

FROMM | PACKAGING
SYSTEMS

Steel Strapping Tools



A332/A333

Tried and tested universal tools for all applications. Reliable, rugged and service-friendly. Characterized by their simple operation and light weight, the A332 and A333 have become indispensable helpers worldwide. Both types are available with the torque wrench tensioning system (TW model).

Strap quality:

Regular duty steel strap (Uniflex) up to 850 N/mm²

Strap dimensions:

9.5 – 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 model)
A332: 3.7 kg, A333: 4.3 kg (TW model)



A335

The A335 is identical in design to the A333 but is fitted with a specially machined feed wheel and gripper and is therefore suitable for use **with high tensile steel strapping bands**. Also available with the torque wrench tensioning system (TW model).

Strap quality:

High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

12.7 – 19.0 x 0.50 – 0.58 mm

Weights:

3.9 kg (standard model)
4.3 kg (TW model)



A337

with MicroLock™ safety joint

An ideal tool for a wide range of vertical and horizontal strapping applications for flat goods in almost all industries. The unique innovative punching of the sealless MicroLock™ joint guarantees even greater safety. Opening and closing by the recoil effect is rendered impossible. The MicroLock™ seal is very popular for strapping packages which for instance are subject to shrinkage due to drying out.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

9.5 – 20.0 x 0.38 – 0.63 mm

Weights:

4.45 kg (standard model)
4.70 kg (TW model)



A338

The special gearing permits **very high strap tension** of a maximum of 5500 N with a force of only 240 N. A handy tool suitable for flat goods and characterized by its convenience and strength.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

12.7 – 19.0 x 0.50 – 0.70 mm

Weights:

5.7 kg (standard model)
5.9 kg (TW model)



Punched sealless joint



Manual sealless steel strapping tools

Manual sealless strapping tools are ideal for flat goods such as pallets, crates, bales and all kinds of packages. The tools are characterized by their reliability, strength, ergonomic design principles and service friendliness. The proven sealless joint permits extremely rational working, reducing strapping costs by ca. 10%. The strength of the sealless joint is very uniform and normally higher than that of joints with seals.

Manual sealless steel strapping tool



Characteristics

Strapping qualities:	Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 12.7 – 19.0 mm / ½ – ¾"
thicknesses	0.50 – 0.58 mm / .020 – .023"
Weights:	3.9 kg / 8.9 lbs Normal-version
	4.3 kg / 9.5 lbs TW-version
Average seal strength:	approx. 80 %
TW-version available:	Torque wrench tensioning system
Suspension (Optional):	Bolt and grip ball for horizontal applications; have to be ordered separately
	Suspension bracket for vertical applications; has to be ordered separately

Advantages

- Handy light weight sealless combination tool to strap flat packages (i.e. pallets, bales, crates, cases, various packages)
- Permits a very easy and efficient operation and outperforms other strapping tools by its ruggedness and its high reliability
- The sealless joint reduces the overall strapping costs by approx. 10% through the elimination of the seals
- Thanks to its weight of 3.9 kg / 8.6 lbs only, it is very suitable for horizontal applications
- The consistency of the seal efficiency of the sealless joint is very high and as a general rule it is higher than joints using a separate seal

Chart of types model A335

Item No.	Model	Ultraflex max. 1100 N/mm ² / 160'000 psi			
		Width		Thicknesses	
		mm	inch	mm	inch
13.2770	A335/12.7/0.50-0.58	12.7	1/2"	0.50-0.58	.020-.023
13.2780	A335/13/0.50-0.58	13		0.50-0.58	.020-.023
13.2790	A335/16/0.58	16	5/8"	0.50-0.58	.020-.023
13.2810	A335/19/0.58	19	3/4"	0.50-0.58	.020-.023

Chart of types model A335 with torque wrench tensioning system

Item No.	Model	Ultraflex max. 1100 N/mm ² / 160'000 psi			
		Width		Thicknesses	
		mm	inch	mm	inch
13.2771	A335/12.7/0.50-0.58/TW	12.7	1/2"	0.50-0.58	.020-.023
13.2781	A335/13/0.50-0.58/TW	13		0.50-0.58	.020-.023
13.2791	A335/16/0.58/TW	16	5/8"	0.50-0.58	.020-.023
13.2811	A335/19/0.58/TW	19	3/4"	0.50-0.58	.020-.023

TW = Torque wrench tensioning system

Accessories

A33.4101	Bolt for horizontal applications (in combination with grip ball N4.1116)
N4.1116	Grip ball for horizontal applications (in combination with bolt A33.4101)
A33.0113	Suspension for vertical applications

Manual sealless steel strapping tool with MicroLock™

**Characteristics**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 9.5 – 20.0 mm / $\frac{3}{8}$ – $\frac{3}{4}$ "
thicknesses	0.38 – 0.63 mm / .015 – .025"
Weights:	4.45 kg / 9.8 lbs Normal-version 4.7 kg / 10.4 lbs TW-version
Sealless joint:	Fromm MicroLock™
Average seal strength:	approx. 80 %
TW-version available:	Torque wrench tensioning system
Suspension (Optional):	Suspension for vertical and horizontal applications; has to be ordered separately Handle for horizontal applications; has to be ordered separately

Advantages

- The MicroLock™ sealless system guarantees a maximum of security of the sealless steel strapping joint against unlocking
- The tool can handle regular duty and high tensile steel strapping
- The tool can handle steel strapping up to a thickness of 0.64 mm / .025"
- Thanks to the special tensioning system (free wheeling) no loss of strap tension
- The sealing mechanism is completely closed
- The adjustment of the cutting and sealing depth is simple
- The feed wheel and the die and cutter support are easy to change

