



FROMM | PACKAGING
SYSTEMS

Plastic Strapping Tools



P324

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

10.0–16.0 x 0.40–1.05 mm

Weights:

4.1 kg (including battery)

Joint:

Friction weld joint with approximately 75 % average joint strength, dependent on strap quality.

Strap tensions:

300–2400 N, dependent on strap quality

Battery:

14.4 VDC/2.4 Ah NiCd
14.4 VDC/3.0 Ah NiMH

Charger:

Both types of battery (NiCd und NiMH) can be charged with the same standard charger. Now you can choose between Standard, Turbo and Mobile chargers; contact your specialist for detailed advice.

Suspension:

Due to its low weight the tool does not have to be suspended. However, depending on the area of application, suspension can be advantageous. Two different types of suspension bracket are available.

Bottom base wearing plate:

Packaged goods with a rough and uneven surface can result in excessive wear to the base plate. The optionally available bottom base wearing plate can provide additional protection against wear.



P325

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

16.0–19.0 x 0.40–1.35 mm

Weights:

4.4 kg (including battery)

Joint:

Friction weld joint with approximately 75 % average joint strength, dependent on strap quality.

Strap tensions:

650–3500 N, dependent on strap quality

Battery:

14.4 VDC/2.4 Ah NiCd
14.4 VDC/3.0 Ah NiMH

Charger:

Both types of battery (NiCd und NiMH) can be charged with the same standard charger. Now you can choose between Standard, Turbo and Mobile chargers; contact your specialist for detailed advice.

Suspension:

Due to its low weight the tool does not have to be suspended. However, depending on the area of application, suspension can be advantageous. Two different types of suspension bracket are available.

Bottom base wearing plate:

Packaged goods with a rough and uneven surface can result in excessive wear to the base plate. The optionally available bottom base wearing plate can provide additional protection against wear.



Battery operated plastic strapping tools – the new generation

The high strap tension of these portable plastic strapping tools permits the processing of plastic straps up to a width of 19 mm and a thickness of 1.35 mm. The heavy polyester straps permit the problem-free replacement of the traditional steel straps and result in considerable savings. The ergonomically designed handle, the new pushbutton arrangement, low weight and simple operation guarantee a high degree of user-friendliness and permit rational working methods. The high production quality and well known operating safety and reliability of the machines render maintenance costs very low, also in continuous operation.



P355

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

10.0–16.0 x 0.40–1.05 mm

Weights:

5.0 kg (including suspension)

Joint:

Friction weld joint with approximately 75 % average joint strength, dependent on strap quality.

Strap tensions:

400–2100 N, dependent on strap quality.



P356

Strap qualities:

Suitable only for polyester (PET)

Strap dimensions:

16.0–19.0 x 0.40–1.35 mm

Weights:

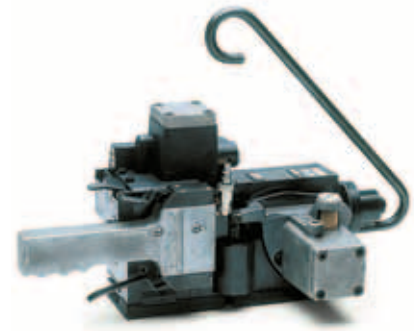
5.8 kg (including suspension)

Joint:

Friction weld joint with approximately 75 % average joint strength, dependent on strap quality.

Strap tensions:

800–3700 N, dependent on strap quality.



P350

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

12.7–32.0 x 0.50–1.27 mm

Weights:

16.5 kg (including suspension)

Joint:

