WM Thermoforming Machines

Moved by Passion

SERIES FT 500/700/900

IN-MOULD TRIMMING WITH LOWER TILTING PLATEN

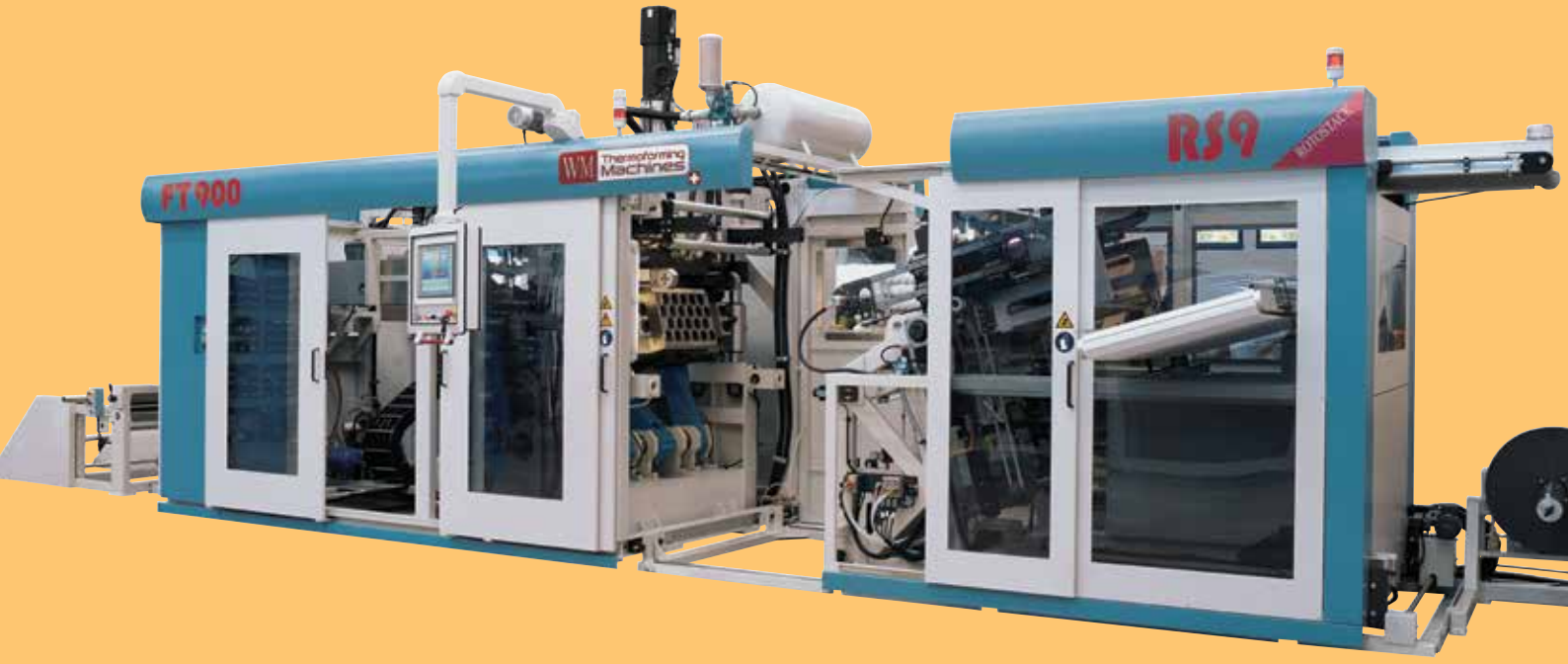
ENGLISH

FT series

The FT thermoforming series is a pressure forming-punch and die machine with a lower tilting platen designed to fulfill the customer's demand for medium and high production of disposable cups, dairy containers and tubs that require close cutting tolerance, high product quality, fully automated processe.

A wide range of mold dimensions and different stacking solutions cover the different market requirements.

