

FROMM | PACKAGING
SYSTEMS



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Introduction to **FROMM**

FROMM is an internationally established, Swiss based company. Founded in 1947, the family-owned business is committed to the development of innovative products, meeting the expectations of our customers around the world. The Fromm Group includes 28 subsidiaries in 17 countries with approximately 900 employees. Over 50 independent distributors add to the world-wide presence.

FROMM manufactures a complete line of packaging products and equipment for unitising and palletising of industrial loads for transport securing. Customers throughout the world rely on the innovative products developed, engineered, manufactured, distributed and serviced by the FROMM Group, ensuring Swiss standards and quality throughout.

FROMM continually develop new techniques and products at the research centre in Achern, Germany. Using the Latest 3D-CAD computer systems, constant innovation provides the strength and offers the customers the latest benefits in performance and economic solutions.

In the state-of –the-art factory in Caprino Italy, the FROMM production runs around the clock with highly qualified teams of specialists using computer-controlled production machines to manufacture parts. Assembling of the tools and machines, as well as the end testing conducted in-house. The factory has been awarded the ISO 9001 and 14001 certification.

In the new FROMM Plastics production factory in Kölleda Germany, FROMM manufacture, the “STARSTRAP” polyester (PET) strapping, and the film for the Air-pad systems. The new production plant has been awarded the ISO 9001 and ISO 14000 certifications.

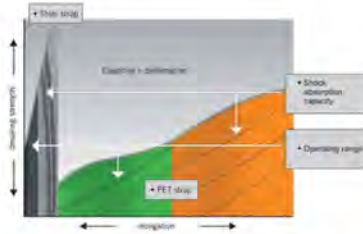
FROMM is the only strapping supplier in South Africa, that supplies strapping and tooling / equipment, that has been manufactured by it's own group. This allows for more competitive pricing on tools and spares.

The FROMM policy continues to focus on continuity, independence and high standards of quality, to accommodate and adapt to customer needs. FROMM provides transport securing solutions by means of strapping with hand systems as well as fully automatic strapping machines. The South African operation was founded in Johannesburg, in February 2001 and has expanded its operations throughout the Southern Africa Region, either via independent branches or through distributors.

STARstrap™

The new high performance Polyester strapping

Polyester strapping is characterised by a very consistent tensile strength and a very high elongation. Characteristics that are most decisive for a safe strapping method. Unlike strapping made from steel, Polyester strapping has a high elongation and absorb shocks and impacts during transportation and handling far better than steel strapping. The excellent elongation features allow the substitution of steel strapping for the same application with a Polyester strap having a lower breaking strength.



STARstrap™ Polyester strapping offers excellent mechanical features such as high breaking strength, outstanding elongation and perfect tension retaining capabilities.

These characteristics result in:

- * no damage or contamination of packaged goods (corrosion-resistant)
- * high shock absorption in case of impacts during transportation
- * less pressure on edge of the package
- * perfect and individual secured packages
- * strap tension remains high in cases where package may shrink during storage or transportation
- * substitution of steel strapping by STARstrap™ Polyester strapping allows the use of a strap with less breaking strength
- * reduction of material costs
- * less injury risks in case of strapping breakages
- * easy and clean handling compared to steel strapping



STARstrap™ - Polyester strap performance

Depending on the security requirement during transport there are three product groups:

STARstrap™ - This product group is obtainable in widths between 9 and 19 mm. It can be used for strapping paper, cardboard, timber packs, brick & block, cans and plastic products.

STARstrap™-plus - is distinguished for its high joining quality and edge stability. This type of strap is thus particularly suited to meet the exacting standards involved in securing products during transportation.

- * Sharp-edged and heavy packages in the metalworking and construction materials industry
- * Highly compressed textile bales
- * Heavy bundles in the timber industry

STARstrap™Ultra is obtainable in widths ranging from 19 to 32 mm. It is increasingly used for converting of steel strap.

Plastic Strapping Tools



P355 Pneumatic strapping tool for PET and PP strap 10-16mm



P356 Pneumatic strapping tool for PET strapping 16-19mm



P403/404 Manual plastic strapping tool for PET & PP strap 13-16mm. Use with serrated metal seals



P326/P318 Battery powered plastic strapping tools – the new generation



P327/P330 Battery powered plastic strapping tools for heavy strapping



P380 Pneumatic plastic strapping tool for round or small surface applications

Automatic and Semi-Automatic Machines for Polypropylene Strapping



TP600 Automatic strapping machines

SPECIFICATIONS

Sealing method:	Bottom heat seal
Strap size:	Standard – 9 - 12mm
Strap thickness:	0.55mm up to 0.9mm
Strap tension:	Fully variable from 10kg to 70kg.
Arch size:	Standard 850mm x 600mm *
Table height:	810mm
Net weight:	220kg
Options:	Supplied with auto box strap switch or manual strapping Foot switch
Power supply:	220 volts single phase 50hz

*(other options available)



TP202 Semi-automatic strapping machines

SPECIFICATIONS

Strapping speed:	2.5 sec per strap
Dimensions:	910mm (L) x 582mm (W) x 785mm (H)
Net weight:	100kg
Max. tension:	45kg
Strap width:	6, 9, 12, 15.5mm
Power supply:	220 volts single phase 50hz



