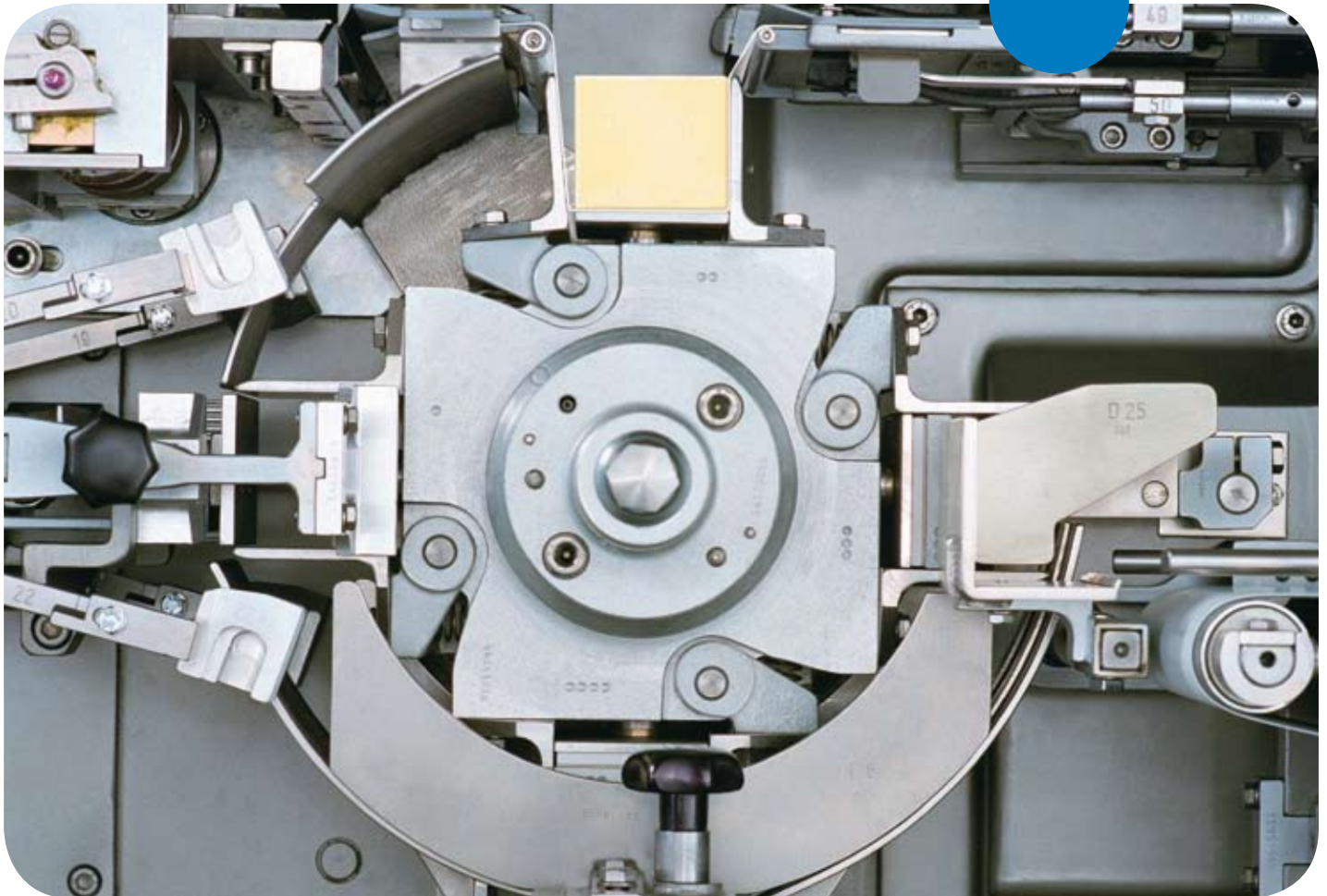


**ECOPACK**

Fully automatic moulding  
and wrapping machines  
for butter and margarine

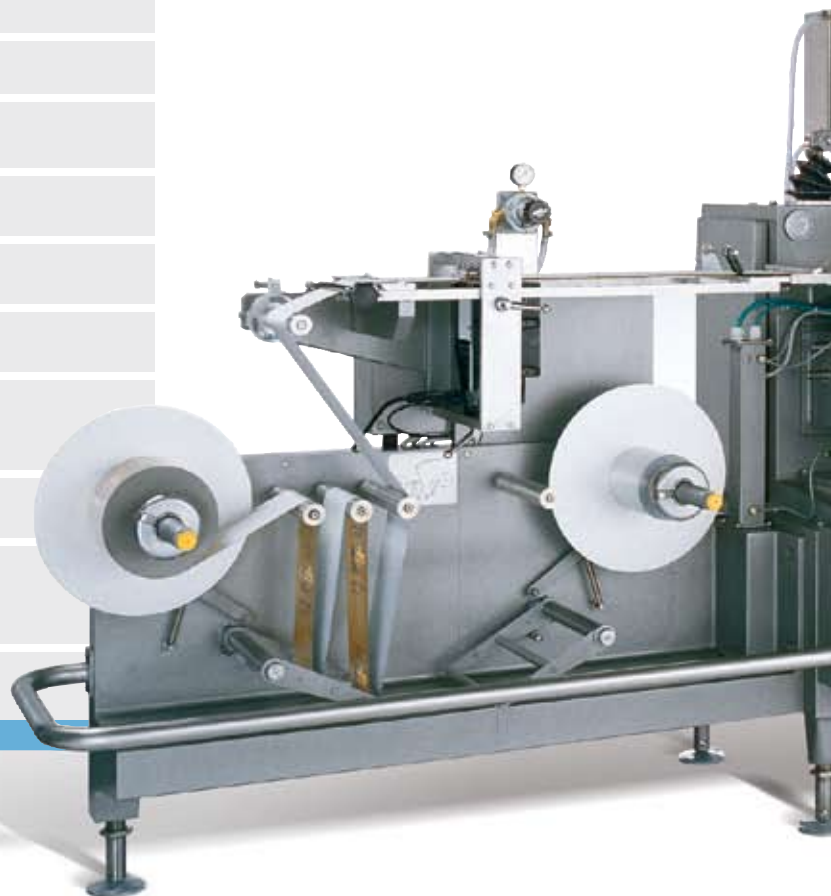


## MAXIMUM PACKAGING QUALITY WITH MINIMUM CONSUMPTION OF WRAPPING MATERIAL: ECOPACK MOULDING AND WRAPPING MACHINES

Outstanding packaging quality, exceptional filling accuracy, and maximum format flexibility are the intrinsic characteristics of the Ecopack machine range which OYSTAR Benhil customers have always been appreciating, for packing butter and