

FROMM Holding AG

FROMM Holding AG designs, develops and manufactures a complete line of packaging machines and equipment for unitizing and palletizing industrial loads, such as: strapping tools and automatic machines, pallet stretch wrapping machines as well as the patented «Airpad» product protection and void-filling system.

Established in 1947, the family-owned business employs approximately 400 people throughout the world. Twelve subsidiaries in Europe, USA and South Africa and more than fifty specialized partners and distributors worldwide guarantee efficient customers service and assistance. Traditional values like continuity, independency and reliable quality products guide the company's corporate policy and represent the success over decades.

FROMM stands for: Development, production, consulting, sales and service – worldwide and all under one roof!

Our experience is your benefit!



Research- and development operation



Tool- and machine manufacturing operation



STARstrap™ manufacturing operation

Research and development

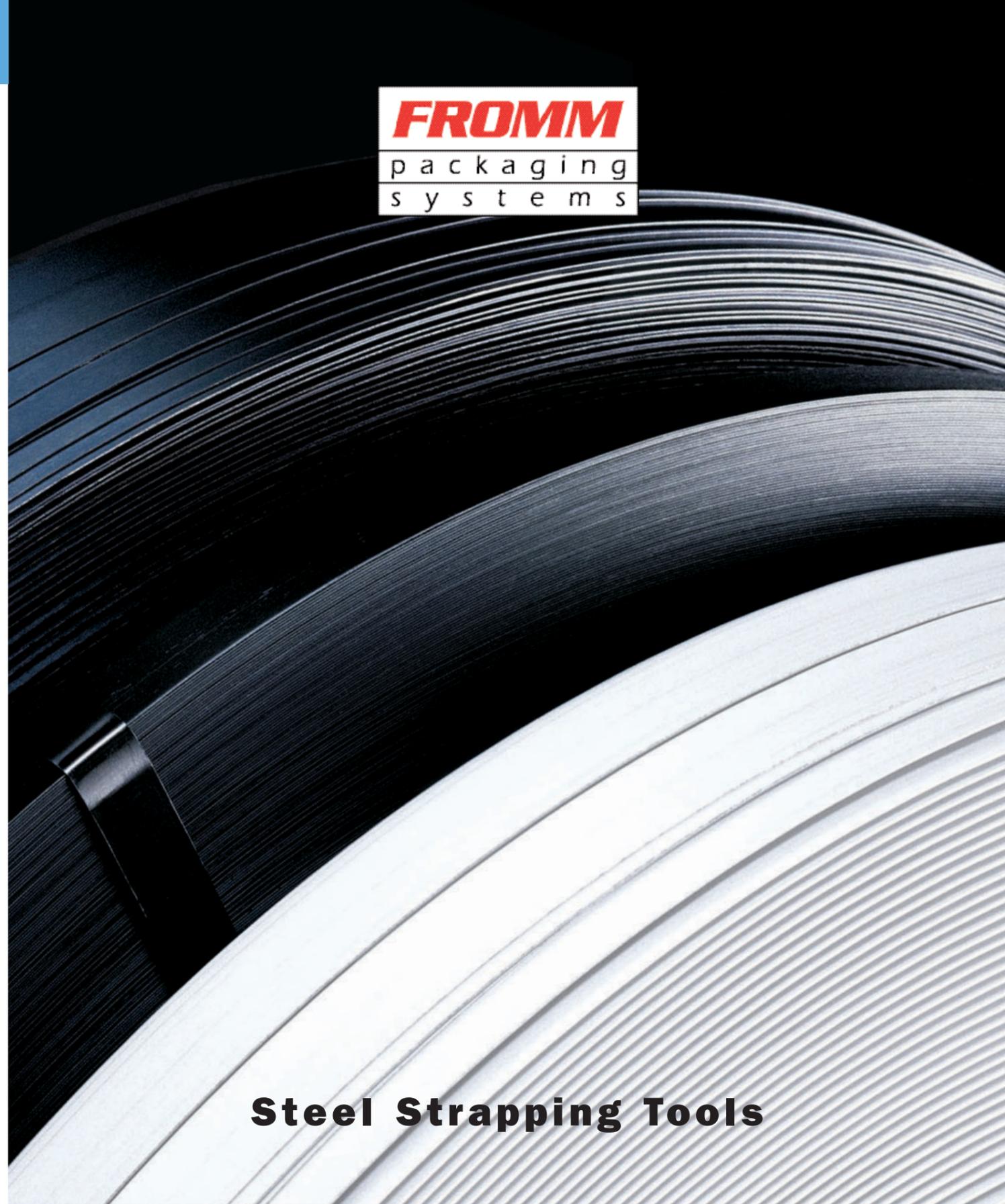
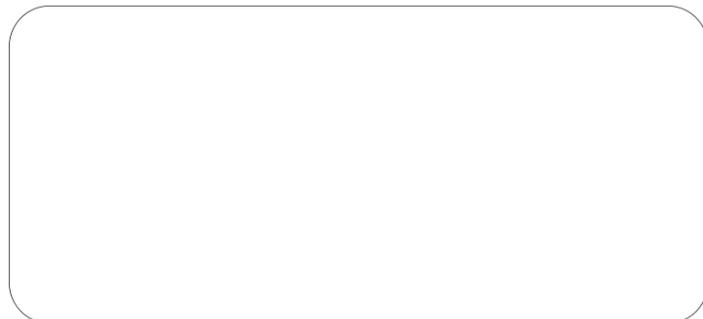
At the research center a long experienced team of engineers continually develops new techniques and products using the newest 3D-CAD-computers. Constantly up-dated testing procedures and equipment guarantee and secure the recognized high FROMM quality standards.