Do it right the first time!



gelkreise genutzt
Nature-like
protection
CRAIN

Investment means value:

- ✓ Constant quality, high performance and rationalized material utilization
- ✓ MLS System (machine Learning System) for initial self-setting of the cycle parameters
- ✓ Higher clamping force insuring more cavities for pet and pp materials
- ✓ Universal stacker enables easy automatic handling of light and shallow products to the packaging machine
- ✓ Hygienic production as the stacking system is not using any brushes or rubber material
- ✓ Integrated cooling system with temperature monitoring to insure a stable and safe process
- ✓ Easy operation and maintenance

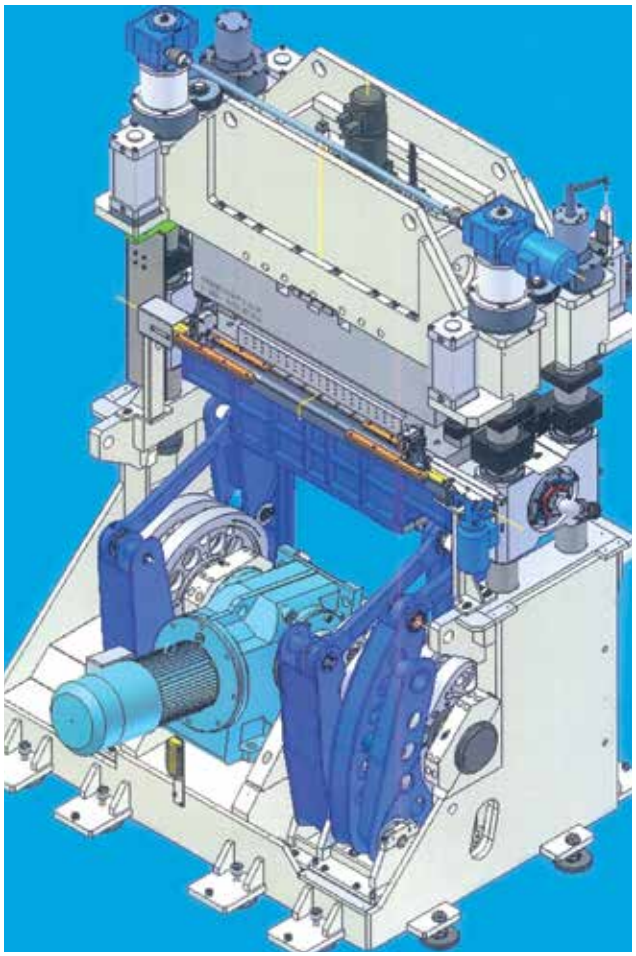
FT model

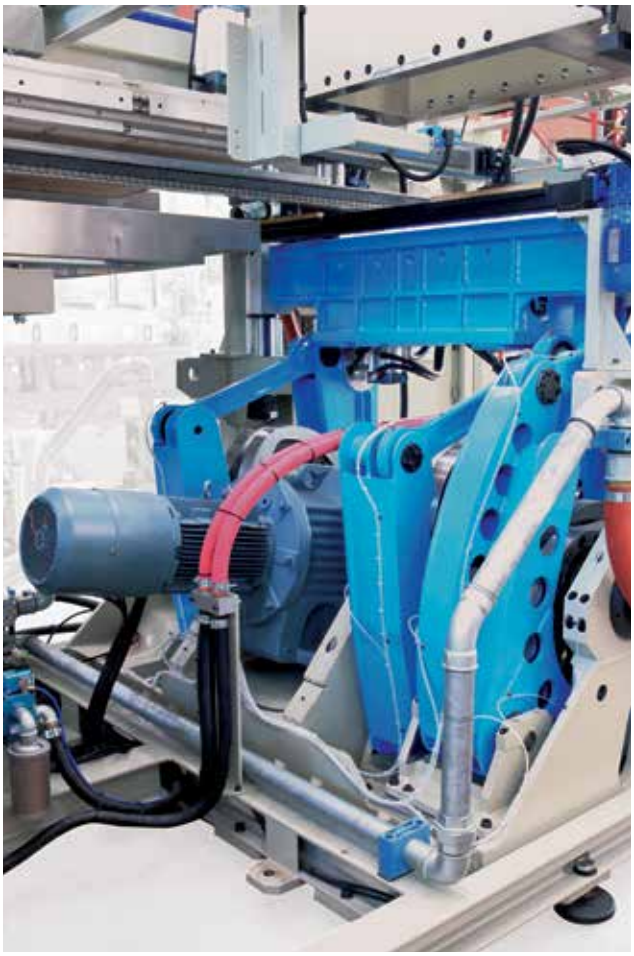
		FT 500	FT 700	FT 900
Max sheet width	mm	620	750	930
Max mould size	mm	570x375	705x400	880x520
Max cutting dimension	mm	550x320	685x340	860x460
Max negative depth	mm	150	150	150 (180)
Clamping force	daN	30.000	40.000	75.000

