

# APS ML 2000

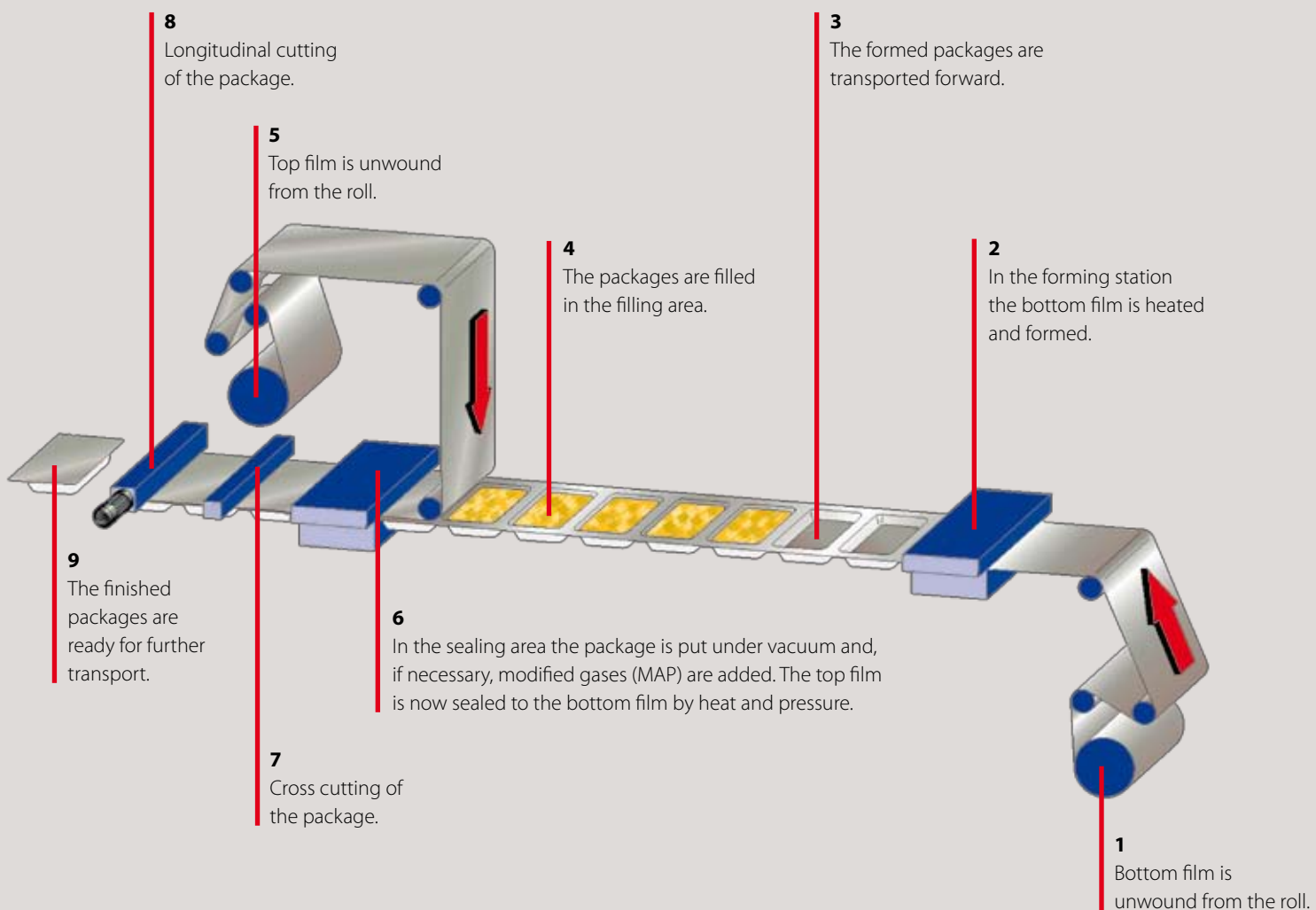
# APS ML 3300

Compact High-Quality Packaging Machines  
for small to medium-sized enterprises





## Function diagram of the thermoforming procedure:



# Our compact class

## **Strong solutions in heavily restricted operating areas**

The thermoforming machines APS ML 2000 and APS ML 3300 are despite their minimal requirements for operating space real high-quality solutions for the vacuum and MAP-packaging of food and non-food products. Therefore they are the ideal tool for small and medium-sized enterprises and it is possible to use flexible soft-film or rigid packages – quick and in an economical way.

