

ML-C 2600

ML-C 3600

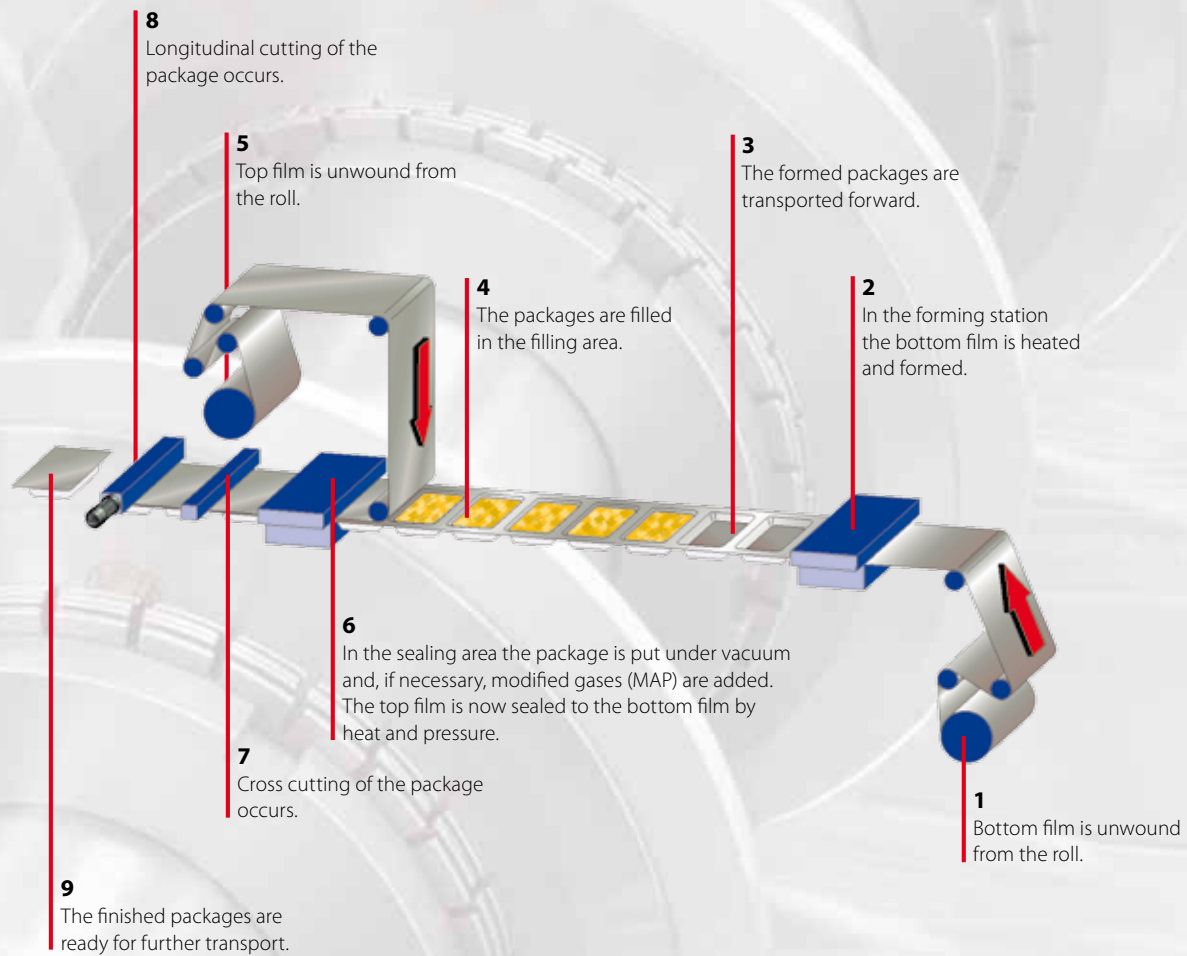
ML-C 5600

Thermoforming technology in the CleanDesign



 **High Quality**
aus Deutschland
made in Germany

How the thermoforming process works:



Thermoforming technology in the CleanDesign

Three models designed and built with equal high values to meet your expectations: the new generation of WEBOMATIC thermoforming machines is designed for small, medium and large capacities. The machines produce retail packs just as well as large industrial-sized units.

What the three have in common is the CleanDesign. Constructive distances between the components preclude the accumulation of contaminants, thereby preventing dirt traps from the start, while the clean mode enables full wash down.

ML-C 2600

Efficiency for compact spaces



Compact, but with high-quality thermoforming technology nonetheless: the ML-C 2600 does not require much space.