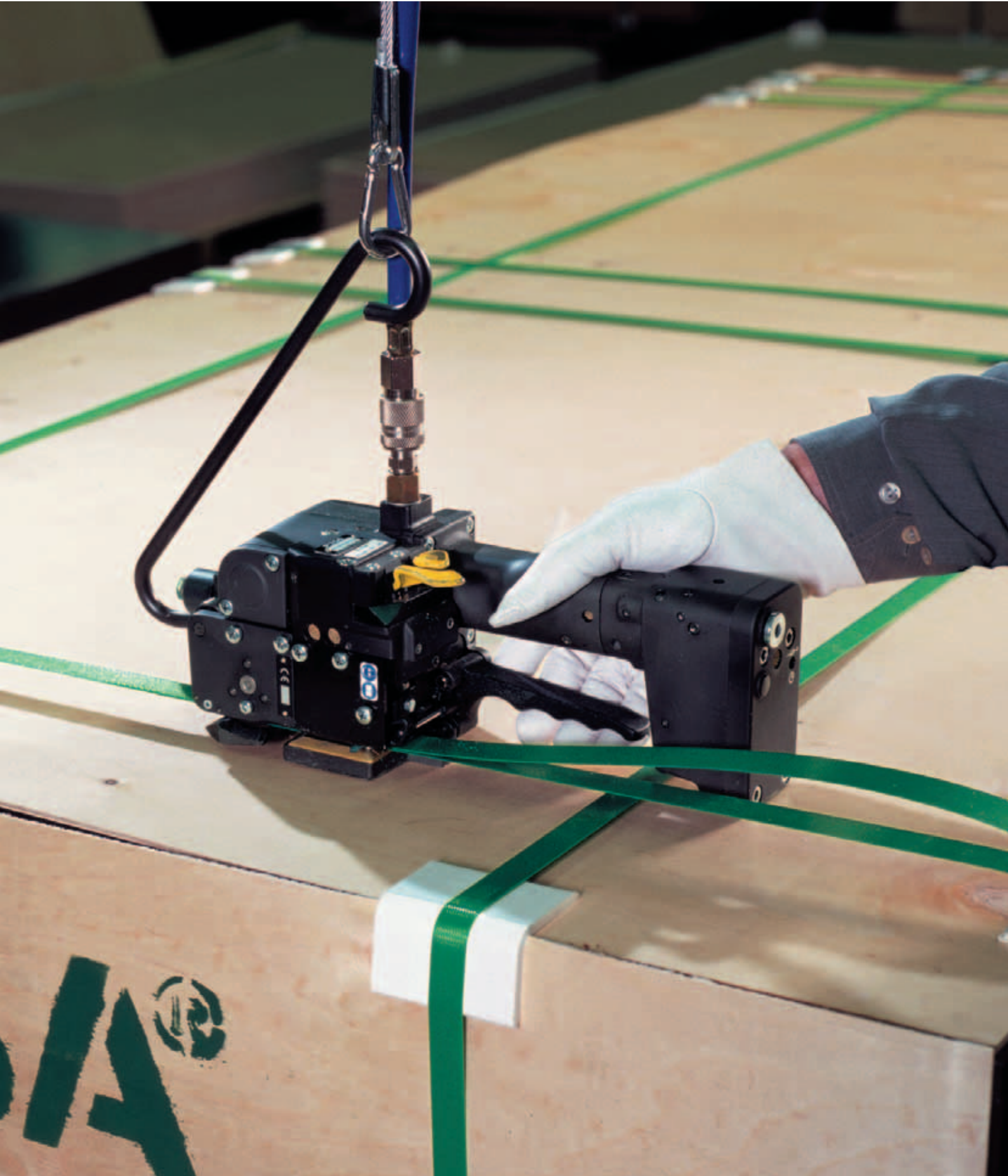
Friction weld joint with approximately 75 % average joint strength, dependent on strap quality.

Strap tensions:

1300–3800 N, dependent on strap quality.

Versions:

Single button = automatic
Two button = semi-automatic



Pneumatic sealless plastic strapping tools

These stationary strapping machines facilitate perfect strapping of packaged goods in the most diverse industries and for a multitude of strapping applications. The P356 is suitable for use with PET straps up to a thickness of 1.35 mm and achieve a very high strap tension of a maximum 3700 N. Both straps are inserted into the tool together, permitting a very efficient working mode. These robust, reliable and high performance tools permit the replacement of traditional steel straps by STARstrap polyester straps, thus reducing packaging costs.



