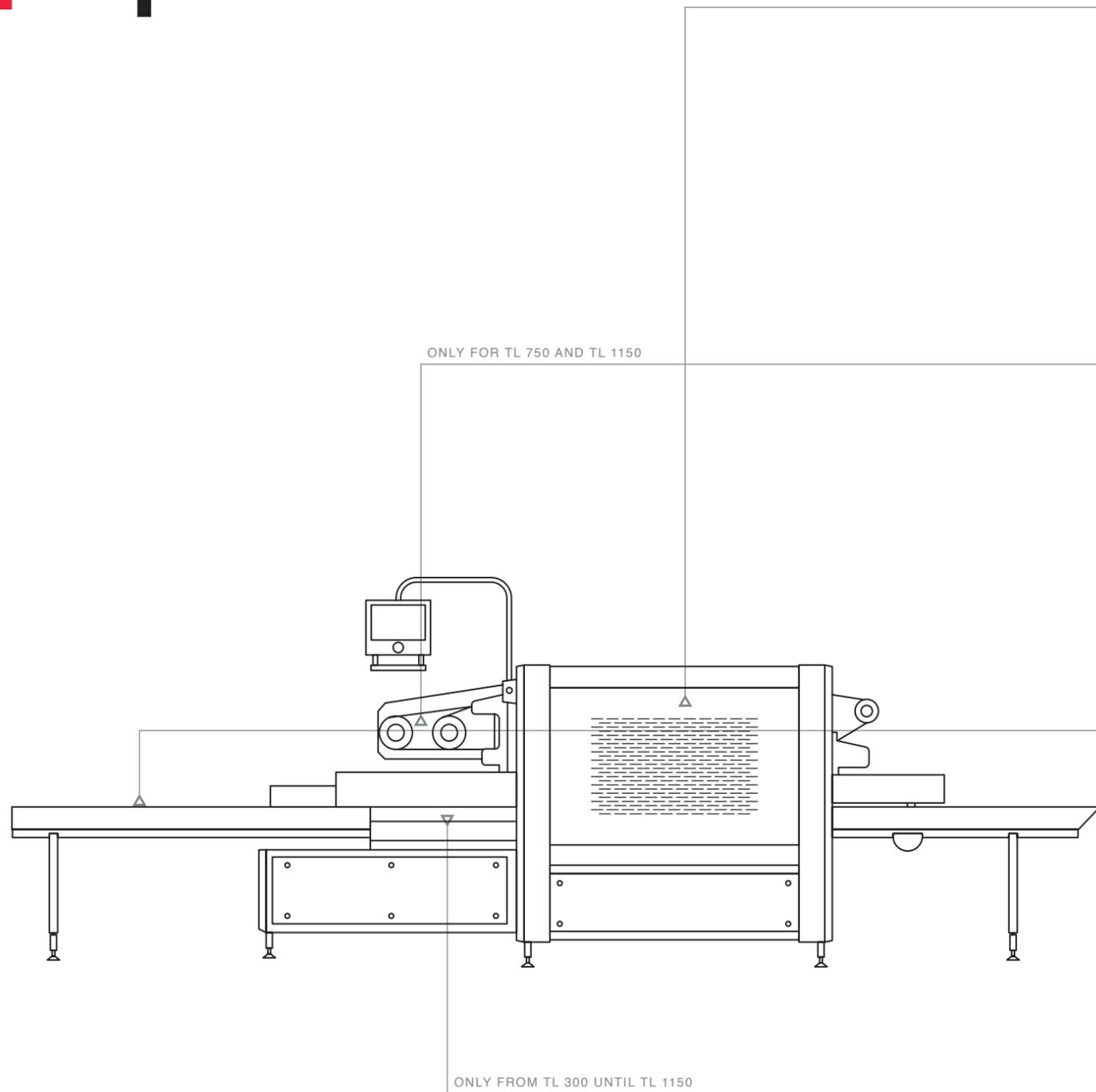
WEBOMATIC SCC
Each cavity is controlled individually.
If a disruption occurs, each cavity
can be turned off separately while
the production keeps working
without any interference.

Duplex top film unwinding for
faster top film changes and less
downtime during the packaging
process.