Tool- and machine production

In the production operation, FROMM production runs around the clock. Highly qualified teams of specialists using computer-controlled machines manufacture FROMM products designed to meet the demands for high quality. All tools and machines are tested prior to being despatched from the factory. FROMM has been awarded the ISO 9001 certification.

STARstrap™ Polyester strapping production

In its new factory the STARstrap™ Polyester strapping is being manufactured on state-of-the-art extrusion lines. These polyester plastic strappings guarantee the high quality standard of package securing and unitising solutions using FROMM tools and automatic machines. The new production plant has been awarded the ISO 9001 and ISO 14000 certifications.



Steel Strapping Tools



Manual sealless steel strapping tools

Sealless steel strapping tools are ideal for flat packages, such as pallets, crates, bales and various packages of all kind. Regular as well as high tensile steel strapping is applicable. To form the sealless joint, no separate metal seal is required. The breaking strength of the sealless joint averages 80% of the strap tensile strength, is very reliable and permits a reduction of approx. 10% of the overall strapping costs. All our manual tools are simple to use and ensure an efficient performance at all times.

A332/A333

Universal steel strapping tools for all known applications that distinguish by their reliability, ruggedness and maintenance friendliness. Very easy to use and light weighted, the perfect tools for every packaging room. Truly established, indispensable helpers throughout the world. Both models are also available as TW-version (torque wrench tensioning system).

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²

Strap dimensions:

09.5-13.0 x 0.38-0.50 mm (A332)

12.7-20.0 x 0.38-0.58 mm (A333)

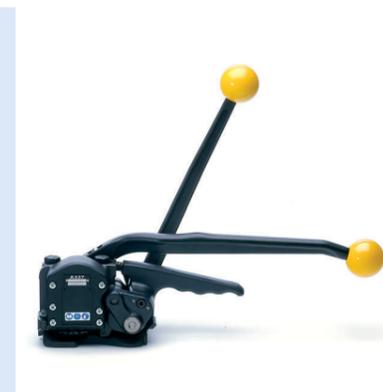
Weights:

A332: 3.3 kg, **A333:** 3.9 kg (standard version)

A332: 3.7 kg, **A333:** 4.3 kg (TW-version)



A332/A333



A337

A337

If strap tension is lost during storage or transportation of the goods, the **MicroLock™** security sealless joint of the A337 will not unlock! The free wheeling system integrated in the tensioning lever guarantees perfectly tensioned packaging goods. The sealing mechanism is completely closed and protected from dirtying.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²

High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 09.5-20.0 x 0.38-0.62 mm

Weights: 4.45 kg (standard version),

4.70 kg (TW-Version)



A335

The design of the A335 is identical with the A333 tool. However, equipped with a ground feed-wheel and a ground gripper manufactured from super-speed steel makes it especially suitable for the use with high tension steel strapping. Also available as TW-version (torque wrench tensioning system).

