

| STRAPPING |



The largest and safest choice

Whether you choose steel, plastic or textile strapping, you can be sure to find, among our wide selection of tools, equipment and machines, straps and seals, the solution to your specific requirements.

The strapping process

Strap tension, setting the seal or unravelling the straps, for those without a seal, and cutting the strap: all strapping processes follow three stages.

Safety

All equipment and products that we offer conform to current standards: NF EN 13246 and DIN EN 9001, version 2000.

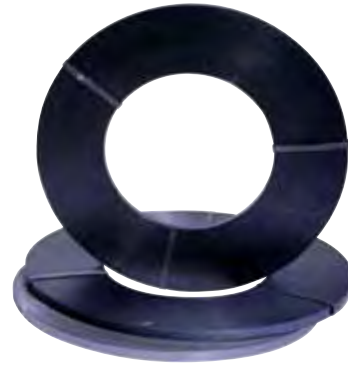
This quality assurance guarantees absolute safety at each stage of the strapping process.

Suitability of strapping solution

The rate, type, weight and volume of the load and its mode of transport etc. determine the best kind of strapping to choose.

Your Cercleurop adviser will help you to find the one that best meets your specific requirements.

► Steel strapping - Straps



YOUR SAFETY GUARANTEES

- Straps to fit all equipment and machines on the market
- Manufacture ISO 9002 certified.
- Deburred straps, with smooth edges, for user safety; Polished for smoother entry into the machine and to ensure a more effective distribution of tension around the load.

BRIGHT FINISHED

Basic quality.
Recommended for use with straps for smaller loads.

Specifications

- Laminated, cut, not heat treated
- Tensile strength: 65-75 kg/mm² (700 / 800 N / mm²)
- Elongation: 2-4 % minimum on L = 5 d.

LACQUERED BLUE-BLACK AND ZINC-COATED

Standard quality, bluish when heated (thermal treatment), better resistance for your money.
Suitable for most uses.

Specifications

- Tensile strength: 75-85 kg/mm² (800 / 900 N / mm²)
- Elongation: 4-6 % minimum on L = 5 d.

HIGH RESISTANT, LACQUERED BLACK AND ZINC COATED

Premium quality.
Maintains its properties in extreme conditions.
Carbon-high manganese steel.

Specifications

- Tensile strength: 95 à 110 kg/mm² (± 1 050 N/mm²)
- Elongation: 12 % minimum on L = 5 d.

With the exception of Jumbos, bright finished straps and straps larger than 19 x 0.9 mm are always ribbon wound.

CHOICE OF FINISHES

For blue, high-resistant straps:

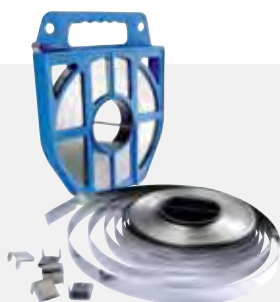
- **Bluish:** as a result of thermal treatment.
- **Black lacquered:** covered in black lacquer after cutting and thermal treatment.
- **Zinc coated:** covered in a zinc-based paint after cutting and colouring blue.
- **Electrolytic galvanised:** zinc coated by electrolysis.

CHOICE OF STRAP TYPE

- **RW (Ribbon Wound):** each convolution overlies the next.
Interior diameter: 300 mm
Exterior diameter: 550-600 mm
Strap weight: between 20 and 30 kg
1 to 3 trays per reel according to size.
- **OW (Oscillated Wound):** scroll-wound or overlapped.
Interior diameter: 406 mm
Exterior diameter: 550 mm - 650 mm
Thickness: ± 60 mm
Average weight of roll: 45 kg.
- **JUMBO, SUPER JUMBO, MEGA JUMBO:** especially suitable for machine use and automatic installations.
High capacity spooling (still OW).
Interior diameter: 406 mm
Exterior diameter: 850 mm - 780 mm - 850 mm
Thickness: ± 190 mm
Average weight of roll: 250, 500 kg or 1 Tonne
Available lengths: 19 and 32 mm.

