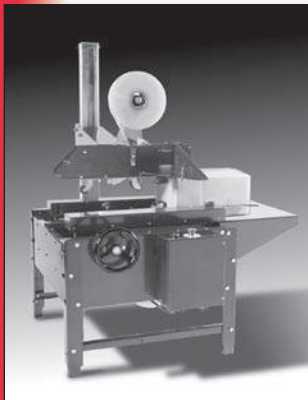
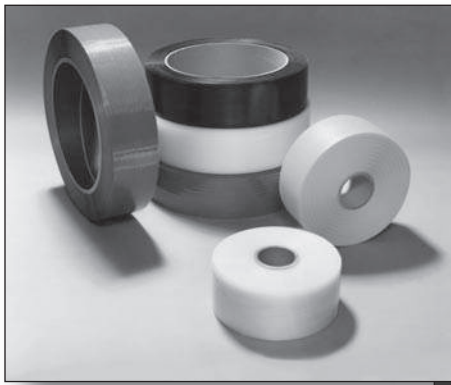


Strapping, Stretch Wrapping and Tape Protective Packaging Systems



A Tradition and a Promise

Since 1913, Signode has been the leading worldwide provider of protective packaging systems, offering our customers low-cost solutions, high quality products and excellent service. As a Signode customer, you are assured that:

We will be your lowest cost supplier

- By reducing your costs
- By improving the arrival condition of your products
- By making your operations more productive

We'll guarantee your satisfaction

- With the highest quality products
- With on-site sales and engineering assistance
- With supervised installation, maintenance and safety training

We'll be the easiest to do business with

- By offering the most highly trained and responsive direct sales and service representatives in the industry
- By providing 24-hour, 7 days-a-week toll-free technical assistance
- By ensuring 24-hour emergency service and parts availability

Strapping Systems

Manufactured in the United States, Signode steel and plastic strapping is the number-one choice among packaging professionals worldwide. It has achieved this status through its unequalled performance reliability. Because Signode strapping is manufactured to exact specifications, you are assured high quality and dependability with every coil.

We manufacture two types of steel strapping: Apex Plus™ and Magnus®; and four types of plastic strapping: economical Empax™ and Contrax® polypropylene, heavy-duty Dymax® nylon and heavy-duty Tenax® polyester strapping. To effectively and efficiently apply the strapping, we manufacture a full line of hand tools, power strapping equipment and accessories. Your Signode sales representative can help you select the system that's suited to your particular application.

Stretch Wrapping Systems

For nearly 20 years, Signode Packaging Systems has been one of the world's largest producers of stretch wrapping systems, including stretch film and application equipment. These systems may be used exclusively or in conjunction with strapping systems to help protect products from damage during handling, transit and storage. We produce our own stretch films in a variety of types and sizes, including hand application films and machine applied films. We also offer a full line of application equipment from hand-held wrappers to fully automatic turntable and overhead stretch wrapping systems.

Tape Packaging Systems

Signode Packaging Systems is a premier supplier of high quality pressure sensitive carton-sealing tapes and tape application equipment. These systems are used worldwide to package everything from produce and meat products to clothing and electronic parts. To accommodate this wide range of applications, we offer an extensive line of manual and machine-applied pressure sensitive tapes, hand applicators and heavy-duty carton sealers.

The Signode System

Whether you require strapping, stretch film or tape, our sales, equipment service, customer service and engineering departments can help you design and implement the optimum protective packaging system for your application.



Steel Strapping

Strapping.....	4, 5
Sealless joint types	5
Seal joint types.....	5
Seals	6
Manual tensioners.....	7
Manual sealers.....	8
Pneumatic tensioners	9
Pneumatic sealers	9
Manual combination tools	10
Pneumatic combination tools....	10, 11
Pneumatic tool accessories.....	11
Coil Lifter	11
Dispensers.....	12, 13

Steel and Plastic Strapping System Supplies

Tool suspension systems.....	14
Power strap feeders (PSFs)	14
Strap cutters	15
Edge protectors	15
Loading and bracing supplies	15



Plastic Strapping

Strapping.....	16, 17
Strapping kits	18
Seals and buckles.....	18
Manual tensioners	19
Manual sealers	19
Manual combination tools.....	20
Pneumatic combination tools.....	20
Battery-operated tools.....	21
Dispensers	21
Pneumatic tool accessories	21

Power Equipment

TableTyer	22
LBX-2000	22
LBX-2300/2330	22
HBX-4300/4330.....	23
HB-4310 side seal.....	23
MD-V.....	23
MOD-710.....	24
LBX-6520	24
LB-Magazine	24



Stretch Film

Hand grade film.....	25
Machine grade film.....	25

Power Equipment

Raptor 500 turntable	26
Raptor 1500P turntable.....	27
Raptor 1500CN turntable	27
Cobra 500 (column) overhead.....	28
Cobra 500 (gantry) overhead.....	28
Cobra 1500A overhead	29
Cobra 1500 overhead.....	29
Octopus 202.....	30
Octopus 404, 505, 606, 808.....	30
Ringmaster	31



Carton-Sealing Tape

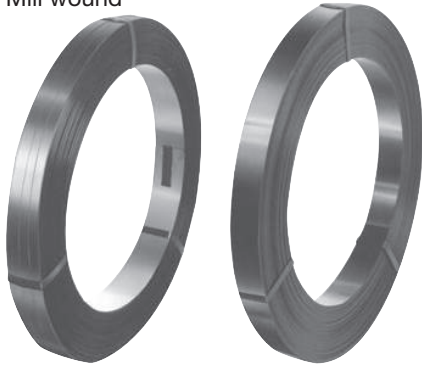
Tape.....	32
Heavy-duty tape heads.....	33

Power Equipment

LD-3SB.....	34
Legend 2 & 3.....	34
LD-16SB.....	34

Steel Strapping

Mill wound



Ribbon wound

For uncompromising quality and packaging effectiveness

Consistent high quality makes Signode steel strapping the first choice among packaging professionals worldwide. Purchasing professionals also prefer Signode strapping because it's made to the most exacting tolerances, so it goes further and stretches their strapping dollars.

Types, sizes and finishes for all demanding applications

Signode offers two basic types of steel strapping: Apex Plus and Magnus. Each is specially formulated to meet the demands of a particular range of applications. And for each strapping type, there is a selection of sizes and finishes which matches the specific requirements of those applications.

Apex Plus™ strapping

A cold-rolled, low carbon steel strapping. Manufactured with superior edge conditioning and coating.

Magnus® strapping

A cold-rolled, medium carbon steel strapping. Heat-treated with a Signode process that combines fine surface and controlled physical properties with high strength and excellent shock resistance.

Steel strapping

The particular type of strapping best suited to a specific application generally depends on three factors: 1) the strapping's function or purpose, 2) the package characteristics and 3) shipping or handling considerations.

In a specific application, strapping may perform one or more of the following functions: package reinforcement, carton closure, securement, unitization, baling, bundling, bracing, palletization, compression retention and pilferage reduction.

Apex Plus™ strapping

Strap Size				Part Number	Average Strength		Yield		Coil Winding	Coil Weight lbs	Strap Finish
Width		Thickness			lbs	N	ft/lb	M/kg			
inch	mm	inch	mm								
3/8	9.5	.017	0.43	2X1502	975	4 340	46.1	31.0	Mill	105	Painted & Waxed
1/2	12.7	.017*	0.43	2X1504	1,275	5 670	34.6	23.3	Mill	105	Painted & Waxed
1/2	12.7	.020	0.51	2X1270	1,475	6 560	29.4	19.7	Mill	105	Painted & Waxed
1/2	12.7	.020	0.51	2X1174	1,475	6 560	29.4	19.7	Mill	105	Zinc
5/8	15.9	.017*	0.43	2X1505	1,625	7 230	27.7	18.6	Mill	105	Painted & Waxed
5/8	15.9	.020	0.51	2X1253	1,825	8 120	23.6	15.8	Mill	105	Painted & Waxed
3/4	19.0	.017*	0.43	2X1506	1,900	8 450	23.1	15.5	Mill	105	Painted & Waxed
3/4	19.0	.020	0.51	2X1509	2,150	9 560	19.6	13.1	Mill	105	Painted & Waxed

Magnus® strapping

Strap Size				Part Number	Average Strength		Yield		Coil Winding	Coil Weight lbs	Strap Finish
Width		Thickness			lbs	N	ft/lb	M/kg			
inch	mm	inch	mm								
1/2	12.7	.020	0.51	085604	1,525	6 780	29.4	19.7	Mill	105	Painted & Waxed
		.020	0.51	075955	1,525	6 780	29.4	19.7	Mill	105	Zinc
5/8	15.9	.020*	0.51	085644	1,900	8 450	23.6	15.8	Mill	105	Painted & Waxed
		.020	0.51	076061	1,900	8 450	23.6	15.8	Mill	105	Zinc
		.023	0.58	088432	2,175	9 670	20.5	13.7	Mill	105	Painted & Waxed
3/4	19.0	.020	0.51	089397	2,250	10 010	19.6	13.1	Mill	105	Painted & Waxed
		.023	0.58	089370	2,600	11 560	17.1	11.5	Mill	105	Painted & Waxed
		.025*	0.64	085684	2,800	12 450	15.7	10.5	Mill	105	Painted & Waxed
		.025	0.64	076310	2,800	12 450	15.7	10.5	Mill	105	Zinc
		.029	0.74	2X1424	3,400	15 120	13.5	9.1	Mill	105	Painted & Waxed
1-1/4	31.8	.025	0.64	089367	4,650	20 680	9.4	6.3	Ribbon	110	Painted & Waxed
		.029	0.74	2X1268	5,400	24 020	8.1	5.5	Ribbon	110	Painted & Waxed
		.029	0.74	2X1296	5,400	24 020	8.1	5.5	Ribbon	110	Zinc
		.044	1.12	2X1438	7,900	35 140	5.3	3.5	Ribbon	110	Painted & Waxed
2	50.8	.044	1.12	2X1439	12,500	55 600	3.3	2.2	Ribbon	120	Painted & Waxed

* 300 ft. demonstration coils are available for these sizes.

Anchor strapping — Apex Plus

3/4	19.0	.017	0.43	2X1518	1,350	6 000	20.1	13.6	Mill	105	Painted & Waxed
-----	------	------	------	--------	-------	-------	------	------	------	-----	-----------------

Anchor strapping — Magnus

1-1/4	31.8	.029	0.74	2X1421	4,020	19 130	7.6	3.4	Ribbon	110	Painted & Waxed
-------	------	------	------	--------	-------	--------	-----	-----	--------	-----	-----------------

Package characteristics that influence strap selection are: weight, stability, rigidity, integrity and sharpness of the edges (sharp edges may demand heavier strapping or corner protection).

Shipping considerations that affect the choice of strapping include: how far the package is shipped; how it's handled by both the shipper and receiver; and where and how it's stored.

Together, these various factors tend to narrow the choice to a particular set of strap characteristics. In simple applications, the choice may be obvious. In more complex applications, your Signode sales representative can help you determine your strapping

requirements, such as width, thickness, finish, type of steel and tensile strength.



Signode steel strapping plants are ISO-9000 certified.

Steel strap packaging

Coil winding

Signode strapping is produced in two basic coil windings:

Mill wound

The strapping is oscillated uniformly and tightly across the 2-1/2" (63.5mm) width of the coil.

Ribbon wound

Each layer is wound directly over the one below it so that the width of the strapping is the width of the coil.

Coil sizes

Inside diameter: 16" (406.4mm)

Outside diameter: Mill wound coils measure 23" (584.2mm). Ribbon wound coils vary from 23-1/2" to 27" (596.9mm to 685.8mm) depending on strap size.

Standard multi-coil skids

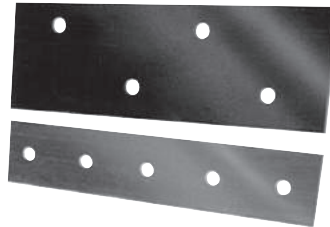
Twelve mill wound coils make up a standard skid. The number of ribbon wound coils will vary with strapping width.



Ribbon wound skid



Mill wound skid



Anchor strapping

The standard or stocked version of punched strapping comes in two sizes:

3/4" x 0.017" (19.0 x 0.43mm)

Apex Plus with in-line 0.140" (3.5mm) holes on 3/4" (19.0mm) centers and a strap strength of 1,310 lbs. (5 827 N).

1-1/4" x 0.029" (31.8 x 0.74mm)

Magnus with staggered 0.250" (6.4mm) holes on 1-1/2" (38.1mm) centers and a strap strength of 4,020 lbs. (17 881 N).

Standard strap finishes

Signode produces three different steel strapping finishes. Each is tailored to the requirements of particular tensioning methods, sealing devices and packaging applications.

Painted

Painted strapping is coated to offer corrosion resistance. Available in a wide range of Magnus strapping sizes, it is used in crimp-type seal systems to produce high joint strength.

Painted and waxed

Painted and waxed strapping also provides corrosion resistance. Available in all Apex Plus and Magnus strap sizes, it can be used in notch or crimp-type seal systems. Its primary advantage is improved tension transmission around load corners. Waxed strapping is required for feedwheel-type tensioners.

Zinc painted and waxed

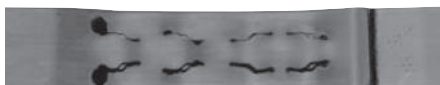
Zinc finish strapping is waxed and has a zinc enriched coating to provide outstanding resistance to rust. Available in a variety of Apex Plus and Magnus sizes, it has the same improved tension transmission characteristics as the painted and waxed strapping. Zinc finish protects where it is needed most—at points of surface damage and scratches.