ONLY FOR TL 750 AND TL 1150
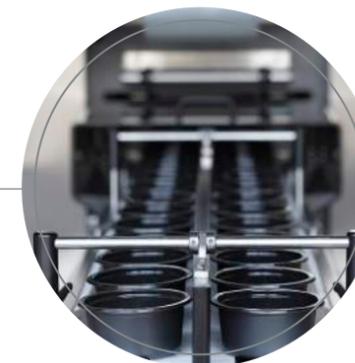
Duo-Version for a dual lane
production of smaller trays
with higher volume.

Several variants of **skin
packaging** to stand out and
benefit from resource saving
concepts.

ONLY FROM TL 300 UNTIL TL 1150

Available options

Use a tray denester in front of infeed-conveyor for automatic denesting of trays.

The fraud-resistant user identification pins divide individual user rights and thus help to maintain an organized and safe packaging process. Switching users does not interrupt the process.

Die set trolleys and racks are available for ergonomically removal of die set from the machine or cleaning and maintenance works, as well as to store away stand-by die sets in-between production.
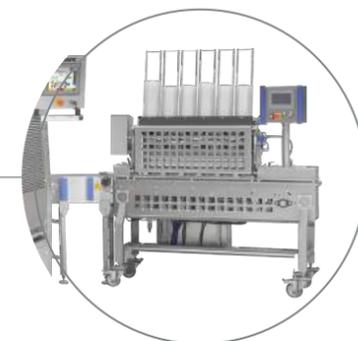
Other peripherals to customize the automated packaging process, e.g., with labeling system, lid applicator, metal detector, or others are available.
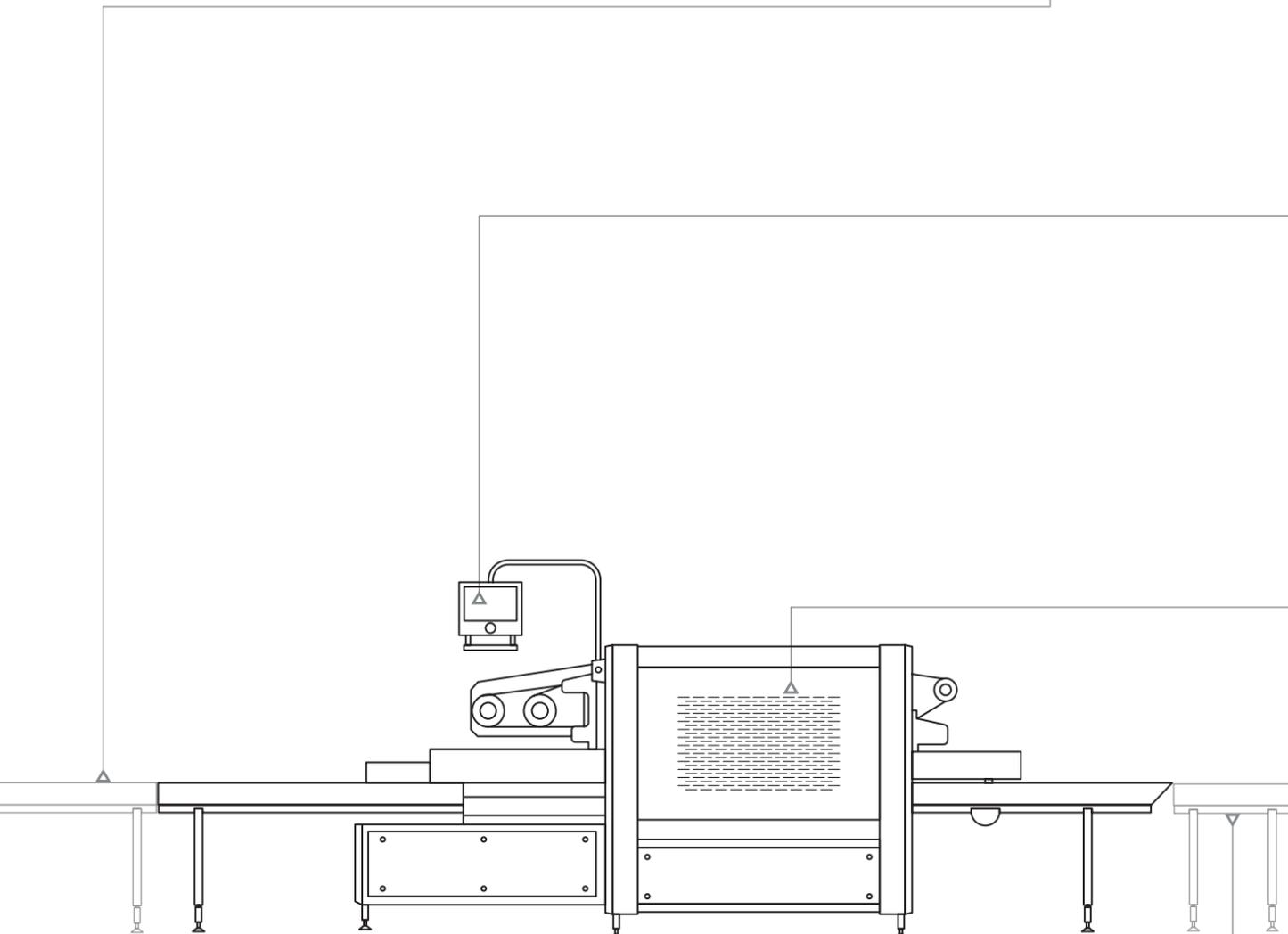
Standards and Individualization