Chart of types model A337

Item No.	Model	Width		Thicknesses		Quality
		mm	inch	mm	inch	
13.1850	A337/9.5/0.38-0.50/UNI	9.5	3/8"	0.38-0.50	.015-.020	Uniflex
13.1852	A337/9.5/0.38-0.50/ULT	9.5	3/8"	0.38-0.50	.015-.020	Ultraflex
13.1860	A337/10/0.38-0.50/UNI	10		0.38-0.50	.015-.020	Uniflex
13.1862	A337/10/0.38-0.50/ULT	10		0.38-0.50	.015-.020	Ultraflex
13.1870	A337/12.7/0.38-0.50/UNI	12.7	1/2"	0.38-0.50	.015-.020	Uniflex
13.1872	A337/12.7/0.51-0.63/UNI	12.7	1/2"	0.51-0.63	.021-.025	Uniflex
13.1874	A337/12.7/0.38-0.50/ULT	12.7	1/2"	0.38-0.50	.015-.020	Ultraflex
13.1876	A337/12.7/0.51-0.63/ULT	12.7	1/2"	0.51-0.63	.021-.025	Ultraflex
13.1880	A337/13/0.38-0.50/UNI	13		0.38-0.50	.015-.020	Uniflex
13.1882	A337/13/0.51-0.63/UNI	13		0.51-0.63	.021-.025	Uniflex
13.1884	A337/13/0.38-0.50/ULT	13		0.38-0.50	.015-.020	Ultraflex
13.1886	A337/13/0.51-0.63/ULT	13		0.51-0.63	.021-.025	Ultraflex
13.1890	A337/16/0.38-0.50/UNI	16	5/8"	0.38-0.50	.015-.020	Uniflex
13.1892	A337/16/0.51-0.63/UNI	16	5/8"	0.51-0.63	.021-.025	Uniflex
13.1894	A337/16/0.38-0.50/ULT	16	5/8"	0.38-0.50	.015-.020	Ultraflex
13.1896	A337/16/0.51-0.63/ULT	16	5/8"	0.51-0.63	.021-.025	Ultraflex
13.1910	A337/19/0.38-0.50/UNI	19	3/4"	0.38-0.50	.015-.020	Uniflex
13.1912	A337/19/0.51-0.63/UNI	19	3/4"	0.51-0.63	.021-.025	Uniflex
13.1914	A337/19/0.38-0.50/ULT	19	3/4"	0.38-0.50	.015-.020	Ultraflex
13.1916	A337/19/0.51-0.63/ULT	19	3/4"	0.51-0.63	.021-.025	Ultraflex
13.1920	A337/20/0.38-0.50/UNI	20		0.38-0.50	.015-.020	Uniflex
13.1922	A337/20/0.51-0.63/UNI	20		0.51-0.63	.021-.025	Uniflex
13.1924	A337/20/0.38-0.50/ULT	20		0.38-0.50	.015-.020	Ultraflex
13.1926	A337/20/0.51-0.63/ULT	20		0.51-0.63	.021-.025	Ultraflex

 Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi

 Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

Manual sealless steel strapping tool for high tension



Characteristics

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 12.7 – 19.0 mm / ½ – ¾"
thicknesses	0.50 – 0.70 mm / .020 – .028"
Weights:	5.7 kg / 12.6 lbs Normal-version 5.9 kg / 13.0 lbs TW-version
Average seal strength:	approx. 80 %
Versions available:	Torque wrench tensioning system MicroLock™ system
Suspension (Optional):	Suspension for vertical and horizontal applications; has to be ordered separately Handle for horizontal applications; has to be ordered separately

Advantages

- The special tensioning gear-system allows a high strap tension of up to 5500 N (1240 lbs) with a limited amount of tensioning effort of only 240 N (54 lbs)
- Handy sealless combination tool to strap flat packages (e.g. pallets, bales, crates, cases, various packages)
- Permits a very easy and efficient operation and outperforms other strapping tools by its ruggedness and its high reliability
- The sealless joint reduces the overall strapping costs by approx. 10% through the elimination of the seals
- The MicroLock™ sealless system guarantees a maximum of security of the sealless steel strapping joint against unlocking

Chart of types model A338

Item No.	Model	Width		Uniflex Thicknesses		Ultraflex Thicknesses	
		mm	inch	mm	inch	mm	inch
13.2910	A338/12.7/0.50-0.64	12.7	1/2"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2911	A338/12.7/0.50-0.64/TW	12.7	1/2"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2915	A338/12.7/0.70/UNI	12.7	1/2"	0.70	.028	-	-
13.2916	A338/12.7/0.70/UNI/TW	12.7	1/2"	0.70	.028	-	-
13.2920	A338/13/0.50-0.64	13		0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2921	A338/13/0.50-0.64/TW	13		0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2925	A338/13/0.70/UNI	13		0.70	.028	-	-
13.2926	A338/13/0.70/UNI/TW	13		0.70	.028	-	-
13.2930	A338/16/0.50-0.64	16	5/8"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2931	A338/16/0.50-0.64/TW	16	5/8"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2935	A338/16/0.70/UNI	16	5/8"	0.70	.028	-	-
13.2936	A338/16/0.70/UNI/TW	16	5/8"	0.70	.028	-	-
13.2940	A338/19/0.50-0.64	19	3/4"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2941	A338/19/0.50-0.64/TW	19	3/4"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2945	A338/19/0.70/UNI	19	3/4"	0.70	.028	-	-
13.2946	A338/19/0.70/UNI/TW	19	3/4"	0.70	.028	-	-

 Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi

 Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

TW = Torque wrench tensioning system

Chart of types model A338 with MicroLock™

Item No.	Model	Width		Uniflex Thicknesses		Ultraflex Thicknesses	
		mm	inch	mm	inch	mm	inch
13.2950	A338/12.7/0.50-0.64/ML	12.7	1/2"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2951	A338/12.7/0.50-0.64/ML /TW	12.7	1/2"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2955	A338/12.7/0.70/UNI/ML	12.7	1/2"	0.70	.028	-	-
13.2956	A338/12.7/0.70/UNI/ML /TW	12.7	1/2"	0.70	.028	-	-
13.2960	A338/13/0.50-0.64/ML	13		0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2961	A338/13/0.50-0.64/ML /TW	13		0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2965	A338/13/0.70/UNI/ML	13		0.70	.028	-	-
13.2966	A338/13/0.70/UNI/ML /TW	13		0.70	.028	-	-
13.2970	A338/16/0.50-0.64/ML	16	5/8"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2971	A338/16/0.50-0.64/ML /TW	16	5/8"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2975	A338/16/0.70/UNI/ML	16	5/8"	0.70	.028	-	-
13.2976	A338/16/0.70/UNI/ML /TW	16	5/8"	0.70	.028	-	-
13.2980	A338/19/0.50-0.64/ML	19	3/4"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2981	A338/19/0.50-0.64/ML /TW	19	3/4"	0.50-0.64	.020-.025	0.50-0.64	.020-.025
13.2985	A338/19/0.70/UNI/ML	19	3/4"	0.70	.028	-	-
13.2986	A338/19/0.70/UNI/ML /TW	19	3/4"	0.70	.028	-	-

Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi

Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

TW = Torque wrench tensioning system

ML= MicroLock™

Accessories

A33.5301 Suspension for vertical and horizontal applications

A33.5307 Handle for horizontal applications



Pneumatic sealless steel strapping tools

Areas of application for pneumatic, sealless strapping tools are identical to those for manual tools. The same also applies to the characteristics of the sealless notched joint. The essential advantage is in faster strapping, uniformly and ideally tensioned straps plus the efficient mode of working.