Sealless joint types

Sealless joints can be made with Signode manual or pneumatic combination tools. Using interlocking keys, the sealless joints provide static joint strength equal to that of notch-type joints. The reverse lock sealless joint features one reversed interlocking key for added security in impact conditions.



Three key sealless joint



Four key, reverse lock, sealless joint

Basic seal joint types

Notch joint

One way to lock strap ends is to cut, or "notch" the seal and the strapping it joins to form tabs at the edges. These tabs are bent down (down notch joint) or bent up (reverse notch joint). The strength of the notch joint comes from the mechanical interlock between the seal and strapping. Notch joints are typically used on waxed strapping in packaging and unitizing applications.



Down notch joint



PACKAGE SURFACE



Reverse notch joint



Crimp joint

Another way to seal the ends of strapping is to press or "crimp" undulations into the seal and strapping ends. The strength of the crimp joint comes from the deformed seal creating high frictional forces. Crimp joints produce high static and dynamic joint strengths and are used on applications like carloading in which the strapped load is subject to severe impact.

Crimp joint



PACKAGE SURFACE

Seals

For steel strapping

Seals

The choice of a specific seal is often most strongly influenced by the type of tool or machine selected to apply it.

Five standard seal types

Snap-on seals

Placed over the overlapping strap ends either during or after tensioning the strapping. Eliminates pre-threading. Speeds the strapping operation.



Thread-on seals

Must be threaded over the overlapping strap ends before the tensioning tool is applied. Generally used on bales, bundles and the larger strap sizes.



Open-flange seals

Heavy-duty version of the snap-on. Requires no pre-threading.



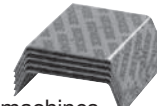
Push-type seals

Used where strap is tensioned by butting the nose of the tensioner against the seal. Overlapping flanges withstand the higher stress.



Nestack® seals

Held together by interlocking nibs. This Signode development permits loading partial stacks into magazines of seal feed combination tools and power strapping machines.



Microgrip® seals

For severe impact applications using waxed strapping. Microgrip seals are coated inside with a high-friction grit which bites through the wax to provide maximum holding power.



Seal Name	Strap Size		Part Number	Seal Type	Joint Type	Tool Name	Seal Length		Standard package	Approximate Shipping Weight	
	inch	mm					inch	mm		lbs	kg
38 AL	3/8	9.5	000555	Nestack	Double Notch	AL-38	.860	21.8	14,400	39	18
38 C			Snap-on	C-3820		1.120	28.5	5,000	28	13	
38 SPC			Push	SRC-3820	1.047	26.6	5,000	38	17		
12 AL	1/2	12.7	000554	Nestack	Double Notch	AL-12	.860	21.8	10,500	33	15
12 AMP			Nestack	AM-12, AMP-1-12		1.120	28.5	6,000	46	21	
12 C			Snap-on	C-1223, YC-1223	1.120	28.5	6,000	44	20		
12 SPC			Push	PNSC-2-12, SRC-1223	1.047	26.6	3,000	30	14		
58/34 AMP	5/8	15.9	000567	Nestack	Double Notch	AM-58, AM-34, AMP-1-58, AMP-1-34	1.120	28.5	5,000	50	23
58 C			Snap-on	C-5823, YC-5823		1.250	31.8	4,800	45	20	
58 SPC			Push	PNSC-2-58, SRC-5823	1.047	26.6	5,000	58	26		
34 C	3/4	19.0	000600	Snap-on	Double Notch	C-3423, YC-1-3425	1.250	31.8	5,000	55	25
34 HCOF			Open-flange	SYC-3431		2.200	55.9	1,500	50	23	
34 HOC			Push	PRHM-34, PRHR-34, RCD-3431, RCNS2-34, SYC-3431	2.200	55.9	700	31	14		
34 MNT			Nestack	AHP-34	1.500	38.1	2,800	53	24		
34 PNSC			Push	PNSC-2-34, SRC-3423	1.047	26.6	4,000	54	25		
34 SHOC			Push	RCNS2-34, SYC-3431	1.500	38.1	1,200	32	15		
104 DG*	1-1/4	31.8	007200	Thread-on	Four Crimp	B-1431, B-1450, NSP-1435	4.750	120.7	500	53	24
107 DG*			Thread-on	Double Crimp	B-1431, B-1450, NSP-1435	2.937	74.6	700	46	21	
107 DG OF*			Open-flange		B-1431, B-1450, NSP-1435	2.937	74.6	500	33	15	
114 A	1-1/4	31.8	000612	Nestack	Double Notch	AH-114, AHP-2-114	1.500	38.1	1,350	39	18
114 OF			Open-flange	Double Notch	C-1431, C-1450, RC-1435-50, RCD-1431, RCNS2-114	2.200	55.9	1,000	50	23	
114 P			Push	Double Notch	C-1431, C-1450, PRHR-114, RC-1435-50, RCD-1431, RCNS2-114	2.200	55.9	700	46	21	
114 TO			Thread-on	Double Notch	RCNS2-114	2.200	55.9	1,000	50	23	
117 HDG OF*	1-1/4	31.8	000585	Open-flange	Double Crimp	B-1450, N-1444-50LSH, N-1457-LSH-2A	2.937	74.6	500	41	19
117 HDG TO*			Thread-on	Double Crimp	B-1450, N-1444-50LSH	2.937	74.6	500	41	19	
208 DG*	2	50.8	000588	Thread-on	Double Crimp	B-250, NS-250-65L	2.937	74.6	300	43	20
208 TO	2	50.8	001871	Thread-on	Double Crimp	B-250, NS-250-65L	2.937	74.6	300	43	20

Power Strapping Machine (PSM) seals

38 MNA	3/8	9.5	000562	Nestack	Single Notch	—	.750	19.0	10,200	35	16
38 MN MNS	3/8	9.5	000462	Nestack	Single Notch	—	.680	17.2	10,200	31	14
12 MNA	1/2	12.7	000563	Nestack	Single Notch	—	.750	19.0	6,000	31	14
12 MN MNS	1/2	12.7	000515	Nestack	Single Notch	—	.680	17.2	10,500	40	18
58 MB	5/8	15.9	000435	Nestack	Double Notch	—	.984	24.9	5,000	45	21
58 MN	5/8	15.9	008996	Nestack	Single Notch	—	.680	17.2	9,450	35	16
58 MNA	5/8	15.9	000565	Nestack	Single Notch	—	.750	19.0	4,800	30	14
34 MB	3/4	19.0	000569	Nestack	Double Notch	—	.984	24.9	3,000	42	19
34 MNK	3/4	19.0	000566	Nestack	Single Notch	—	.750	19.0	4,200	47	21
34 MNT	3/4	19.0	007255	Nestack	Triple Notch	—	1.500	38.1	2,800	53	24
114 M	1-1/4	31.8	000561	Nestack	Double Notch	—	2.000	50.8	750	45	21

* All seals designated as "DG" have an aluminum oxide grit glued to the inner face. Grit seals are used in crimp joint systems in conjunction with lubricated strapping to provide a source of friction.

Manual Tensioners

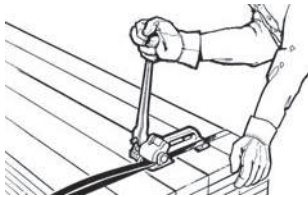
For steel strapping

Signode hand tensioners allow operators to bring strap to desired tension with minimal interruption, effort and strap waste.

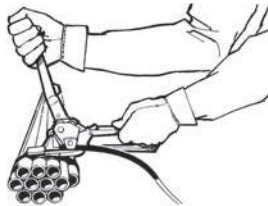
Most tensioners have a base which goes under the strapping and rests on the flat surface of the object being strapped. For smaller or irregular bundles, a push-type tensioner, which has no base under the strap, is recommended.

Feedwheel—for general use

The feedwheel tensioner has a serrated feedwheel which engages the strapping firmly. There is no limit to the amount of slack it can pull out of the strap. Fast and easy to use, it requires the use of painted and waxed strapping.



Push-type feedwheel—for round or irregular bundles



Windlass—for heavy-duty applications

The windlass tensioner simply winds one end of the strapping around a slotted windlass shaft. Used with dry, heavier strapping precut to desired lengths.

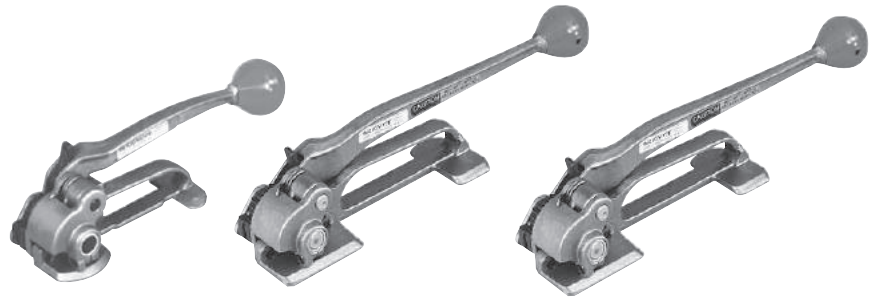


Rack-and-pinion—for heavy round or irregular applications

The rack-and-pinion tensioner uses a serrated gripping dog to hold the pulled strap end. It can be used with either dry or lubricated strapping on round or irregular shaped packages. This tensioner has limited take-up.



Model	Part Number	Strap Size				Strap Type	Strap Finish	Mech. Adv.	Weight	
		Width		Thickness					lbs	kg
		inch	mm	inch	mm					
Feedwheel tensioners										
ST	003480	3/8-3/4	9.5-19.0	0.017-0.023	0.43-0.58	Apex Plus, Magnus	Painted & Waxed	12	4	1.8
T	003450	5/8-3/4	15.9-19.0	0.017-0.035	0.43-0.64			18	5	2.3
TH-114	020500	1-1/4	31.8	0.029-0.035	0.74-0.89	Magnus		25	7	3.2



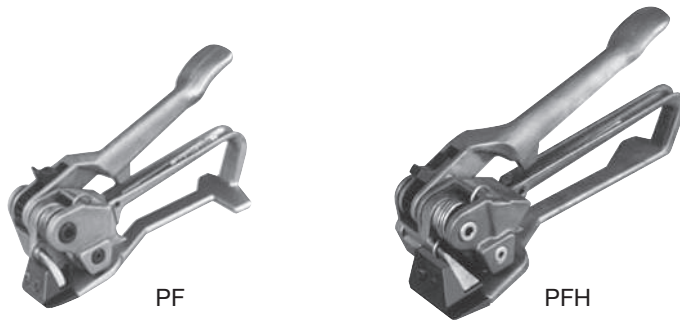
ST

T

TH

Push-type feedwheel tensioners

PF	017900	3/8-3/4	9.5-19.0	0.017-0.023	0.43-0.58	Apex Plus, Magnus	Painted & Waxed	18	4	1.8
PFH	017930	3/4-1-1/4	19.0-31.8	0.025-0.035	0.64-0.89	Apex Plus, Magnus	Painted & Waxed	23	7	3.2



PF

PFH

Windlass tensioners

4A1-114	184125	1-1/4	31.8	0.029-0.050	0.74-1.27	Magnus	Painted, Painted & Waxed	28	12	5.4
4A1-2	184140	2	50.8	0.044-0.050	1.12-1.27	Magnus		33	16	7.3

Rack-and-pinion tensioners

PH-2	010065	3/4-1-1/4	19.0-31.8	0.017-0.035	0.43-0.89	Apex Plus, Magnus	Painted, Painted & Waxed, Dry	22	7	3.2
------	--------	-----------	-----------	-------------	-----------	-------------------	-------------------------------	----	---	-----



4A1-114, 4A1-2

PH-2

Manual Sealers

For steel strapping

Signode manual sealers provide positive sealing action with minimal effort. Light and durable, they lock strap ends into a high strength joint. Notch-type sealers cut into the seal and outer edges of the strapping, turning tabs down (down notch) or up (reverse notch).

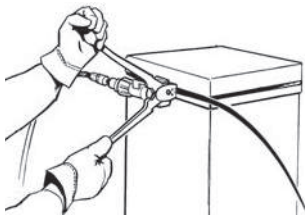


Crimp-type sealers press the edges of the strapping and seal into wavy crimps specially shaped to produce maximum frictional forces on the strapping.



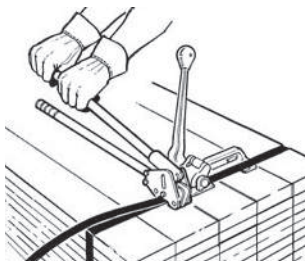
Two sealer types Side-action and front-action Front-action

Front-action sealer handles are held perpendicular to the strapping, usually in front of the operator who pushes the handles together close to the chest. Generally for light-duty strapping applications.



Side-action

The side-action sealer's lower handle can be rested on the flat surface of the unit being strapped. Operators can apply much of their weight with both hands on the upper handle. Generally for heavier strapping applications.