margarine. As the name makes suppose already, another feature of the Ecopack machines is their main advantage: the low wrapping material consumption saving up to 30% compared with traditional folding styles (always depending on the packet size)! This considerable reduction is possible due to the end fold principle. Furthermore, Ecopack machines allow utilization of wrapping materials with high dead fold such as plastic wrappers made of PE, PP, or OPP.

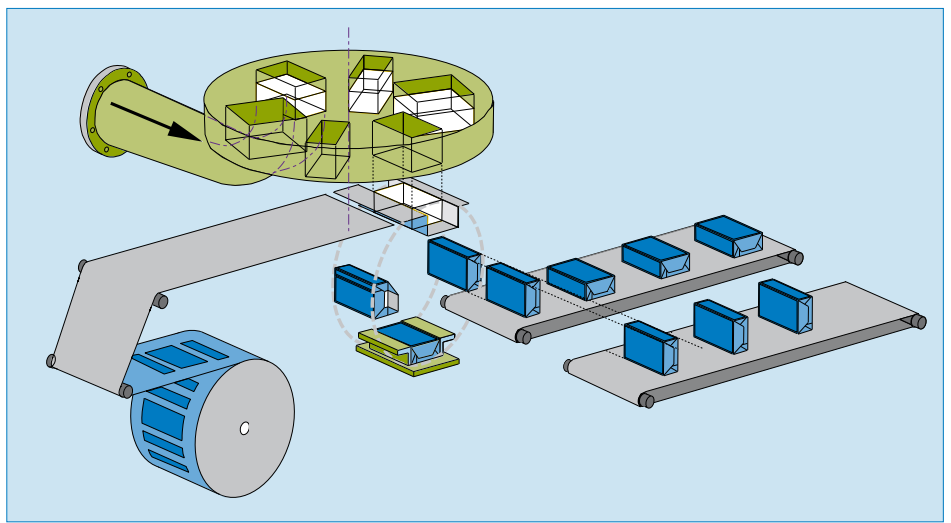
### **Ecopack – all advantages at a glance**