Manually operated plastic strapping tools with seal joint

Both models are light-weight devices, suitable for strapping and sealing flat packaged goods (e.g. pallets, bales, crates and packages of all kinds) with plastic strap. They are characterised by reliability, strength and maintenance-friendliness and can also be used outdoors as portable devices. High strap tensions are possible thanks to the tensioning drum. A high joint strength is also guaranteed with special seals and the patented sealing mechanism. With the separate sealing lever the straps are joined in a flash with a single stroke.



P403

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

11.0–13.0x0.40–0.90 mm

Weights:

3.3 kg (without suspension)
3.4 kg (with suspension)

Joint:

Special seals with a joint strength of up to 70 %, dependent on strap quality



P404

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

15.0–16.0x0.50–0.90 mm

Weights:

3.8 kg (without suspension)
3.9 kg (with suspension)

Joint:

Special seals with a joint strength of up to 70 %, dependent on strap quality

Option:

Suspension fixture for horizontal strapping, comprising a grip ball and bolt



Special seal joint



Semi-automatic strap feeding systems

FROMM has a comprehensive series of semi-automatic strap feeding systems. The strap feeding systems cover a wide range of applications in the most diverse industries; they are built to customer specifications in order to satisfy the exact requirements. Due to the high rationalisation potential, feeding times can be considerably reduced, relieving and economising the operator work load.



EFP

Strap qualities:

Polypropylene (PP) and polyester (PET)

Strap dimensions:

13.0–32.0 x 0.38–1.27 mm

Recommended tools:

P324, P325, P350, P355, P356

Feeding units:

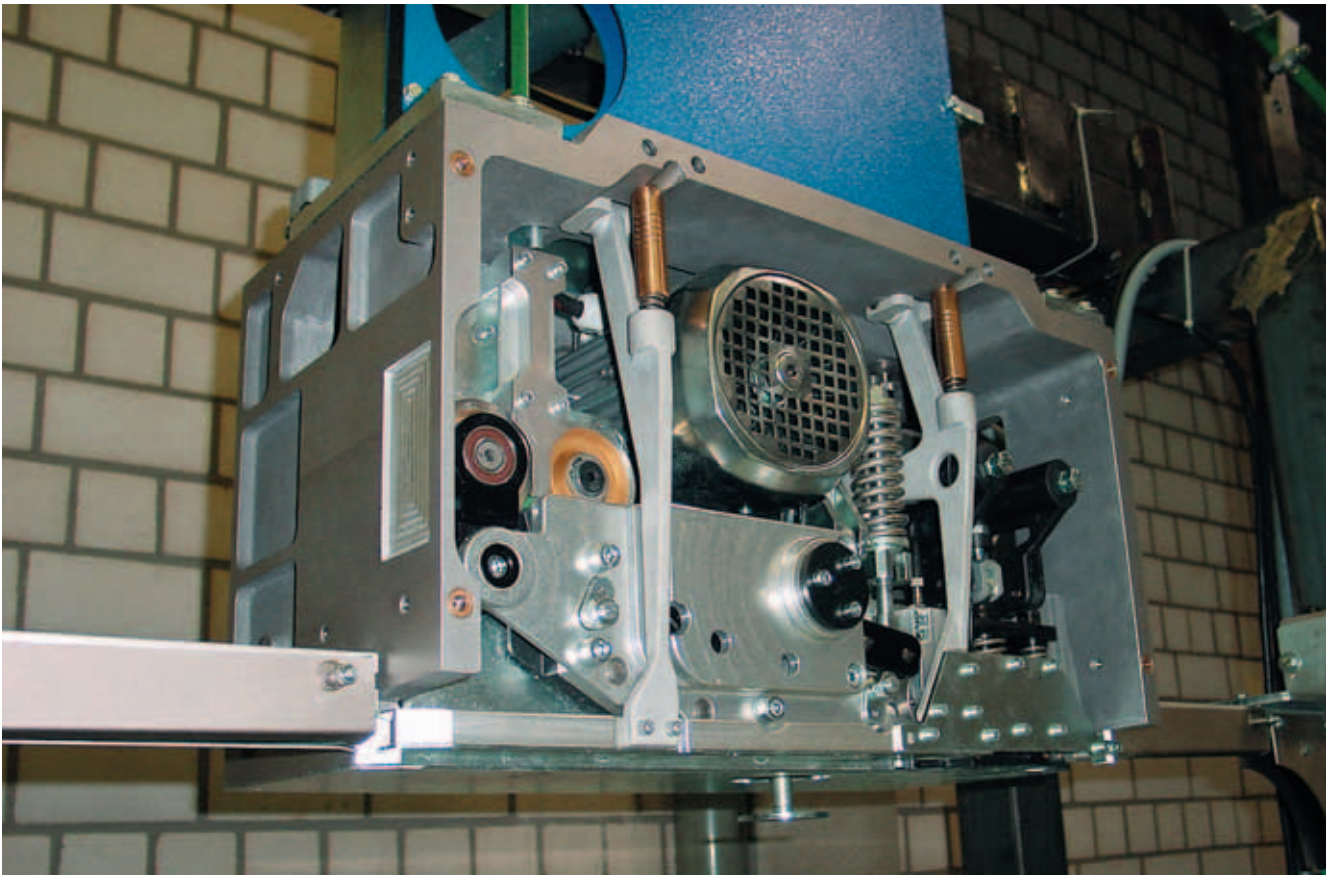
E101 pneumatically powered, manual
E201 electrically powered, automatic