Model	Part Number	Strap Size				Working Position (Action)	Seal Name	Joint Type	Weight	
		Width		Thickness					lbs	kg
inch	mm	inch	mm							
Regular-duty sealers—front and side-action										
C-3820	008600	3/8	9.5	0.017-0.020	0.43-0.51	Front	38 C	Double Notch	3	1.4
SRC-3820	008620						38 SPC	Single Rev. Notch		
C-1223	008605	1/2	12.7	0.017-0.023	0.43-0.58	Front	12 C	Double Notch		
SRC-1223	008625						12 SPC	Single Rev. Notch		
YC-1223	023850					Side	12 C	Double Notch		
C-5823	008610	5/8	15.9	0.017-0.023	0.43-0.58	Front	58 C	Double Notch		
SRC-5823	008630						58 SPC	Single Rev. Notch		
YC-5823	023858					Side	58 C	Double Notch		
C-3423	008615	3/4	19.0	0.017-0.023	0.43-0.58	Front	34 C	Double Notch		
SRC-3423	008635						34 PNSC	Single Rev. Notch		
YC-1-3425	023875			Side	34 C	Double Notch				

C-3820
C-1223
C-5823
C-3423



YC-1223
YC-5823
YC-1-3425

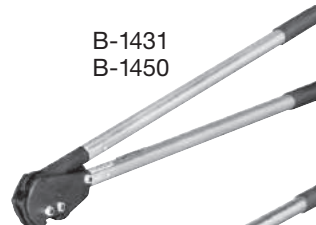
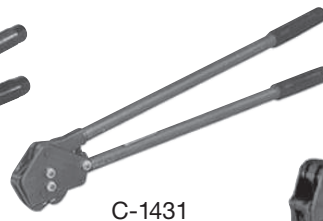


SRC-3820
SRC-1223
SRC-5823
SRC-3423

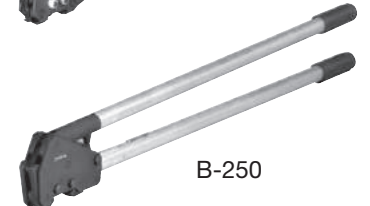
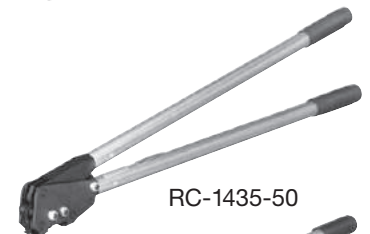


Heavy-duty sealers—side-action

SYC-3431	004040	3/4	19.0	0.025-0.031	0.64-0.79	Side	34 HC-OF, 34 HOC, 34 SHOC	Single Notch	6	2.7
RCD-3431	020560			0.025-0.031	0.64-0.79	Side	34 HOC	Dble. Rev. Notch	7	3.2
B-1431	020380	1-1/4	31.8	0.029-0.031	0.74-0.79	Side	104 DG, 107 DG	Single Crimp	6	2.7
B-1450	020580			0.044	1.12		104 DG, 107 DG, 107 DG OF, 117 HDG OF		8	3.6
C-1431	003970			0.029-0.031	0.74-0.79		114 OF, 114 P	8	3.6	
RC-1435-50	004050			0.029-0.044	0.74-1.12		114 OF, 114 P	7	3.2	
RCD-1431	020350			0.029-0.031	0.74-0.79		114 OF, 114 P	7	3.2	
B-250	020530			2	50.8		0.044-0.050	1.12-1.27	Side	208 DG



B-1450

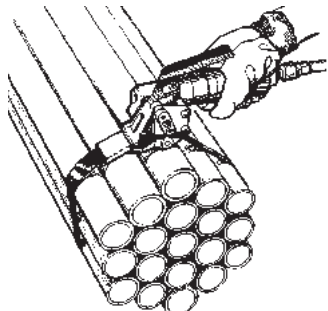


Pneumatic Tensioners & Sealers

For steel strapping

Tensioners

Signode pneumatic tensioners take most of the effort out of strapping large or compressible packages. They also make tensioning uniform and precise through adjustment of the air pressure regulator.



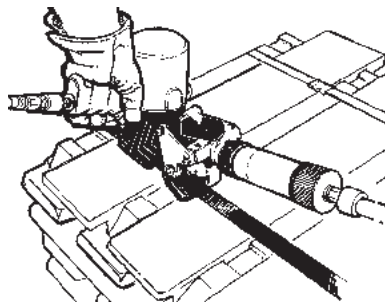
All pneumatic tensioners, except the WP-2, have unlimited strap take-up. All pneumatic tensioners are furnished with a quick-disconnect plug.

It is essential that an air filter-regulator-lubricator assembly (Part No. 424773) be installed ahead of the tool on the air line. See page 11 or page 21 for pneumatic tool accessories.

Sealers

Signode pneumatic sealers let compressed air do most of the work. They are used to achieve high production on heavy strapping, especially when seals are in awkward positions or whenever productivity must be maximized.

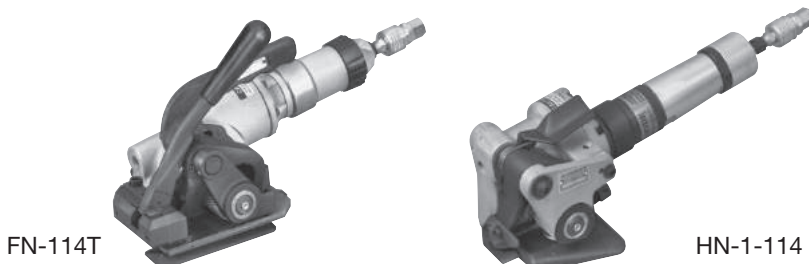
These labor-saving sealers come in two basic styles. Those featuring pistol grips are lightweight for easy one-hand operation. Diaphragm types are for heavier-duty applications, such as carloading.



All pneumatic sealers are furnished with a quick-disconnect plug. An air filter and regulator are necessary. A lubricator in the air line is not required. See page 11 or page 21 for pneumatic tool accessories.

* Three seals are required per joint.

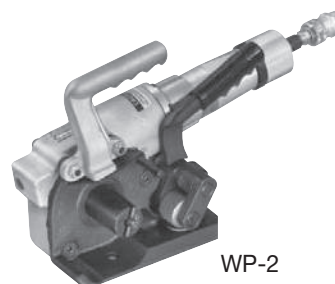
Model	Part Number	Strap Size				Strap Type	Strap Finish	Maximum Strap Tension		Weight	
		Width		Thickness				lbs	N	lbs	kg
		inch	mm	inch	mm						
Feedwheel tensioners											
FN-114T	008810	3/4-1-1/4	19.0-31.8	.031-.044	0.79-1.12	Magnus	Painted & Waxed	3,000	13 350	24	10.9
HN-1-114	027050	1-1/4	31.8	.029-.044	0.74-1.12	Magnus	Painted & Waxed	2,800	12 454	18	8.2



Push-type tensioner											
PN-2-114	423500	3/4-1-1/4	19.0-31.8	.020-.044	0.51-1.12	Magnus	Painted & Waxed	1,600	7 120	8.1	3.7

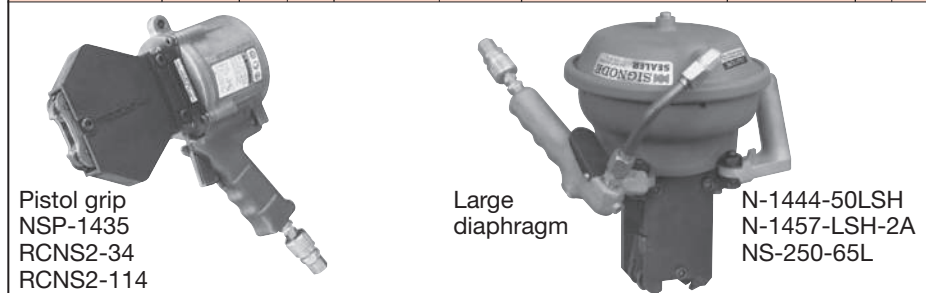


Windlass tensioner											
WP-2	023070	2	50.8	.044	1.12	Magnus	Painted & Waxed	8,000	35 590	23	10.4



Model	Part Number	Strap Size				Seal Name	Joint Type	Weight	
		Width		Thickness				lbs	kg
		inch	mm	inch	mm				

Sealers											
RCNS2-34	424200	3/4	19.0	0.025-0.031	0.64-0.79	34 HOC, 34 SHOC,	Single Rev. Notch	9	4.1		
RCNS2-114	424125	1-1/4	31.8	0.025-0.031	0.64-0.79	114 OF, 114 P, 114 TO	Single Rev. Notch	9	4.1		
N-1444-50LSH	024271	1-1/4	31.8	0.044-0.050	1.12-1.27	117 HDG OF	Double Crimp	22	10		
N-1457-LSH-2A*	423810	1-1/4	31.8	0.050-0.057	1.27-1.45	117 HDG OF	Double Crimp	32	14.5		
NSP-1435	015600	1-1/4	31.8	0.031-0.035	0.79-0.89	107 DG, 107 DG OF	Single Crimp	9	4.1		
NS-250-65L	014360	2	50.8	0.044-0.050	1.12-1.27	208 DG	Single Crimp	22	10		



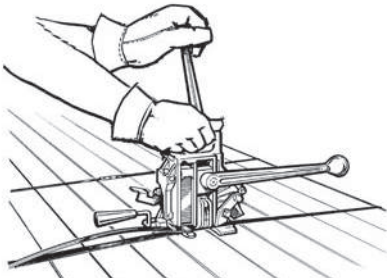
Combination Tools

For steel strapping

Combination tools function as tensioners, sealers, and often cutters as well. They save time by eliminating the handling of separate tools. But weighing more than such tools, they should be placed as close as possible to the position where they will be used. Seal-feed combination tools carry a stack of seals in a magazine for fast, easy loading.

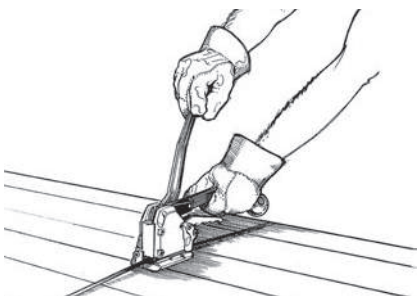
Manual seal-feed

Manually operated seal-feed combination tools include the AH, AL, and AM series models.



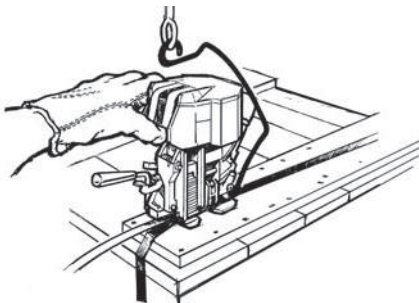
Manual sealless

The SCM and SCMH sealless combination tools require no metal seals, saving time and money. Production interruptions for reloading are eliminated, along with the purchasing, inventorying and loading of seals.



Pneumatic seal-feed

Using applied air pressure as a power source, pneumatic seal-feed combination tools quickly and effortlessly tension, seal, and cut the strapping. These tools include the AHP and the AMP.



Pneumatic sealless

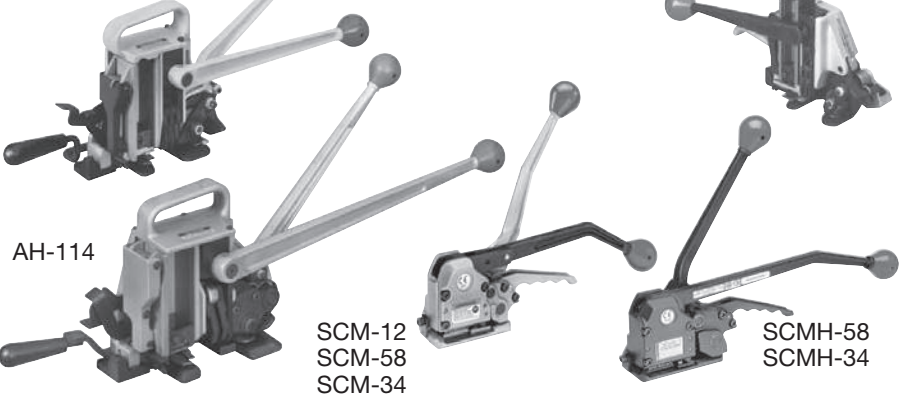
Pneumatic sealless combination tools include the SLP and the SPC.