Strap qualities:

High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 12.7-19.0 x 0.50-0.58 mm

Weights: 3.9 kg (standard version),

4.3 kg (TW-Version)

A338

The special tensioning gear-system allows **very high strap tensioning** up to max. 5'500 N with a limited tensioning effort of only 240 N. A handy sealless combination tool suitable for flat packages and most demanding applications. Distinguishes by its ruggedness and operation friendliness.

Strap qualities:

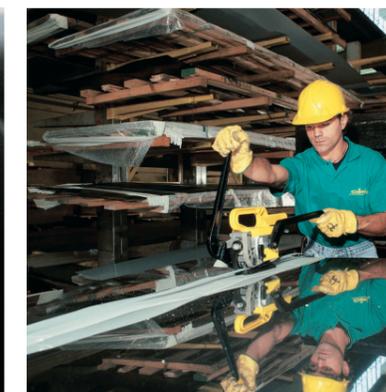
Regular duty (Uniflex) up to 850 N/mm²

High tensile (Ultraflex) up to 1'100 N/mm²

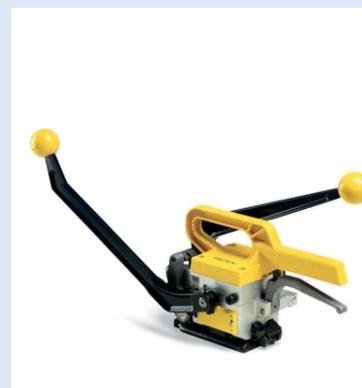
Strap dimensions: 12.7-19.0 x 0.50-0.70 mm

Weights: 5.7 kg (standard version),

5.9 kg (TW-Version)



Sealless joint



A334

This rugged tool is especially suitable for most demanding applications in the wood-, steel- and metal-industry. Designed for flat and rather heavy packaging goods. Thanks to the ideal configuration of the handles, steel strapping up to 0.80 mm of thickness can be effortlessly tensioned and sealed.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²

High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 16.0-20.0 x 0.58-0.80 mm

Weight: 7.2 kg

Pneumatic, sealless steel strapping tools

The strapping applications of the pneumatic powered sealless steel strapping tools are identical with the ones of the manual sealless tools. The same applies to the characteristics of the sealless joint. The essential advantages of the pneumatic powered tools are increased strapping operation, ideal and regular tensioned steel straps, resulting in a more efficient productivity.

In cases where the strap take-up is extensive, such as compressible goods, large bales and pallets, a substantial amount of time can be saved. Pneumatically powered tools combined with semi-automatic strap feeding systems increase the productivity even further.

A380

The A380 is a high performance tool for most demanding applications in the wood-, steel- and metal-industry. The ruggedly built tool has proven its reliability especially when used under shift- and continuous working conditions. Available as semi-automatic (two buttons) and automatic (single button) types, it also comes in four different tension versions. It is preferable to suspend the tool.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 12.7-25.0 x 0.50-1.00 mm

Weight: 17.4 kg and 18.4 kg
(incl. suspension bracket)

Tension versions:

4'500 N, 6'500 N, 7'500 N, 9'500 N

Tool versions:

Single button = automatic/Two buttons = semi-automatic



A380



A385

A385

The high performance tool has been designed for stationary applications. It tensions, seals and cuts the strapping off by pressing the appropriate buttons. Available in various tension versions and suitable for regular and high tensile steel strapping. Regular strap tension is provided by pneumatic tensioning and the security sealless MicroLock™ joint guarantees perfectly secured goods.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 9.5-20.0 x 0.38-0.63 mm

Weight: 10.5 kg (incl. suspension bracket)

Tension versions:

2'200 N, 3'500 N, 4'100 N, 6'500 N



A3H



A383

Due to the limited size of the base plate small items may be strapped easily. Its compact design and light weight makes the A3H suitable for a large variety of applications. Available with a throttle valve for individual strap tension regardless of the working pressure and with two different air-motors (2'500 N and 4'500 N).