STRAP SPECIFICATIONS

Dimensions		Rendering metric 100 kg	Finishes		
mm	inches		bright finished	bluish lacquered zincd	high resistance zinc coated and lacquered bluish
12.7 x 0.4	1/2 .15	2,640 mm	x	x	
12.7 x 0.5	1/2 .20	1,980 mm	x	x	x
15.7 x 0.4	5/8 .15	2,110 mm	x	x	
15.7 x 0.5	5/8 .20	1,590 mm	x	x	x
15.7 x 0.6	5/8 .23	1,380 mm	x	x	x
19 x 0.5	3/4 .20	1,320 mm	x	x	x
19 x 0.6	3/4 .23	1,150 mm	x	x	
19 x 0.63	3/4 .25	1,060 mm			x
19 x 0.8	3/4 .31	850 mm	x	x	x
25 x 0.8	1 .31	630 mm	x	x	x
32 x 0.8	1 1/4 .31	510 mm	x	x	x



Portable stainless steel strap

Spool of stainless steel specially.
Designed to keep objects and signs on the outside

- Case 50 metres.
- Thickness: 0.40 or 0.70 mm
- Strap length: 10, 13, 16 and 20 mm

Don't forget the stainless steel seals and Cerclinox Tensioner for strapping.

- **Stainless steel seals R** (box of 100): Available in 10, 13, 16 and 20 mm
- **Bouclinox** (box of 100): Available in 10, 13, 16 and 20 mm



► Steel strapping - Tools for round loads

A wide selection of tools designed specifically for irregular-shaped and round loads, from the simplest to the most complicated.

The “outer strapping” technique guarantees optimum fastening by entering through the notches on the exterior of the load being strapped. **Please note:** all strapping equipment for round loads can also be used for flat loads.

PNEUMATIC COMBINATION TOOLS



PNSC II

Multi-purpose tool for round loads.
For pneumatic tensioning, sealing and cutting.
Straps: 10 - 19 mm
Max. thickness: 0.63 mm.

PRHM/R OU KPR

The recommended tool for circumferential strapping of heavy loads such as spools, tubes, pipes and bars.
For easier handling, we advise you to use a balancer from our range.
Straps: 19 - 32 mm - **Max. thickness:** 1 mm.



Pneumatic strapping requires good air quality.

So for the best result, we advise you to choose a filter-regulator-lubricator from our range to suit your requirements.

MANUAL TENSIONERS AND SEALERS



HR 32 AND MIP 1620 TENSIONERS

A range of tools, chosen for their convenience, mobility and reliability.
These tensioners for tensioning and cutting straps are designed to be used with several strap sizes.
Excellent multi-use function.
Straps: length 12-32 mm, thickness 0.6-1 mm.

HHA AND MIP 3000 SEALERS

Strap sealers for seal crimping, are designed to be used with one length of strap only.
To be used with PN seals (with pneumatic sealer).
Straps: length 19-32 mm, thickness 0.8-1 mm.



To find out which model best suits your requirements:

Please talk to your advisor.

PNEUMATIC TENSIONERS AND SEALERS



PN 114 TENSIONER - PNEUMATIC SEALERS: SPZ AND PCNS2

Assured pneumatic functionality to facilitate tasks.
Recommended for intensive industrial use.
Range especially suitable for re-strapping.

Tensioner

Straps: 19-32 mm - **Max. thickness:** 1 mm.

Sealers

Various models for straps 19-25-32 mm.

Lightweight and easy to use, they allow greater working mobility than a combination tool.

► Steel strapping - Tools for flat loads

Cercleurop has put together a complete range of manual and pneumatic strapping tools.

Whether standard, vertical or horizontal, they meet a broad selection of requirements. Products chosen for their outstanding performance in their category.

MANUAL TENSIONERS AND SEALERS



MIP 1200 / 1300 / 1400

A selection of sturdy and easy-to-use tensioners. Available in several models for **straps measuring 13-31 mm, thickness 0.4-0.8 mm.**

SEALER MIP 1100

Ideal because of their double crimping action which ensures maximum safety. Available in several models for **straps measuring 13-16-19, thickness 0.4-0.6 mm.** Models available for other dimensions and thicknesses.

! For thicknesses greater than 0.6 mm, use the MIP 3000 sealer (featured on p.19).

Sealless Tools

The sealless technique saves strapping time and the cost of seals and their application. The 2 straps are crimped by a special kind of punching action, providing resistance that is almost on a par with seal strapping. Also, this system allows loosened straps to be re-tightened without losing their grip (stacked pallets, wood, cartons...).

