TR200
BLISTER PACKAGING MACHINES
TR200 is an extremely versatile, medium production speed blister packaging machine that was designed for production cycles that require frequent size changeovers.

All types of packaging materials can be used. Its compact design and balcony-type structure make it extremely accessible, easy to use and allows a full view of the entire production cycle.

Conforming to GMP principles and guidelines, the TR200 machine cables and other connections are housed inside the machine structure. There are no lubricated mechanical parts situated above the formed material area; electric motors are within the machine frame and all of the external surfaces of the machine are smooth.

The TR200 has the best product price/performance/quality ratio in its product category and is perfect for producing both large and small batches.

Size changeover times are quick due to the limited number of parts and user-friendly, error-free operations.
FORMING

The heating station, fitted with large surface plates, allows the processing of all types of packaging materials. The forming station makes use of small sized plates that work at high speeds to form the pre-heated material under the best conditions and at the maximum pocket depth.

Reliable cleaning is ensured due to the absence of lubricated parts.

Forming pistons are used for certain types of packaging materials when specific minimum pockets thicknesses are required.

The forming film is automatically aligned due to a patented system.

- **Balcony-type structure conforming to GMP: excellent operator access to work area**
- **Minimal overall dimensions (footprint)**
- **Maximum productivity: able to produce blisters on multi-row**
- **Designed to ensure ease of use and cleaning**
- **Allows frequent size changeovers which are simple and quick**
- **High production efficiency**
- **Low energy consumption**
- **Minimum material waste**
FEEDING

The feeding unit is separated from the other work areas of the machine to eliminate any contamination issues and is synchronized with the continuous motion of the formed film which facilitates its efficiency. This unit is capable of automatically feeding hard or soft-gelatin capsules, oval or round pills and any type of tablet. Optional feeding units may be installed through simple operations and without the need of tools.

IMA feeding systems are designed as the result of 50 years’ experience in the blister packaging industry and obtain a filling efficiency of 99.9%.

A specific IMA Safe department is dedicated to product feeding solutions and includes several test rooms conforming to the GMP guidelines for product feeding under controlled environmental conditions. Solutions are based on each unique product.

All IMA feeding systems feature:
- No operator assistance
- Wide feeding bowls for maximum feeding performance
- Continuous web motion
- Easy integration of multiple product feeding systems.

FROM SEALING TO CUTTING

IMA's roller-sealing technology ensure that all materials are strictly controlled in terms of heat, time and pressure used for the sealing process.

The Roller's special grid surface allows for an even seal around the pocket and on the entire blister surface. Moreover, continuous-motion sealing improves the efficiency of the camera check system because the product is not "shaken" as it is with alternate sealing systems. The sealing unit itself is very easy to clean.

Blister coding/perforation/hot-scoring units are integrated and fit easily into this zone of the machine.

The highly efficient system to place the web inside the cutting die allows continuity with all types of packaging materials and the highly accurate system does not produce any intermediate waste.

OPERATOR INTERFACE

A Computer touch screen, with colour monitor and graphical representation, enables easy and intuitive management of the machine’s production and status. Production statistics, trouble shooting, including changeover instructions, maintenance and manuals can also be obtained through the HMI screen. Production data can be shown according to Din 8743. IMA Safe can also supply the high-resolution Antares vision system (CAMERA, OCV, OCR) which is completely integrated into the single HMI. The Antares System uses high performance easy-to-learn, easy-to-use software, which also allows for new products to be inserted in its system without the need for outside assistance.
SIZE PARTS

IMA size parts are fully tested before being sent to the customer, which ensures that production can start immediately.

Originally manufactured size parts allow IMA machines to work at their highest production efficiency. Size parts are designed with a combination of detailed technical knowledge and practical know-how.

SIZE CHANGEOVER AND CLEANING

In the TR200, changeovers and routine cleaning operations are very easy and fast due to the machine’s dimensions, accessibility, simple parts in fixed positions and digital indicators. There are very few size parts, all of which are small and light-weight, and can be replaced without the use of tools. The complete size changeover is carried out through a sequence of simple preset user-friendly procedures without having to go through micro-adjustments.

DEEP-CLEANING

The TR200 is unique among the machines of its category range because thorough cleaning can be done very easily and quickly. In fact, the operator can access the entire machine due to the fact that the safety guards and the surface that separates the feeding area from the rest of the machine can be quickly and completely removed. When dealing with thorough cleaning procedures and the need to eliminate product cross-contamination, the TR200 achieves the highest standards.

- Detailed experience with all types of packaging materials
- Detailed knowledge of the customer’s particular machine configuration
- Design and drawing systems based on the technical parameters of each machine model.
SPARE PARTS
The use of original spare parts is essential to guaranteeing perfect machine working order and providing full production efficiency.

Spare parts can be ordered from IMA directly or via the MyIMA e-commerce system and shipped to you within 24-36 hours.

IMA UNDERSTANDS THE NEED FOR EXCELLENT SERVICE AROUND THE WORLD

- Present in over 70 countries
- 10 branches providing sales and service
- More than 50 representing agencies
- 90 technicians from Italy supplying worldwide service
- 50 technicians from local subsidiaries and agencies
- 11 after sales supervisors

IMA SAFE provides prompt and effective technical assistance which covers the entire life cycle of its equipment. This assistance is provided by a dedicated team of experts able to meet our client’s needs on a day to day basis. A customer oriented after sales service staff is what distinguishes IMA from the other manufacturers.
The connection of the TR200 with both IMA cartoning machines and other machines on the market, is intrinsic to its design and results in compact systems not requiring any specific blister-aligning devices.

### Optional Units

All the optional units are very easy to install.

- Product manual feeding with extended table
- Manual packaging of stacked blisters through specific table
- Aclar® or PP forming pistons
- Centralized suction unit for powders and heating/sealing fumes
- Containment solutions for operator/product safety available even for multi-product feeding systems
- Closed circuit cooling unit
- 21CFR part 11
- Increased forming material reel-holder
- Product elevators
- Possibility of fixed or adjustable thermoformed film guides
- Size changeover guide in the HMI
- Photographic diagnostics in the HMI
- Customized operator training packages
- Specific connections to wallet machines
- Track & Trace solutions

### Technical Data

#### Blister Dimensions

<table>
<thead>
<tr>
<th>Width</th>
<th>30-88 mm</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
<td>60-200 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>3-12 mm</td>
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</tbody>
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#### Production Output

Up to 350 blister/min

- **Forming materials**
  - Alu, PP, PVC, PVC/PVDC, PVC/Aclar®, PET, COC and other.

- **Lidding materials**
  - Alu-Hard, Alu-Soft, Alu/Paper, Alu/Polyester, PP and other.
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IMA S.p.A. reserves the right to make any changes to the described machine characteristics.

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