Time savings are considerable, particularly when long band take-ups are required, for instance with compressible packed goods and extremely large crates and pallets. Pneumatically powered tools combined with semi-automatic strap feed systems increase productivity even further.



A380

The A380 is used mainly in the timber and construction material industry. The massively constructed tool is characterized in particular by its reliability in shift work and with continuous operation under the most rigorous conditions. Supplied as a semi and fully automatic model, it is also produced in four tensioning levels. It is recommended to use the tool in suspended mode.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

12.7 – 25.0 x 0.50 – 1.00 mm

Weights:

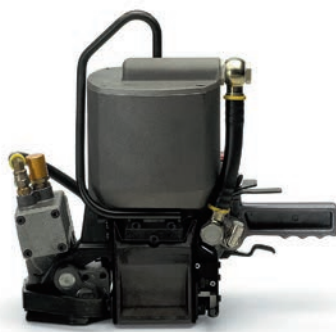
17.4 and 18.4 kg (with suspension bracket)

Strap tensions:

4500 N, 6500 N, 7500 N, 9500 N

Models:

Single button = fully automatic
Two-button = semi-automatic



A383

The A383 is the big brother of the A380. Heavier and larger, it is intended for the same industries. Also available in two models; especially suitable for 25 and 32 mm wide steel straps.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

19.0 – 32.0 x 0.63 – 1.30 mm

Weight:

24.0 kg (incl. suspension bracket)

Strap tensions:

10000 N, 15000 N



A385

The high-performance tool with MicroLock™ sealless joint 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 steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

9.5 – 20.0 x 0.38 – 0.63 mm

Weights:

10.5 kg (incl. suspension bracket)

Tension versions:

2200 N, 3500 N, 4100 N, 6500 N



A390/A391

Semi-automatic strapping tools for the pneumatic tensioning and manual sealless joining of steel straps. The pneumatic drive for the tensioning system guarantees fast and uniform tensioning. The low tool weight (5.1 kg) permits efficient working without the need for suspension.

Strap qualities:

A390:
Regular duty steel strap (Uniflex) up to 850 N/mm²
A391:
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

9.5 – 20.0 x 0.38 – 0.58 mm

Weight:

5.1 kg (A390/A391)

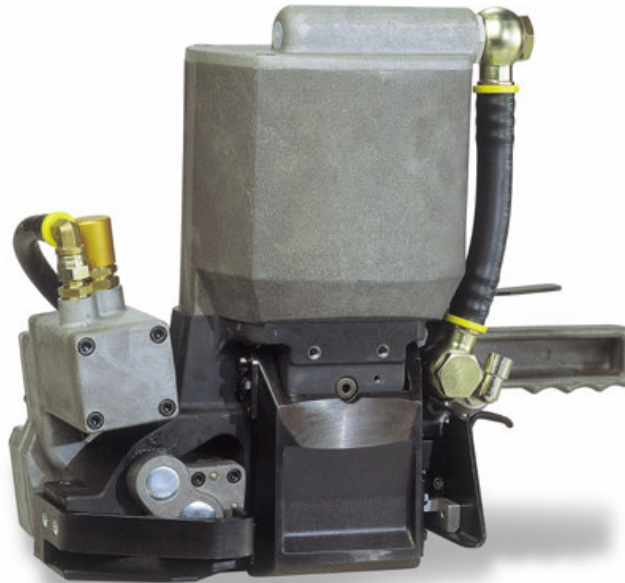
Max. tension:

6000 N



Punched sealless joint

Pneumatic sealless combination steel strapping tool

**Characteristics**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 19.0 – 32.0 mm / 3/4 – 1 1/4"
thicknesses	0.63 – 1.30 mm / .025 - .050"
Weights:	23.5 kg / 51.8 lbs without suspension
	24.0 kg / 52.9 lbs with suspension (Standard A38.2401)
Average seal strength:	approx. 80 %
Strap tension:	The tool is available for two different stages for strap tension, see chart
Suspensions (Optional):	Suspension bracket for standard application is supplied with the tool. Three different suspension brackets are available; have to be ordered separately, see accessories

Advantages

- Robust heavy duty strapping machine for flat packages, the perfect tool for high tension applications, designed for demanding applications in a rough environment
- Ruggedly designed high performance strapping tool meeting the requirements of the most demanding applications
- High reliability reduces down time; easy to service
- Easy simultaneous loading of both straps and pneumatic operation increase productivity considerably
- Pneumatic tensioning guarantees even tension of all straps applied
- The sealless joint reduces the overall strapping costs by approx. 10 % through the elimination of the seals

Chart of types model A383

Item No.	Model	Strap widths		Thicknesses		Max. Tension		Tension speed	
		mm	inch	mm	inch	N	lbs	mm/s	inch/s
13.6702	A383/19/0.80-0.90/ULT/15.0	19	3/4"	0.80-0.90	.031-.035	15000	3370	95	3.7
13.6710	A383/25/0.80-0.90/10.0	25	1"	0.80-0.90	.031-.035	10000	2250	145	5.7
13.6720	A383/25/0.80-0.90/15.0	25	1"	0.80-0.90	.031-.035	15000	3370	95	3.7
13.6730	A383/25/1.00/UNI/15.0	25	1"	1.00	.040	15000	3370	95	3.7
13.6731	A383/25/1.30/UNI/15.0	25	1"	1.30	.051	15000	3370	95	3.7
13.6739	A383/32/0.63/ULT/10.0	32	1 1/4"	0.63	.025	10000	2250	145	5.7
13.6740	A383/32/0.80-0.90/10.0	32	1 1/4"	0.80-0.90	.031-.035	10000	2250	145	5.7
13.6750	A383/32/0.80-0.90/15.0	32	1 1/4"	0.80-0.90	.031-.035	15000	3370	95	3.7
13.6760	A383/32/1.00/UNI/15.0	32	1 1/4"	1.00	.040	15000	3370	95	3.7