SEALLESS MANUAL COMBINATION TOOLS



HKE

Lightweight and remarkably efficient. Particularly recommended for **High Resistance 13-19 mm straps with a maximum thickness of 0.63 mm.**

COP 122 / SCM

Tools weighing 3.5 kg, heavy duty, extremely easy to handle and low maintenance. As efficient when used vertically as horizontally. For **13-19 mm steel straps with a maximum thickness of 0.6 mm.**

SEALLESS PNEUMATIC COMBINATION TOOLS



PKE / SPC

Fast, powerful, easy-to-use combination tools. For **High Resistance 13-19 mm straps with a maximum thickness of 0.63 mm.**

PKD

Sturdy model, recommended for heavy industrial use. For **High Resistance 19-32 mm straps with a maximum thickness of 1 mm.** For ease of use, we recommend it is used with a balancer from our range.

! Pneumatic strapping requires good air quality.

We therefore recommend the use of filter-regulator-lubricators from our range to suit your equipment.

SEALLESS SEMI-PNEUMATIC COMBINATION TOOL



HPE

A manual pneumatic combination tensioner and sealing tool. Good compromise between manual and pneumatic tools for obtaining optimum tension with the least amount of effort. For **High Resistance 13-19 mm straps with a maximum thickness of 0.63 mm.**



► Steel Strapping - USLM lifting-lashing

STRAP LIFTING-LASHING

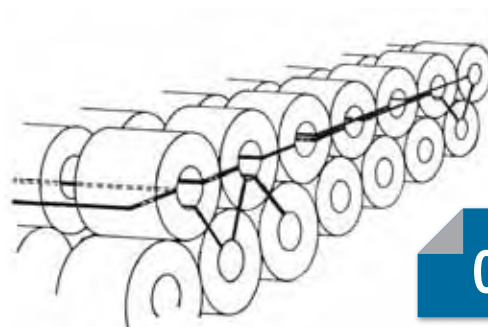


The Unit Strap Lifting Method is an innovative, high-performance system. Proven by years of experience in the maritime industry, these strapping solutions combine methods which offer exceptional technical capability with those that are suitable for loading and transporting straps, especially in the hold.

They include a wide selection of fastening and loading equipment and accessories.

Low cost, heavy duty and reliable, USLM solutions allow:

- assembly of several loads at a time, which optimises loading time.
- port transit to be made safer thanks to a reduction in the number of merchandise-transfer-related accidents.



Securing loads in the hold
Cohesion prevents them from moving during transportation and therefore makes the ship safer.

CONTACT US!

► Steel strapping - Machines

MD-H



The Signode MD-H machine is designed for packaging applications that require horizontal strapping, usually with polypropylene or polyester straps, in order to ensure the safety and stability of products during handling and transportation.

The Signode MD-H machine can be used in any configuration of palletised products whose perimeter is no more than 6,000 mm.

In order to accept loads of varying perimeters, the MD-H can be fitted with a mobile head.

All of the functions of the MD-H machine are fully automatic.

Z 20



The Signode Z 20 strapping machine is specifically for the wood, brick and metal industries.

The innovative feature of the Signode Z 20 is its use of two separate units for tensioning and sealing. This facilitates maintenance and reduces operational pauses to the maximum.

A unit may be changed within minutes.

The Signode Z 20 specifically uses 16 and 19 mm polyester straps.

► Steel strapping - Accessories

The range of accessories selected by Cercleurop comprises products chosen for their efficiency and productivity.

With the accessories market rapidly expanding, the company regularly sources the latest in tools and equipment. If you want us to keep you updated with the latest, please contact us.

STRAP DISPENSERS



Cercleurop has a range of 30 different dispensers.

MULTI-PURPOSE DISPENSER

An ultra-easy-to-handle model, with a “hand truck” design. Fitted with a spool brake and tray for seals and tools. Highly durable synthetic wheels. Holds polyester straps measuring 406 mm in diameter, 150 mm in width and cross-wound (CW) steel straps measuring 406 mm in diameter and 75 mm in width.

DISPENSER DFM 114

Product designed for heavy duty use. Accepts steel straps. Loads easily.

DISPENSER DA 34114

Accepts steel straps. Spool is horizontal.