Dispensers:

KB2 standard
KB3 with magneto-electric brake and strap accumulator

Longitudinal displacements:

stationary without sword: stationary (EFP1XX)
stationary with sword: stationary (EFP2XX)
moveable without sword: movement on rail or on portal frame (EFP4XX)
moveable with sword: movement on rail or on portal frame (EFP5XX)



MH600

Strap qualities:

Polypropylene (PP) and polyester (PET)

MH600 unit:

Electrically driven.

Power supply 400V/50Hz/3/N/PE

Consumption: 2.5 kVA

Strap dimensions:

12.0–19.0 x 0.60–1.35 mm

Strap tension:

Up to 7000 N, adjustable

(with a strap width of 12.0 mm, optional 2300 N)

Joint:

Friction weld joint with an average joint strength of max. 75 %, dependent on strap quality

Minimum package size:

W 150 x H 10 mm

Maximum package size:

W 3000 x H 3000 mm

Options:

- De-coiler for Jumbo-coils
- Sword
- Telescopic insertion frame
- Movable machine
- Side sealing machine
- Suspension with «floating» system
- Edge protection feed systems top and bottom
- Timber press system with various magazines
- Vertical and lateral press systems up to 80 KN
- Conveying systems
- Turntable for cross strapping

Other options and configurations are available. Contact our strapping specialists for more detailed information.

MH610

Strap qualities:

Polyester (PET)

MH610 unit:

Electrically driven.

Power supply 400V/50Hz/3/N/PE

Consumption: 2.5 kVA

Strap dimensions:

25.0–32.0 x 0.40–1.35 mm

Strap tension:

Up to 7500 N, adjustable

Joint:

Friction weld joint with a max. of 75 % average joint strength, dependent on strap quality.

Minimum package size:

