

## TDF 1650 - 1900 - 2200

Brand new and revolutionary fully automatic Tray sealer TDF series: for the packaging of plastic, cartoboard & aluminum preformed trays, with on-reel plastic films lids, carton lids & reclosing cap application option. Machine frame completely realized in stainless steel: metal sheets obtained by laser cutting, electrically welded holding elements.

MAXIMUM SIZE DIMENSIONS						
TDF 1650						
TDF 1650-D						
TDF 1900						
TDF 1900-D						
TDF 2200						
TDF 2200-D						

## HIGHLIGHTS

**INLET BELT** Servomotor controlled positioning system, for trays correct positioning at machine entrance. Made of stainless steel, it is equipped with fast removal unlock system, to ease cleaning operations: no tools needed for belt handling.

**PUSHER GROUP** Moved by nr. 2 Servomotors controlled by electronic cam for trays taking, their positioning under the sealing mould and discharge of sealed trays. Their motor is positioned inside the machine cabinet.

**SEALING STATION** Servomotor controlled lifting mechanism of the sealing station, this is managed by the same cam used for the pushers. Sealing strength to be set on the HMI.

**SCRAPS REWINDER** with pneumatic expansion and increased stroke, to allow the scraps rewinding on both carton or directly on the roll. The group is controlled by clutch with adjustable strength to adapt it to every kind of film. The motor is positioned inside the electrical cabinet.

**NEW USER-FRIENDLY HMI** which allows an easier access to all machine functions, by simplifying the settings, the machine activation and system check.

**BRUSHLESS MOTORS** All machine motion controlled by brushless motors. These, through an electronic cams connection of the moving components, allow more flexibility in terms of films used and speed control, according to the products to be packed.

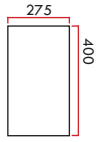
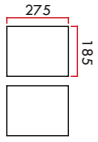
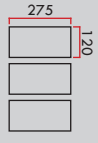
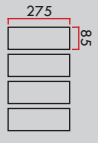
**HYGIENICAL FEATURES** Sloping machine surfaces, TIG continuous welding and motors strategically protected and positioned, will grant the highest hygiene levels!

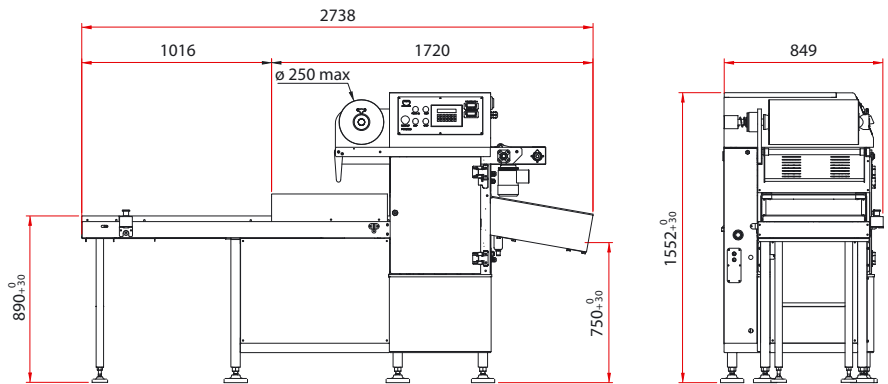
**EXTREME ENERGY SAVING** the configuration with shared DC BUS allows the energy exchange between the axis, reducing the energy wasting caused by the dynamic braking resistances. This will sensibly reduce (down to 40%!) the amount of energy required. (KERS - Kinetic Energy Recovery System).



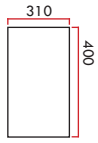
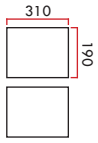
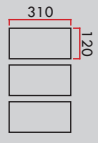
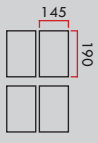


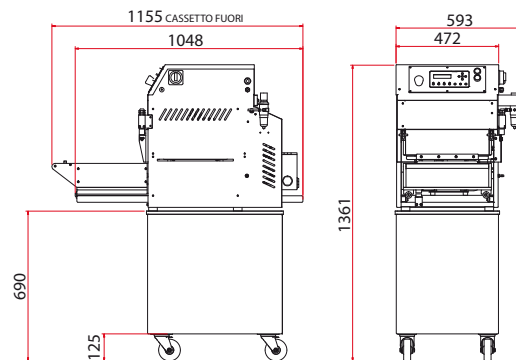
Automatic traysealing machine mod.  
TDF1000 E for medium production outputs,  
only sealing or MAP packaging options.

MAXIMUM SIZE DIMENSIONS		
TDF 1000 E		
		



Semi-Automatic tray sealing machine mod.  
TDF500 for small production outputs, only  
sealing or MAP packaging options.

MAXIMUM SIZE DIMENSIONS		
TDF500		
		





**ROBOT PICK & PLACE**



**DICED PRODUCTS DOSING SYSTEM**



**SAUCES DOSING SYSTEMS**



**HEATED DIE SET TROLLEY**



**LID APPLICATOR**



**TRAY DE-NESTING SYSTEM**



**MULTIPLE DE-NESTING SYSTEM**

## ACCESSORIES

- ALIGNING SYSTEMS
- AUTOMATIC LOADING SYSTEM FOR PRODUCTS
- CHECKWEIGHERS
- SYNCHRONIZATION UNIT BETWEEN DOSER AND MACHINE
- DOSING UNIT MONOPORTION BUTTER
- DOSING UNIT FOR LIQUID AND CREAMY PRODUCTS
- LABELLERS
- HOTFOIL/ INK-JET/THERMAL TRANSFER PRINTER
- METAL DETECTOR AND XRAY CONTROL
- AUTOMATIC WEIGHER DOSING UNIT
- BOOSTER VACUUM PUMP
- TWIN-REEL HOLDERS
- COOLING SYSTEM WITH CHILLER
- AUTOMATIC LID POSITIONING SYSTEM
- PICK & PLACE LOADING SYSTEM
- AUTOMATIC BAD PRODUCT DISCHARGE
- ROBOT LOADING SYSTEM