DISPENSER TYPE A (A 104 / A 106 / A 108)

A series reserved for ribbon wound (RW) straps. 3 possible models depending on the size of the strap: 10-32 mm.

CUTTERS



SINGLE CUTTERS

All the cutters selected for you are sturdy and safe. Your choice depends on the size of the straps that are to be cut.

CU 30: for straps measuring 10-19 mm, thickness 0.6 mm.

GF 5: for straps measuring 16-32 mm, thickness 0.9 mm.

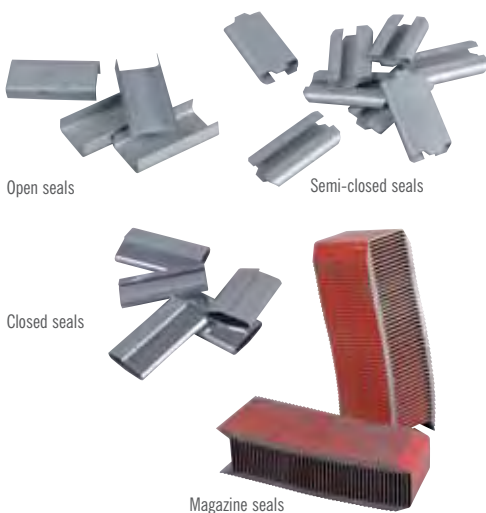
H 300: model with extra long arms to assist cutting; for straps measuring 10-19 mm.

BR 50: for straps measuring 25-32 mm, thickness 1.25 mm.

SAFETY CUTTERS

Super Tymer has a patented safety system which prevents the strap from “lifting” as it is cut. For straps measuring 19-32 mm, thickness 0.9 mm.

SEALS



Cercleurop produces and distributes a wide selection of seals, grouped into 4 categories. For each category we offer several sizes as well as finishes - plain, lacquered, printed and stamped. Please do not hesitate to ask our advice. We manufacture most seals on the market.

OPEN SEALS, SEMI-CLOSED SEALS

Use: simple hand tools for flat loads.

Application: placed on the strap before or after tensioning.

Length: standard or long, depending on whether there is single or double crimping.

CLOSED SEALS

Use: round or irregular-shaped loads.

Application: placed on the strap before tensioning.

MAGAZINE SEALS

Use: with open seals on the loader.

Application: placed in combination tool or automatic machine.



► Plastic strapping - Equipment and Combination Tools

The range of equipment, tools and plastic straps that we offer is designed for all types of uses.

All our products conform to strict manufacturing standards and quality controls, guaranteeing complete safety and optimum productivity.

MANUAL COMBINATION TOOL FOR ROUND LOADS



MRS

A combination tool for strapping round, fragile and small loads. Easy crimping in every position. For 12-16 mm polypropylene straps with a maximum thickness of 0.6 mm. Seals used; MRS.

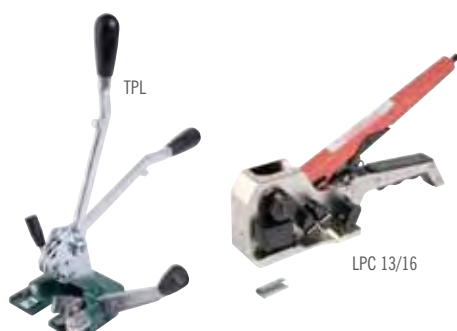
TENSIONERS AND SEALERS FOR FLAT LOADS



TC / PC

A cost-effective tensioner and sealer in one, designed for occasional use. Works in any position. For 13-16 mm polypropylene straps and KU seals.

MANUAL COMBINATION TOOL FOR FLAT LOADS



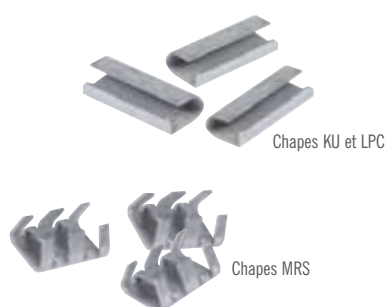
TPL

The most cost-effective combination tool for flat strap strapping up to 60 kg. Accepts 12-16 mm polypropylene straps with a maximum thickness of 0.6 mm. Seals used: KU or KUR.