Stacker

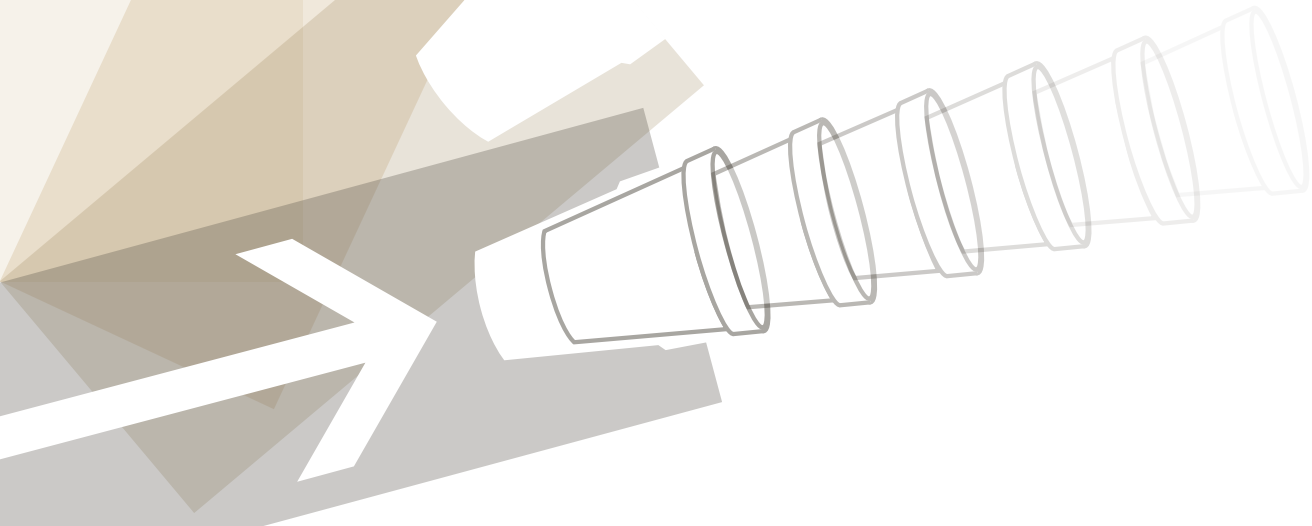
MSv 7-9		✓	✓	✓
RS 7-9		✓	✓	✓
BS 7-9	H ≥ Ø	✓	✓	✓
ES 7		✓	✓	

FT Lower platen tilting group: the heart of the system

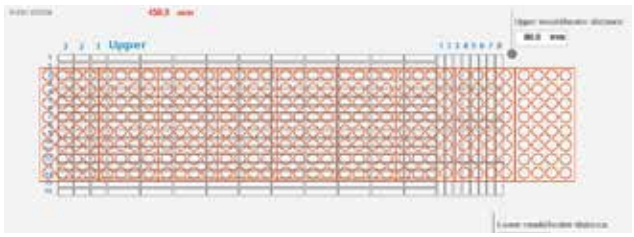




- The lower tilting platen rotates 75 degrees permitting precise and rapid ejection of the produced pieces, which then are being transported to the stacking unit
- Robust and high precision motion control
- Reduced acceleration and deceleration guaranteeing very smooth motion
- Guaranteed parallelism
- Extended lifetime of the cutting components contributes to improved machine utilization and stable process.



