

STAR THERMOFORMERS

**(FLEXIBLE &
RIGID FILM)**



Film width 320 - 360 - 420 - 440 - 460 y 470 mm

Step/index 214 - 225 - 250 - 270 - 300 o 337 mm

Maximum forming depth 120 mm

Packaging systems: Vacuum – MAP, Skin +0, Sealing only

Rigid film up to 400 micron

Flexible film up to 300 micron

Length of loading zone for infeed (214), (6 zones) (1286mm)

Length of loading zone for infeed (225), (5 zones) (1125mm)

Length of loading zone for infeed (250), (5 zones) (1250mm)

Length of loading zone for infeed (270), (4 zones) (1080mm)

Length of loading zone for infeed (300), (4 zones) (1200mm)

Length of loading zone for infeed (300), (3 zones) (1013mm)

Production capacity:

In divisions - X1 up to 8 cycles/minute

In divisions - X2 up to 5 cycles/minute

* Estimated production in the factory, without product and under optimal environmental conditions

GENERAL CHARACTERISTICS

- ✓ 12" colour touch screen
- ✓ Various programmes for different products to be packaged.
- ✓ Incident detection alarms.
- ✓ Anti-condensation heaters in electrical panel
- ✓ Counter of good packages.
- ✓ Negative counter of bad packs.
- ✓ Speed of cycles per minute.
- ✓ On-screen menu for the operator.
- ✓ On-screen menu for maintenance personnel.
- ✓ Scrap breakage detector.
- ✓ Vacuum test.
- ✓ Cycle end on the step or package.
- ✓ Main switch and cable identification according to CE standards.
- ✓ Vacuum by millibars and time.
- ✓ Chain progress with normal start at stop, slow, and very slow start and stop for liquids.
- ✓ Split step for x1 x2 x3 x4 and asymmetrical chain feeds.
- ✓ Chain feed with different speeds.
- ✓ Selection of the number of steps per each drive pulse.

- ✓ Push button for manual entry of the bottom film by pulses or in continuous mode.
- ✓ Nickel-plated chains with stainless steel clips and springs.
- ✓ Hinges for tilting die with hinged swinging tool.
- ✓ Servo-driven chains.
- ✓ Upper reel max. diameter 350 mm (standard).
- ✓ Lower reel max. diameter 400 mm (standard)
- ✓ Reel holder adapted to 76mm/3" core.
- ✓ Motorised top and bottom reels.
- ✓ Upper and lower reel holder with side adjustment.
- ✓ Direct vacuum in the package.
- ✓ Cylinder-activated welding with air pressure.
- ✓ Easy-to-change welding frame - sealing grid.
- ✓ Height-adjustable roller belt for containers discharge.
- ✓ Regulated ventilation in vacuum and forming dies.
- ✓ Trims evacuation by motor-drum motors.
- ✓ Cleaning of scraps jammed in the return chain.
- ✓ Crossed cutting.
- ✓ Longitudinal cutting.
- ✓ Thermoforming by compressed air.
- ✓ Loading area with supports for light containers.
- ✓ Easy mould change.

- ✓ Strong and robust frame in stainless steel and hygienic design.
- ✓ Easy-access side gates for maintenance.
- ✓ Level and height adjustment feet.
- ✓ Water cooling system.
- ✓ Water circuit with drain valve for mould change.
- ✓ Tank with compressed air reservoir.
- ✓ Lifting of lasts by cylinder-operated levers.
- ✓ Machine designed for fast and easy maintenance.
- ✓ Ip65 watertight main switchboard, with separate electronics and pneumatics.
- ✓ Safety protections according to CE regulations.
- ✓ Safety protections in stainless steel.
- ✓ Noise mufflers in compressed air.
- ✓ Adjustment of the closing of the stations by regulators.
- ✓ Purifying filter of compressed air.
- ✓ Cleaning programme which closes the stations.
- ✓ Remote control via the Internet for technical assistance.

MACHINE OPTIONS

- ✓ Photocell for printed film.
- ✓ Gas insert through injectin canulae.
- ✓ Motorised conveyor belt adjustable in height.
- ✓ Rigid cuttin with rounded corners.
- ✓ Mixed combination for rigid and flexible cutting.
- ✓ 250 o 360 m³ vacuum pumps.
- ✓ 500 m³ vacuum pump.
- ✓ Skin + 0.
- ✓ Chains self-lubrication system.
- ✓ Special thermoforming depth up to 220mm.
- ✓ Supports for heavy containers manually adjustable in height.

- ✓ Easy-open skin station
- ✓ Water cooling system 4,7 kw.
- ✓ Bench for external pump.
- ✓ Liquid decanter before the pumps.
- ✓ Reel core adapter for 150mm (6")
- ✓ Wheels for easy transportation of the machine.
- ✓ Hinged top dies.
- ✓ Trims aspiration system.
- ✓ Connection signals for auxiliary equipment.

PACKAGING OPTIONS

- ✓ Easy-open.
- ✓ Flap for the packages.
- ✓ Perimetral sealing plate.
- ✓ Total surface sealing plate.
- ✓ Euroslot.
- ✓ Solidwork design.
- ✓ Fillers for adjusting different forming heights.
- ✓ Smooth welding line.
- ✓ Grid welding line.
- ✓ Smooth total welding.
- ✓ Isopack smooth welding.
- ✓ Isopack grid welding.

