

# UNIVERSA

TISSUE WRAPPER



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## GET THE BEST OF THE WRAPPING TECHNOLOGIES.

UNIVERSA is the automatic wrapping machine for bathroom tissue and household towel rolls that joins the maximum flexibility and versatility with high production performance and ease of use. Following the converters of tissue products, UNIVERSA can wrap single, double and triple layer packs at high speed (up to 200 packs per minute), with rolls placed both in horizontal and in vertical position. It can also pack single bathroom tissue or household towel rolls up to 50-60 Bathroom Towels (BRT) rolls and 20 House Hold Towels (HHT) rolls pack configurations.



### HIGHLIGHTS

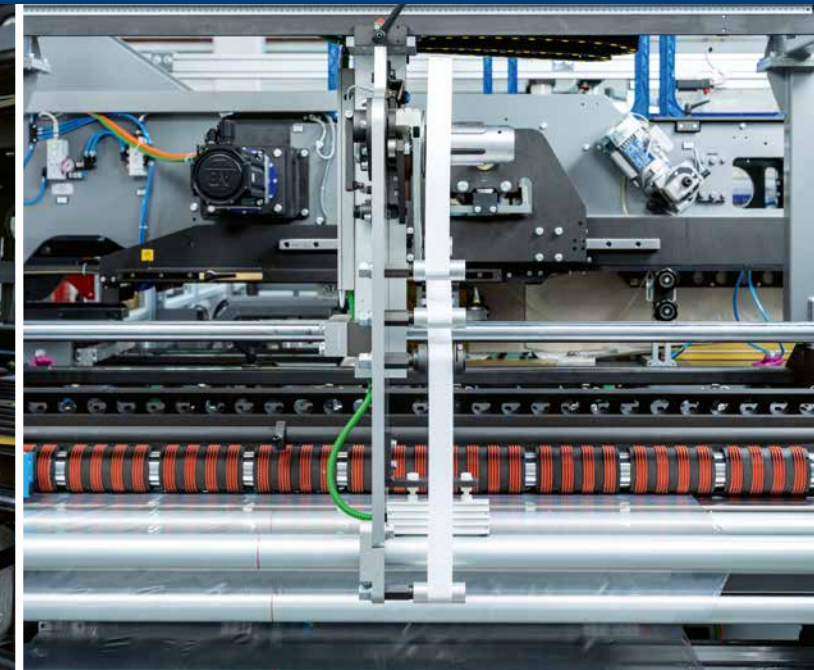
- WRAPS UP TO 200 PACKS PER MINUTE IN MULTIPLE FORMATS: SINGLE, DOUBLE AND TRIPLE LAYER PACKS
- CAPABLE TO PROCESS NO-PLASTIC MATERIALS
- AUTOMATIC SPEED CONTROL ACCORDING TO THE PRODUCT'S FLOW
- EXCELLENT SIDE FOLDING THANKS TO THE HYBRID FOLDING SYSTEM
- FAST CHANGEOVER
- COMPACT FOOTPRINT

### PRODUCT OUTPUT





# HIGHLIGHTS



## PRODUCT INFEEED CONVEYOR

The infeed conveyor is made of four lanes to bring the rolls coming from the upstream line to the Doser section. The group includes a series of photo-eyes for rolls accumulation control, enabling the machine to run and change the speed according to the product's flow.

- Robust structure in aluminum profiles.
- Speed controlled by inverter, to balance automatically the rolls feeding according to the machine's speed.
- Pivoting guides anchored to Doser Belt.
- Articulated guides for easier alignment with the upstream conveyors' guides.

## ELEVATOR STRATIFIER STACKING UNIT

The Rolls Stratifier group is automatically activated when a multi-layer pack is selected on the machine control panel. The up/down movement occurs at every machine cycle, releasing one product layer at the upper level and the other layer at the bottom level.

- Direct drive with an independent servo motor.
- Possibility to use a twin bar to ensure a smooth passage of the product from the Stratifier to the Double Bar section.

## FOLDERS

In the Folding Station, the motion profile is optimized according to the pack configuration to get the best folds of the packaging material around the rolls.