Due to their solid and high-quality construction in stainless steel, the exclusive use of first-class components by well-known manufacturers, the high dynamic servo-drive and the safe control via Mitsubishi PLC are responsible for our compact Thermoforming Machines APS ML 2000 and APS ML 3300 for the individual and optimum packaging sequences and best packaging qualities.

## **Versatile applicable**

It is possible to memorize an individually configured programme for 100 different products. As a consequence, a quick access to the required parameters is possible, if it is necessary to effect product and film adjustments – and a permanent high packaging quality is ensured.

All die sets are produced to the individual client's requirements. Solutions for special packaging tasks can be designed on-site, if required. For this purpose our international distributors and the WEBOMATIC design team are at your disposal. Satisfied clients all over the world appreciate this service.



# APS ML 2000

The compact one



Ten standard die sets for different products.

Our "small" thermoforming machine APS ML 2000 is the ideal tool to handle big things requiring vacuum or MAP packaging for small and medium-sized production capacities – either in workshops, laboratories, supermarkets or large kitchens: The compact thermoforming machine does not need much space due to its front-sided construction and can be located just against the wall.

Depending on the product and the client's requirements the APS ML 2000 can use not only flexible film material, but also semi-rigid film material with the following widths: 280, 300, 320, 360 or 420 mm in three repeat lengths (200, 240 or 280 mm). For each basic model it is possible to choose between ten different plug-in die sets for different products, enabling a quick change of the machine within a few minutes. Via the operating-friendly colour touch screen the PLC can be set easily – and adapt the APS ML 2000 rapidly to the specific product.



The high-capacity APS ML 2000 is able to realize up to 10 cycles/min. depending on the pump size and the desired vacuum value corresponding to a capacity of up to 100 packages per minute (with die set 5.2). In order to obtain an optimum design of the packaging either pre-printed film material can be used which will exactly be positioned onto the package via the print mark control system. In addition, it is possible to realize completely free designs of packaging forms by using semi-rigid film material. Also the name of the company, the company's logo, date or number of the charge can be moulded onto the package. The compact one: Our perfect solution for the quick and economical packaging for small and medium-sized production capacities.



Options: Film remnants rewinding system for flexible and semi-rigid films as well as photocell for pre-printed top film.

#### WEBOMATIC APS ML 2000

- for all flexible and semi-rigid packages with 280, 300, 320, 360 or 420 mm film width
- comfortable draw depth up to 100 mm
- negligible space needed for the installation due to its compact design
- electrical cabinet installed on front side
- high-dynamic Mitsubishi servo-drive
- secure control via Mitsubishi PLC (with optional remote diagnosis)
- easy operation with colour touch screen
- completely made out of stainless steel and other non-corrosive materials
- stable special stainless steel profiles
- two separately operating lifting devices
- 5/8" film transport chain
- hygienically cleanable
- many additional options available

WEBOMATIC quality equipment with construction parts from well-known manufacturers (Busch, Festo, Mitsubishi, etc.) which can be obtained worldwide.



Longitudinal cutting with quick tension shaft.



Servicefriendly: All important construction parts inside the electrical cabinet are easily accessible from the front side.



Multi-lingual colour touch screen with simple operating surface.



Practical: The APS ML 2000 can be located in most restricted areas and its smooth surface can easily be cleaned.

# APS ML 3300

The enormous little one



Bottom film pre-unwinding-system with integrated film brake as standard.

With its compact total length of only 3,5 m, the APS ML 3300 can also be located almost everywhere. Regardless, whether the professional packaging of easily perishable food, sterile cosmetic or medical articles or high-sensitive industrial products is concerned: The flexible thermoforming machine is able to realize high-quality vacuum and MAP packages on most restricted areas – quick and in an economical way.

The high-capacity model convinces with a remarkable packaging capacity of up to 10 cycles per minute respectively up to 120 packages per minute (with die set 6.2). Depending on the individual product and client's requirements the APS ML 3300 can use flexible film material as well as rigid film materials (up to 600  $\mu\text{m}$ ) in 320, 360 or 420 mm film widths – entirely variable in different repeat lengths between 120 and 280 mm. Especially comfortable is the convenient filling area of the APS ML 3300 with 840-1.100 mm; the maximum draw depth is 130 mm.