FT process efficiency increases productivity



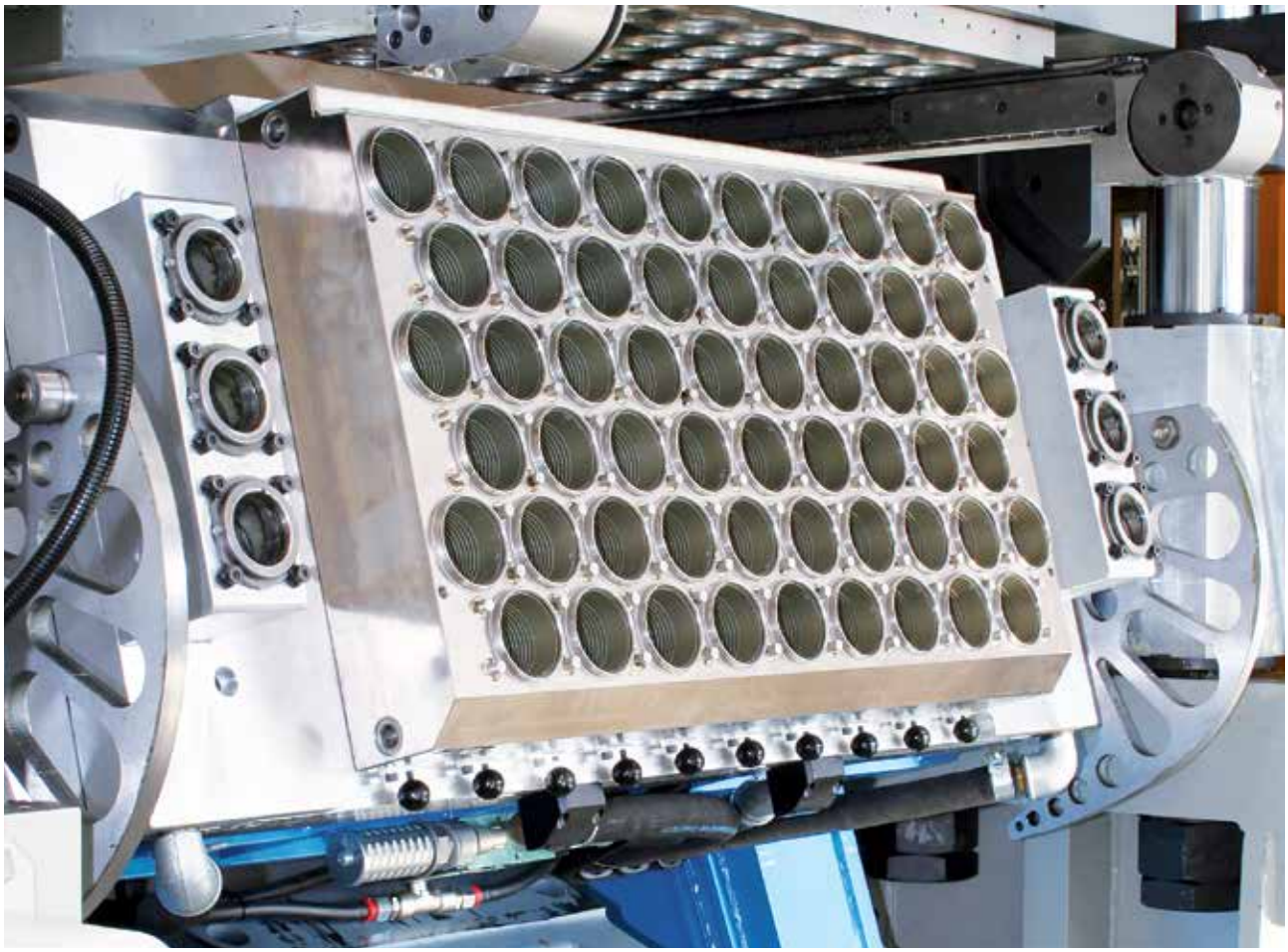
Infrared heaters

- On-OFF function of the first rows for exact setting of the multiple heating index calculated by the mLS system
- Longitudinal and transversal temperature controllers to optimize the real sheet temperature