Model 300 Strap Chopper

MATERIAL REFERENCE

The following are materials commonly processed

- 19mm x 0.80mm Steel Strapping with Seal
- 19mm x 1.10mm Polyester Strapping with Seal



Model 517 XHD Strap Chopper

MATERIAL REFERENCE

The following are materials commonly processed

- 13mm x 0.60mm Steel Strapping with seal
- 16mm x 0.80mm Steel Strapping with seal
- 19mm x 1.60mm Steel Strapping with seal
- 32mm x 1.60mm Steel Strapping with seal
- High Tensile bale wire
- Solid aluminium and Copper bar

Steel Strapping



Regular Duty, Painted & Waxed

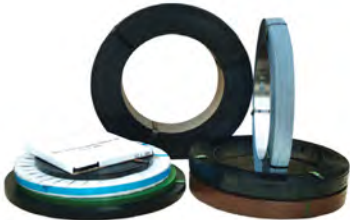
WIDTH MM	THICKNESS MM	BREAK STRAIN NEWTONS	YIELD METERS/ KG	WINDING
12,7	0,60	6,000	17,20	O, R
19,0	0,50	7,800	13,20	O, R
	0,80	11,800	8,38	O, R
32,0	0,80	19,700	4,97	R, J



High Tensile, Painted & Waxed

WIDTH MM	THICKNESS MM	BREAK STRAIN NEWTONS	YIELD METERS/ KG	WINDING
19,0	0,64	10,400	10,6	O, R
	0,80	13,000	8,5	O, R
32,0	0,79	24,300	5,1	R, J

O = Oscillated, R = Ribbon Wound, J = Jumbo Wound
Strap Finish = Black, Painted and Waxed OR Zinc Coated



Steel Tools



A333

Manual Sealless steel strapping tool



A334/A337

Manual Sealless steel strapping tool 19mm



A402/A412

Manual pusher type steel strapping tool



A482/A480

Pneumatic pusher type combination steel strapping tool



A483/A480

Pneumatic pusher type combination steel strapping tool



A383/A380

Pneumatic sealless combination steel strapping tool

Fully Automatic Strapping Machines

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.



MH600

Strap qualities:

Polypropylene (PP) and polyester (PET)

MH600 unit:

Electrically driven.

Power supply 400V/50Hz/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 systems with various magazines
- Vertical and lateral press systems up to 80 KN
- Conveying systems
- Turntable for cross strapping



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

Minimum package size:

B 150xH 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

* Strapping heads for steel & plastic strapping * Custom built automatic machines

Stretch Wrapping Machines



FS3xx Series

This FROMM budget stretch wrapper line is extremely user-friendly and can be used in every situation. The FS3xx Series, in particular, is highly suited to use by smaller-scale film users. Extra emphasis was placed during the design stage on safety and reliability. All the machines are designed to cope with a high workload. The use of carefully selected components keeps maintenance to a minimum.

Turntable:

1500 / 1650 / 1800 mm

Maximum pallet format:

1250 x 1200 mm

Maximum pallet weight:

2000 kg

Maximum pallet height:

2800 mm

Power supply:

230 V - 50/60 Hz



FS4xx Series

This semi-automatic strapping machine comes with 30 wrapping programs, equipped with a 2-motor power pre-stretch system, which is easy to operate from the touch button control panel, realising a pre-stretch between 10% and 400%. High pre-stretch reduces film consumption enabling you to achieve the best results at the lowest possible costs, with optimal pallet stabilization and product protection.

Turntable:

1650 mm

Maximum pallet format:

1100 x 1200 mm

Maximum pallet weight:

2000 kg

Maximum pallet height:

2050 mm

Power supply:

230 V - 50/60 Hz



FR Series

The semi-automatic robot stretch wrapping machines, with multiple wrapping programs and various pre-stretch systems is suitable for customers who need to wrap a wide range of large pallets or for situations where stretch wrapping takes place in various locations. With the battery fully charged, it can wrap up to 220 Euro pallets.

Models:

FR23x

FR25x

FR27x

FR39x

FR40x

Maximum pallet height:

2000 mm

Rechargeable traction battery:

24 V - 110 Ah

Charging power supply:

230 V - 50/60 Hz

Airpad Machines & Airpad Film

Product Protection & Void-filling with Air

The compact, portable and easy-to-use Airpad machine produces protective packaging and void-filling material at the touch of a button. No operator is required.

Airpad is made from two rolls of flat film which are inflated with air, heat sealed and perforated. The formed pads are then coiled into a large light-weight roll.

The Airpad system is covered by worldwide patents.



AP250
New and compact AIRPAD table top machine

The Airpad systems offers the following...

- One machine – Many solutions
- 1% film 99% Air
- 30 - 50% saving vs other void-fill systems
- Clean and dust free
- Maximum protection
- Minimum waste
- Environmentally friendly
- Reusable
- 12 different pad sizes



Easy to operate control panel



Branches



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frommsa@fromm-pack.co.za

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