B 150 x H 10 mm

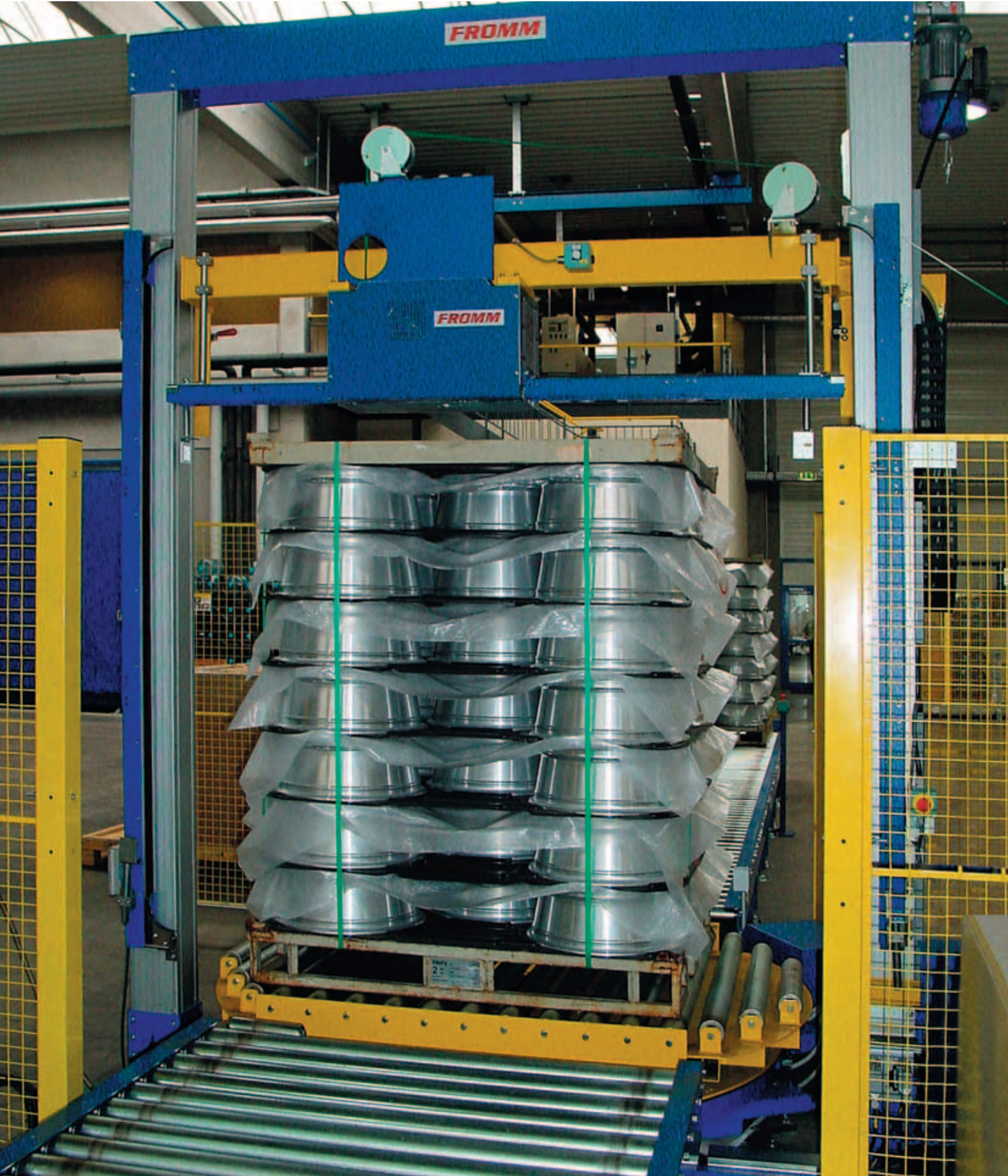
Maximum package size:

W 3000 x H 3000 mm

Options:

- De-coiler for Jumbo-coils
- Sword
- Telescopic insertion frame
- Movable machine
- Side sealing machine
- Suspension with «floating» system
- Edge protection feed systems top and bottom
- Timber press system with various magazines
- Vertical and lateral press systems up to 80 KN
- Conveying systems
- Turntable for cross strapping

Other options and configurations are available. Contact our strapping specialists for more detailed information.



Automatic plastic strapping machines PM

FROMM has a comprehensive range of fully automatic strapping machines. The machines cover a wide range of applications in the most diverse industries; they are built to customer specifications in order to satisfy the exact requirements. The new strapping machines MH600/610 can process polyester up to a width of 32 mm and a thickness of 1.35 mm. So they provide the perfect alternative to strapping with steel strap. The machines considerably increase the productivity of your dispatch department. Investments can be recouped in a short time, mainly due to the savings in consumable materials.



STARstrap polyester strapping replaces steel strapping

Polyester strap has become the most suitable material for strapping goods for transport. STARstrap polyester strap is characterised by its excellent mechanical properties, such as high shear strength and outstanding elongation. The strapping adapts itself uniformly to the packaged goods; even if they change shape.

STARstrap improves transport safety

Compared to steel strapping the unique combination of a high breaking load and elasticity of STARstrap massively enhances the shock absorbing capability during goods shipping and transfer.