- Pyrometer for sheet temperature reading and temperature adjustment in closed loop
- Bank heaters length is seven times the maximum pitch of the mould in order to guarantee a homogeneous sheet temperature

New plug movement

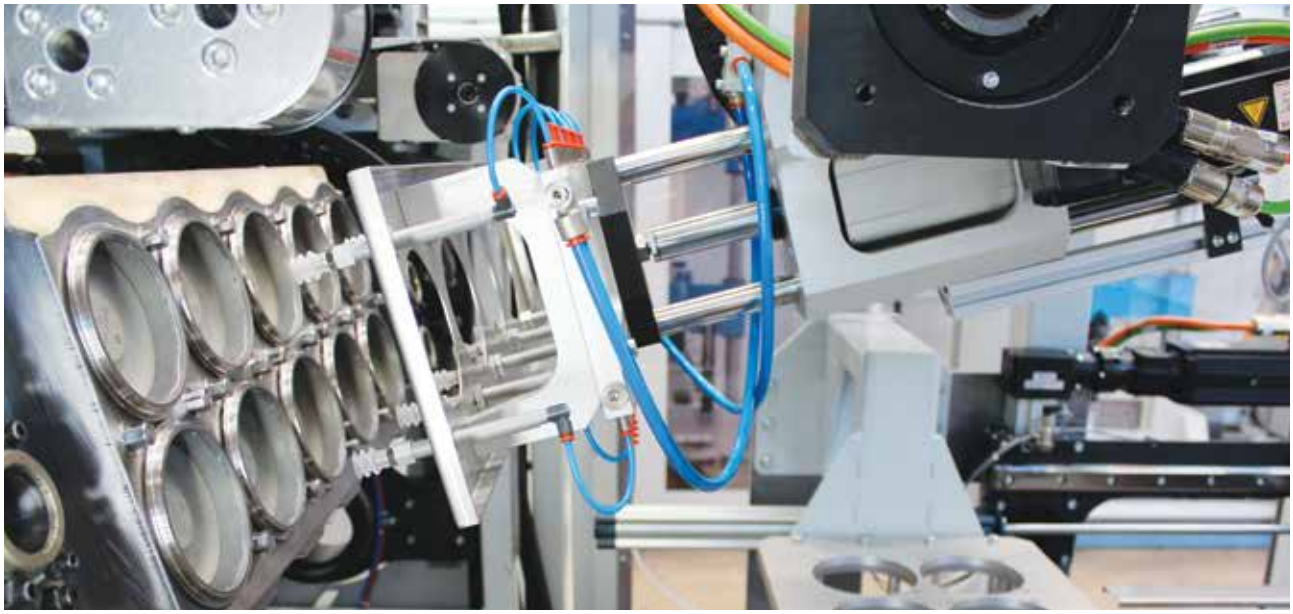
Improved forming force and higher speed provides better distribution of the material inside the mould cavity.