Left: Built in the CleanDesign. The cleaning mode allows a full wash down with covers removed.

With a total compact size of just 3.7 m, the ML-C 2600 fits into nearly any place of use. The machine will pack your products quickly and cost-effectively with full-fledged thermoforming technology.

The machine is equipped with a swivelling monitor that allows operation from both sides of the machine. Should preheating be applied, the loading zone is not reduced. Optional pluggable forming inserts allow a product change-over within minutes. The list of options (as shown toward the end of this brochure) is quite impressive.

This packaging tool is perfectly suited for small or medium production. The machine

- processes films up to 422 mm of width,
- manages repeat indices up to 300 mm in length,
- processes virtually all flexible and rigid films.

ML-C 3600

The versatile all-round solution



Modular and thereby versatile: the ML-C 3600 adapts to your production.



The ML-C 3600 is built precisely according to your packaging requirements and specifications. The machine length can be extended from an economic 4.5 m up to a stately 10 m.

This enables a generous loading zone, for instance, or the integration of a filling unit, labelling or coding systems.

It goes without saying that the ultra-modern control synchronizes external modules with the thermoforming machine.



Safe handling, and tool-less as well: The knife shaft for the longitudinal cutting is hidden in a cassette for the safety of the operational staff. The knives are also protected in the cassette.

Servo-driven, the drive chain conveys the film most precisely until the pack is finished. The chain's high gripping power safely supports even heavy products.



For creating tailor-made superior thermoformed packs in large quantities, this machine is prepared for plenty of extra options. Among them are an extended loading zone, also knee-free, and an extended discharge. Another very important feature is the cutting technique: in addition to the standard cutting techniques for flexible and rigid films the machine optionally can master for example a zigzag cut and a perforation cut.

For flexible films, the ML-C 3600 can be equipped with a film suction system (large picture at left). For stronger film material we have designed a rewinding system with a damaged film detection which rewinds the film strips safely and without much noise. Removing the film remnants from the coil is extremely easy.

The ML-C series likes the foam. The CleanDesign makes full sanitary cleaning very simple.



Designing in hygiene: As seen here with the drive module, the best possible water drain-off is realized by constructive distances between components. This results in the highest possible hygiene: bacteria cannot gather.



With space-saving measurements, the ML-C 3600 still realizes a production capacity suited to the industry. The machine

- processes films of up to 462 mm width
- manages repeat indices of up to 400 mm in length (300 mm with preheating)
- labels optionally both top and bottom film
- can support jumbo rolls for the bottom film in a straight line or at a 90° angle – just as the ML-C 5600

ML-C 5600

Packaging high-tech brought to perfection



Ready for large production:
the ML-C 5600 shown here is equipped
with an optional labelling station.



The thermoforming machine ML-C 5600 meets the highest demands for industrial-sized production while it is designed for medium and large production environments and is suited for high-speed operation. With its web width, repeat index and optimized lifting movement, the machine is ideal for automated operation in a packaging line with integrated slicers, pick-and-place robots, multi-head weighers etc.

Important features of the ML-C 5600

- Speed. The innovatively constructed lifting system opens and closes as fast as the wind. At the same time, the double knee lever ensures an even distribution of the power with a high gripping strength.
- Precision. The highly dynamic servo drive ensures precise film transport.
- Potential. This machine is prepared for sophisticated extra equipment – as shown on the following pages.



Elaborate construction: the top film unwinding system. It is equipped with a spreader mandrel for fixing the roll, a positioning sled for guiding the film, and a dancer arm which keeps the film under tension. The whole uncoiling is thus under control.

The vacuum valves of the ML-C 5600 are placed directly at the die. This means even shorter ways to create the vacuum and adds up to a quicker production.



The machine produces high quantities in a short time. You will create representative packages due to the elaborate cutting techniques and forming methods. Different skin processes are also possible. The ML-C 5600

- can be extended to a length of around 20 m,
- is suited for special films,
- processes films of up to 562 mm in width,
- manages repeat indices up to 600 mm in length (400 mm with preheating),
- performs up to 20 cycles per minute.