STARstrap reduces the packaging costs

Conversion from steel strap to STARstrap permits cost savings of up to 50%. The low weight of STARstrap compared with steel strap reduces freight and storage costs and the resulting fewer roll changes improve work productivity.

STARstrap cuts down on damage during transport

The high strap tensioning force of the FROMM strapping machines first stretches the STARstrap polyester strap within its limits of elongation. This results in greater stability of the transported goods. The combination of stability and shock absorbing capability greatly reduces damage during transport.

STARstrap improves the quality of the goods in transport

STARstrap causes no scratching and does not rust. So the surface of transported goods is not damaged, even when these are stored outdoors.

STARstrap reduces risk of injury

STARstrap is easy to use and the risk of cutting injuries is reduced. Polyester has none of the sharp edges or corners characteristic of steel strap.

STARstrap is environment-friendly

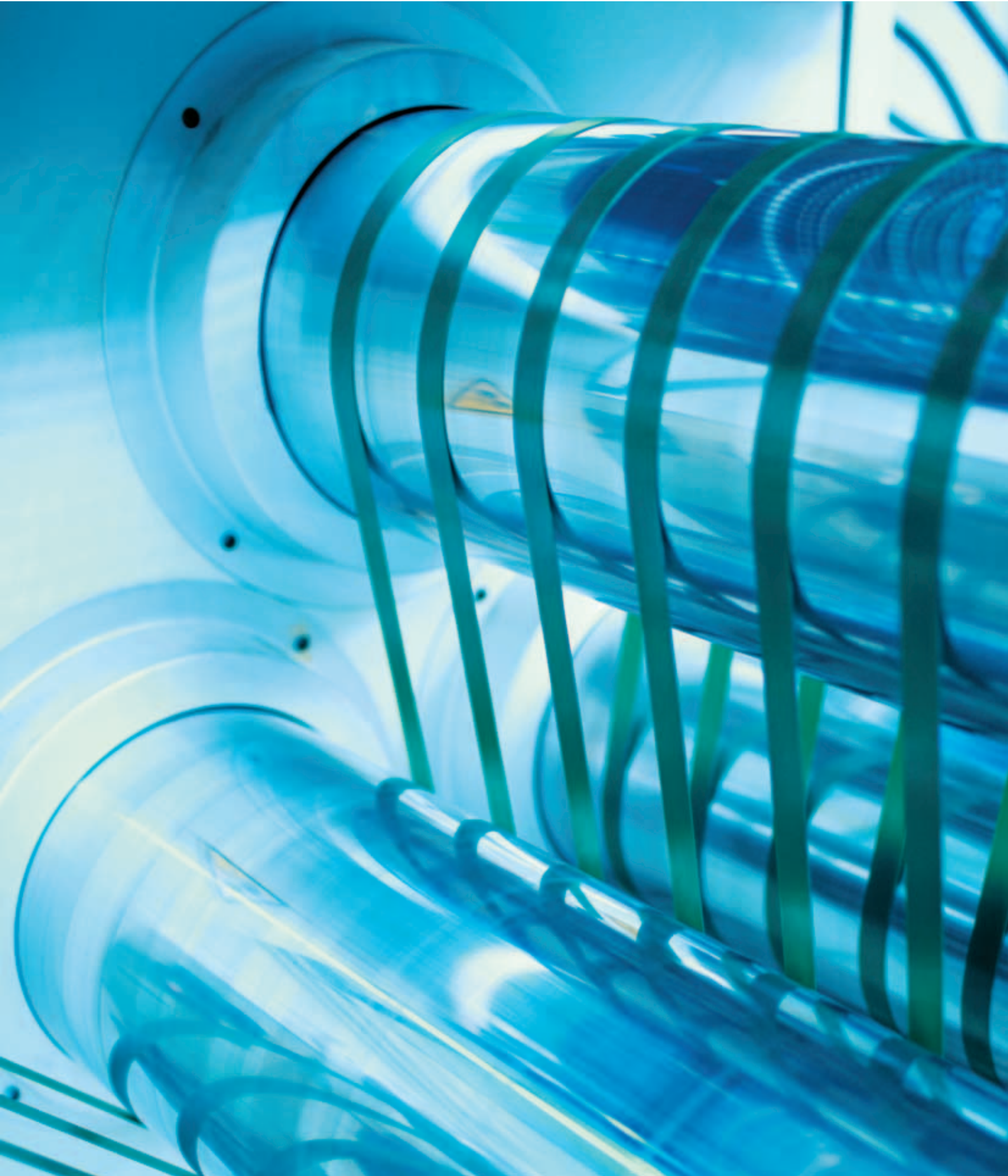
STARstrap polyester straps are produced from us 100% from recycled polyester bottle material. Where large amounts of strap waste are produced, STARstrap can also be returned to our polyester recycling plant.