WEBOMATIC will continue to build reliable machines with a solid foundation of extensive engineering experience, application-oriented practice, the use of exceptionally high-quality materials and synergies with top-class suppliers to guarantee the outstanding WEBOMATIC Quality.

The most significant benefit of WEBOMATIC tray sealing machines lies in their high flexibility to fit individual needs. Standardized MAP preparation, top film quick-change device, the automatic film rewinding system and the fast die set change are just some of the universal upgrades to our machines.

Nevertheless, every day our engineers are working to adapt our machines to ever-changing customer and market requirements. To fit these needs WEBOMATIC has created a series of inventions over the years, some already included in every machine, some as an option to help you succeed in your daily operations.

WEBOMATIC
CleanDesign®

All **WEBOMATIC** tray sealers are built in **WEBOMATIC CleanDesign®** to meet the highest hygienic demands. Thanks to the thoughtful and application-oriented machine design, tasks like frequent cleaning and predictive maintenance of **WEBOMATIC** tray sealers are as comfortable as fast. Easily accessible cleaning inlets, moveable conveyor belts, and any other hygienic-relevant machine part can easily be removed so that the machine is ready for cleaning.

BEVELED SURFACES SUPPORT FLUID DRAINAGE

EASY ACCESS TO ALL HYGIENICALLY RELEVANT PARTS

ONGOING FAST AND EASY CLEANING PROCESS

AVOIDANCE OF INGRAINED DIRT

EFFORTLESS WASH-DOWN

STANDARD EQUIPMENT FOR ALL MODELS

WEBOMATIC
Single Cavity Control (SCC)

With the occurance of a disruption e.g., sealing plates, contour-cutting, temperature systems or pneumatic components failed, similiar machines in this branch are forced to stand still.

With the WEBOMATIC SCC

SINGLE CAVITY CONTROL**, this is history:** each cavity is controlled individually. If disruptions occur, each cavity can be turned off separately, and the production keeps working without any interference

This maximizes process reliability and downsizes costs immensely. With a guaranteed and continuous production process, **WEBOMATIC SCC** ensures that the service can be carried out after the completion of the production phase.

This way **WEBOMATIC SCC** contributes to an economical, efficient and resource-saving production, that orients and secures to support the customer's packaging even when unforeseen disruptions occur.
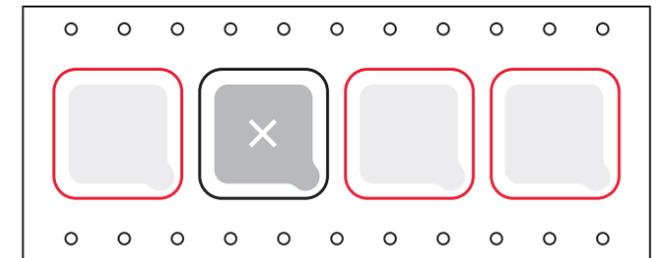
WEBOMATIC
Twin-use

Equipped with the optional **WEBOMATIC Twin-use**, the tray sealer can produce MAP and Pseudo-skin packaging with the same die set, without changing the die set and thus supporting productions with frequently changing types of packaging. The only requirement lies in the same size and format of the trays.