LPC 13/16

A robust and easy-to-handle combination tool, as suitable for horizontal strapping as it is for vertical strapping. Designed for strapping heavy loads because of its tensile strength. Fastens by pressing down seal. For 13-16 mm polyester or polypropylene straps, maximum thickness: 0.8 mm. Seals used: LPC.

SEALS



Since we have seals to fit all the tools and plastic straps in our range, you will always find what you need.

KU / KUR SEALS

Closed and semi-closed available. For 12-16 mm straps. KU thickness: 0.4 mm. KUR thickness: 0.5 mm.

LPC SEALS

Serrated, "anti-slip" seals for combined tool LPC 13 and 16 mm.

MRS SEALS

Crimp seal for unremovable sealing suitable for MRS tool only.

► Plastic Strapping - Equipment and Combination Tools

BATTERY OPERATED ELECTRIC PORTABLE COMBINATION TOOL



! Tension reduced with the BXT 10/13 (0-700 N).

BXT 13/16/19 MM

It's the most developed and successful combination tool of its kind. With an up-to-the-minute battery, it is especially lightweight, easy to handle and with a better range than its competitors. Its ergonomic design reduces operator fatigue and can be used for all types of strapping, from everyday use to heavy duty (construction products, metallurgy). Tension levels (400-3,300 N) and welding times can be pre-set with an easy-to-use electronic control panel.

For 9-19 mm polypropylene, polyester and Signode straps up to 1.27 mm in thickness.

PNEUMATIC COMBINATION TOOL FOR "SERIES VT" POLYESTER ROLLS



The VT series offers a complete range of pneumatic friction-fusion welding tools.

Your choice of model depends on the type of products you are going to be strapping, which will determine the tension level required.

For 10-25 mm polypropylene and polyester straps.

PLASTIC STRAPPING DISPENSER TROLLEYS



35 C

B 03

Multi-purpose dispenser

STRAPPING DISPENSER TROLLEYS: 35 C AND B 03

Cercleurop offers a full range of strapping dispenser trolleys with or without end-plates, complete with a spindle and spool.

For further information, please contact us.

VERSATILE DISPENSER TROLLEY

An ultra easy-to-handle dispenser, with a "hand-truck" design... Model comes with a spool brake, tool tray and hard-wearing wheels. For polypropylene and polyester strap: diameter 406 mm, width 150 mm.



► Plastic strapping - Straps for automatic machines

Your Cercleurop guarantee:

- Our strapping tapes are compatible with all automatic and semi-automatic machines on the market.
- Our range includes straps which can be used with welding tools.
- All our products conform to strict ISO standards and quality controls, guaranteeing size consistency, smoothness and a clean cut, for total work safety.
- All our products and their packaging are recyclable and help respect the environment.
- Your strapping tapes can be printed with personalised messages: logos, corporate name, message... You can trust us to take care of the safety and inviolability of your loads during transportation.

POLYPROPYLENE STRAP

The most popular choice.
Can be used for most applications.
Available in a number of sizes and thicknesses.



Sizes*	Tensile strength (kg)	Metres per reel		
		Ø 200 mm	Ø 280 mm	Ø 406 mm
5 x 0.45	60	7,500		
6 x 0.55	60	5,000	4,000	
8 x 0.55	92	4,000	3,000	
9 x 0.55	104	4,000	3,000	4,000
12 x 0.55	130	3,000	2,500	3,000
15.5 x 0.55	170	2,500	1,800	2,500
8 x 0.63	80	4,000	3,000	
9 x 0.63	104	3,600	2,600	
12 x 0.63	140	3,000	2,100	3,000
15 x 0.63	175	2,500	1,800	2,000
12 x 0.73	180	2,200	1,800	2,000
15.5 x 0.73	220	2,000	1,500	1,800

*Please ask us about other sizes.

COPOLYMER STRAPS

Recommended for loads requiring careful handling.
Bioriented texture with a polypropylene base, good elongation and recovery properties.

! Available in many other sizes.
For further information, please contact us!

POLYESTER STRAP

Excellent technical specifications, which make it ideal for pallet strapping.
Very high break strength, excellent retained tension and recovery properties and shock-resistant.