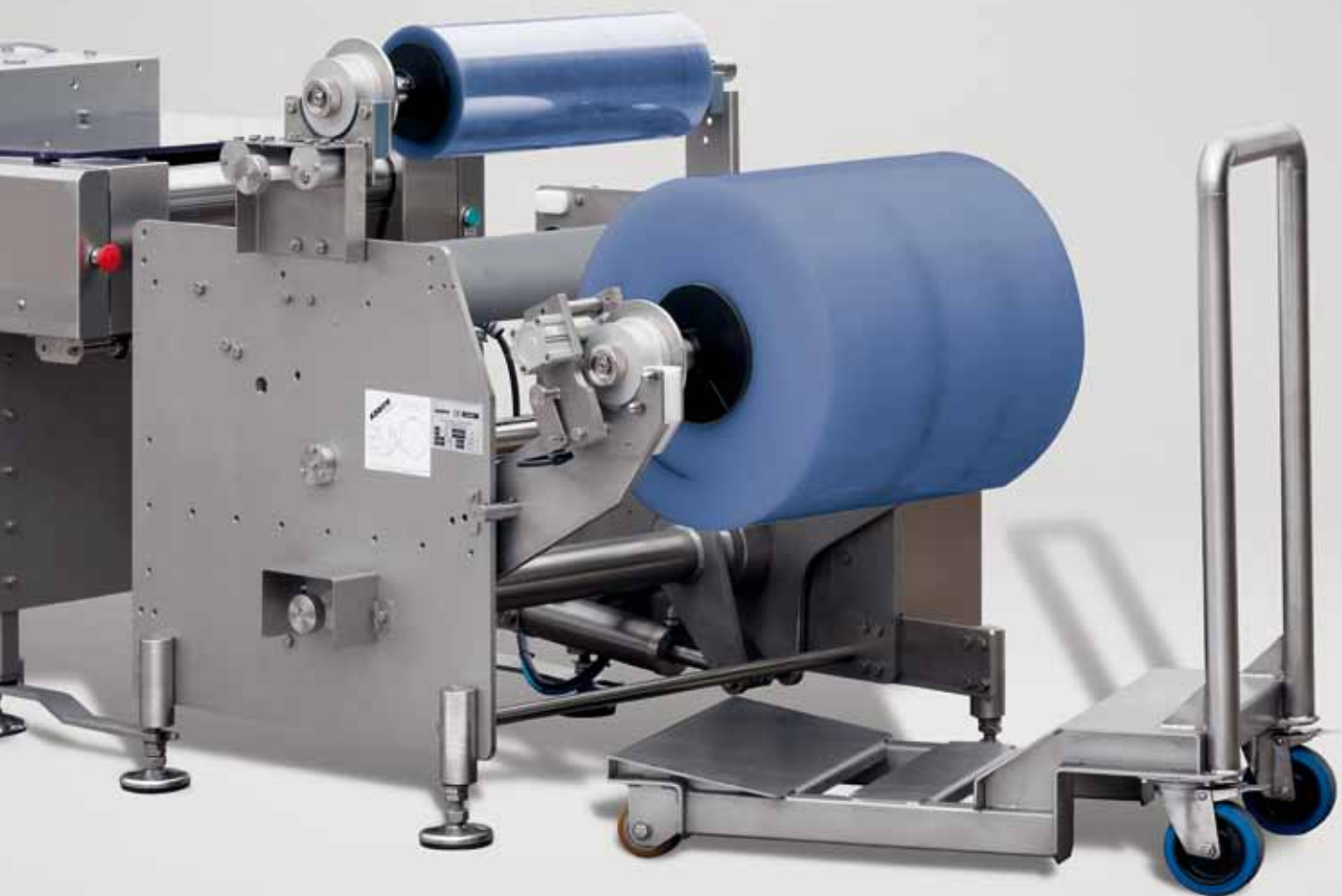
Exclusive special equipment:
A ML-C 5600 with a thermo transfer printer for labelling production data.

As its smaller siblings, the ML-C 5600 is also built in the CleanDesign. The cleaning mode allows a full wash down.



Details and special equipment

Jumbo roll: an important prerequisite for uninterrupted production. Connected in a straight line, those rolls with little film remaining can be moved to the top support as standard equipment.

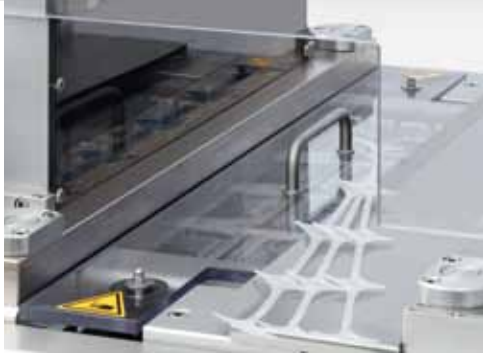


Theses pages show the following special equipment:

- a jumbo roll support, connected in straight line
 - a strip punch
 - a roller belt adjustable in height
 - a travelling punch
- and
- WEBOMATIC 2pack: a combination of a skin and MAP pack



WEBOMATIC 2pack: Our own development is a thermoforming pack with several chambers, some of which are skinned and others injected with modified atmosphere (MAP). This combination of two packaging types is exclusively offered by WEBOMATIC and unique in the packaging industry.