UNI = Uniflex regular duty strapping max. 850 N/mm² / 123'000 psi
 ULT = Ultraflex high tensile strapping max. 1100 N/mm² / 160'000 psi

Accessories

A38.2401	Suspension bracket standard (included with tool)
A38.2404	Suspension bracket vertical
A38.2407	Suspension bracket horizontal
A38.2410	Suspension bracket universal (standard, vertical, horizontal very fast changes possible, perfect for frequent changes, with intergrated air supply)



Manual steel strapping tools with a seal joint

The tools described here are designed for round objects and goods with small surfaces. An exception is the manual tensioner A301 used in combination with the manual sealer A412 and designed especially for large flat objects with a long band take-up.

The joint requires seal joints and thanks to the ideal lever configuration, these can be produced with minimal force. The average strength of the double notch joint with seals is ca. 75%.



A301

Manual tensioner A301 is specially designed for flat objects and packages. Thanks to the feed wheel tensioning system an unlimited band take-up is permitted, guaranteeing taut tension with no tension loss. Using manual sealer model A412 the double notch joint is produced in one operation. The ideally curved levers prevent the handle from jamming, guaranteeing rational working with no risk of hand injury.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

Tensioner: 19.0 – 32.0 x 0.50 – 1.00 mm

Weight:

4.0 kg



A402

Model A402 is especially well suited for round packages with a very small supporting surface. Here too an unlimited take-up is possible and the double notch joint is produced using the manual sealer A412.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

Tensioner: 19.0 – 32.0 x 0.63 – 1.00 mm

Weight:

4.0 kg



A412

Sealing tool A412 is used in combination with the manual flat or round tensioners A301/A402. The double notch joint is mounted in a single operation permitting only perfect notch joints thanks to the built-in safety pawl.

The ideally curved levers prevent the handle from jamming, guaranteeing rational working with no risk of hand injury. The rubber spacer on the lower lever also permits sealing with both hands on the upper lever.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

Sealer: 19.0 – 32.0 x 0.63 – 1.00 mm

Weight:

3.4 kg



A431

This lightweight and handy combination strapping tool is ideal for strapping bars, tubes, bundles and goods with an extremely small surface. Simple to operate and totally independent of any energy source the A431 has become established as the ideal helper. Lap-over seals provided with a single notch joint are used for sealing.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

10.0 – 19.0 x 0.38 – 0.63 mm

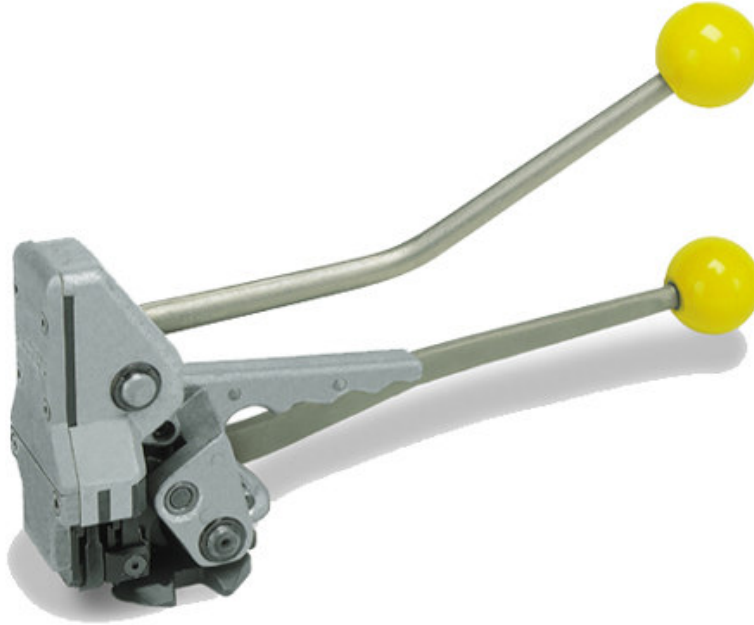
Weight:

3.4 kg



Single notch joint

Manual pusher type combination steel strapping tool

**Characteristics**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 10.0 – 19.0 mm / $\frac{3}{8}$ – $\frac{3}{4}$ "
	thicknesses 0.38 – 0.63 mm / .015 – .025"
Weight:	3.4 kg / 7.5 lbs
Average seal strength:	approx. 75 %
Seals:	Overlap seals, see chart
Type of joint:	Single notch joint

Advantages

- Very suitable for strapping of bars, bundles, tubes coils and items with a small surface
- Independent from any energy source since operated manually

Chart of types model A431

Item No.	Model	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi			
		Width		Thicknesses	
		mm	inch	mm	inch
13.3050	A431/10/0.38-0.63/UNI	10	3/8"	0.38-0.63	.015-.025
13.3070	A431/13/0.38-0.63/UNI	13	1/2"	0.38-0.63	.015-.025
13.3090	A431/16/0.38-0.63/UNI	16	5/8"	0.38-0.63	.015-.025
13.3110	A431/19/0.38-0.63/UNI	19	3/4"	0.38-0.63	.015-.025
13.3051	A431/10/0.38-0.63/ULT	10	3/8"	0.38-0.63	.015-.025
13.3071	A431/13/0.38-0.63/ULT	13	1/2"	0.38-0.63	.015-.025
13.3091	A431/16/0.38-0.63/ULT	16	5/8"	0.38-0.63	.015-.025
13.3111	A431/19/0.38-0.63/ULT	19	3/4"	0.38-0.63	.015-.025

Uniflex (UNI) = Regular duty strapping max. 850 N/mm² / 123'000 psi
 Ultraflex (ULT) = High tensile strapping max. 1100 N/mm² / 160'000 psi