Versatile cutting possibilities: Punches, guillotine or zigzag cutting for the cross cutting as well as rotative or squeezing knives for longitudinal cutting.

For processing special film materials, such as PS or PP, a preheating system from beneath, sandwich pre-heating as well as an additional plug-assist forming system are available as options. For each basic model it is possible to choose between 12 different plug-in standard die sets, enabling a quick change of the machine within a few minutes. The enormous little one: Our thermoforming solution for medium-sized production capacities – and wide range variation possibilities.



Professional packaging design by means of pre-printed top film, coder and/or labelling systems.

#### WEBOMATIC APS ML 3300

- for all flexible and rigid packages with 320, 360 or 420 mm film width
- negligible space needed for the installation due to its compact design
- high-dynamic Mitsubishi servo-drive
- secure control via Mitsubishi PLC (with optional remote diagnosis)
- easy operation with colour touch screen
- comfortable large filling area, ergonomically arranged
- completely made out of stainless steel and other non-corrosive materials
- stable special stainless steel profiles
- 5/8" film transport chain
- hygienically cleanable with closed die-set positions
- many additional options available

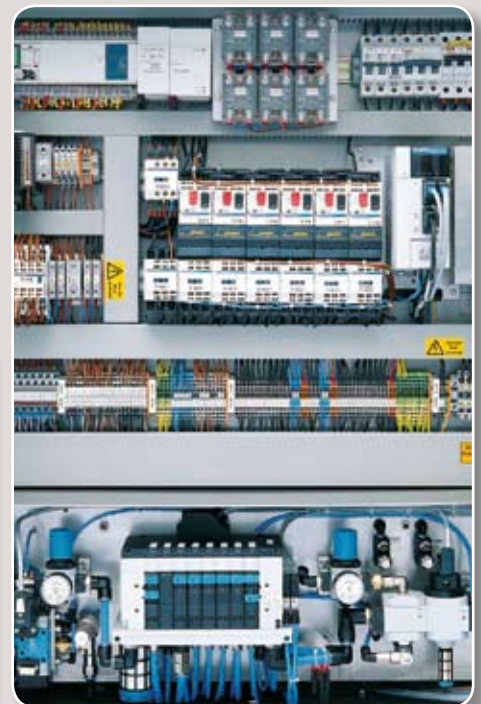
WEBOMATIC quality equipment with construction parts from well-known manufacturers (Busch, Festo, Mitsubishi, etc.) which can be obtained worldwide.



Colour touch screen with simple operating menu for process control and parameter setting of the PLC.



Clean product transfer via optional conveyor belt.



Servicefriendly: Construction parts of wellknown manufacturers are clearly arranged inside the electric cabinet.



## APS ML 2000 Thermoforming Machine

### Technical data:

#### Technical data:

drive:	Mitsubishi servo-drive, high-dynamic, electronically controlled
control:	PLC Mitsubishi FX with optional remote diagnosis
dimensions:	external dimensions 3.100 x 860 x 1.380–1.480 mm (W x D x H) working height 860–930 mm exit height 650–800 mm repeat length 200, 240 or 280 mm max. draw depth 100 mm
weight :	approx. 700 kg
electric :	400 V, 50 cy, 3 phases, N, PE, capacity 8,5 kW
compressed air:	approx. 36 l/cycle, max. humidity 7g/m <sup>3</sup> , pressure 7 bar min.
cooling water:	approx. 60 l/h, pressure 3 bar, entry temperature max. 15 °C
vacuum pump:	55, 63, 100 m <sup>3</sup> /h installed
film transport:	5/8" chain

#### Packing material and capacity:

bottom film:	thermoformable and sealable flexible and semi-rigid film, e.g. PA/PE, A-PET, PVC film width: 280, 300, 320, 360 or 420 mm roll diameter: 400 mm roll core diameter: 76 mm/3"
top film:	sealable flexible film, e.g. PA/PE, Tyvec roll diameter: 300 mm roll core diameter: 76 mm/3"
packing capacity:	depending on equipment and product, up to 10 cycles/min., up to 100 packages/min.

#### Options:

MAP including stainless steel storage tank  
height adjustable, cycled exit conveyor belt  
trim removal system or rewinding system  
print mark control for pre-printed top film  
water cooling systems  
synchronisation for automatic filling systems  
cutting punches for client-specific requirements

Technical modifications reserved.

