

Operation

The plastic film is unwound from the reel and warmed up in the heating module; when the preset process temperature has been reached, the film is driven into the moulding zone (positive or negative, depending on the item features) where the shape is formed, by means of vacuum and pressure in succession. After moulding the film goes into the die cutting station, where the shaped item is split from the film and, thereafter, follows to the piling station, ready for collection. The film waste is rewound again for an easy handling.

Features

- ♦ Servomotor-assisted thermoforming station , for an absolute positioning accuracy
- ♦ High speed mould/counter mould ascent and descent
- ♦ Servo motor die-cutting by double action, high precision toggle
- ♦ Operation control of all working parameters by means of PLC
- ♦ User friendly, sliding touch screen interface
- ♦ Internal high speed communication Ethernet network
- ♦ Sturdy and accessible frame which allows for easy and simple maintenance jobs
- ♦ Differential heating system, by means of moving louvers (patented)
- ♦ All sorts of thermoplastics acceptable (PVC, PET, OPS, PP, etc.)
- ♦ Ergonomic design, to minimize operator stress
- ♦ On-line checking by modem (optional)

Technical specifications

TVP-64

TVP-67

Max. web diameter	800 mm	800 mm
Max. sheet width	640 mm	640 mm
Max. sheet thickness	1,5 mm	1,5 mm
Max. thermoforming area	400 x 600 mm	700 x 600 mm
Min. thermoforming area	250 x 350 mm	350 x 350 mm
Max. thermoforming depth in positive	140 mm	140 mm
Max. thermoforming depth in negative	140 mm	140 mm
Vacuum pump flow	100 m ³ /h	2*100 m ³ /h
Upper heater installed power	25,8 kW (1.500 mm)	44.1 kW (2.250 mm)
Lower heater installed power (optional)	21.5 kW	21.5 kW
Cutting tool installed power (optional)	4 kW	5,6 kW
Total installed power	75,85 kW	100.52 kW
Max. die-cutting force	60 Tm	60 Tm
Dry cycle output(1)	40 cycles/min	40 cycles/min
Compressed air working pressure	6 bar	6 bar
Die-cutting automatic setting precision	0,05 mm	0,05 mm
Thermoforming plates drive	Servomotor/toggles	Servomotor/toggles
Die-cutting plates drive	Servomotor/toggles	Servomotor/toggles
Downwards stacking unit	Servomotor	Servomotor
Colour	RAL 9002	RAL 9002
Power Supply	400V +T + N, 50 Hz	400V + T + N, 50 Hz

(1)(2) These figures refer to dry cycle operation and will differ under actual working conditions, depending on the plastic material and process patterns. We will gladly advise on your specific requirements upon request.

Dimensions

TVP-64

TVP-67

Height	2.660 mm	2.660 mm
Frame width	1.750 mm	1.750 mm
Length	9.650 mm	11.850 mm
Approx. weight	4.500 kg	6.500 kg

Options

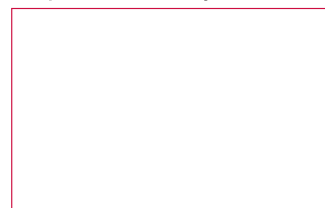
- ♦ Preheaters
- ♦ Film edges heaters
- ♦ Punching station
- ♦ Automatic modules positioning
- ♦ Automatic width setting
- ♦ On-line checking by modem
- ♦ Functional ancillary equipment: chillers, compressors, dryers...
- ♦ Identifying ancillary equipment: markers, coders, labelers...
- ♦ End-of-line automation
- ♦ On-demand customization: product specifications, power supply...