- Excellent filling accuracy
- Extremely gentle product handling
- Very low packaging material consumption due to the end fold style
- Trouble-free handling of wrapping materials with high dead fold such as greaseproof paper or plastic foils (PE, PP, OPP)
- End fold with pressure-sensitive hot melt, for optimum product protection and perfect cartoning (optional)
- Tamper evident closure by hot melt gluing of the end flaps (optional)
- Gentle wrapping material handling
- Product stamping (optional)
- Flexible change-over of packet sizes
- Compact, well arranged design, ensuring easy operation
- Driving elements in closed oil bath for low maintenance
- Closed construction
- Main machine drive in casting, ensuring low-vibration and therefore smooth operation
- Double reel un-winder for quick reel change (optional)
- Electronic control by PLC Siemens S7-300, operation by touch screen panel
- High reliability

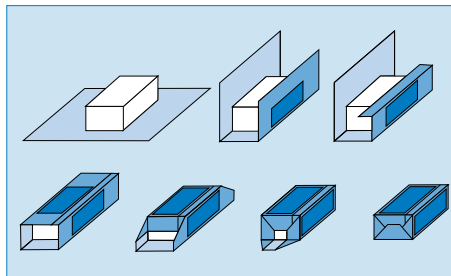




**Butter stamping**



**Function principle**



**End fold style**



**Four pocketed folding wheel**

### **Economical end fold**

This technology allows perfect moulding and packaging, with high weight accuracy, even in case of extremely cold product. Adjustments to compensate for different specific weights can be made either manually or electrically, without stopping the machine. No other folding style is as economical as the end fold. Sharp edged packets can be formed with a minimum of wrapping material.

### **Optimum product protection**

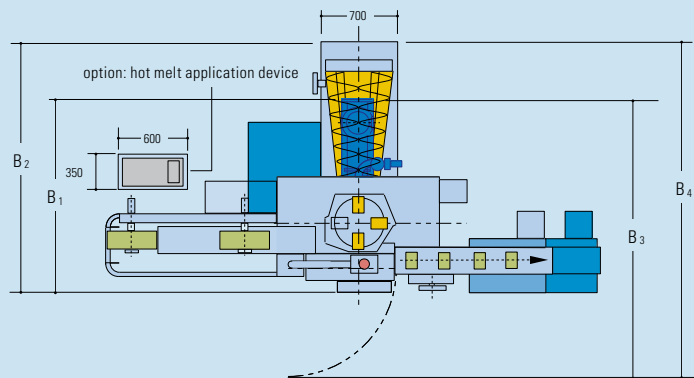
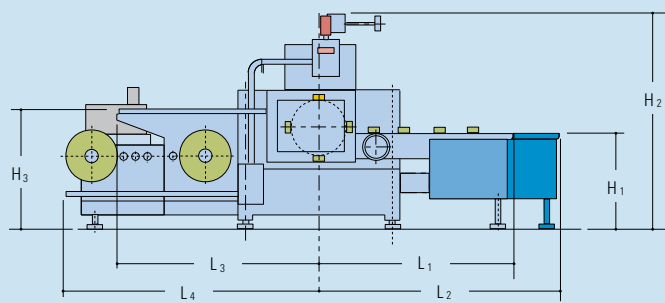
Best product protection is ensured either by means of a simple and effective pressure-sensitive hotmelt application onto the side flaps, or by standard hot melt with perforation for easy opening. Note: Ecopack machines accept all current wrapping material qualities which are used for butter and margarine.

### **Highest flexibility**

Ecopack is most flexible in terms of size change-over: Within minutes, the machine can be changed over to a different packet height or in all three dimensions, for a wide range of weights from 100 g to 500 g, depending on the machine type. An additional unique feature is the Ecopack's ability to stamp your company logo or motif onto the surface of the product, which will remain legible even after the wrapper has been removed, further advertising your product. Smooth, low-vibration and therefore low-noise and low-wear operation are typical features of all Ecopack machines. The clear construction and the ergonomic design which allow easy access to all operation and maintenance components ensure user-friendly machine operation.