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²

Strap dimensions: 9.5-20.0 x 0.38-0.60 mm

Weight: 8.9 kg (incl. suspension bracket)

Tension versions: 2'500 N, 4'500 N

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²

High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 19.0-32.0 x 0.63-1.30 mm

Weight: 24.0 kg (incl. suspension bracket)

Tension versions: 10'000 N, 15'000 N



A390/391

Semi-automatic strapping tools for pneumatic tensioning and manual, sealless sealing. The pneumatic tensioning system guarantees an increase of speed and regularly applied tensioning force. These lightest strapping tools (only 5.1 kg) of its kind allow efficient and easy operation within a wide working range, as no suspension of the tools is needed.

Strap qualities:

A390: Regular duty (Uniflex) up to 850 N/mm²

A391: High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 09.5-20.0 x 0.38-0.58 mm

Weights: 5.1 kg (A390/A391)

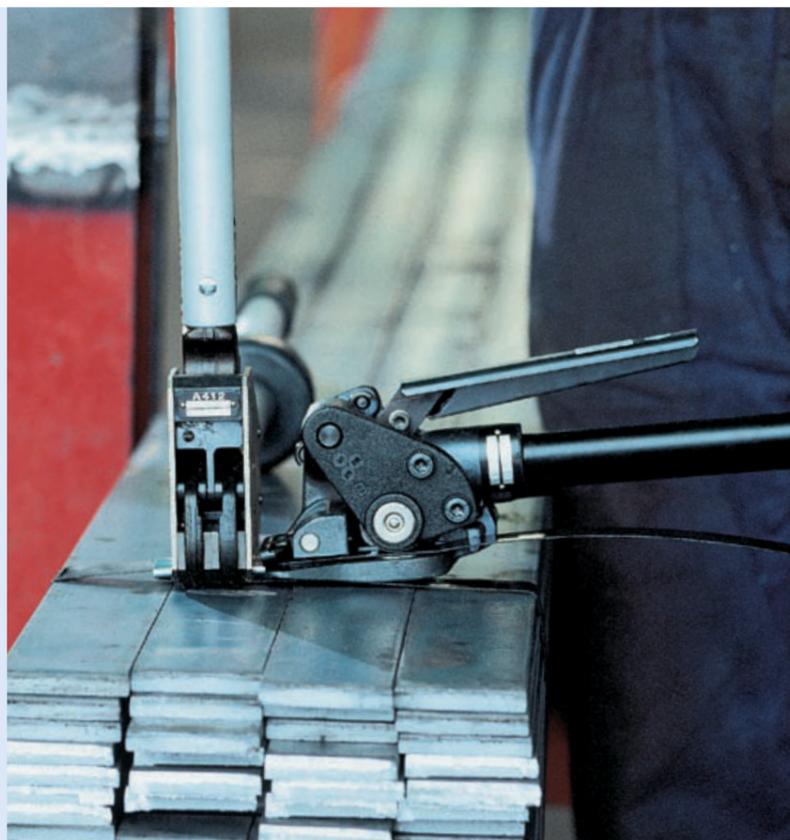
Max. tension: 6'000 N



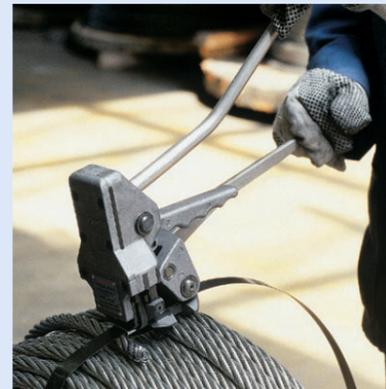
Sealless joint

Manual steel strapping tools with a seal joint

The described tools have been designed for round objects as well as for packaging goods with rather small surfaces. The only exception is the manual tensioner A301, which is used in combination with the manual sealer A412 and built especially for large, flat objects and where strap take-up is extensive. The joint is formed by applying a separate metal seal. Thanks to the perfect configuration of the tools' handles the joint can be formed rather effortless. The notch joint provides a average seal efficiency of approx. 75%.