Model	Part Number	Strap Size				Strap Type	Seal Name	Joint Type	Weight	
		Width		Thickness					lbs	kg
		inch	mm	inch	mm					
Manual seal-feed										
AL-38	023380	3/8	9.5	0.017-0.020	0.43-0.51	Apex Plus	38 AL	Double Notch	8	3.6
AL-12	023300	1/2	12.7	0.017	0.43		12 AL			
AM-12	023230	1/2	12.7	0.017-0.023	0.43-0.58	Apex Plus, Magnus	12 AMP	Double Notch	14	6.4
AM-58	023220	5/8	15.9	0.017-0.023	0.43-0.58		58/34 AMP			
AM-34*	023200	3/4	19.0	0.017-0.025	0.43-0.64					
AH-114	015700	1-1/4	31.8	0.031-0.035	0.79-0.89	Magnus	114 A	DRN**	25	11.3

Manual sealless										
SCM-12	424350	1/2	12.7	0.017-0.023	0.43-0.58	Apex Plus, Magnus	Sealless	3 Key	8.4	3.8
SCM-58	424358	5/8	15.9							
SCM-34	424334	3/4	19.0	0.017-0.025	0.43-0.64					
SCMH-58	424510	5/8	15.9	0.020-0.023	0.51-0.58	Apex Plus, Magnus	Sealless	3 Key	11	5
SCMH-34	424500	3/4	19.0	0.023-0.031	0.58-0.79					

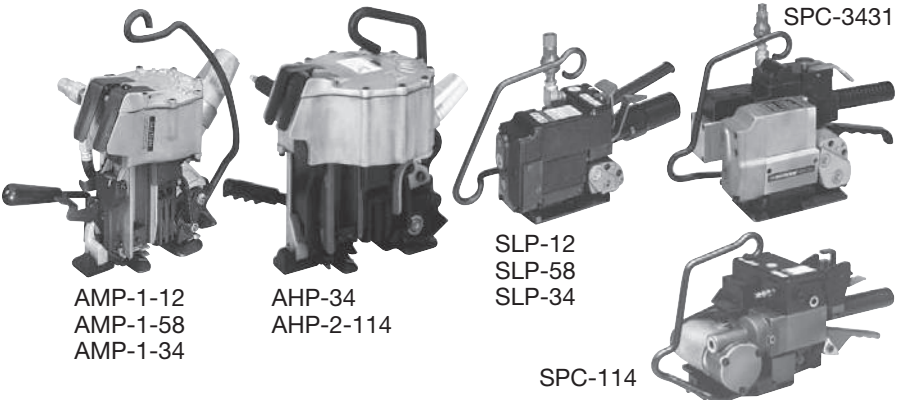
AM-12
AM-58
AM-34

AL-38
AL-12



Pneumatic seal-feed										
AMP-1-12	024780	1/2	12.7	0.020-0.023	0.51-0.58	Magnus	12 AMP	Double Notch	22	10
AMP-1-58	024770	5/8	15.9	0.020-0.023	0.51-0.58	Apex Plus, Magnus	58/34 AMP		22	10
AMP-1-34	024760	3/4	19.0	0.020-0.025	0.51-0.64					22
AHP-34	023700	3/4	19.0	0.031	0.79	Magnus	34 MNT		40	18.1
AHP-2-114	015650	1-1/4	31.8	0.025-0.035	0.64-0.89	Magnus	114 A	DRN**	40	18.1

Pneumatic sealless										
SLP-12	422350	1/2	12.7	0.017-0.023	0.43-0.58	Apex Plus, Magnus	Sealless	3 Key	15	6.4
SLP-58	422355	5/8	15.9	0.017-0.023	0.43-0.58					
SLP-34	422360	3/4	19.0	0.017-0.025	0.43-0.64					
SPC-3431	422446	3/4	19.0	0.025-0.031	0.64-0.79	Magnus	Sealless	4 Key	24	10.8
SPC-114	423125	1-1/4	31.8	0.025-0.031	0.64-0.79	Magnus	Sealless	4 Key	37	16.8



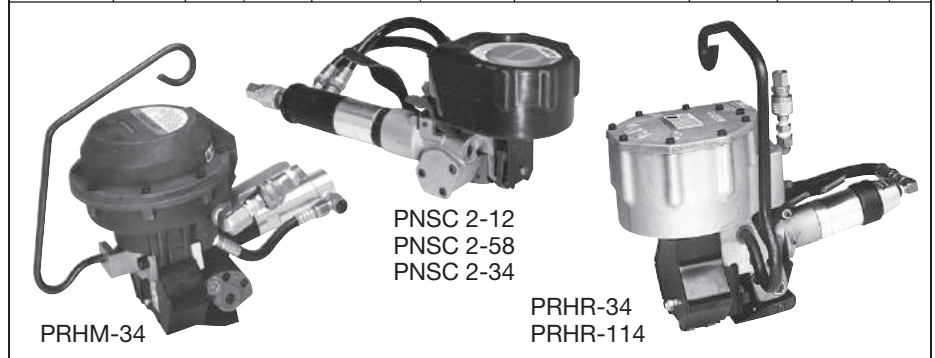
Combination Tools

For steel strapping

Pneumatic push-type

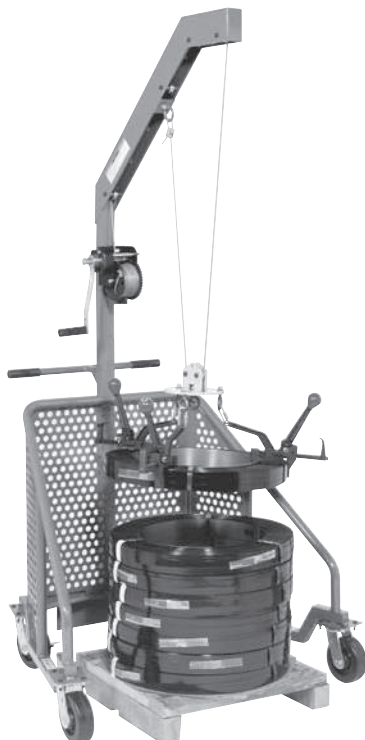
Pneumatic push-type combination tools, including the PNSC and PRH-Series models, are used with push-type seals on irregular-shaped packages. Air power tensions, seals and cuts the strapping.

Model	Part Number	Strap Size				Strap Type	Seal Name	Joint Type	Weight	
		Width		Thickness					lbs	kg
		inch	mm	inch	mm					
Pneumatic push-type										
PNSC 2-12	422495	1/2	12.7	0.017-0.023	0.43-0.58	Apex Plus, Magnus	12 SPC	Single	9.5	4.3
PNSC 2-58	422496	5/8	15.9	0.017-0.023	0.43-0.58		58 SPC	Reverse		
PNSC 2-34	422497	3/4	19.0	0.017-0.025	0.43-0.64		34 PNSC	Notch		
PRHM-34	306700	3/4	19.0	0.025-0.031	0.64-0.79	Magnus	34 HOC	Double	16	7.3
PRHR-34	424234	3/4	19.0	0.025-0.031	0.64-0.79	Magnus	34 HOC	Reverse	34	15.4
PRHR-114	423570	1-1/4	31.8	0.025-0.035	0.64-0.89		114 P	Notch	34	15.4



Coil Lifter

Capable of lifting up to 125 lb. strap coils, the standard coil lifter is designed for easy dispenser loading, both vertically and horizontally. Available in a stationary or portable model.



Pneumatic tool accessories **

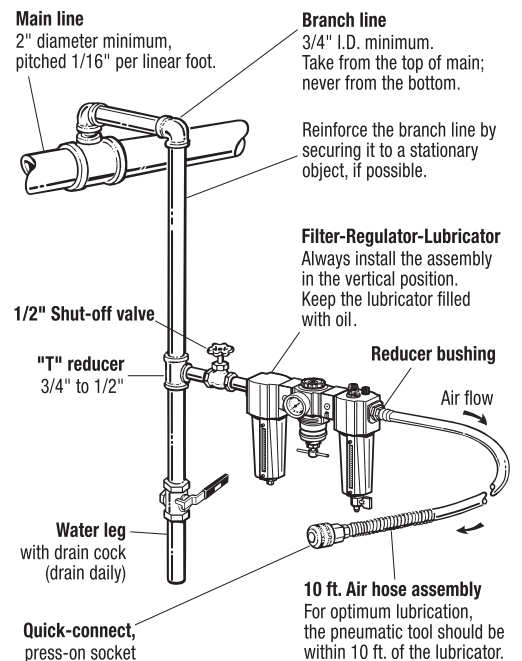
All new Signode pneumatic tools are supplied with a quick-disconnect plug. A filter-regulator-lubricator is needed with all pneumatic tools. These additional fittings and air hoses are available from Signode to provide efficient installation.

Recommended air hose for pneumatic tools: 10' x 1/2" (3.0m x 12mm) i.d. **(Part No. 424774)**

Note: Use light hydraulic oil in lubricator, such as Non-Fluid Oil No. LS-1236 (Part No. 008556) or equivalent.

** See Page 21 for additional information on the pneumatic tool accessories.

Recommended Air Line Piping



Dispensers

For steel strapping



DF-7A
Inexpensive model for mill wound coils.
General use.



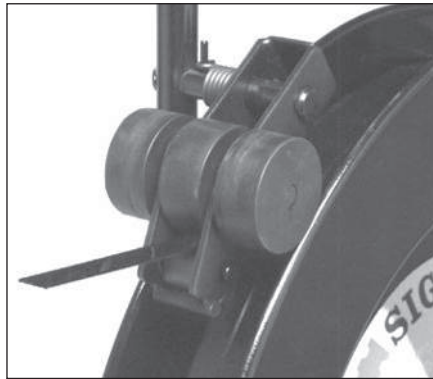
DF-15
For typical shipping room. Easily loaded with
mill wound coils.



DF-10RW
Accepts mill wound or ribbon wound coils
3/4" and 1-1/4" in width.



DO-3A
Overhead dispenser for mill wound coils. Wall (WB)
and ceiling (CB-9) mounting brackets available.



Straproller Feature
Prevents strap spillage and tangling.



DF-23
Fits almost anywhere. Pays off from the inside
of the coil. Mobile with optional DM-23 cart.
Cover required for strap over 0.023" (0.58 mm).
Cover sold separately (Part No. 024219).



DM-23
Makes the DF-23 mobile (Part No. 017000).



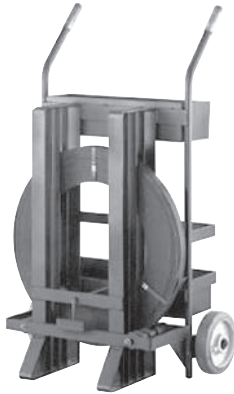
DP-1-23B
Electric-powered DF-23 for power equipment
only. Cover required for strap over 0.023"
(0.58 mm). (Part No. 043584).

Strap Dispenser Model	Part Number	Strap Size		Coil winding		Feeds from		Strap- troller Feature	Portable	Tool Tray	Dimensions						Dispenser Weight	
		inch	mm	Mill	Ribbon	Outside Vert. Coil	Inside Horiz. Coil				Height		Width		Length		lbs	kg
											inch	mm	inch	mm	inch	mm		
DF-7A	059999	3/8-3/4	9.5-19.0	•		•			•	•	28	711	13-1/2	343	35	889	63	28
DF-15*	273725	3/8-3/4	9.5-19.0	•		•		•	•	•	37-3/4	959	25	635	16	406	54.5	24.7
DF-10RW	020420	3/4 or 1-1/4	19.0 or 31.8	•	•	•		•	•	•	41	1 041	18-1/2	470	28	711	94	43
DO-3A	002870	3/8-3/4	9.5-19.0	•		•		•			31	787	6-3/4	171	27-3/4	705	41	18
DF-23	024200	3/8-3/4	9.5-19.0	•			•				8	200	24-1/2	622	24-1/2	622	35	16
DP-1-23B	002393	3/8-3/4	9.5-19.0	•			•				8	200	24-1/2	622	35-1/2	902	88	40

*Dispenser can be used with both steel and plastic strapping.

Dispensers

For steel strapping



DTR-3
Heavy-duty carloading. Rubber tires for easy mobility. Holds one coil 3/4", two coils 1-1/4", and one coil 2" strapping.



DT-1-10RW
Heavy-duty dispenser. Ideal for outdoor use in rough terrain.



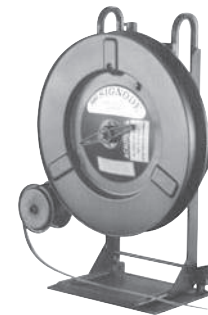
DH-1-34, DH-1-114, DH-1-2
For use with heavy-duty strapping.



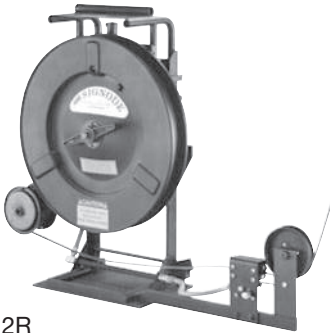
DA-34-114
Heavy-duty dispenser. Pays off from inside of coil.



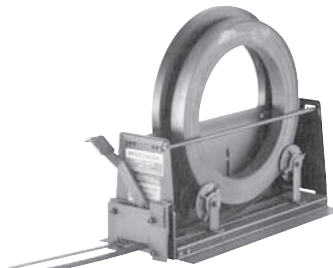
DM-1
Mobile dispenser with built-in filter-regulator-lubricator. Holds spare coil.



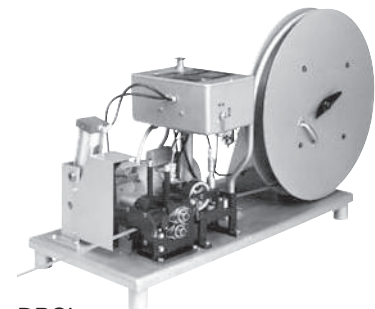
DF-1-12
For power equipment only. Dancer arm and brake. Base sold separately (Part No. 024360).



DP-1-12R
Pneumatic reversing dispenser. Generally for power strapping machines with large chute systems.



DC-1A
Built-in strap cutter for pre-cutting. Holds any two ribbon wound coils.



DPCL
Cuts strapping automatically up to 100 ft. in length.