Recommended seals

Width mm	Inch	Dimensions (W, L, T)	
		mm	inch
10	3/8"	10 x 22 x 0.6	³ / ₈ x ⁷ / ₈ x .024
13	1/2"	13 x 22 x 0.6	¹ / ₂ x ⁷ / ₈ x .024
16	5/8"	16 x 22 x 0.6	⁵ / ₈ x ⁷ / ₈ x .024
19	3/4"	19 x 22 x 0.6	³ / ₄ x ⁷ / ₈ x .024

Tensile strength of the seal material: 600 N/mm² / 87'000 psi

Manual pusher type steel strapping tools

**Characteristics A301 – Manual tensioner for flat objects**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	
widths	19.0 – 32.0 mm / ³ / ₄ – 1 ¹ / ₄ "
thicknesses	0.63 – 1.00 mm / .025 – .040"
Weight:	3.5 kg / 7.7 lbs
Seals:	Semi open or overlap seals, see chart
Sealing:	With separate manual sealer model A412

Advantages of tensioner model A301

- The tool has been designed for flat packages and objects
- The feed-wheel tensioning system allows unlimited strap take-up
- Tight strap tension without any tension loss
- The long tensioning handle permits high and effortless strap tension
- The strap guide prevents the strap from getting out of line during tensioning

Characteristics A412 – Manual sealer

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	
widths	19.0 – 32.0 mm / ³ / ₄ – 1 ¹ / ₄ "
thicknesses	0.63 – 1.00 mm / .025 – .040"
Weight:	3.4 kg / 7.4 lbs
Average seal strength:	approx. 75%
Seals:	Semi open or overlap seals, see chart
Type of joint:	Double notch upcut joint
Tensioning:	With separate tensioner model A301

Advantages of sealer model A412

- The safe upcut double notch joint is accomplished in one stroke
- The installed safety catch guarantees perfect seal joints only
- The specially shaped sealing handle (bent) assures an accident free operation (a crushing of the hands is not possible)
- The distance rubber roll on the lower handle places the handle into the correct position relative to the seal and allows the sealing action to be accomplished with both hands

Chart of types model A301

Item No.	Model	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi			
		Widths		Thicknesses	
		mm	inch	mm	inch
13.1210	A301/19/0.50-1.00	19	3/4"	0.50-1.00	.020-.040
13.1220	A301/25/0.50-1.00	25	1"	0.50-1.00	.020-.040
13.1230	A301/32/0.50-1.00	32	1 1/4"	0.50-1.00	.020-.040

Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi

Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

Chart of types model A412

Item No.	Model	Width		Uniflex		Ultraflex	
				Thicknesses		Thicknesses	
		mm	inch	mm	inch	mm	inch
13.3301	A412/19/0.63-1.00/UNI/0.80-1.00/ULT	19	3/4"	0.63-1.00	.025-.040	0.80-1.00	.031-.040
13.3302	A412/19/0.63/ULT	19	3/4"	-	-	0.63	.025
13.3305	A412/25/0.80-0.90	25	1"	0.80-0.90	.031-.035	0.80-0.90	.031-.035
13.3306	A412/25/1.00/UNI	25	1"	1.00	.040	-	-
13.3310	A412/32/0.80-0.90	32	1 1/4"	0.80-0.90	.031-.035	0.80-0.90	.031-.035
13.3311	A412/32/1.00/UNI	32	1 1/4"	1.00	.040	-	-

Uniflex (UNI) = Regular duty strapping max. 850 N/mm² / 123'000 psi

Ultraflex (ULT) = High tensile strapping max. 1100 N/mm² / 160'000 psi

Recommended seals

Width mm	Inch	Dimensions (W, L, T)	
		mm	inch
19	3/4"	19 x 45 x 0.9	3/4 x 1 3/4 x .035
25	1"	25 x 45 x 0.9	1 x 1 3/4 x .035
32	1 1/4"	32 x 45 x 0.9	1 1/4 x 1 3/4 x .035

Tensile strength of the seal material: 600 N/mm² / 87'000 psi

Manual pusher type steel strapping tools



Characteristics A402 – Manual tensioner for round objects

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 19.0 – 32.0 mm / ³ / ₄ – 1 ¹ / ₄ "
	thicknesses 0.63 – 1.00 mm / .025 – .040"
Weight:	4.0 kg / 8.8 lbs
Seals:	Overlap seals, see chart
Sealing:	With separate manual sealer model A412

Advantages of tensioner model A402

- Designed for round objects and for curved or irregularly shaped packages
- The feed-wheel tensioning system allows unlimited strap take-up
- Very tight strap tension without any tension loss
- The long tension handle permits very high strap tension (with a limited effort)

Characteristics A412 – Manual sealer

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 19.0 – 32.0 mm / ³ / ₄ – 1 ¹ / ₄ "
	thicknesses 0.63 – 1.00 mm / .025 – .040"
Weight:	3.4 kg / 7.4 lbs
Average seal strength:	approx. 75%
Seals:	Overlap seals, see chart
Type of joint:	Double notch joint
Tensioning:	With separate tensioner model A402

Advantages of sealer model A412

- The safe upcut double notch joint is accomplished in one stroke
- The installed safety catch guarantees perfect seal joints only
- The specially shaped sealing handle (bent) assures an accident free operation (a crushing of the hands is not possible)
- The distance rubber roll on the lower handle places the handle into the correct position relative to the seal and allows the sealing action to be accomplished with both hands

Chart of types model A402

Item No.	Model	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi			
		Widths		Thicknesses	
		mm	inch	mm	inch
13.3200	A402/19-32/0.63-1.00	19-32	3/4-1 1/4"	0.63-1.00	.025-.040

Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi
 Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

Chart of types model A412

Item No.	Model	Width		Uniflex		Ultraflex	
				Thicknesses		Thicknesses	
		mm	inch	mm	inch	mm	inch
13.3301	A412/19/0.63-1.00/UNI/0.80-1.00/ULT	19	3/4"	0.63-1.00	.025-.040	0.80-1.00	.031-.040
13.3302	A412/19/0.63/ULT	19	3/4"	-	-	0.63	.025
13.3305	A412/25/0.80-0.90	25	1"	0.80-0.90	.031-.035	0.80-0.90	.031-.035
13.3306	A412/25/1.00/UNI	25	1"	1.00	.040	-	-
13.3310	A412/32/0.80-0.90	32	1 1/4"	0.80-0.90	.031-.035	0.80-0.90	.031-.035
13.3311	A412/32/1.00/UNI	32	1 1/4"	1.00	.040	-	-