Universa's bottom folder with belts work in counter phase; its HYBRID FOLDING SYSTEM combines the mechanical and air-blows concept, in order to ensure the best quality of the side folding. The universal side folding permits to run both single and double layer horizontal pack configurations, without changing machine parts and with a significant reduction in changeover times.

## REEL INFEEED

The Reel Unwinding unit, film cutting and feeding system work along in perfect synchrony; they are able to unwind and pre-perforate the packaging material, according to the product dimension, and then place it exactly in the middle of the wrapping area.

These groups are completely controlled by four servo motors. An eye spot mark registration controls precisely the correct position of the print on the package.

The cutting blades are designed with the new click'n'cut cartridge concept, allowing quick change.

The reel width goes up to 1800 mm, with shaft or shaft-less system.

## IMA NOP: SUSTAINABLE SOLUTIONS FOR PACKAGING.

IMA NOP stands for the IMA's No-Plastic program and is part of the IMA ZERO Project, which is the Group's commitment in reducing the carbon footprint and the use of plastic in packaging. Some extremely innovative solutions have already been developed, in collaboration with the major players on the market, thus anticipating the needs of the reference customers. IMA promotes a sustainable future, because our commitment today will help to shape the world of tomorrow.

As a multi-material wrapper, UNIVERSA has the ability to treat **polyethylene, polypropylene and paper, either foldable or heat-sealable**, bringing to the market new products packed with eco-sustainable materials in response to a demand for increasingly "green" products.



## IMA SENTINEL: EFFICIENCY AT HAND

UNIVERSA is IMA SENTINEL ready, the open platform to monitor autonomously machine conditions in real-time 24/7. Thanks to IMA Sentinel is now possible to collect raw data and translate them into **meaningful and valuable information** providing:

- **Intelligent and dynamic action list** for the operator to help improve efficiency;
- **Machine data statistics** for smart line harmonization;
- **Real average performance** for accurate production planning. SENTINEL can dialogue with all ERP and MES systems and receive and analyze data from all PLCs.

IMA Sentinel is an IMA Digital project.





SALES AND SERVICES



A PROACTIVE OPERATIONAL APPROACH, HIGH QUALITY ADVICE AND TIMELY RESPONSES TO PROVIDE SPECIFIC SOLUTIONS FOR EVERY NEED IN ORDER TO OPTIMIZE CUSTOMER INVESTMENTS.

SERVICE

Throughout the entire equipment lifecycle, **TMC** guarantees on-site technical assistance to ensure maximum uptime thus safeguarding productivity. From the design phase onwards, for line both turnkey solutions and single machines, TMC believes that working together with each customer leads to the very best solutions, always tailored to real, closely evaluated situations.

SPARE PARTS

The supply of TMC original spare parts is ensured thanks to the collaboration of **AMS**, overseeing the complete traceability of the supply chain, ensuring the reliability and continuity of system operations.

Our expertise allows us to provide personalized spare part lists in order to plan the periodical replacement of parts subject to wear, managing the entire life cycle of the spare parts. Our warehouses in Brazil, United States and Mexico can guarantee delivery within 24 hours of all spare parts available in stock in each area. We are also present in Asia and Africa with our Area Managers and a dedicated network of agents.