TECHNICAL FEATURES

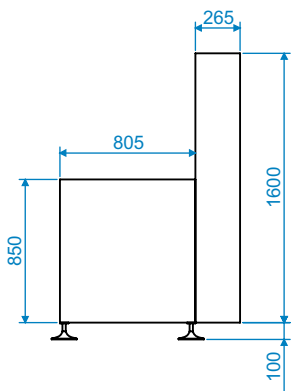
- ✓ Approximate total width 930mm.
- ✓ Total length 3797mm.
- ✓ Total height from 1700 to 1800mm.
- ✓ Approximate weight of 1600 kg.

- ✓ Electrical connection (5 poles) - (3 phases + n+ t)
- ✓ Max. electrical output depending on equipment.

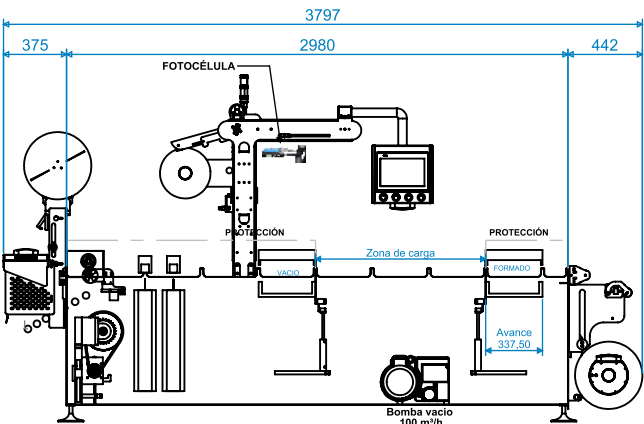
- ✓ Air consumption of 500-1000litres/min, maintaining 6 bars of pressure.

DIMENSIONS

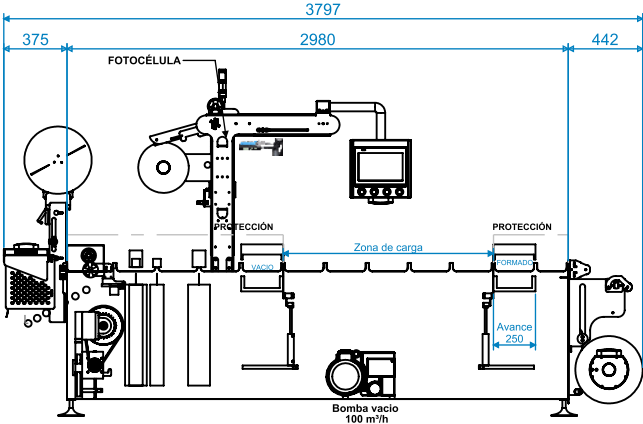
Total length: 3795mm
Total width: 1065mm
Total height: 1800mm



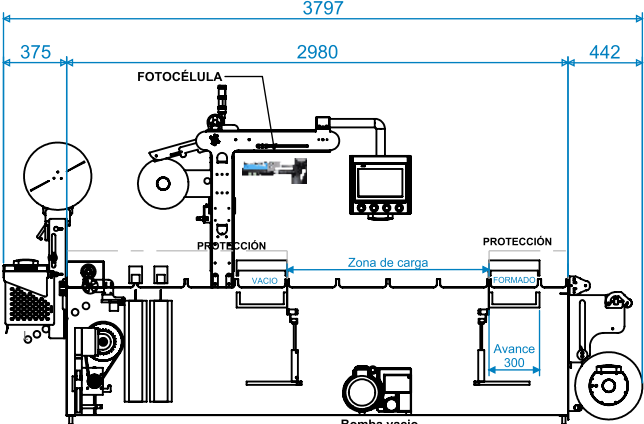
MODEL : TFF XXX-337 STAR



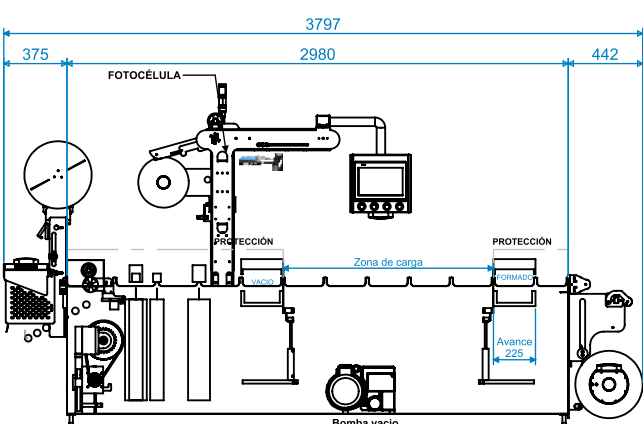
MODEL : TFF XXX-250 STAR



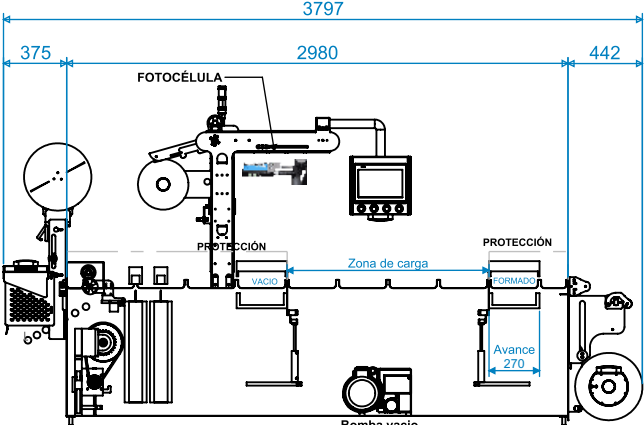
MODEL : TFF XXX-300 STAR



MODEL : TFF XXX-225 STAR



MODEL : TFF XXX-270 STAR



MODEL : TFF XXX-214.28 STAR