- No plug marks and better transparency
- Better mechanical characteristics
- Higher sheet thickness possible




FT 500

Integrated stacking systems achieves best quality and high performance in relation to the product shape



MSv - Multi Stacker

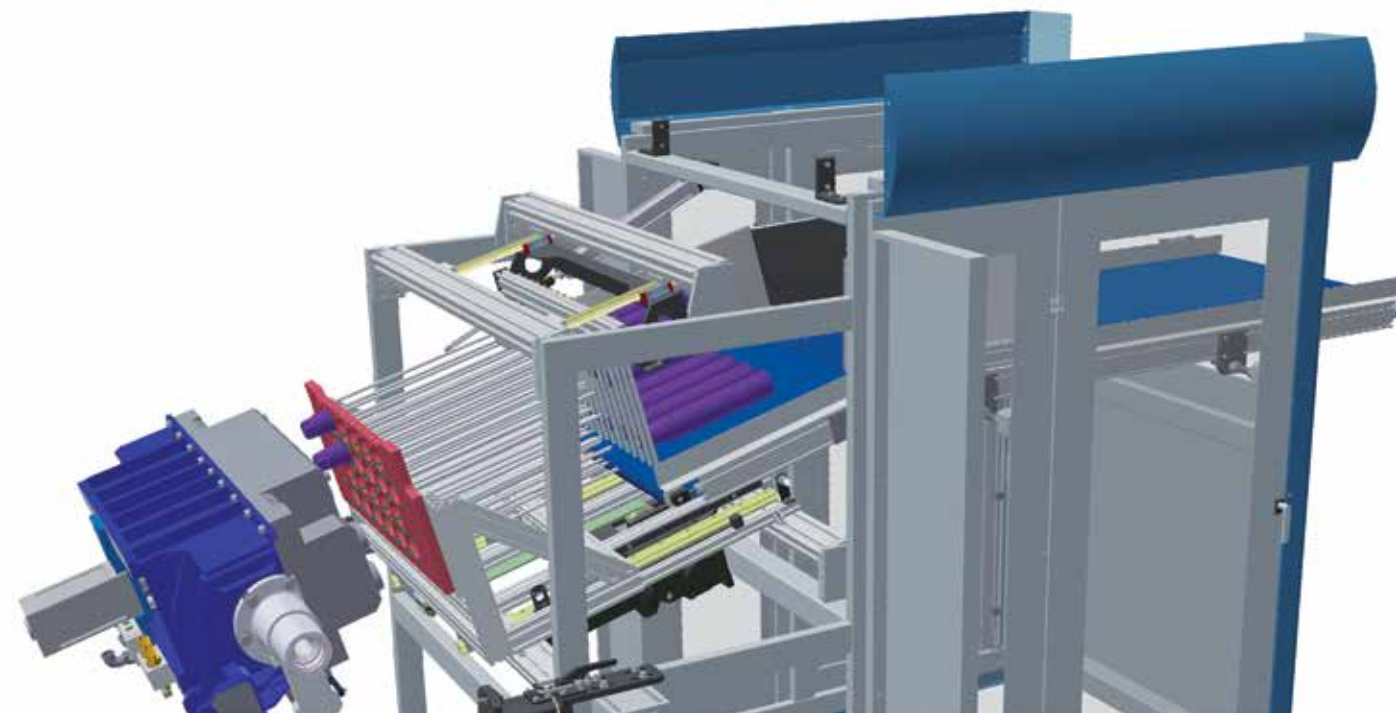
The product is taken gently from the mold by the catching plate, and subsequently vertically stacks, counts and placed in an accumulator basket without mechanical catcher. Once counted, the pieces are progressively discharged on a conveyor belt row by row for subsequent operations. the mSv model is absolutely the most flexible and complete automatic stacker possible to handle shallow and very light products.

RS - Rotating Stacker

The rotating catching plate takes the product gently from the mould and rotates 180 degrees to stack the product on a casing basket trough a mechanical catcher. Once counted, the pieces progressively are discharged, row by row on a conveyor belt for the subsequent operations. The RS model is a very flexible stacker enabling to stack irregular or none conical shaped products.