WEBOMATIC
Fiber Optics

After the tray sealer has been familiarized with the regular-used trays on each die set, the optical fiber sensor allows for the automatic identification, positioning, and processing of different tray types – all automated and reliable. To guarantee fast die set changes, we recommend the use of individualized positioning templates, that are specifically tailored and included for each die set.

WEBOMATIC Servo-drive
technology (SDT)

Equipped with various applications of servo-drive technology, all automated tray sealers can be upgraded to absolute high-tech in the field of packaging systems. They ensure exact movements and transparency along the process.

Due to its servo controlled unwinding **WEBOMATIC** tray sealers guarantee optimal film usage. Tray sealers equipped with this option can also process thin films, leading to increased packaging output per film roll, less packaging weight, and lower costs.

Servo engines operate the tray gripper arms, being responsible for drawing and transporting the trays accurately into the sealing chamber – an essential prerequisite for liquid products since the movement of the product in the tray without spilling the content is key to transferring.

This way **WEBOMATIC SDT** not only enables reduced resource consumption in the packaging process but also allows for a smooth and continuing production.

Duplex top film unwinding

Option only available for models from TL 750 and up.

The integrated duplex top film unwinding enables the continuous production with less downtime for film change since another roll of film waits in standby to be switched into the packaging process at any time. Especially in high-volume packaging processes, the less downtime during production, the more cost-efficient the work flow. If the same product is to be packed under two different labels with different top films, only a very simple film change is required if the duplex application is equipped with two different films.

DUO-Versions

Our duo-versions feature a dual lane infeed conveyor and are capable of sealing two to ten trays per cycle (depending on product and application even more possible).
Duo versions are designed to handle twice the number of applications and can be quickly transformed to handle largely sized trays - and that on all fully automatic tray sealers, e.g. **TL 550-duo or TL 1150-duo**.
The loading conveyor can be operated from both sides and can be easily integrated into production by combining it with a denester, filling system, pick-and-place robot, and even more peripherals.

WEBOMATIC In-house programming

WEBOMATIC In-house programming makes customization on the PLC control unit possible and guarantees a control system designed to your individual needs. This can be different menus, languages or user authorization levels, as well as various forms of data analysis tools or to foster digitalisation to all angles of the production.

Depending on the required depth of production data analysis, many options are available to customize and to ensure both transparency and traceability throughout every machine movement. Either on the machine's touch screen or mobile devices. For example, predictive maintenance, error analysis and other connections to peripheral devices can be implemented and managed to connect the packaging machine with industry standards. Additional user identification pins assure stress-less machine operation, even with frequently changing personnel and without stopping the production processes.

Options
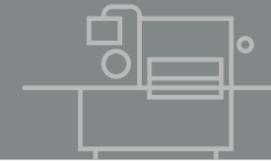
- ☑ WEBOMATIC SDT ("Servo-drive technology")

- ☑ DUO-Versions

- ☑ WEBOMATIC Twin-use

- ☑ WEBOMATIC SCC ("Single Cavity Control")

- ☑ Skin packaging variations: PROTRUDE-SKIN

  PSEUDO-SKIN

- ☑ die set trolley (for quick change of sealing dies, with integrated servicing and cleaning position)

- ☑ die set rack (for secure storage)

- ☑ photo cell (print mark control for printed top film)

- ☑ user identification pins

- ☑ communication module (for remote diagnosis and maintenance)

- ☑ separator (for separating liquids to protect the vacuum pump, with automatic emptying system)

- ☑ O_2-equipment version (for gases with an O_2-content >21%)

- ☑ gas mixing unit

- ☑ inside cut (contour-cutting)

- ☑ peel tap

- ☑ preheating (only for TL 550 and TL 650)

- ☑ servo lift of trays (only for TL 750 and TL 1150)

- ☑ other peripheral devices upon request, like tray denester, dosing system, printer and/or labeling systems, automatic lid application, metal detector etc.