Up cut single notch joint



A301/A412

The manual tensioner A301 has been designed especially for flat objects and packages. Thanks to the feed-wheel tensioning system unlimited strap take-up is allowed and tight strap tension without any tension loss is guaranteed. The up cut double notch joint needs an open or closed overlap metal seal and can be accomplished in one stroke with the manual sealer model A412. The specially shaped sealing handle of the A412 assures accident free and efficient operation, crushing of the hands is impossible.

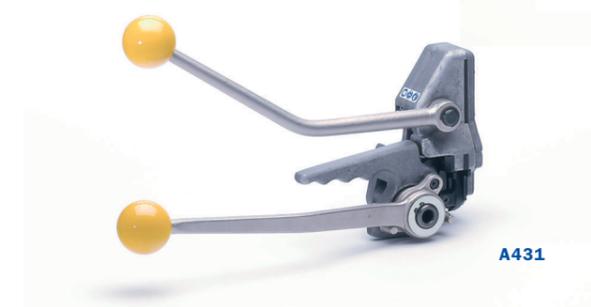
Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions:

Tensioner **A301**: 19.0-32.0 x 0.63-1.00 mm
Sealer **A412**: 19.0-32.0 x 0.63-1.00 mm

Weights: **A301**: 4.0 kg, **A412**: 3.4 kg



A431

This light weighted and handy little combination strapping tool is ideal for strapping of bars, tubes, bundles, coils and items with an extremely small surface. It is very easy to operate and completely independent from any energy source, an indispensable helper for every packaging room. For the joint, overlap seals which are provided with a single notch are used.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions: 10.0-19.0 x 0.38-0.63 mm

Weight: 3.4 kg



A402/A412

Manual tensioner for round objects in combination with manual sealer

The model A402 has been designed especially for round, curved or irregular objects with a very small surface. The feed-wheel system allows unlimited strap take-up and very tight strap tension without tension loss. The closed overlap seals are sealed with the double notch manual sealer A412.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Strap dimensions:

Tensioner **A402**: 19.0-32.0 x 0.63-1.00 mm
Sealer **A412**: 19.0-32.0 x 0.63-1.00 mm

Weights: **A402**: 4.0 kg, **A412**: 3.4 kg

Pneumatic steel strapping tools with a seal joint

The strapping applications of the pneumatically powered steel strapping tools with a seal joint are identical with the ones of the manual tools. These tools are especially suitable for round, curved and irregular shaped packaging goods with a small surface. For the joint separate overlap, metal seals are used which form a single or double notch joint, guaranteeing a correct joint and tight strap around the package.

A480

Due to its rather light weight, the A480 tool does not necessarily have to be suspended, which allows a wider operation range. An ideal tool for the strapping of tubes, wire coils and small bundles of all kinds. A handy and well liked tool in numerous industries. Available in two different tension versions.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²
Strap dimensions: 10.0-19.0 x 0.38-0.63 mm
Weight: 4.6 kg (incl. suspension bracket)
Tension versions: 2'500 N/4'500 N



A480



A482

A482

The only tool of its kind that allows a mobile operation as it doesn't require a suspension bracket thanks to its limited weight. Steel strapping with thickness up to 0.90 mm may be applied and the perfect double notch up cut seal joint guarantees an average seal strength of 75%. The modern A482 optimises the strapping of packaging goods especially in the steel- and non ferrous industries.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²
Strap dimensions: 19.0 x 0.63-0.90 mm
Weight: 7.0 kg (incl. suspension bracket)
Tension versions: 4'000 N/7'000 N



A483

The A483 is suitable for the same industries as the A482, however designed heavier and more ruggedly. Also available in two different tension versions, it is designated for applications with 25 and 32 mm wide steel strapping. The feed wheel is lifted pneumatically which allows the insertion of the heavy sized steel strapping without any problem. Ideally suitable for the strapping of steel coils, tubes and rods in various strapping positions, as four different kinds of suspension brackets are available. Outstanding performance under shift- and continuous working conditions.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²
Strap dimensions: 25.0-32.0 x 0.80-1.00 mm
Weight: 19.5 kg (incl. suspension bracket)
Tension versions: 7'000 N/9'500 N
Tool versions: Single button = automatic/Two buttons = semi-automatic

A461

Pneumatic hand sealer for a perfect double notch up cut joint, equipped with a safety mechanism and easy to operate by using just one hand. The safety mechanism prevents poor seal joints as a result of incorrect operation by the user.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²
Strap dimensions: 19.0-32.0 x 0.63-1.00 mm
Weight: 4.2 kg



A452

The pneumatically powered pusher type sealer A452 distinguishes by its very high strap tension of up to 8'500 N. Equipped with a free wheeling system no strap tension is ever lost after the tensioning cycle has been completed. This utterly rugged, fast and yet light tool is not necessarily only suitable for stationary applications only.