All WEBOMATIC machines fulfil the valid European regulations according to CE, EMV, DIN-GOST.





# APS ML 3300 Thermoforming Machine

## Technical data:

### Technical data:

drive:	Mitsubishi servo-drive, high-dynamic, electronically controlled
control:	PLC Mitsubishi FX with optional remote diagnosis
dimensions:	external dimensions 3.510 x 1.010 x 1.450–1.550 mm (W x D x H) working height 850–950 mm repeat length 120–280 mm max. draw depth 130 mm
weight :	approx. 900 kg
electric :	400 V, 50 cy, 3 phases, N, PE, capacity 9,5 kW
compressed air:	approx. 60 l/cycle, max. humidity 7g/m <sup>3</sup> , pressure 7 bar min.
cooling water:	approx. 60 l/h, pressure 3 bar, entry temperature max. 15 °C
vacuum pump:	55, 63, 100 m <sup>3</sup> /h installed; 160, 250 m <sup>3</sup> /h external
film transport:	5/8" chain

### Packing material and capacity:

bottom film:	thermoformable and sealable flexible and rigid film, e.g. PA/PE, A-PET, PS, PVC, PP (special execution) film width: 320, 360 or 420 mm roll diameter: 400 mm roll core diameter: 76 mm/3"
top film:	sealable flexible film, e.g. PA/PE, Tyvec roll diameter: 300 mm roll core diameter: 76 mm/3"
packing capacity:	depending on equipment and product, up to 10 cycles/min., up to 120 packages/min.

### Options:

MAP including 10 l stainless steel storage tank  
height adjustable, cycled exit conveyor belt  
trim removal system or rewinding system  
print mark control for pre-printed top film  
water cooling systems  
synchronisation for automatic filling systems  
cutting punches for client-specific requirements  
coder and/or labelling systems  
cutting punches for client-specific requirements  
limit for lifting device  
knee-free filling area  
product support

Technical modifications reserved.

All WEBOMATIC machines fulfil the valid European regulations according to CE, EMV, DIN-GOST.



## Tailored thermoformed packages to suit each customers requirement

		APS ML 2000	APS ML 3300	APS ML 4600*	APS ML 7100*
films	<b>PA/PE, Tyvec</b> 	●	●	●	●
		●● — — up to 400 µm	●●●● up to 600 µm	●●●●● up to 800 µm	●●●●● up to 1.200 µm
standard heating in forming station from top		●	●	●	●
simple pre-heating from beneath		—	●	●	●
sandwich pre-heating		—	● 1x	● 2x	● 3x
plug assist forming		—	●	●	●
pre-printed top film		●	●	●	●
stamp-coder		—	●	●	●
labelling:					
top film		—	●	●	●
bottom film		—	—	●	●
standard guillotine cut		●	●	●	●
zigzag cut		●	●	●	●
cutting punch for round corners		●	●	●	●
perforation cut		—	●	●	●
stripe punch		—	—	●	●
complete cut, respectively contour cut		—	—	●	●

\* Please see separate brochure of these machine types.



## Packaging is our passion



**We have developed vacuum packaging machines. For 50 years.**

### **High-quality technique from Germany**

WEBOMATIC machines have successfully proven their values worldwide in almost all areas of packaging. Regardless, if the optimum vacuum packaging of easily perishable food, sterile cosmetic and medical equipment or high sensible industrial products is concerned.

### **Convincing product features**

- first-class processing
- high-quality materials and components
- easy operation
- longevity
- reliability
- servicefriendly

### **Small and big solutions:**

**Vacuum packaging machines for workshops and industry, for the food and non-food area**

From the WEBOMATIC location in Bochum everything is realized from the development up to the worldwide dispatch: Here resourceful engineers develop innovative ideas and constructive solutions and details concerning the high-quality machines, which are produced on a production area amounting to more than 8.500 m<sup>2</sup> equipped with the most modern production techniques. Comprehensive technical and application orientated know-how, the ubiquitous use of high-quality materials from well-known branded construction parts from efficient suppliers are the guarantee for the first class WEBOMATIC quality.

Either standard solutions, like table machines, single chamber machines, double chamber machines or high-tech packaging systems in accordance with the specific client's requirements: WEBOMATIC vacuum packaging machines correspond in material, technique, equipment and design to the latest state-of-the-art.

**Quality is our success.**



## **WEBOMATIC®**

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