Sizes*	Tensile strength (kg)	Metres per reel	Appearance/Colour
9.3 x 0.57	223	3,000	E transparent green
12.5 x 0.47	220	2,750	E transparent green
12.5 x 0.57	284	2,500	E transparent green
12.5 x 0.67	336	2,000	E transparent green
15.3 x 0.62	379	1,700	E transparent green
15.3 x 0.72	422	1,600	E transparent green
15.3 x 0.82	507	1,350	E transparent green
18.5 x 0.85	645	1,000	E transparent green
18.5 x 1	732	920	E transparent green

*Please ask us for other sizes.

E: Embossed



► Plastic strapping - Machines

SEMI-AUTOMATIC STRAPPING MACHINE CPI-95



- Versatile, compact strapping table.
- Straps flat, long and concave loads.
- A heavy-duty model with stainless steel table, low maintenance and high technical performance.
- Easy to use: the operator places the strapping tape around the load, the machine pulls the tape tight, seals it and cuts it.
- Adjustable sealing temperature and tension level.
- Sealing time may be longer for heavy-duty straps.
- For 6-15 mm straps.
- Adjustable table height.
- Variable tension control.

SEMI-AUTOMATIC STRAPPING MACHINE D-53

- The most versatile semi-automatic machine.
- Suitable for strapping most kinds of loads, especially when passing the strap through the centre of bundles of wires, pipes, tyres...
- Optimisation of a beltless model, the first of its generation.
- Tension between 2 and 50 kgf, is kept stable by a newly-designed steel pivoting track.
- Fast heating: 30 seconds.
- Fast strapping, from the moment the strap is inserted into the threader.
- Frame-table provides large work area, is compact, lightweight, and portable.
- For 5 to 16 mm straps.
- Tension can be adjusted using a regulator.



VERTICAL PALLET STRAPPING MACHINE: D-53 LPT



- The most innovative semi-automatic palletising machine on the market.
- Choice of two kinds of tension - manual or automatic.
- Consistent tension of between 9 and 70 kgf.
- Easy to use.
- Fast-heating - 30 seconds.
- Adjustable bayonet height makes cross strapping possible.
- Detection device on frame for uniform strapping.
- Very low (332 mm from the ground) sealing point for strapping smaller pallets.
- Optional battery for greater flexibility.
- For straps from 12 mm.

► Plastic strapping - Machines

AUTOMATIC STRAPPING MACHINE: CPI 94



- Heavy-duty, reliable and economical, this machine offers the best value for money for a model that is new to the range.
- Control box-operated, using a button and a pedal system to run the entire strapping process.
- Externally adjustable strap tension and a thermofusion welding system for reduced operator intervention and a lubrication-free process.
- Versatile and ergonomic: takes 9, 13 and 16 mm polypropylene straps, with a maximum thickness of up to 0.7 mm.
- Cycles up to 1,400 straps per hour.
- Energy-saving: requires 220 V / TRI or 380 V / TRI and comes in various chute sizes.
- Conforms to EC directives.

HIGH PERFORMANCE STRAPPING MACHINE: RQ-8

- Recognised as the safest multi-purpose strapping machine on the market.
- Known for having the lowest maintenance costs.
- Combines reliability, speed and user-friendliness.
- Very fast: 40 straps a minute.
- Lever-controlled, automatic strap loading.
- Perfect strap feed reduces risk of jamming.
- Self-lubricating mechanism for permanent optimum functioning.
- Welding head ready to use in fewer than 25 seconds.
- Pre-adjusted variable tension up to 80 kgf.
- Self-diagnostic mechanism, controlled by microprocessor.
- Machine has options for personalising any type of application.
- For use with 5-16 mm straps.
- Single-phase current.
- Conforms to EC directives.



FULLY AUTOMATIC CONVEYOR BELT STRAPPING MACHINE: RQ8-A



- Increased productivity thanks to its high speed strapping.. Ideal for high output operator-free automatic packaging.
- Table is driven by band or rollers with synchronised bidirectional conveyor belts.
- Lever-controlled automatic strap loading means the operator is free from repetitive movements.
- Adjustable strap positioning with cartridges.
- Self-diagnostic and correction technology with integrated micro-processor - Automatic cut-off when spool is empty; strap buckle is ejected when strapping cycle is started without the load...
- Welding head heats up in 25 seconds.
- Conforms to EC directives.



► Polyester textile strapping

Polyester textile strapping is an interesting alternative to steel strapping.