Strap Dispenser Model	Part Number	Strap Size		Coil winding		Feeds from		Strap-troller Feature	Portable	Tool Tray	Dimensions						Dispenser Weight	
				Mill	Ribbon	Outside	Inside				Height		Width		Length			
		inch	mm	Vert.coil	Horiz.coil	inch	mm				inch	mm	inch	mm	lbs	kg		
DTR-3	164520	3/4-2	19.0-50.8		•	•			•	•	46-1/2	1 181	15-1/4	387	27-1/2	699	110	50
DT-1-10RW	011442	5/8-1-1/4	15.9-31.8	•	•	•		•	•	•	42	1 067	22	559	34	864	125	57
DH-1-34	047538	3/4	19.0		•	•					29-3/4	756	6-3/4	171	22-1/4	565	46	21
DH-1-114	047537	1-1/4	31.8		•	•					29-3/4	756	7-1/4	184	22-1/4	565	46	21
DH-1-2	047539	2	50.8		•	•					29-3/4	756	8	203	22-1/4	565	46	21
DA-34-114	020400	3/4 or 1-1/4	19.0 or 31.8		•		•				25-1/4	641	27-1/2	699	31	787	131	59
DM-1	020750	3/4 or 1-1/4	19.0 or 31.8		•		•		•	•	33-1/4	845	30-1/2	775	43-1/2	1 105	190	86
DF-1-12	031317	3/8-3/4	9.5-19.0	•		•					32	813	10	254	24-1/2	622	95	43
DP-1-12R	040900	3/8-3/4	9.5-19.0	•		•					36-3/4	933	12-3/8	314	47-1/4	1 200	170	77
DC-1A	005720	3/4-2	19.0-50.8		•	•					29*	737	15	381	32-1/2	826	97	44
DPCL	083001	3/8-2	9.5-50.8	•	•	•					36	914	21	533	52	1 321	450	204

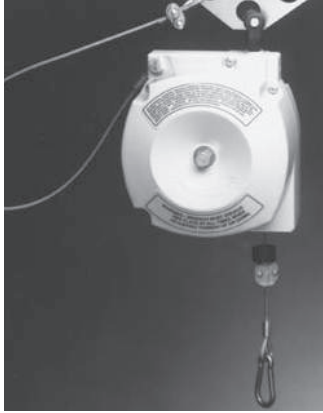
*With coil.

Tool Suspension Systems

For steel and plastic strapping

Overhead tool balancers

Tool balancers are the easiest and most efficient way to suspend strapping tools from a fixed ceiling bracket, monorail, jib or bridge crane.



BFL-9
Part No. 423283*
6-9 lbs. (2.7-4.1 kg),
6.6 ft. (2 m) cable travel



EB2500R
Part No. 485001*
18-25 lbs. (8.2-11.4 kg),
6.6 ft. (2 m) cable travel



10FLR
Part No. 485010
4-10 lbs. (1.8-4.5 kg),
8 ft. (2.4 m) cable travel

15FLR
Part No. 485011
8-15 lbs. (3.6-6.8 kg),
8 ft. (2.4 m) cable travel

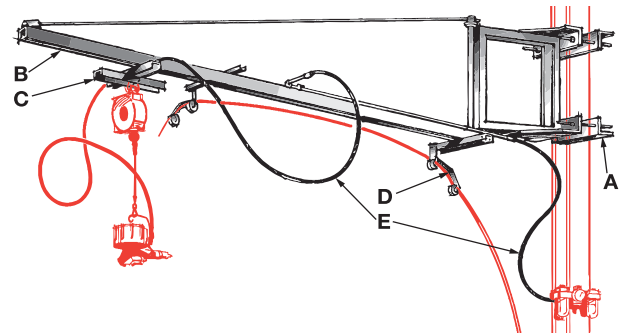
BFL-13
Part No. 306809*
9-13 lbs. (4.1-5.9 kg),
6.6 ft. (2 m) cable travel

EB3500R
Part No. 485002
25-35 lbs. (11.3-15.9 kg),
6.6 ft. (2 m) cable travel

BFL-18
Part No. 423278*
13-18 lbs. (5.9-8.2 kg),
6.6 ft. (2 m) cable travel

EB4500R
Part No. 485003
35-45 lbs. (15.9-20.5 kg),
6.6 ft. (2 m) cable travel

* Ratchet lock halts cable at desired position, prevents creep. The lock can be released by a tug and can also be disengaged.



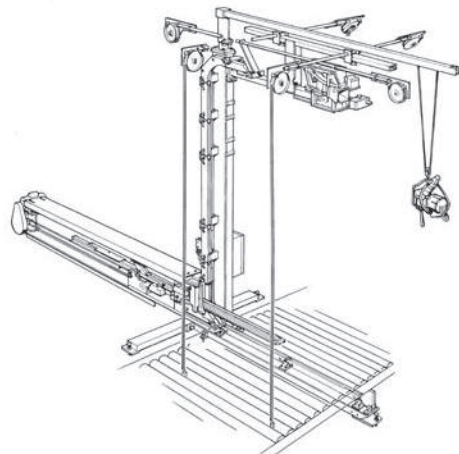
Jib crane

Signode's JN-15, Part No. 084165, is a 15 ft. (4.6 m) jib crane used to suspend pneumatic combination tools overhead. It handles steel strapping in widths up to 1-1/4" (31.8 mm).

- A. Post mounting bracket
- B. Enclosed trolley track
- C. Tool carrier assembly
- D. Strap guide rollers
- E. Air line components

Power Strap Feeder (PSF-2) For plastic and steel strapping

The PSF-2 power strap feeder is designed to improve virtually any manual packaging operation regardless of package size, strapping material, pallet type, or packaging line configuration.



The modular design can be customized to accommodate your packaging operation.

Standard features: automatic strap feed shutoff, automatic seal feed bend over device.

Options: chute extensions, casters, pallet void feeding attachments, strap grippers, strap directors and more.

Efficiency

Automatic strap feeding greatly improves production speed and helps eliminate bottlenecks.

Economy

The PSF-2 requires only one operator (two or more are required for manual strap feeding), which can significantly reduce operating costs. Your labor cost savings, coupled with increased production, elimination of bottlenecks and the PSF-2's low cost, gives you a relatively quick return on investment.

Specifications

- Maximum package size:** 76"H (1930mm), 48" (1219mm) front to back
- Steel strapping:** 3/8" x .017" to 3/4" x .031" (9.5mm x 0.43mm to 19mm x 0.79mm)
- Plastic strapping:** Tenax® 1716, 1718, 1816, 1818, 1822, 2030, 2040
Conrax® HD 723, HD 729, 816, 818
- Dispenser:** DF-23, DF-1-12D
- Tool suspension:** Overhead jib suspension with cable
- Motor:** 1/4 hp (.1864 KW), 1140 RPM, 115V, single phase, 60Hz

For steel and plastic strapping

Cutters—for plastic and steel strapping



Model CY-29
Part No. 426000
Lightweight.
Improved alloy steel. Cuts strap through 3/4" x 0.031" (19.0 x 0.79mm). Shipping weight: 1.5 lbs. (0.68 kg)



Model CY-30
Part No. 426010
Lightweight.
Improved alloy steel. Cuts strap through 1-1/4" x 0.035" (31.8 x 0.89mm). Shipping weight: 3 lbs. (1.35 kg)



Model CU-30
Part No. 005899
Lightweight.
One-hand operation. Cuts strap through 1-1/4" x 0.035" (31.8 x 0.89mm). Shipping weight: 3 lbs. (1.35 kg)



Model CU-25
Part No. 005740
For strap removal or cutting strap to length. Replaceable blades. Cuts strap through 2" x 0.050" (50.8 x 1.27mm). Shipping weight: 8 lbs. (3.6 kg)

Anti-skid plates

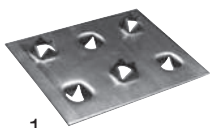
Anti-skid plates are simple, inexpensive devices that retard product shifting in trailers or railcars.

No. 1, Part No. 005493

Used principally beneath pallets or skids in trailers, trailers on flatcars (TOFC), containers on flatcars (COFC), open top railcars and boxcars. For heavy loads. Dimensions: 3-3/4" x 5" (95.2 mm x 127.0mm). Standard pack: 125 pcs., 36 lbs. (16.3 kg).

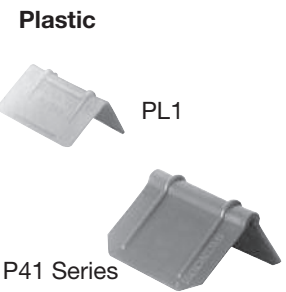
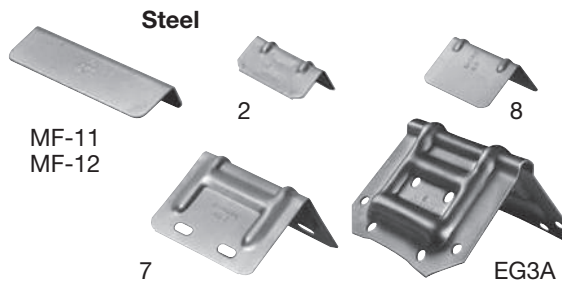
No. 2, Part No. 000148

Used beneath pallets or skids in trailers or railcars. For lighter loads. Diameter: 1-3/8" (34.9mm). Standard pack: 2500 pcs., 43 lbs. (19.5 kg).



1

2



Steel and plastic edge protectors

For strapping up to 1-1/4" (31.8 mm) wide, Signode steel and plastic edge protectors cushion your product and

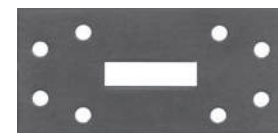
allow straps to be tightly applied without causing damage. Plastic ribbed edge protectors are available in red, blue, white or yellow for color coding.

Model	Part Number	Color	Composition	Maximum Strap Width		Edge Protector Dimensions						Standard Package		Package Weight	
						Length		Width		Thickness					
						inch	mm	inch	mm	inch	mm	inch	mm	Pack	lbs
MF-11†	001261	Metallic	Steel	3/4	19.0	5/8	15.9	4	101.6	0.031	0.79	1,000	57	25.9	
MF-12†	001263					5/8	15.9	4	101.6	0.048	1.22	1,000	57	25.9	
2	001297	Metallic	Steel	3/4	19.0	3/4	19.0	1-3/4	44.4	0.028	0.71	2,500	53	24.0	
8	001561					1-1/8	28.6	1-3/4	44.4	0.028	0.71	2,250	62	28.1	
7	001598	Metallic	Steel	1-1/4	31.8	2	50.8	2-3/4	69.9	0.030	0.76	500	47	21.3	
EG3A	001260					2-1/2	63.5	3-1/8	79.4	0.031	0.79	180	31	14.1	
PL1	085971	White	Plastic	3/4	19.0	1-1/4	31.8	2	50.8	—	—	2,000	23	10.4	
P41 Series	041504	Red	Plastic	1-1/4	31.8	2	50.8	2-3/4	69.9	0.093	2.11-2.36	1,000	40	18.1	
	041505	White													
	041506	Blue													
	041507	Yellow													

*Galvanized † For use in automatic edge protector applicators

Anchor plates

Used to secure ends of strap to car studs. Fasten with No. 225 Microlock nails, Part No. 002989.



Model	Part Number	Strap Width		Plate Dimensions		Standard Pack	Shipping Weight	
		inch	mm	inch	mm		lbs	kg
—	006103	3/4	19.0	2 x 2 x 1/8	50.8 x 50.8 x 3.18	400	51	23.2
—	001294	1-1/4	31.8	4 x 2 x 1/8	101.6 x 50.8 x 3.18	200	51	23.2

Combination Anchor-Brakeman® plates

These are used primarily as retarder plates in boxcars with nailable steel floors for controlled floating loads. They can also be used as either anchor plates on walls or Brakeman plates in boxcars with wood floors.



Model	Part Number	Strap Width		Plate Dimensions		Standard Pack	Shipping Weight	
		inch	mm	inch	mm		lbs	kg
NSP-114	001462	1-1/4	31.8	2 x 6 x 0.134	50.8 x 152.4 x 3.40	200	50	22.8
NSP-2	001461	2	50.8	2 x 6 x 0.134	50.8 x 152.4 x 3.40	125	52	23.6

Plastic Strapping

Four types for a wide range of applications

Signode plastic strapping is manufactured for use with hand tools and high-production power strapping machines. All types have controlled surface

properties that minimize tensioning effort, increase tension-transmission around corners and improve operating efficiency. All are split-resistant to increase reliability in tools and power equipment.

Specifications for all varieties of Signode plastic strapping along with general methods of application for each type are detailed in the following tables.



Contrax® strapping – polypropylene

Contrax polypropylene strapping is a good choice for light and medium-duty applications, including palletizing, unitizing, bundling, carton closure and reinforcement. It resists splitting and has a smooth, uniform surface so it

performs reliably in power strapping machines and hand tools.

Contrax strapping has “elastic memory” which absorbs shock and keeps strapping tight during handling and shipping.

