

# Solutions for **TISSUE PACKAGING**

- Infeed 
- Cartoning 
- Case Packing 
- Palletizing 



### Over Application expertise, industry experience

Over the last 60 years Mpac Langen developed extensive experience, knowledge and skills in many applications and industries. Our high speed secondary packaging equipment is found in food, pharmaceutical, beverage, and consumer products. Mpac Langen offers a wide range of solutions for packaging tissues products. Depending on the exact requirements we work with our customers to select the most suitable solution.

### Competence along the line

Mpac Langen offers integrated solutions from secondary packaging equipment to palletizing. Depending on the application a wide range of infeed, collation, and product handling systems followed by a choice of cartoning, case packing and palletizing systems are offered. Customers have an option to add additional equipment such as check weighers, printers, and metal detectors.

### Tissue equipment

Mpac Langen offers two fully automated high speed machines for boxing facial tissues. Depending on the exact specifications of the formats it is even possible to run up to 400 cpm. The MAESTRO will be the most suitable choice. See the 'specification overview' table.

### End product quality

Tissues are frequently sold in cartons for placing on tables, bathrooms and in other highly visible places. End product quality is measured by factors such as carton squareness and a scratchless appearance. Mpac Langen equipment features dedicated technologies such as elevated carton carriers (lugs) and carton pre-opening to assure optimized carton erection with no dents and scratches. High end product quality is even guaranteed when using a limited quality (high recycling content) carton board.

### Integration with folding equipment

Tissue clips are generally produced on high speed multi-lane interfolders lines. The challenge to manufacture straight clean cut, non-perforated stable piles with center folded top sheets is demanding and complex. Generally the tissue converting equipment is designed to run 24/7. Understanding of and seamless integration with upstream equipment is a necessity to assure high OEE (Overall Equipment Efficiency) and quick ROI (Return On Investment).



- > 17.5" INTELLIGENT MACHINE INTERFACE (iMi)
  - READY FOR INDUSTRY 4.0
- > HIGH SAFETY **INTERLOCK DOORS**
- > EASY ACCESS **WALK-IN MACHINE**

- > ROBUST BUILD AND HIGH **EFFICIENCY** OUTPUT
- > EASY **SERVO** OPERATION AND SIZE CHANGEOVER
- > HIGH PRECISION **QUALITY** OF FINISHED PRODUCT

Specification overview	Mpac Langen LEVANTO	Mpac Langen MAESTRO
Infeed	Automatic, overhead	Automatic, sidepushers
Motion	Continuous	Continuous
Regular carton	Max 160 cpm	Up to 300 cpm (standard infeed) Up to 400 cpm (zipper infeed) * On request higher speeds can be studied
Cube carton	Max 120 cpm with 2 head feeder Max 160 cpm with 5 head feeder (optional)	Max 160 cpm * with adaption on carton erection module up to 300 cpm can be reached

All information given in this document is dependent upon final machine specification and infeed arrangement.

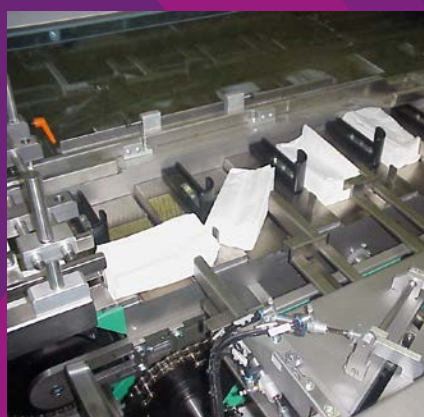
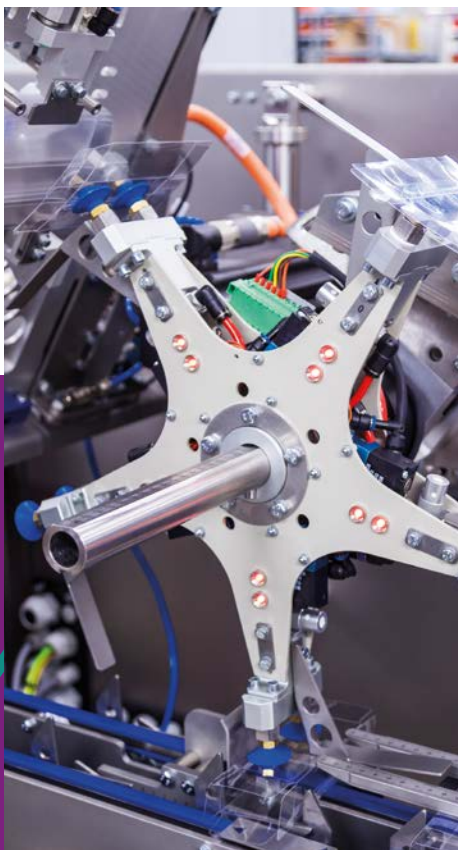
### Ergonomic and operator friendly

Folded stacks of tissues are received from the converting equipment. The consumption of cartons and subsequently replenishing the carton magazine can be a physically demanding job at the required speeds.

Optional fully automated carton loading systems provide operators the option to replenish only every 30-60 minutes whereby reducing the repeated heavy physical work. Additionally intuitive touch screen human interfaces assure easy and user friendly operation. All machine parts are visible and accessible by opening transparent machinedoors.

### Carton shapes

Marketers are trying to differentiate products. Branding is important in driving consumers to buy their favorite brand. Another way to stand out on the shelf is to use a unique carton design or shape. Unique shapes normally come with nicely sloped edges and high glossy finishes. Handling such complex carton shapes is one of the signatures offering of Mpac Langen.





### Napkin dispenser and tray packs

Napkin cartons are designed around the idea of using the carton as a table top solution for the end user. Consequently squareness and finish are of the utmost importance. Napkins can also be distributed using tray packs. Mpac Langen offers solutions that can run dispenser and tray packs on the same machine.

### Wide range of tissues

Tissues are offered in many sizes. Family size, men's size, traveller's pack are popular but marketers always design special sizes and shapes.

The count range can vary from 50 up to 250 sheets per clip, embossed or non-embossed with variations from 2 to 5 plies. The Mpac Langen solutions are able to handle those ranges with optional multi-lane discharge, clip merging, perfuming, and quality control systems.

### Application dedication leads to efficiency

At Mpac Langen we develop dedicated infeed systems and cartoning machines for carefully selected applications such as tissue clips. The Mpac Langen MAESTRO is the tissue cartoner with the highest efficiency available in the market.



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