

**FROMM** PACKAGING SYSTEMS **Manual pusher type steel strapping tools**



**Characteristics A402 – Manual tensioner for round objects**

Strapping qualities:	Uniflex and Ultraflex max. 1100 N/mm <sup>2</sup> / 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 <sup>2</sup> / 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

**FROMM** PACKAGING SYSTEMS **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 <sup>2</sup> / 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/mm<sup>2</sup> / 123'000 psi  
Ultraflex = High tensile strapping max. 1100 N/mm<sup>2</sup> / 160'000 psi

**Chart of types model A412**

Item No.	Model	Width		Uniflex		Ultraflex	
		mm	inch	Thicknesses		Thicknesses	
				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/mm<sup>2</sup> / 123'000 psi  
Ultraflex (ULT) = High tensile strapping max. 1100 N/mm<sup>2</sup> / 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/mm<sup>2</sup> / 87'000 psi