Contrax® strapping – polypropylene

Strap Name	Standard Color	Part Number	Strap Width		Average Strength		Approximate Length per Coil		Approx. Coil Outside Dia.		Core Size Inside Dia.		Approximate Coil Width		Coil Weight lbs	Standard Package Coils/Pallet	Strapping Application Methods		
			mm	inch	lbs	N	feet	m	inch	mm	inch	mm	inch	mm					
Light Duty Contrax	LD 213	Clear	2X1602	6	1/4	145	640	21,000	5 793	16	406	4	102	6	152	26	30	ML Power Strapping Machines	
	LD 213	Yellow	2X1603																
	LD 216	Clear	2X1604	6	1/4	200	890	16,500	5 030	16	406	4	102	6	152				25
	LD 216	Yellow	2X1605																
Heavy Duty Contrax	HD 719	Clear	2X1610	10.5	7/16	400	1 780	12,000	3 659	24	609	16	406	6	152	36	12	MOD-710 Power Strapping Machines, Pneumatic Tension-Weld Tools	
	HD 719	Black	2X1611																
	HD 723	Clear	2X1612	10.5	7/16	500	2 220	9,000	2 744	24	609	16	406	6	152				34
	HD 723	Black	2X1613																
	HD 729	Black	2X1618	10.5	7/16	600	2 670	7,700	2 348	24	609	16	406	6	152				36
	816	Black	010366	12	1/2	500	2 220	8,000	2 439	24	609	16	406	6	152				33
818	Black	010385	12	1/2	600	2 670	7,000	2 134	24	609	16	406	6	152	35				
LB, SP Light Duty Contrax	LB 112	Clear	2X1844	5	3/16	100	445	30,000	9 146	16	406	7.88	200	7.8	198	28	24	LBX Power Strapping Machines	
	LB 112	Yellow	2X1870																
	LB 212	Clear	2X1845	6	1/4	150	667	24,000	7 317	16	406	7.88	200	7.8	198	27			
	LB 212	Yellow	2X1848																
	LB 113	Clear	2X1601	5	3/16	120	530	25,000	7 622	16	406	7.88	200	7.8	198	31	24	LB, SP & SureTyer Power Strapping Machines	
	LB 113	Yellow	2X1709	6	1/4	200	890	18,000	5 488	16	406	7.88	200	7.8	198	28			
SP 216	Clear	2X1606																	
SP 216	Yellow	2X1607																	
HB, SP General Duty Contrax	HB 612	Clear	2X1738	9	3/8	225	1 000	16,000	4 878	16	406	7.88	200	7.8	198	29	24	HBX Power Strapping Machines	
	HB 612	Black	2X1727																
	HB 812	Clear	2X1885	12	1/2	300	1 330	12,000	3 659	16	406	7.88	200	7.8	198	27			
	HB 812	Black	2X1886																
	SP 616	Clear	2X1608	9	3/8	300	1 330	12,000	3 659	16	406	7.88	200	7.8	198	28	24	HB, SP & SureTyer Power Strapping Machines	
	SP 616	Black	2X1609																
	SP 719	Clear	2X1614	10.5	7/16	400	1 780	9,000	2 744	16	406	7.88	200	7.8	198	28			
	SP 719	Black	2X1615																
SP 723	Clear	2X1616	10.5	7/16	500	2 220	7,500	2 287	16	406	7.88	200	7.8	198	27				
SP 723	Black	2X1617																	



Empax™ strapping – polypropylene

Empax waffled strapping is designed to perform in hot-knife sealing machines that require embossed strapping. It is a good choice for many light and medium-duty applications. A variety of coil sizes are available for use in many power strapping machines.

Empax has “elastic memory” to keep straps tight, and features consistent width and gauge control to run smoothly in your strapping machine. It is an economical choice for many applications.

Empax™ strapping – polypropylene

Strap Name	Part Number	Standard Color	Strap Width		Average Strength		Approximate Length per Coil		Core Size Inside Dia.		Face Width		Approx. Coil Outside Dia.		Coil Weight lbs	Standard Package Coils/Pallet	Strapping Application Methods
			mm	inch	lbs	N	feet	m	inch	mm	inch	mm	inch	mm			
Empax	2X1230	White	6	1/4	200	890	18,000	5 490	8	203	8	203	16	406	28	24	Hot-knife sealing power machines that require embossed strapping
	2X1112		9	3/8	300	1 330	12,900	3 930	8	203	8	203	16	406	28		
	2X1113		9	3/8	300	1 330	12,900	3 930	9	229	8	203	17	432	28		
	2X1114		12	1/2	350	1 557	9,900	3 020	8	203	8	203	16	406	28		
	2X1115		12	1/2	350	1 557	9,900	3 020	9	229	8	203	17	432	28		



Tenax® strapping – polyester

Tenax polyester strapping can be tensioned to a higher percentage of its break strength than any other strapping material. It provides superior retained tension under hot, humid conditions and is more resistant to such environments than other plastic strapping. It also provides greater load

stability during storage and shipping.

Tenax strap is strong, yet resilient enough to perform smoothly and reliably in power strapping machines and hand tools. And it's more tear and snag resistant than other plastic strapping.

Tenax® strapping – polyester

Strap Name	Standard Color	Part Number	Strap Width		Average Strength		Approximate Length per Coil		Approx. Coil Outside Dia.		Core Size Inside Dia.		Approximate Coil Width		Coil Weight	Standard Package Coils/Pallet	Strapping Application Methods
			mm	inch	lbs	N	feet	m	inch	mm	inch	mm	inch	mm	lbs		
Tenax	Green	2X1710	9	3/8	425	1 890	14,500	4 420	24	609	16	406	6	152	57	24	MOD-710 Power Strapping Machines
		1716LC	10.5	7/16	475	2 110	11,550	3 520	24	609	16	406	6	152	55		MOD-710 Power Strapping Machines, Pneumatic Tension-Weld Tools
		1718LC	10.5	7/16	550	2 450	9,900	3 018	24	609	16	406	6	152	53		12
		1816	010379	12	1/2	500	2 220	10,500	3 200	24	609	16	406	6	152	51	
		1818	010361	12	1/2	600	2 670	9,000	2 740	24	609	16	406	6	152	51	
		1822	010355	12	1/2	800	3 560	6,500	1 980	24	609	16	406	6	152	50	

High-Strength Tenax™ – polyester

Strap Name	Standard Color	Part Number	Strap Width		Average Strength		Approximate Length per Coil		Approx. Coil Outside Dia.		Core Size Inside Dia.		Approximate Coil Width		Coil Weight	Standard Package Coils/Pallet	Strapping Application Methods	
			mm	inch	lbs	N	feet	m	inch	mm	inch	mm	inch	mm	lbs			
High-Strength Tenax	Green	2030	2X1365	15.6	5/8	1,100	4 890	4,600	1 402	24	609	16	406	6	152	49	24	Power Strapping Machines, Hand Tools designed specifically for use with High-Strength Tenax
		2038	2X1880	15.6	5/8	1,300	5 785	4,000	1 220	24	609	16	406	6	152	55		
		2040*	2X1369	15.6	5/8	1,400	6 230	4,000	1 219	24	609	16	406	6	152	50		
		2040H*	2X1460	15.6	5/8	1,600	7 170	4,000	1 219	24	609	16	406	6	152	57		
		2225	2X1355	19.0	3/4	2,500	11 120	2,400	732	24	609	16	406	6	152	52		
		2480	2X1851	25.4	1	2,500	11 120	2,200	670	24	609	16	406	6	152	50	Hand Tools designed specifically for use with High-Strength Tenax	
		10050	2X1842	25.4	1	3,000	13 345	1,800	626	24	609	16	406	6	152	51		

* 2040 High-Strength Tenax strapping is AAR approved.



Dymax® strapping – nylon

Dymax strapping is oriented during manufacturing, making it six times stronger than ordinary nylon. Ideal for use in cold room applications, such as food processing, it resists tension decay and provides better reinforcement over long storage periods.

Dymax strapping stays tight. It conforms to changes in load size and shape without sacrificing its reinforcement capabilities. A smooth, lubricated finish helps ensure reliable feeding through feedwheel-type strapping equipment.

Dymax® strapping – nylon

Strap Name	Standard Color	Part Number	Strap Width		Average Strength		Approximate Length per Coil		Approx. Coil Outside Dia.		Core Size Inside Dia.		Approximate Coil Width		Coil Weight	Standard Package Coils/Pallet	Strapping Application Methods	
			mm	inch	lbs	N	feet	m	inch	mm	inch	mm	inch	mm	lbs			
Dymax	Black	304	025512	11.1	7/16	630	2 800	9,000	2 740	24	609	16	406	6	152	44.5	10	Pneumatic Tension-Weld Tools, MOD-710 Power Strapping Machines
		306	025567	11.1	7/16	790	3 510	7,200	2 190	24	609	16	406	6	152	44.5		
		502	025571	12.7	1/2	475	2 110	12,000	3 660	24	609	16	406	6	152	44.5		Hand Tools using metal seals (50SL or 50DL Buckles w/502 Dymax), Pneumatic Tension-Weld Tools
		504	025583	12.7	1/2	630	2 800	9,000	2 740	24	609	16	406	6	152	44.5		
		506	025595	12.7	1/2	790	3 510	7,200	2 190	24	609	16	406	6	152	44.5		
		508	025574	12.7	1/2	950	4 230	6,000	1 830	24	609	16	406	6	152	44.5		

Plastic Strapping & Seals



Self-contained Contrax strapping stations

Handy strapper*

The carry-carton kit contains 2,500 ft. of 12mm Contrax strapping. It can be ordered with or without 425 Steelock buckles.
With buckles: Part No. 010426
Without buckles: Part No. 010425

Dispensi-pak*

Everything needed for strapping is contained in this portable package weighing less than 2 lbs. The Dispensi-pak includes 250 ft. of 12mm Contrax strapping and 40 Steelock buckles. (Only shipped in units of ten.)
Part No. 010490



*Use with a DLT tensioner is recommended.

Seals

For plastic strapping

Plastic joint types

Normal packaging rates for any application influence both the choice of strap and its joining methods. For low-volume, low-tension strapping of lightweight packages or bundles, Signode Steelock™ or Dylock™ buckles are probably the most economical method of joining strap, since they require no special sealing tool.

Seals for hand tool application

All types of 12mm Signode plastic strapping as well as 16mm and 19mm High-Strength Tenax strapping can be sealed with hand tools using metal seals. Signode manufactures snap-on seals for manual sealers and Nestack seals for use in combination strapping tools with seal magazines.

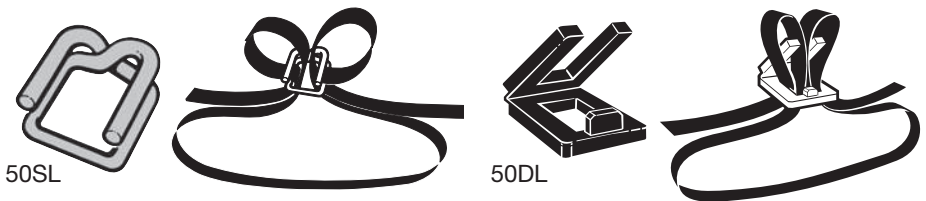
Seal and joint strength

To ensure positive joint strength on all four types of plastic strapping, Signode steel seals and special sealers are used to form crimp joints. Crimp joints are formed by compressing the seal onto overlapping straps. The holding power of the joint is generated by squeezing the straps and the seal together.

Signode snap-on seals use a grit coating on the inside to increase friction between the strapping and the seals, while Nestack seals use steel teeth.

Tension-Weld® sealless joint

The Tension-Weld® process, developed by Signode, positively joins plastic strapping without the use of seals or applied heat.

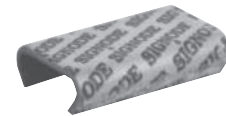


Steelock™ & Dylock™ buckles

Seal Name	Strap Size		Part Number	Seal Type	Tool Name	Seal Length		Standard Package	Approx. Shipping Weight	
	mm	inch				inch	mm		lbs	kg
50 DL	12	1/2	000470	Dylock	DLT	.885	20.6	5,000	23	10.4
50 SL	12	1/2	000472	Steelock	DLT	.937	23.8	2,500	52	23.6

Snap-on seals

Snap-on seals are placed on overlapping strap ends either during or after strap tensioning. These seals generally reduce application time.



Seal Name	Strap Size		Part Number	Seal Type	Tool Name	Seal Length		Standard Package	Approx. Shipping Weight	
	mm	inch				inch	mm		lbs	kg
50 DYS	12	1/2	000465	Snap-on	D-504	3/4	19.0	3,100	40	18.1
50 DY	12	1/2	000466	Snap-on	D-504, D-506	1-1/8	28.3	2,500	42	19.1
58 DY	16	5/8	2X1672	Snap-on	D-58	1-1/2	38.1	1,000	28	12.7
34 DY	19	3/4	2X1795	Snap-on	D-34	2-1/8	55.9	1,000	45	20.4

Nestack® seals

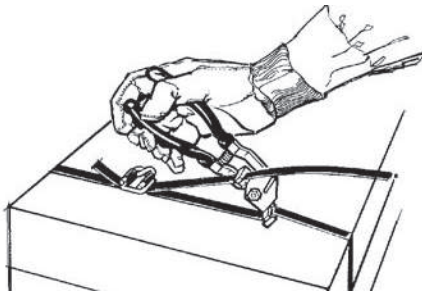
Nestack® seals for plastic strapping are stacked seals held together by plastic filaments. Designed for use in seal magazines of combination strapping tools, they are packaged in trays that can be conveniently placed at any strapping station.



Seal Name	Strap Size		Part Number	Seal Type	Tool Name	Seal Length		Standard Package	Approx. Shipping Weight	
	mm	inch				inch	mm		lbs	kg
50 ASD	12	1/2	000531	Nestack	AMPT-12, AST	1-1/8	28.3	2,200	40	18.1
58 AMT	16	5/8	2X1303	Nestack	AMPT-58, AMT-58	1-1/8	28.3	1,800	41	18.6

Manual Tensioners & Sealers

For plastic strapping

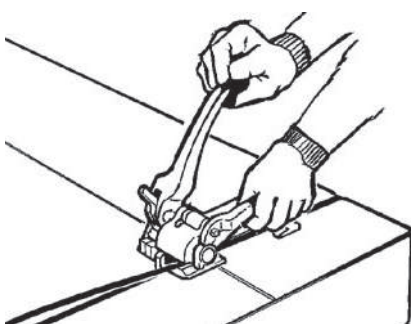


Model	Part Number	Strap Type		Buckle	Description	Shipping Weight	
		Dymax	Contrax*			lbs	kg
DLT	023930	502, 504	816, 818	50SL, 50DL	Gripper with cutter	5/8	0.3

Walking gripper tensioner

Lightweight tensioner/cutter designed for buckle applications with plastic strapping. Provides maximum tension with Steelock or Dylock buckles.