Uniflex (UNI) = Regular duty strapping max. 850 N/mm² / 123'000 psi
 Ultraflex (ULT) = High tensile strapping max. 1100 N/mm² / 160'000 psi

Recommended seals

Width mm	Inch	Dimensions (W, L, T)	
		mm	inch
19	3/4"	19 x 45 x 0.9	3/4 x 1 3/4 x .035
25	1"	25 x 45 x 0.9	1 x 1 3/4 x .035
32	1 1/4"	32 x 45 x 0.9	1 1/4 x 1 3/4 x .035

Tensile strength of the seal material: 600 N/mm² / 87'000 psi



A480

Due to its low weight the A480 does not necessarily have to be suspended. This permits more mobile operation. Ideal for strapping tubes, wire coils and all kinds of small bundles, it is a handy and popular tool in numerous industries. Available in two different tensioning levels.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

10.0 – 19.0 x 0.38 – 0.63 mm

Weight:

4.6 kg (with suspension bracket)

Strap tensions:

2500 N, 4500 N



A482

Due to its low weight the A482 does not necessarily have to be suspended. Straps of up to 0.90 mm thickness can be processed. The perfect double notch joint guarantees a strength of 75 %. The modern A482 optimizes the strapping of packages, mainly in the metal industry.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

19.0 x 0.63 – 0.90 mm

Weight:

7.0 kg (with suspension bracket)

Strap tensions:

4000 N, 7000 N



A483

Heavier and larger than the A482, the A483 is suitable for use in the same industries. Also supplied in two models, its main application is with 25 and 32 mm wide steel straps. Its pneumatically raised feed wheel greatly assists the introduction of heavy steel straps. Ideal for strapping steel coils, tubes and rods in all positions, as it can be fitted with four different suspension brackets. The A483 has proved its worth especially under shift and continuous working conditions.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

25.0 – 32.0 x 0.80 – 1.00 mm

Weight:

19.5 kg (incl. suspension bracket)

Strap tensions:

7000 N, 9000 N

Models:

Single button = fully automatic

Two-button = semi-automatic



A452

Pneumatic pusher type tensioner A452 is characterized by its very high strap tension force of 8500 N. Thanks to its free-wheeling system, no strap tension is lost on completion of the tensioning cycle. This extremely rugged, fast and lightweight tool is suitable for both mobile and stationary applications.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

19.0 – 32.0 x 0.63 – 1.27 mm

Weight:

4.35 kg

Max. tension:

8500 N



A461

Pneumatic sealer A461 used for joints can be operated single-handed. It is fitted with a safety mechanism which prevents poor seal joints resulting from faulty operation.

Strap qualities:

Regular duty steel strap (Uniflex) up to 850 N/mm²
High tensile steel strap (Ultraflex) up to 1100 N/mm²

Strap dimensions:

19.0 – 32.0 x 0.63 – 1.00 mm

Weight:

4.2 kg



Double notch joint

Pneumatic pusher type tensioner for round objects

**Characteristics**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 19.0 – 32.0 mm / 3/4 – 1 1/4"
thicknesses	0.63 – 1.27 mm / .025 - .050"
Weight:	4.35 kg / 9.6 lbs
Strap tension:	8500 N / 1900 lbs (6 bar / 87 psi)
Seals:	Overlap seals
Sealing:	With separate sealer model A412 or A461
Suspension:	Eye bolt for standard applications is supplied with the tool

Advantages

- Very high strap tension up to 8500 N / 1900 lbs
- After tensioning, the tool stops to tension, but no strap tension ever is lost (free wheeling system)
- For safety reasons, the strap tension can be released at any time by pressing the black safety push button
- The rugged tool permits a high strap tension and is particularly suitable for applications in the steel- and steel processing industries
- The tension speed is very high
- Very silent operation of the tool
- The light tool is ideal for non stationary applications

Chart of types model A452

Item No.	Model	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi				Max. Tension		Tension speed	
		Width		Thicknesses		N	lbs	mm/s.	inch/s.
		mm	inch	mm	inch				
13.4210	A452/19-32/0.63-1.27	19-32	¾ - 1 ¼"	0.63 – 1.27	.025-.050	8500	1900	150	5.9

Pneumatic sealer



Characteristics

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi	
Strapping dimensions:	widths	19.0 – 32.0 mm / 3/4 – 1 1/4"
	thicknesses	0.63 – 1.00 mm / .025 - .040"
Weight:	4.2 kg / 9.3 lbs	
Average seal strength:	Approx. 75 %	
Seals:	Overlap seals	
Type of joint:	Double notch upcut joint	
Tensioning:	With separate tensioner model A452	
Two different working versions:	Version N = Handle 90° to the strap (normal)	
	Version P = Handle parallel to the strap	

Advantages

- The pneumatic sealer can be used easily with one hand only
- The safe upcut double notch joint is accomplished in one strike
- The seal safety mechanism prevents poor seal joints as a result of faulty operation of the tool by the user
- The tool can be supplied with the handle in a 90° angle to the strap (N-version) or with the handle parallel to the strap (P-version), the user may select the right tool for his application

Chart of types model A461 – Version N = Handle 90° to the strap

Item No.	Model	Width		Uniflex		Ultraflex	
		mm	inch	mm	inch	mm	inch
13.4310	A461/19/0.63-0.70/N	19	¾"	0.63-0.70	.025-.028	0.63-0.70	.025-.028
13.4312	A461/19/0.80-1.00/N	19	¾"	0.80-1.00	.030-.040	0.80-1.00	.030-.040
13.4410	A461/25/0.80-1.00UNI/0.80-0.90ULT/N	25	1"	0.80-1.00	.030-.040	0.80-0.90	.030-.035
13.4510	A461/32/0.80-0.90/N	32	1 ¼"	0.80-0.90	.031-.035	0.80-0.90	.030-.035
13.4512	A461/32/1.00UNI/N	32	1 ¼"	1.00	.040	-	-

Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi

Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

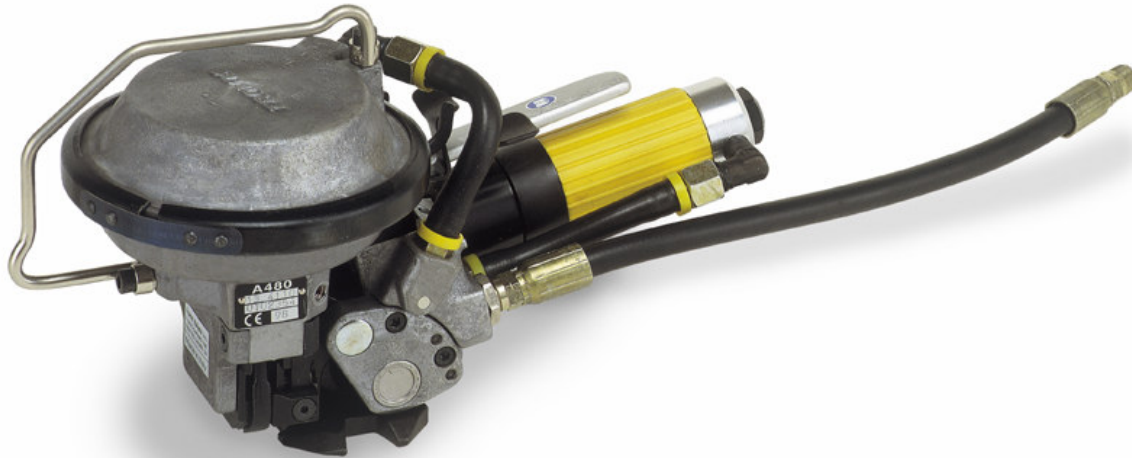
Chart of types model A461 – Version P = Handle parallel to the strap

Item No.	Model	Width		Uniflex		Ultraflex	
		mm	inch	mm	inch	mm	inch
13.4311	A461/19/0.63-0.70/P	19	¾"	0.63-0.70	.025-.028	0.63-0.70	.025-.028
13.4313	A461/19/0.80-1.00/P	19	¾"	0.80-1.00	.030-.040	0.80-1.00	.030-.040
13.4411	A461/25/0.80-1.00UNI/0.80-0.90ULT/P	25	1"	0.80-1.00	.030-.040	0.80-0.90	.030-.035
13.4511	A461/32/0.80-0.90/P	32	1 ¼"	0.80-0.90	.031-.035	0.80-0.90	.030-.035
13.4513	A461/32/1.00UNI/P	32	1 ¼"	1.00	.040	-	-

Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi

Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

Pneumatic pusher type combination steel strapping tool



Characteristics

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 10.0 - 19.0 mm / ³ / ₈ - ³ / ₄ "
thicknesses	0.38 – 0.63 mm / .015 - .025"
Weights:	4.5 kg / 9.9 lbs without suspension 4.6 kg / 10.1 lbs with suspension
Average seal strength:	approx. 75 %
Seals:	Overlap seals, see chart
Type of joint:	Single notch joint
Strap tension:	The tool is available for two different stages of strap tension, see chart
Suspensions (Optional):	Suspension bracket for standard and vertical applications is supplied with the tool suspension bracket for horizontal and vertical applications; have to be ordered separately, see accessories

Advantages

- Very suitable for strapping of bars, bundles, pipes, coils and packages having a small surface
- If used for stationary operation the tool may be suspended on a spring loaded balancer using a suspension bracket (see suspensions)

Chart of types model A480

Item No.	Model	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi				Max. Tension		Tension speed	
		Width		Thicknesses		N	lbs	mm/sec.	inch/sec.
		mm	inch	mm	inch				
13.4050	A480/10/0.38-0.63/4.5	10.0	3/8"	0.38-0.63	.015-.025	4500	1000	100	4.0
13.4052	A480/10/0.38-0.63/2.5	10.0	3/8"	0.38-0.63	.015-.025	2500	560	180	7.1
13.4070	A480/13/0.38-0.63/4.5	13.0	1/2"	0.38-0.63	.015-.025	4500	1000	100	4.0
13.4072	A480/13/0.38-0.63/2.5	13.0	1/2"	0.38-0.63	.015-.025	2500	560	180	7.1
13.4090	A480/16/0.38-0.63/4.5	16.0	5/8"	0.38-0.63	.015-.025	4500	1000	100	4.0
13.4092	A480/16/0.38-0.63/2.5	16.0	5/8"	0.38-0.63	.015-.025	2500	560	180	7.1
13.4110	A480/19/0.38-0.63/4.5	19.0	3/4"	0.38-0.63	.015-.025	4500	1000	100	4.0
13.4112	A480/19/0.38-0.63/2.5	19.0	3/4"	0.38-0.63	.015-.025	2500	560	180	7.1

Uniflex = Regular duty strapping max. 850 N/mm² / 123'000 psi
 Ultraflex = High tensile strapping max. 1100 N/mm² / 160'000 psi

Accessories

A48.1304 Suspension bracket for
horizontal and vertical applications

Recommended seals

Width mm	Inch	Dimensions (W, L, T)	
		mm	inch
10	3/8"	10 x 22 x 0.6	3/8 x 7/8 x .024
13	1/2"	13 x 22 x 0.6	1/2 x 7/8 x .024
16	5/8"	16 x 22 x 0.6	5/8 x 7/8 x .024
19	3/4"	19 x 22 x 0.6	3/4 x 7/8 x .024

Tensile strength of the seal material: 600 N/mm² / 87'000 psi

Pneumatic pusher type combination steel strapping tool

**Characteristics**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	width 19.0 mm / ¾"
thicknesses	0.63 – 0.90 mm / .025-.035"
Weights:	6.5 kg / 14.3 lbs without suspension 7.0 kg / 15.4 lbs with suspension
Average seal strength:	approx. 75 %
Seals:	Overlap seals, see chart
Type of joint:	Double notch upcut joint
Strap tension:	The tool is available for two different stages for strap tension, see charts
Suspension:	Universal suspension bracket is supplied with the tool

Advantages

- Ideal high performance strapping tool for metal products i.e. coils, loads of bars, pipes, bundles, rods and curved or irregularly shaped packages
- The perfect double notch upcut joint is accomplished in a single operation
- The low weight of the tool allows a mobile operation without any suspension system