OEE CONSULTING

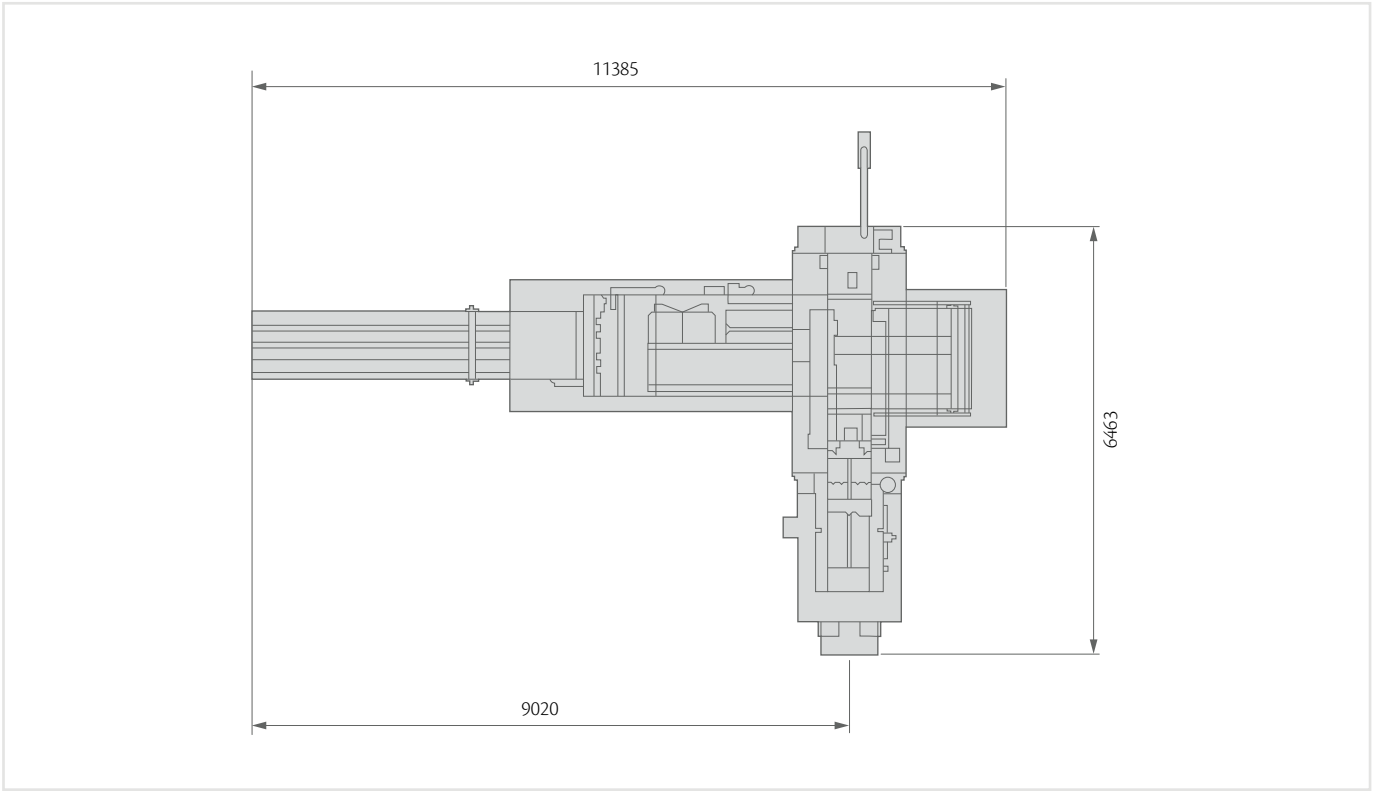
The Overall Equipment Effectiveness (OEE) is a very important objective. Packaging lines are accurately designed to ensure a maximum level of efficiency and a reduction in machine downtime.

IMA Group emphasizes not only technical solutions, but also the investment in the training of its customers - as this also contributes to an increase in productivity levels. TMC manages a team of specialists who, through careful analysis of production data, can identify critical issues in production thus promoting an increase in the quality levels of machines.

TRAINING AND MAINTENANCE

In order to ensure the functional continuity of the machine, we have developed specific training courses with theoretical classroom and practical training on-the-job. We also offer analysis and personalized guidance to resolve or anticipate problems, optimize production, and streamline the management of spare parts stock at the customer site.

TECHNICAL DATA



Max speed	Up to 220 cycle/min	
Servo motors	20 to 24, depends on possible options	
Infeed Product Range (mm)	Min	Max
Diameter	90	170 on 4 lanes, 200 on 2 lanes *
Cut-Off	90	300
Outfeed Product Range (mm)	Min	Max
Width	90	600
Depth	180 - 90*	600
Height	90	300, 370-450 *
Poly Capability (mm)	Min	Max
Reel width	320	1500 - 1800 *
Repeat lenght	225	850, 950 *

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**T.M.C. S.p.A.**

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