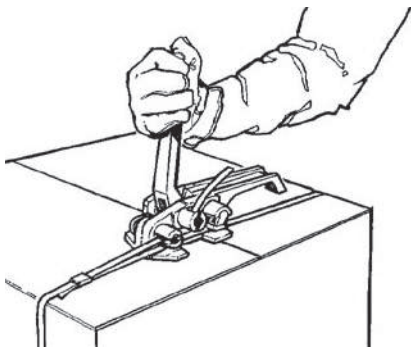
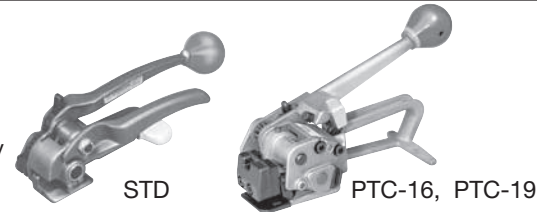
* Tool may be used with 816, 818 Contrax strapping, but only with the 50DL buckle (Not the 50SL).



Model	Part Number	Strap Type			Description	Shipping Weight	
		Dymax	Contrax	Tenax		lbs	kg
STD	257080	502, 504 506, 508	816, 818	1816, 1818, 1822	Feedwheel with cutter	3-1/4	1.5
PTC-16	426020	—	—	2030, 2040	Feedwheel with cutter	7	3.2
PTC-19	426040	—	—	2225	Feedwheel with cutter	7	3.2

Feedwheel tensioner

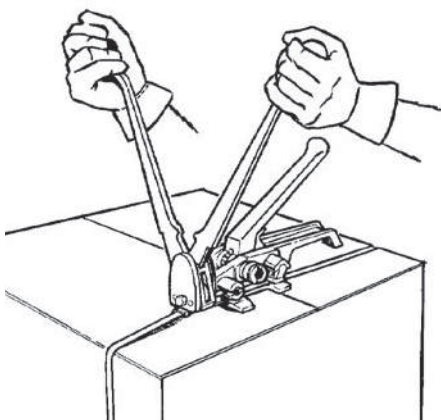
A serrated feedwheel grips the strapping and rotates to draw up slack. Fast and easy to position and use. Take-up is unlimited, and strapping may be used directly off the coil.



Model	Part Number	Strap Type			Description	Shipping Weight	
		Dymax	Contrax	Tenax		lbs	kg
WHD	257400	502, 504 506, 508	816, 818	1816, 1818, 1822, 2030, 2040	Windlass with cutter	9	4.1

Windlass tensioner

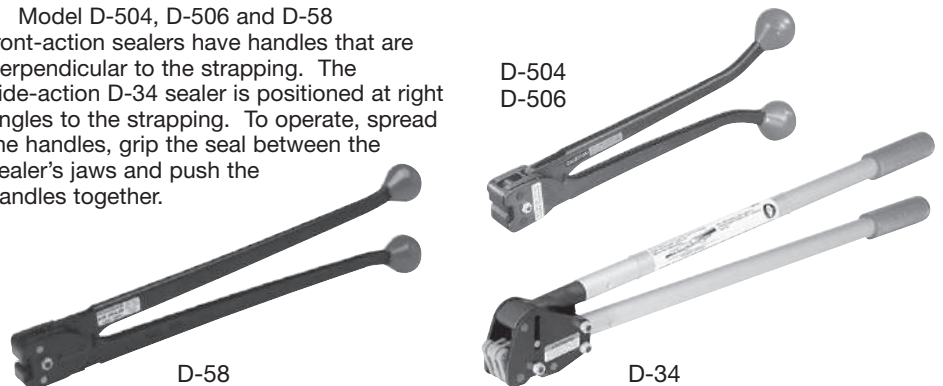
Applies tension by gripping one end of the strapping and winding the other around a slotted shaft.



Model	Part Number	Strap Type			Seal	Joint Type	Description	Shipping Weight	
		Dymax	Contrax	Tenax				lbs	kg
D-504	023800	502, 504	816	1816, 1818	50DY, 50DYS	Crimp	Front Action	2-1/4	1.0
D-506	023820	506, 508	818	1822	50DY	Crimp		2-1/4	1.0
D-58	423800	—	—	2030, 2038B, 2040	58DY	Crimp	4-1/4	1.9	
D-34	424400	—	—	2225	34DY	Crimp	Side	7	3.0

Sealers

Model D-504, D-506 and D-58 front-action sealers have handles that are perpendicular to the strapping. The side-action D-34 sealer is positioned at right angles to the strapping. To operate, spread the handles, grip the seal between the sealer's jaws and push the handles together.

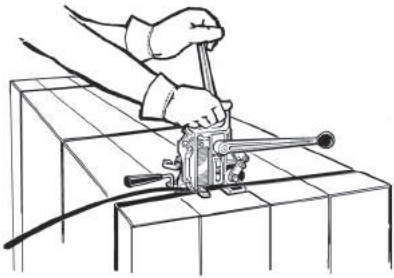


Combination Tools

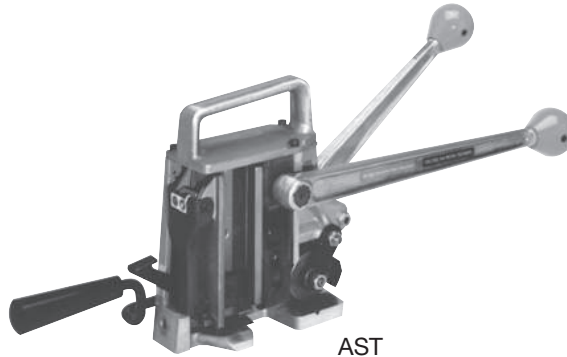
For plastic strapping

Combination strapping tools

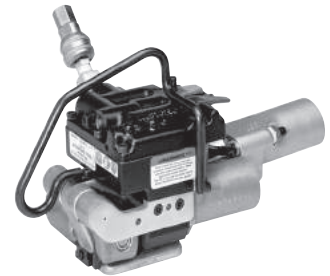
Combination tools function as tensioners, sealers and cutters. They save time by eliminating the handling of separate tools. But because they weigh more than such tools, they should be placed as close as possible to the position where they will be used. Seal-feed combination tools carry a stack of seals in a magazine for fast, easy loading.



Model	Part Number	Strap Type			Seal	Joint Type	Description	Shipping Weight	
		Dymax	Contrax	Tenax				lbs	kg
AST	422950	502, 504, 506, 508	814, 816, 818	1816, 1818, 1822	50ASD	Crimp	Manual	11.5	5.2
VT-10	425251	302, 304, 306	HD719, HD723, HD729	1716, 1718	None	Tension-	Pneumatic	7	3.2
VT-13	425252	502, 504, 506	816, 818	1816, 1818, 1822	None	Weld	Pneumatic	7	3.2



AST



VT-10
VT-13

Manual

The AST manual seal-feed combination tool uses Contrax, Dymax and Tenax strapping.

The AMT-58 is the ideal tool for High-Strength Tenax strapping.

Pneumatic

The AMPT-58 is the ideal hand tool for High-Strength Tenax strapping.

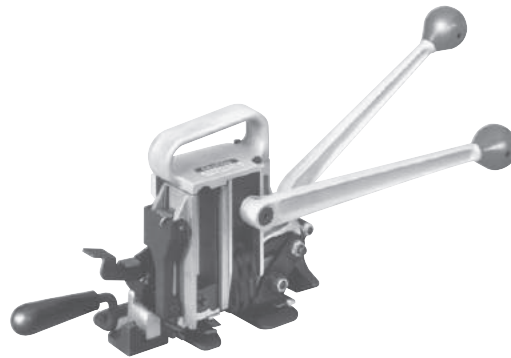
Pneumatic Tension-Weld®

The model VT-10 and VT-13 combination tools apply Contrax, Dymax and Tenax strapping. Strap ends are joined with Signode's patented Tension-weld® process, eliminating the need for metal seals.

The lightweight VT-16, VT-19, VT-16HD, VT-19HD and VT-25HD tools apply High-Strength Tenax strapping at higher tension levels. Ideal for use in both horizontal and vertical applications.

High-Strength Tenax strapping tools

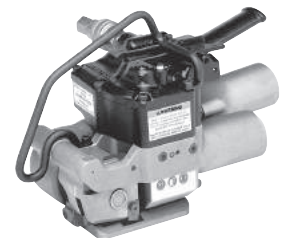
Model	Part Number	Strapping	Seal	Joint Type	Applied Tension	Description	Shipping Weight	
							lbs	kg
AMT-58	306930	High-Strength Tenax	58 AMT	Crimp	400 lbs	Manual	14	6.4
AMPT-58	422200	2030, 2040	58 AMT	Crimp	600 lbs	Pneumatic	21.5	9.8
VT-Brick	424765	High-Strength Tenax 2030, 2038B	None	Tension-Weld	600 lbs	Pneumatic	10.5	4.8
VT-16	423990	High-Strength Tenax 2030, 2038B, 2040			600 lbs	Pneumatic	9.5	4.2
VT-19	423991	High-Strength Tenax 2225			600 lbs	Pneumatic	9.5	4.2
VT-16HD	427280	High-Strength Tenax 2225			800 lbs	Pneumatic	10.5	4.8
VT-19HD	426160	High-Strength Tenax 2225						
VT-25HD	423992	High-Strength Tenax 2480						



AMT-58



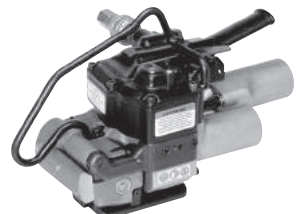
VT-Brick



VT-16
VT-19



AMPT-58



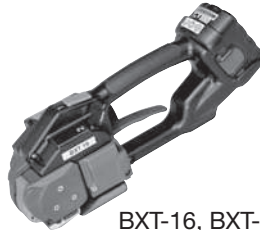
VT-16HD
VT-19HD
VT-25HD

Battery-Operated Tools

For plastic strapping

Battery-Operated Tension-Weld®

The BXT combination tool applies polyester strapping, utilizing friction weld joint technology to join the strap ends. The battery-operated BXT has a simple two-button process and ergonomic design to reduce operator fatigue.



BXT-16, BXT-19



Rechargeable battery pack

Model	Part Number	Strap Type Tenax	Joint Type	Applied Tension	Description	Shipping Weight	
						lbs	kg
BXT-16	425700	1816, 1818, 1822 (with Guide change); 816, 818, 2030, 2040, 2040H	Tension- Weld	Up to 400 lbs.	Battery	9	4.1
BXT-19	426480	2040, 2040H, 2220, 2225		Up to 750 lbs.		9.3	4.2

Dispensers

For plastic strapping



DD-1A
Floor model with straproller. Can be suspended overhead.



DF-15
For typical shipping room. Easily loaded.



DF-16A
Designed for use with high-strength polyester strapping.



DF-1-12D
For power equipment. Dancer arm and brake. Base sold separately (Part No. 024360).



DO-3D
Can be suspended from a wall or ceiling.



DFC-2
For typical shipping room. Easily loaded.

Strap Dispenser Model	Part Number	Strap Size		Straproller	Portable	Tool tray	Dimensions						Dispenser Weight	
		inch	mm				Height		Width		Length		lbs	kg
							inch	mm	inch	mm	inch	mm		
DD-1A	024520	7/16-1/2	10.5-12	•	•	•	41	1 041	12	305	25	635	48	22
DF-15*	273725	3/8-3/4	9-19.0	•	•	•	37-3/4	959	16	406	25	635	62	28
DF-16A	422300	5/8-3/4	15.5-19.0		•	•	38	965	18	457	28-1/2	724	62	28
DF-1-12D	031318	3/8-3/4	9-19.0				36-3/4	933	12-1/2	315	47-1/4	1200	97	44
DO-3D	024500	3/8-3/4	9-19.0	•			31	787	6-3/4	171	27-3/4	705	41	19
DFC-2	004670	1/4-3/8	9-15.9		•		24	610	17-3/4	450	12-1/4	311	24	11

* Dispenser can be used with both steel and plastic strapping.

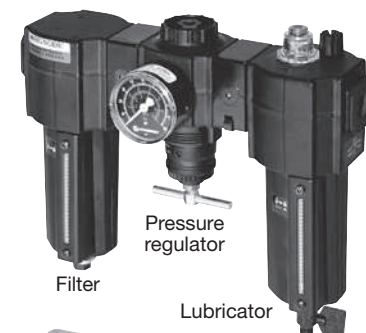
Pneumatic tool accessories

All new Signode pneumatic tools are supplied with a quick-disconnect plug. A filter and regulator are needed with all Signode pneumatic sealers. A filter-regulator-lubricator is needed with pneumatic tensioners and combination tools. These additional fittings and air hoses are available from Signode to help provide optimum operation.

Recommended air hose for pneumatic tools: 10' x 1/2" (3.0m x 12mm) i.d. (Part No. 424774)

Note: Use light hydraulic oil in lubricator, such as Non-Fluid Oil No. LS-1236 (Part No. 008556) or equivalent.