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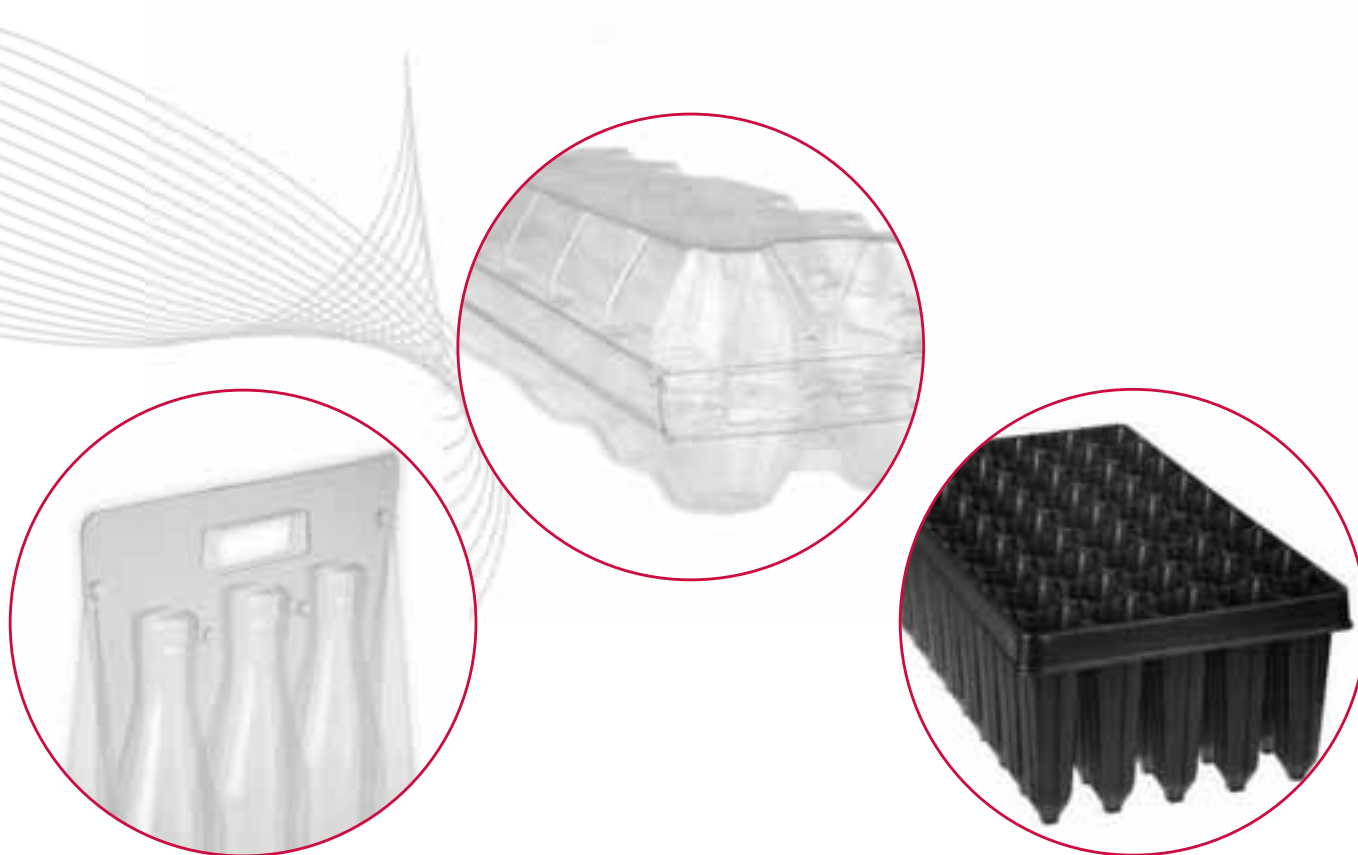
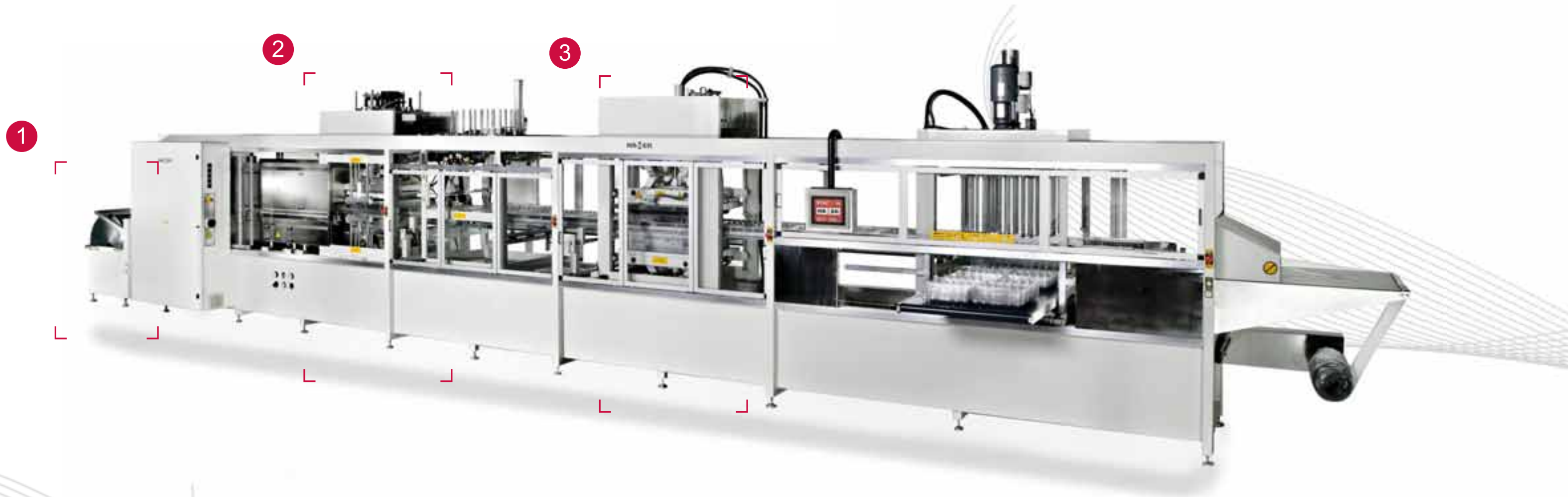
Represented by



TVP-64/67



Fully automatic machines for vacuum and pressure film thermoforming, designed for high throughputs in continuous mode



Bobbin unwinder



Forming station



Die-cutting station