As a leading producer of high quality strapping machines for a very wide range of strapping applications, FROMM has production operations for STARstrap polyester straps in Europe, South America and Asia. With one of Europe's largest and most advanced PET bottle recycling operations FROMM has established the foundations for entry to the market as a leading supplier of polyester strapping.

STARstrap polyester straps are produced on state-of-the-art extrusion lines. The high quality demands of our customers are satisfied by defined production sequences and continuous quality control.

FROMM produce all the commercially standard strap dimensions and guarantee that your tools and machines will function perfectly with STARstrap polyester straps.

FROMM is the exclusive supplier of STARstrap polyester straps in the dimensions 25x1.3 mm and 32x1.3 mm which are especially suited for replacement of steel straps up to 32 mm.



**STARstrap –
High grade
polyester strap
for all industrial
applications**

FROMM STARstrap is a polyester strap which was developed for a multitude of applications with rigorous quality requirements. STARstrap is a perfect alternative to the frequently used steel strap. STARstrap guarantees a high joint efficiency with all FROMM strapping machines, from the simple manually operated tools to the fully automatic strapping machines built to customer requirements.



Development centre in Germany



Production centre for machines and equipment in Italy



Production centre for machines and equipment in Slovakia



Production centre for STARstrap™ strapping in Germany



Production centre for STARstrap™ strapping in Chile



Polyester recycling plant in Germany

FROMM Group

The FROMM Group develops and produces a wide variety of systems for unitizing and palletizing goods for transport: strapping machines and systems, pallet stretch wrapping machines, the patented Airpad pillow system, together with all necessary consumables.

Established in 1947, the Swiss family business generates a turnover in excess of 150 million Euros and employs a workforce of around 700 worldwide. 20 subsidiaries in Europe, North and South America, South Africa and Asia, along with a multitude of specialized sales partners throughout the world ensure – in your vicinity – professional advice, prompt customer service and maintenance.

The company pursues a policy of logical vertical integration while upholding traditional values such as proximity to customers, quality consciousness, continuity, independence and environmental awareness, which are the reasons for decades of success.

Development centre

In the FROMM development centre, a long established and experienced team of engineers constantly develops new techniques and products using the very latest 3D CAD systems. Up-to-date test procedures guarantee the high FROMM quality standards.

Production centres for machines and equipment

Production takes place round the clock in the FROMM production centres. Highly qualified teams of specialists manufacture FROMM products satisfying the highest demands of quality on computer-controlled machines. All machines are tested before leaving the factory. The company has ISO 9001 certification.

Production centres for polyester plastic strapping and multilayer blown films

STARstrap™ plastic strapping is produced in the FROMM production cen-

tres exclusively from recycled polyester bottle material on modern state-of-the-art extrusion plant. These bands guarantee the high quality of the strapping performed with FROMM machines and equipment.

All kinds of film types for the Airpad pillow material are produced on blown film extrusion machines. Special film types guarantee a high loading capacity of the individual pillow elements. The plants are certified in accordance with ISO 9001 and ISO 14000.

Polyester recycling plant

In the FROMM recycling plant high grade base material, agglomerates and regranulates for the production of PET strapping, foodstuff films, textiles and drink bottles are produced from used PET bottles. This enables FROMM PET products to satisfy the most rigorous ecological requirements. The plant is certified in accordance with ISO 9001 and ISO 14000.

FROMM stands for development, production, consultancy, sales and service – worldwide and from a single supplier!

Benefit from our expertise!