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²
Strap dimensions: 19.0-32.0 x 0.63-1.27 mm
Weight: 4.35 kg
Max. strap tension: 8'500 N

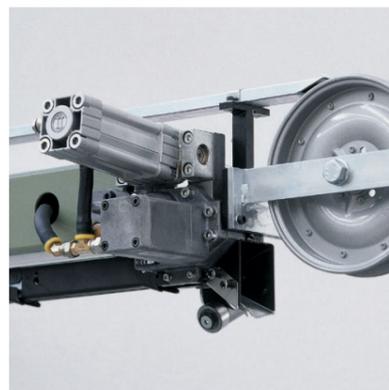


Up cut double notch joint

Semi automatic steel strapping machines (EFS)

The ideal and economical interim solution between strapping with hand tools and strapping with fully automatic systems is certainly the use of semi automatic steel strapping machines. The machines are specially customized designed and are easily integrated into already existing conveyor lines. The steel strapping is automatically fed around the packaging goods. The actual strapping operation is concluded with a well established FROMM hand tool, suspended on a beam.

The models EFS100 to EFS509 cover a wide variety of packaging applications in numerous industries.



E101

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Feeding units:

E101: pneumatically powered, manual
E201: electrically powered, automatic

Strap feeding speed:

E101: 2 m/sec with 6 bar
E201: 1-2 m/sec with 6 bar

Strap dimensions:

E101: 10.0-32.0 x 0.50-0.80 mm
E201: 10.0-32.0 x 0.70-1.00 mm

Min. pack size:

Dependable on hand tool

Max. pack size:

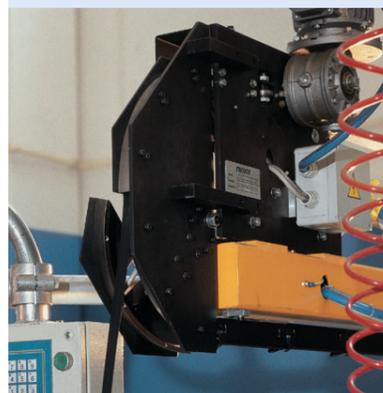
B 2'500 x H 2'500 mm

Available machine types:

- Machine stationary
- Machine travelling longitudinally
- Machine with sword
- Machine for coil strapping
- Machine with integrated bunk feed system



EFS



E201

Fully automatic steel strapping machines (AM)

Fully automatic steel strapping machines allow easy integrated into existing conveyor lines without problems. For the securing of packaging goods in various industries, fully automatic machines with head on top, on the side or located horizontally are available.

The models AM100 to AM800 cover a broad variety of applications and are available with a large selection of options.



AM

Strap qualities:

Regular duty (Uniflex) up to 850 N/mm²
High tensile (Ultraflex) up to 1'100 N/mm²

Strapping heads:

M100: hydraulically powered
MH200: pneumatically powered

Strap dimensions:

M100: 10.0-19.0 x 0.50-0.80 mm
MH200: 19.0-32.0 x 0.70-1.00 mm

Tension:

From 8'500 N up to 18'000 N

Sealing method:

Sealless joint

Average seal strength:

Approx. 80%, depending on strap quality

Min. pack size:

M100: B 300 x H 20 mm
MH200: B 150 x H 150 mm
Max. pack size:
B 2'500 x H 3'000 mm

Available options:

- Dispenser for jumbo coils
- Sword
- Machine travelling
- Corner protection system
- Integrated bunk feed system
- Vertical press-systems up 20 KN press force
- Conveyor systems

Other options and configurations of the machines are available. Please contact our specialist for further information.



M100



MH200