A strip punch allows you to produce packs with even and smooth ridges.

With the jumbo roll support, operators can unlock the left carrier and fold it to the side, so that they can change the film roll even in limited spaces.



Employing a roller belt that is adjustable in height prevents heavy products from sagging.



The travelling punch is cost-efficient and saves time with the format change.
















Our individual equipment creates first rate packages and simplify your production. To name some:
 A cross cutting with a strip punch (top-most picture). This advanced technique makes precise cuts and combines a high cutting performance with longevity. It also prevents the undesired cold sealing at peel flaps.
 The jumbo roll support, be it connected in a straight line or at a 90° angle: By preloading a new roll your production continues without unnecessary downtime.

WEBOMATIC thermoforming machines reflect state-of-the-art technology in material, constructions, equipment and design. All of our stainless steel machines are manufactured to first-class standards. As a general rule with WEBOMATIC, electronic, pneumatic and other components as well as the vacuum pumps are purchased from renowned brands. Like all our machines, this new generation of thermoformers makes it clear that WEBOMATIC focuses on sustainable quality.

Technical data
Thermoforming Machine Family ML-C



ML-C 2600

General	Drive		servo drive, highly dynamic, electronically controlled
	Vacuum pump		built in up to 140 m ³ /h; bigger volumes external
	Packing performance		up to 10 cycles/min. (depending on machine equipment and product)
Control	Monitor		Mitsubishi 5.7" colour touch screen, rotatable and swivelling
	Remote diagnosis/Communication module		○
Measurements	Length		3,740 mm
	Width		1,070 mm
	Height		1,820 (± 35 mm)
	Repeat length/Index		120–300 mm (also with preheating)
	Draw depth		max. 130 mm
Packing materials	Width bottom film		322, 362 oder 422 mm
	Bottom film Thermoformable and sealable flexible film		PA/PE, Tyvec
	Thermoformable and sealable rigid film		○ max 600 μ 
	Top film Sealable flexible film		PA/PE, Tyvec, PP
Forming procedures	Compressed air		●
	Compressed air and vacuum		○
	Plug assist forming		○
	Top film forming		–
Pre-heating	Standard heating in forming station from top		●
	Simple preheating from below		○ up to a repeat length (index) of 300 mm
	Sandwich preheating		○ up to a repeat length (index) of 300 mm
Cutting	Standard guillotine cut		●
	Zigzag cut		○
	Punching of rounded corners		○
	Perforation cut		○
	Squeezing knife longitudinal cut		○
	Strip punch/Roller shearing striping cut		–
	Contour or complete cut		–
Pack coding	Print mark control		○ for top film with print marks
	Stamp coding/hot embossing/thermo transfer print/inkjet/laser		○
	Labelling: Top film		○
	Bottom film		–
Further options	MAP, optionally also oxygen (O ₂)		○
	Gas mixer and/or analysis device		○
	Jumbo roll support (bottom film), also at a 90° angle		–
	Knee-free loading zone		–
	Support rolls in the loading zone		○
	Height adjustable, synchronised discharge belt		○
	Film strip rewinding		○
	Water cooling system		○
	Lifting limit via SPS		○
	Synchronisation with automatic supply system		○

Packaging is our passion



Vacuum Chamber Machines
Tray Packaging Machines
Shrinking and drying
Thermoforming Machines
Components

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We have been developing vacuum packaging machines. For 55 years.

High-quality technology from Germany WEBOMATIC machines have proven best practice in almost all areas of vacuum packaging – be it perishable food, sterile cosmetic and medical products or sensitive industrial products. More than 100,000 sold machines prove our excellence.

Convincing product features

- First class workmanship
- High-grade materials and components
- Easy operation
- Longevity
- Reliability
- Service-friendliness
- Branded components available world wide

Small and big solutions: for the trade and industry, for food and non-food areas

At our facilities in Bochum, Germany, we realize the complete business – from the construction to the sales – under one roof: It is here that our resourceful engineers develop innovative solutions and the intelligent details that go into our high-quality machines. In an area of over 8,500 m², we build the machines with up-to-date manufacturing technologies. Our comprehensive technical and operational know-how, as well as the use of high-grade materials and components from branded suppliers, ensure the first-class WEBOMATIC quality.

WEBOMATIC offers the complete range of modern packaging machines and packaging lines.

Quality is our success