Limitless automatization without timely constraints

WEBOMATIC has been a long-term partner in building vacuum packaging production lines and creating packaging solutions that fit the customer's requirements exactly. Many production steps like denesting, transport, weighing and printing are thought through and integrated from the earliest planning stage - ensuring a custom fit packaging line.

All line components are optimally matched to the WEBOMATIC tray sealer. That means suitable formats, interconnectivity, overarching networks, suitable interfaces, uniform analysis concepts - and (planning) service all from a single source. Due to our long-term relationships with our partners, we can offer functions that go beyond those listed in our portfolio.

Trays and Films

All sealable tray and film materials can be processed on **WEBOMATIC** tray sealers and are continuously adjusted to worldwide packaging trends. The only requirement is the sealing ability of both tray and film so that even unusual shapes and materials can be used.

A wide range of different formats and materials in accordance to each tray format and application, with customization options such as resealable lid films, a snap lid or an easy-to-peel tap is available.

Tray materials

Mono and composite plastic (e.g., PP, PS, PE, EPS EPP, PVC, PLA, A-PET, C-PET, E-PET, airPET®, R-PET)

Board

Foam

Aluminium

Renewable raw materials

Tray shapes

Rectangular

Multi-sided

Round

Oval

Multiple pack cavities

Slice pack

Unusual shapes

Film types

Unprinted film

Printed film

Lid application

Temperature-resistant film

Film from renewable resources

Packaging

Sealing only

A simple packaging solution that protects the product from external influences is sealing of the tray without changing their natural atmosphere.
No significant shelf life-extending features apply.

Modified atmosphere (MAP)

The atmosphere in the packaging is replaced with an optimized and product-specific gas mixture. The blended mixture, e.g. carbon dioxide, oxygen and/or nitrogen can prolong shelf life and maintains color and form of the product.

Lid application

This MAP packaging style is used for shallow trays and flatter products since gas consumption is minimalized. A shrinkable film lid is applied, the lid contracts after the sealing and reduces unnecessary volume.

Balanced atmosphere (B-MAP)

A micro-perforated top film is adjusted to the respiration rate of the product, enabling a balanced atmosphere and extending the shelf life of fresh products like salads, fruit and vegetables.
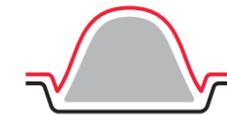
Protrude-skin

The protrude-skin technique allows for the production of skin packaging with protrusion up to 90 mm.
It is common in the combination of a flat tray and a tall product.
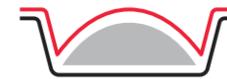
Pseudo-skin

The pseudo-skin technique allows for the production of skin packaging with products as tall as the tray depth.

Visiopaq - ANL®

As an innovative MAP technique, which has two made-to-measure trays that are connected through a printable sealing ring. The ring seals the flange of the tray with the lid hermetically. This packaging applies especially in case of high dome applications and is easy to recycle.
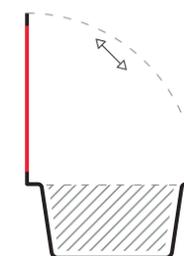
Peelpaq - ANL®

Another innovative MAP solution reduces up to 20% of materials and weight per package. The tray features a built-in lid, that results in an airtightly closed pack and can be both opened and reclosed easily by "clicking" the integrated lid manually.

Contour-Cutting

**The finishing touch for
your tray packaging:**

Outside cut

Inside cut
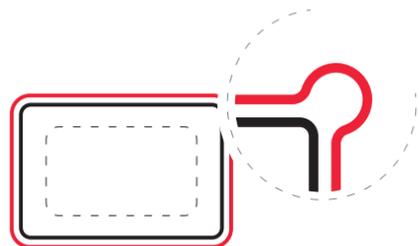
Peel tap

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Customers reliably use WEBOMATIC packaging machines in more than 120 countries. Through our branches in Europe and with our worldwide network of more than 150 sales and service partners, we are always happy to advise and assist you on-site at any time.

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