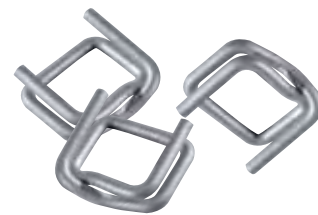
It is not only tough and resistant but also lightweight and flexible, with no sharp edges, and does not slacken or lose its tension. It is used for tying up steel pipes, strapping frames, vats, tins and wood bundles. Strapping buckles made of galvanised steel also allow the load to be tightened before it is dispatched. The products and tools we offer here have been selected for their excellent technical specifications.



Strapping tool TC



Portable strapping dispenser trolley SWN



Strapping buckles

STRAPPING TOOL: TC

- A tensioner with remarkable tensile strength and efficiency. Also cuts strapping tape.
- Easy to use in every position.
- Different models, depending on application.

MOBILE STRAPPING DISPENSER TROLLEY SWN

- Mobile, practical, lightweight and stable.
- Comes with a tool and accessories tray.

STRAPPING BUCKLE

- Designed for high tensioning.
- Made of galvanised steel for strength, or phosphate-covered to avoid strap slippage.
- Available in different lengths, fits strap sizes: 9-40 mm.
- Also available in plastic.
- Special "lifting-lashing" model: 35-50 mm. Available on request



► Polyester textile strapping

POLYESTER STRAP



! Strap can be re-tensioned with strapping buckle.

- Weather resistant, resilient and elastic.
- The choice of model depends on the nature and weight of the load.
- Hot melt textile and woven cords offer very high resistance for less cost.
- Does not lose original tension when volume decreases (e.g.: when wood loses its moisture).

POLYESTER STRAP			
Sizes (mm)	Break strength	Packaging	
BONDED HOT MELT STRAP			
9 mm x 1,500 m	Break strength 280 kg	2 reels per carton	60 reels per pallet
13 mm x 1,100 m	Break strength 353 kg	2 reels per carton	60 reels per pallet
16 mm x 850 m	Break strength 423 kg	2 reels per carton	60 reels per pallet
19 mm x 600 m	Break strength 520 kg	2 reels per carton	60 reels per pallet
REINFORCED CORD STRAP			
13 mm x 750 m	Break strength 500 kg	2 reels per carton	60 reels per pallet
16 mm x 600 m	Break strength 600 kg	2 reels per carton	60 reels per pallet
19 mm x 500 m	Break strength 725 kg	2 reels per carton	60 reels per pallet
25 mm x 500 m	Break strength 950 kg	2 reels per carton	60 reels per pallet
30 mm x 150 m	Break strength 1,170 kg	2 reels per carton	140 reels per pallet
35 mm x 150 m	Break strength 1,350 kg	2 reels per carton	112 reels per pallet
38 mm x 100 m	Break strength 2,000 kg	2 reels per carton	112 reels per pallet
REINFORCED WOVEN CORD STRAP			
13 mm x 1,100 m	Break strength 380 kg	2 reels per carton	60 reels per pallet
16 mm x 850 m	Break strength 450 kg	2 reels per carton	60 reels per pallet
19 mm x 600 m	Break strength 550 kg	2 reels per carton	60 reels per pallet
BALED CORD STRAP			
9 mm x 500 m	Break strength 280 kg	4 reels per carton	192 reels per pallet
13 mm x 500 m	Break strength 380 kg	4 reels per carton	192 reels per pallet
16 mm x 350 m	Break strength 450 kg	4 reels per carton	192 reels per pallet
19 mm x 300 m	Break strength 725 kg	4 reels per carton	192 reels per pallet

COMPOSITE STRAP



- Recommended for strapping heavy and bulky objects.
- Specific advantages: its rust-resistant, reinforced structure offers maximum resistance, does not fray.
- Coextruded with several synthetic materials, offering greater strength.
- Polyester fibres coated with a waterproof protective PE. This rigid quality can be supplied in different colours on specific demand.

COMPOSITE STRAP		
Length in mm	Reel length in metres	Break strength
13 (sd)	1,100 m	300 kg
16 (sd)	850 m	425 kg
16 (renf.)	600 m	580 kg
19 (sd)	600 m	455 kg
19 (renf.)	500 m	650 kg
25 (renf.)	400 m	850 kg