BS - Blow Stacker

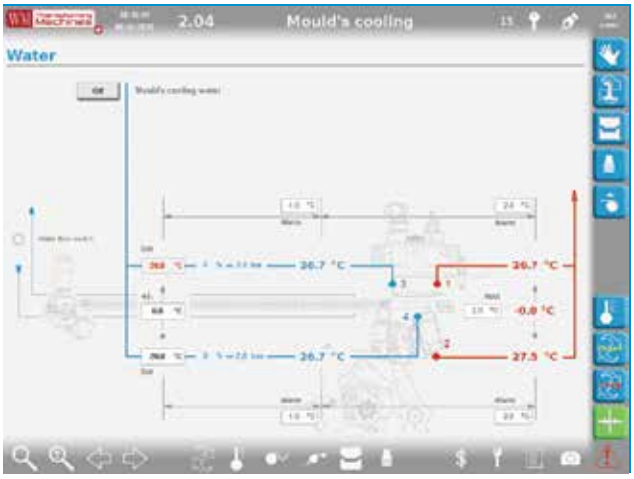
Formed conical products (e.g. drinking cups) are ejected from the lower mold half and then are blown into bent channels by means of compressed air. the pieces are then sent to the final stacking and piling zone for counting and discharging.

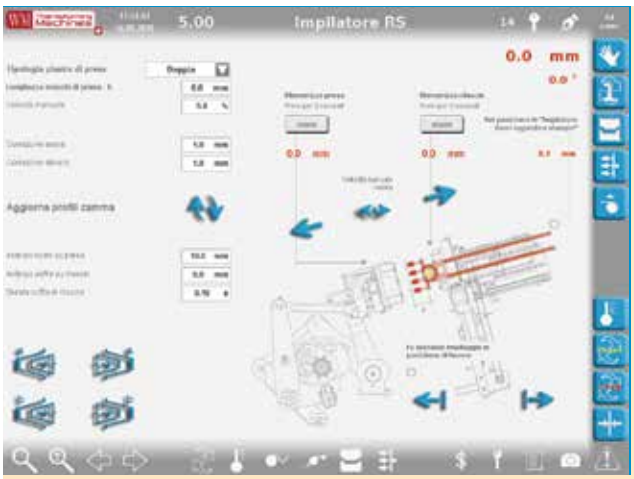


ES - Easy Stacker

Formed products are ejected from the lower mold half prior to stacking in a casing basket.
Once counted, the pieces are discharged in a conveyor belt. Subsequently the operator can collect and pack the products manually.

Latest generation of drives and control system





- ✓ The system is based on extremely reliable and well tested B&r industrial PC and Drives
- ✓ Compact touch screen
- ✓ High speed data exchange to optimize at the best cycle times
- ✓ MLS System (machine Learning System) for initial self-setting of the cycle parameters to be able to optimize machine sequencing and increase machine output and product quality
- ✓ Program for mould change
- ✓ Cutting force monitoring
- ✓ Energy recovery
- ✓ Ceramic heating elements with individual temperature controllers for precise setting
- ✓ Energy consumption and driver analysis
- ✓ High speed modem connection in order to facilitate technical aftersales support.

FT for the IN-LINE thermoforming plant for PP disposable cups

All FT machines can be supplied as an in-Line series, forming a real “production island” starting from the raw material up to the finished product, including the IN-LINE recycling of the granulated scrap.

The IN-LINE version guarantees a high performance system in terms of production speed, management, savings and the best conditions for hygienic food packaging production.

Rim Rolling machine B 1400

Designed and manufactured
to rim up to 200.000 cups/hour
in PP, PS and PET.

The technical data and the pictures present on this brochure have merely explanatory and indicative purpose. They must be considered as approximate and not binding. The configurations of the machines shown may include optional equipment.

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