Chart of types model A482

Item No.	Model	Uniflex Regular duty strapping max. 850 N/mm ² / 123'000 psi				Max. Tension		Tension speed	
		Width		Thicknesses		N	lbs	mm/s	inch/s
		mm	inch	mm	inch				
13.4630	A482/19/0.70-.90/UNI/4.0	19	3/4"	0.70-0.90	.027-.035	4000	900	125	4.9
13.4640	A482/19/0.70-.90/UNI/7.0	19	3/4"	0.70-0.90	.027-.035	7000	1570	70	2.7

Item No.	Model	Ultraflex High tensile strapping max. 1100 N/mm ² / 160'000 psi				Max. Tension		Tension speed	
		Width		Thicknesses		N	lbs	mm/s	inch/s
		mm	inch	mm	inch				
13.4610	A482/19/0.63-.80/ULT/4.0	19	3/4"	0.63-0.80	.025-.031	4000	900	125	4.9
13.4620	A482/19/0.80/ULT/7.0	19	3/4"	0.80	.031	7000	1570	70	2.7

UNI = Uniflex
 ULT = Ultraflex

Recommended seals

Width mm	Inch	Dimensions (W, L, T)	
		mm	inch
19	3/4"	19 x 45 x 0.9	-

Tensile strength of the seal material: 600 N/mm² / 87'000 psi



Pneumatic steel strapping tools with a seal joint

The strapping applications of the pneumatically powered steel strapping tools with a seal joint are identical to those of the manual tools. These tools are especially suitable for round, curved and irregular shaped goods with a small surface. Separate lap-over metal seals are used for the joint; these form a single or double notch joint, guaranteeing a correct seal every time.

Pneumatic pusher type combination steel strapping tool

**Characteristics**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm ² / 160'000 psi
Strapping dimensions:	widths 25.0 and 32.0 mm / 1 and 1 1/4"
	thicknesses 0.80 – 1.00 mm / .031-.040"
Weights:	18.0 kg / 39.7 lbs without suspension
	19.5 kg / 43.0 lbs with suspension
Average seal strength:	approx. 75 %
Seals:	Overlap seals, see chart
Type of joint:	Double notch upcut joint
Strap tension:	The tool is available for two different stages for strap tension, see charts
Tool versions:	One button version = automatic
	Two button version = semi automatic
Suspension:	Four different suspension brackets are available; have to be ordered separately, see accessories

Advantages

- The most rugged pusher type strapping tool of its kind for continuous and shift operations demanding a high working reliability
- High performance machine with an outstanding record of performance in the steel and non ferrous industries
- The perfect double notch upcut seal joint is accomplished in one operation
- Inserting of the strap into the tools is easy since the feed wheel is lifted pneumatically and no operator effort is required
- Four different suspension brackets are available thus allowing the tool to be mounted in any possible suspension position

Chart of types model A483 (Uniflex Regular duty strapping max 850 N/ mm² / 123'000 psi)

Item No	Model	Width		Thicknesses		Max. Tension		Tension speed		A
		mm	inch	mm	inch	N	lbs	mm/s	inch/s	
13.4730	A483/25/0.80-1.00/7.0/UNI	25	1"	0.80-1.00	.031-.040	7000	1570	200	8.0	-
13.4731	A483/25/0.80-1.00/7.0/UNI/A	25	1"	0.80-1.00	.031-.040	7000	1570	200	8.0	A
13.4770	A483/32/0.80-1.00/7.0/UNI	32	1 1/4"	0.80-1.00	.031-.040	7000	1570	200	8.0	-
13.4771	A483/32/0.80-1.00/7.0/UNI/A	32	1 1/4"	0.80-1.00	.031-.040	7000	1570	200	8.0	A
13.4780	A483/32/0.80-1.00/9.0/UNI	32	1 1/4"	0.80-1.00	.031-.040	9000	2020	160	6.5	-
13.4781	A483/32/0.80-1.00/7.0/UNI/A	32	1 1/4"	0.80-1.00	.031-.040	9000	2020	160	6.5	A

UNI = Uniflex

A = One button version, automatic

Chart of types model A483 (Ultraflex High tensile strapping max 1100 N/ mm² / 160'000 psi)

Item No	Model	Width		Thicknesses		Max. Tension		Tension speed		A
		mm	inch	mm	inch	N	lbs	mm/s	inch/s	
13.4710	A483/25/0.80-0.90/7.0/ULT	25	1"	0.80-0.90	.031-.035	7000	1570	200	8.0	-
13.4711	A483/25/0.80-0.90/7.0/ULT/A	25	1"	0.80-0.90	.031-.035	7000	1570	200	8.0	A
13.4750	A483/32/0.80-0.90/7.0/ULT	32	1 1/4"	0.80-0.90	.031-.035	7000	1570	200	8.0	-
13.4751	A483/32/0.80-0.90/7.0/ULT/A	32	1 1/4"	0.80-0.90	.031-.035	7000	1570	200	8.0	A
13.4760	A483/32/0.80-0.90/9.0/ULT	32	1 1/4"	0.80-0.90	.031-.035	9000	2020	160	6.5	-
13.4761	A483/32/0.80-0.90/7.0/ULT/A	32	1 1/4"	0.80-0.90	.031-.035	9000	2020	160	6.5	A

ULT = Ultraflex

A = One button version, automatic

Accessories

		Strapping position		
		normal	vertical	horizontal
A48.3401	Suspension bracket normal	*	*	*
A48.3406	Suspension bracket front	⊙	*	⊙
A48.3413	Suspension bracket lateral	⊙	⊙	*
A48.3419	Suspension bracket universal (with integrated air supply)	⊙	⊙	⊙

* = changing of the suspension position possible by moving the cable hook

⊙ = changing of the suspension position without moving the cable hook (very fast changes possible, perfect for frequent changes)

Recommended seals

Width mm	Inch	Dimensions (W, L, T)	
		mm	inch
25	1"	25 x 45 x 0.9	1 x 1 3/4 x .035
32	1 1/4"	32 x 45 x 0.9	1 1/4 x 1 3/4 x .035

Tensile strength of the seal material: 600 N/mm² / 87'000 psi