**Type FD165 with double reel un-winder**



### Four pocketed folding wheel with working stations

- Receipt of the moulded product block with wrapper in the moving folding chambers
- Folding section to close packets at head sides
- Pressing section
- Ejection onto discharge belt and packet turning

Dimensions	F120	FD120	F140	FD140	FD165
H <sub>1</sub>	830 mm	830 mm	960 mm	960 mm	960 mm
H <sub>2</sub>	1750 mm	1793 mm	1907 mm	2240 mm	2240 mm
H <sub>3</sub>	1048 mm	1048 mm	1178 mm	1178 mm	1178 mm
L <sub>1</sub>	1739 mm	1739 mm	–	–	–
L <sub>2</sub>	–	–	2190 mm	2190 mm	2190 mm
L <sub>3</sub>	1855 mm	1855 mm	1855 mm	1855 mm	1855 mm
L <sub>4</sub>	2306 mm	2306 mm	2306 mm	2306 mm	2306 mm
B <sub>1</sub>	–	1939 mm	–	1939 mm	1939 mm
B <sub>2</sub>	2335 mm	–	2335 mm	–	–
B <sub>3</sub>	–	2676 mm	–	2676 mm	2676 mm
B <sub>4</sub>	3072 mm	–	3072 mm	–	–

Subject to dimensional and technical modification

Technical Details	120	140	165
<b>Fill product</b>			
butter	•	•	•
margarine	•	•	•
lard	o	o	o
mixed edible fats	o	o	o
other pasty products	upon request	upon request	upon request
<b>Filling volume</b> min.	75 cm <sup>3</sup>	90 cm <sup>3</sup>	90 cm <sup>3</sup>
max.	625 cm <sup>3</sup>	625 cm <sup>3</sup>	280 cm <sup>3</sup>
<b>Product feed</b>			
direct feed	FD120	FD140	FD165
trough with feed worms	F120	F140	upon request
<b>Weight adjustment</b>			
manual	•	•	•
by motor	optional	optional	optional
<b>Nominal output</b> up to 250 g	120 p/min	140 p/min	165 p/min
250 g up to 500 g	100 p/min	120 p/min	not available
<b>Packet dimensions</b>			
packet length	65–135 mm	72–140 mm	95–124 mm
packet width	31,5–92 mm	31,4–84 mm	31,5–75 mm
packet height	16–65 mm	16–65 mm	19,5–45 mm
<b>Size change-over</b>			
different packet heights	•	•	•
different footprints	•	•	upon request
<b>Wrapping material</b>			
aluminium – paper compound	•	•	•
aluminium – paper – plastic foil compound	•	•	•
parchment and grease-proof paper	•	•	•
synthetic mono foils	optional	optional	optional
<b>Wrapping material feed</b>			
single reel un-winder	•	•	•
double reel un-winder	optional	optional	optional

Technical Details	120	140	165
<b>Wrapper control</b>			
machine stop at reel end	•	•	•
machine stop if no wrapper available	•	•	•
<b>Print registration</b>			
photoelectrical, with electro-magnetic brake	optional	•	not available
photoelectrical, with servo-motor	not available	not available	•
mechanical	•	not available	not available
<b>Date coding</b>			
pin perforation	optional	optional	optional
hot embossing	optional	optional	optional
inkjet	optional	optional	optional
<b>Packet closure</b>			
pressure-sensitive hot melt	optional	optional	optional
hot melt (tamper evident)	optional	optional	optional
<b>Control</b>			
PLC Siemens	S7-300	S7-300	S7-300
<b>Fault display</b>			
touch screen TP 170B (Siemens)	•	•	•
<b>Power connection</b>			
without hot melt	7,5 KVA	11,5 KVA	8,3 KVA
<b>Compressed air</b>			
for compensating piston	not available	not available	6 bar
<b>Weight</b>			
machine weight	2700 kg	3100 kg	2900 kg

- most suitable resp. standard equipment
- o limited suitability



### OYSTAR Benhil delivery program

- Fully automatic filling and wrapping machines
- Fully automatic tub filling and closing machines
- Cartoners and case packers
- Reconditioned machines
- Auxiliary dairy equipment (Microfix)



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