Filter-Regulator-Lubricator assembly (Part No. 424773)



Filter

Pressure regulator

Lubricator



Regulator mounting bracket (Part No. 071982)



Quick-disconnect socket 3/8" (9.5mm) i.d. (Part No. 008569). Lubricator fitting for hose connection.



Quick-disconnect socket 1/4" (6.4mm) i.d. (Part No. 020706). Hose fitting for tool connection.



Quick-disconnect plug 1/4" (6.4mm) i.d. (Part No. 008568). Hose fitting for lubricator connection.



Quick-disconnect plug 1/4" (6.4mm) i.d. (Part No. 020704). Tool fitting for hose connection.



Y-fitting (Part No. 008574) for operating two tools simultaneously.

Power Equipment

For plastic strapping

TableTyer™

Strapping System



The low-cost TableTyer™ is the ideal plastic strapping system for low to moderate volume shippers. Its simple tabletop design makes it equally efficient for strapping cartons, bundles or coiled products. Strap tension and length are fully adjustable. Also available in a non-corrosive model.

- Low cost
- Portable
- Applies economical plastic strapping
- Ready to operate in seconds

Specifications

Maximum package weight: 125 lbs.
Strap tension: Adjustable up to 100 lbs.
Strapping: 6mm (1/4"), 9mm (3/8"), 12mm (1/2") Empax polypropylene strapping.
Machine dimensions: 33-1/2" L x 22" W x 30-3/4" H (adjustable up to 37-1/2" H). (851mm L x 559mm W x 781mm H, adj. up to 953mm).
Electrical: 120 VAC, 1 phase, 60Hz.
Shipping weight: 168 lbs.

LBX-2000

Semiautomatic Strapping System



The high speed LBX-2000 plastic strapping machine combines jam-resistant technology and lubrication-free operation to maximize strapping operations. Ideal for high-volume applications with varying package or bundle types and sizes. Made in the U.S.A.

- Jam-resistant technology
- Lubrication-free operation
- Variable tension
- Fully accessible strap path
- Easy coil loading
- No adjustments necessary

Specifications

Chute size (maximum package size): 20" W x 15" H (510mm x 380mm).
 28" W x 15" H (710mm x 380mm).
Minimum package size: 2"W x 1"H (50mm x 25mm).
Production rate: Up to 70 straps per minute.
Strap tension: Adjustable from 2 lbs. to 60 lbs.
Strapping: Signode Contrax polypropylene strapping 5mm, 6mm.
Tabletop height: 34" (865mm).
Machine dimensions: 31" W x 21" L x 57" H (790mm W x 530mm L x 1450mm H).
Electrical: 110 VAC, 60Hz.
Shipping weight: 540 lbs.

LBX-2300/2330

Automatic and Semiautomatic Strapping Systems



The LBX-2300 Series plastic strapping machines provide the highest available speed, most reliable performance and lowest maintenance operation of any general-duty strapping machine on the market today. With timesaving features and 40% fewer parts, the LBX-2300 Series simplify operation and maintenance to save you time and money.

- Jam-resistant technology
- Automatic loading
- Automatic cut-off and refeed option*
- Fully accessible strap path
- Lubrication-free operation
- Easy coil loading

Models: LBX-2300 semiautomatic
 LBX-2330 automatic

*Available on 3 phase models only.

Specifications

Chute inner dimensions:

	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
W	16*	405	20	510	28	710	33	840	48	1220
H	10*	255	15	380	20	510	30	760	20	510

Production rate: Up to 70 straps per minute.
Strap tension: Adjustable from 2 lbs. to 60 lbs.
Strapping: Signode Contrax polypropylene strapping 5mm, 6mm.
Tabletop height: Adjustable from 26" to 40" (660mm to 1016mm).
Electrical: 115 VAC, 60Hz (semiautomatic only); 208, 230, 460 volt, 60Hz.
Shipping weight: 600 lbs.

*Available on semiautomatic models only.

HBX-4300/4330

Automatic and Semiautomatic Strapping Systems



Models: HBX-4300 semiautomatic
HBX-4330 automatic

Finishes: Painted
Stainless steel

The HBX-4300 Series plastic strapping machines provide reliable, high speed performance for heavy-duty applications, such as meat packaging, distribution and bundles of hardwood flooring. With timesaving features and 40% fewer parts, the HBX Series strapping machines simplify operation and maintenance. A corrosion resistant model is available for packaging operations where condensation is a problem. Made in the U.S.A.

- Jam-resistant technology
- Automatic loading
- Automatic cut-off and refeed option
- Fully accessible strap path
- Lubrication-free operation

Production rate: Up to 70 straps per minute in a 17" W x 20" H chute. Actual rate will vary depending on package size, chute size and operator dexterity.

Specifications

Small frame – chute inner dimensions:

	Small chutes			Medium chute		Large chute		
	inch	mm	inch	mm	inch	mm		
W	16*	406	17	430	28	710	33	840
H	10*	254	20	510	20	510	30	760

Large frame – chute inner dimensions:

	Small chute		Medium chute		Large chute	
	inch	mm	inch	mm	inch	mm
W	48	1219	48	1219	65	1651
H	24	610	48	1219	20	508

Minimum package size: 4" W x 4" H non-compressible package on flat tabletop.

Maximum package weight: 100 lbs. on machine or conveyor. May increase depending on weight distribution.

Strapping: Signode 9mm and 12 mm Contrax polypropylene strapping.

Electrical: 120 VAC, 60Hz (semiautomatic only); 230 volt, 3 phase, 60Hz; 460 volt, 3 phase, 60Hz.

Shipping weight: Small frame: 600-700 lbs.
Large frame: 900-950 lbs.

* Available on semiautomatic model only.

HB-4310

Side Seal Strapping System



Finishes: Painted
Stainless steel

The HB-4310 side seal plastic strapping machine combines HB technology with a side-mounted head for consistent, reliable, low maintenance, side seal strapping operation. A corrosion-resistant model (24" x 24" chute only) is available for packaging operations where condensation is a problem. (Not for wash down applications.) Made in the U.S.A.

- Jam-resistant technology
- Automatic loading
- Automatic cut-off and refeed option
- Fully accessible strapping head and strap path
- Lubrication-free operation
- High tension

Specifications

Chute inner dimensions:

	Small chute		Medium chute		Large chutes			
	inch	mm	inch	mm	inch	mm	inch	mm
W	24	610	36	914	48	1219	60	1524
H	24	610	36	914	60	1524	60	1524

Maximum package weight: 25 lbs. per roller on the 24" x 24" model only.

Production rate: Up to 52 straps per minute in a 36" x 36" chute with a 34" x 34" package. Actual production will vary depending on package size, chute size and operator dexterity.

Strapping: Signode 9mm or 10.5mm polypropylene strapping.

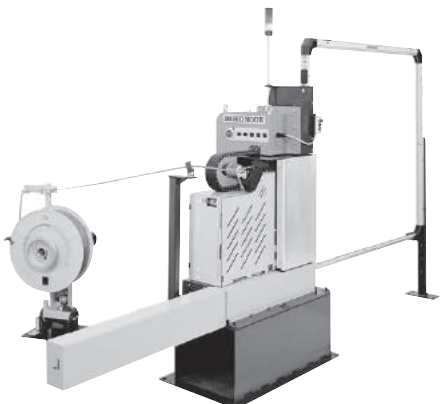
Strap tension: Adjustable up to 250 lbs.

Electrical: Standard: 120 volt, 60 Hz.
Optional: 208 volt, 3 phase, 60 Hz, 6.4 amps; 230 volt, 3 phase, 60 Hz, 5.9 amps; 460 volt, 3 phase, 60 Hz, 3.1 amps; 575 volt, 3 phase, 60 Hz, 2.6 amps

Shipping weight: 700-950 lbs.

MD-V

Semiautomatic Side Seal Strapping System



The MD-V side seal plastic strapping machine applies consistent, high strap tension to palletized loads in a wide range of sizes. The MD-V can be used with 9mm, 10.5mm, 12mm or 15.6mm polypropylene or polyester strapping to accommodate a variety of load types, including cartons, palletized products, appliances, bulk bins, bales and bundled items.

- Easy access strapping head rotates 90° for convenient maintenance
- Optional spare sealing module provides uninterrupted operation when service is required
- Automatic refeed
- Spring-loaded strap dispenser lays down for easy loading

- Low maintenance. Few wearing parts to replace
- High tension

Specifications

Chute size: Contact your Signode Sales representative for chute sizes.

Minimum load height: 20" (including pallet).

Feed and take-up speed: 5 to 13.5 ft per second

Strapping: Signode 9mm, 10.5mm, 12mm or 15.6mm polypropylene or polyester strapping.

Strap tension: Adjustable from 22.5 lbs. to 550 lbs.

Electrical: 440 volt, 3 phase, 60 Hz; 460 volt, 3 phase, 60 Hz; 480 volt, 3 phase, 60 Hz

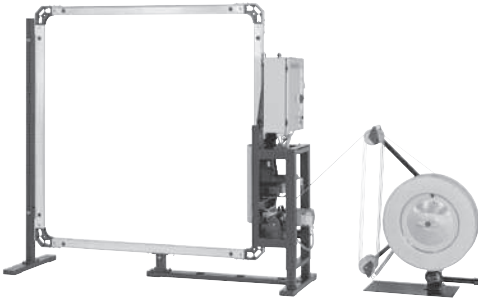
Shipping weight: 920 lbs.

Power Equipment

For plastic strapping

MOD-710

Side Seal Strapping System



The MOD-710 side seal plastic strapping machine combines quick-change technology with high speed reliable operation to maximize productivity. Simple to operate and easy to maintain, the MOD-710 features a modular head with separate tensioning and sealing modules that are easy to access and can be changed out quickly for routine maintenance. The MOD-710 is available in 69 standard chute sizes and uses Contrax polypropylene or Tenax polyester strapping. Made in the U.S.A.

- Side seal joint
- Few wearable parts to replace
- Quick-change technology
- Smart-weld technology

Specifications

Chute size (maximum package size): Available in chute sizes to accommodate any combination of the following widths and heights:

Maximum Width: 18", 24", 30", 36", 48", 60", 72", 84", 96", 108"

Maximum Height: 24", 30", 36", 48", 60", 72", 84", 96", 108"

Production rate: Up to 1150 straps per hour. Actual production will vary depending on package and chute size, operator dexterity and material handling equipment.

Tension: Adjustable from 20 to 200 lbs.

Strapping: Signode Contrax polypropylene or Tenax polyester strapping.

Electrical: 230/460 volts, 3 phase, 60Hz.

Shipping weight: 750 lbs.

LBX-6520

Automatic Strapping System



The LBX-6520 high-speed automatic corrugated bundler withstands intense production schedules with minimal maintenance and operator involvement. Preventative maintenance features and automatic jam clearing ensure maximum uptime and long machine life. Made in the U.S.A.

- Fully accessible strap path
- Automatic loading
- Portable operator controls
- Automatic cut-off and refeed
- Adjustable photo eye
- Built-in cycle counter
- Variable speed reversible conveyor
- Single compression bar

Specifications

Maximum package size: 65"W x 19.5"H.

Minimum package size: 6"L x 6"W x 1"H.

Production rate: Up to 50 straps per minute. Actual production will vary depending on conveyor speed and package size.

Maximum package weight: 100 lbs. on machine or conveyor. May increase depending on weight distribution.

Tension: Adjustable from 2 lbs. to 60 lbs.

Conveyor height: Adjustable from 27" to 36".

Optional height kits: 36" to 46" or 41" to 55".

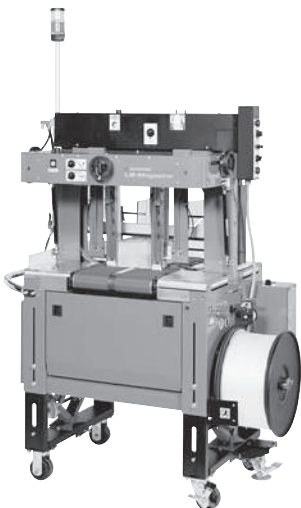
Strapping: 5mm polypropylene strapping.

Electrical: 208, 230, or 460 volts, 3 phase, 60Hz; 575 volts, 3 phase, 60Hz optional.

Shipping weight: Approximately 1,100 lbs.

LB-Magazine™

Automatic Magazine Bundling System



Loaded with productivity enhancing features, the LB-Magazine™ minimizes downtime, simplifies maintenance and virtually eliminates make-ready time between magazine runs. The hinged bundle handling device can be pivoted up to 90°, providing complete access to the tabletop and strapping head for maintenance. Made in the U.S.A.

- Easily accessible tabletop
- Fully accessible strap path
- Adjustment-free strapping head
- Quick make-ready time
- Patented automatic cut-off and refeed option
- Patented, jam-resistant technology

Specifications

Bundle size:

	Min.	Max.
Width	5"	18"
Length	7"	19"
Height	Up to 14-1/2"	

Production rate: Up to 42 straps per minute.

Conveyor speed: 50 to 150 ft per minute.

Strapping: 5mm or 6mm polypropylene strapping.

Compression: Up to 120 lbs. at 90 psi.

Electrical: 230 volts, 60Hz; 460 volts, 60Hz.

Shipping weight: 950 lbs.

Hand Grade Films

Enduralock™

Enduralock™ is specially formulated to stretch less than conventional hand application films for superior integrity on loads that shift during transit. This two-sided cling film is exceptionally tough and resilient and has minimal width reduction, providing superior load holding power at an economical price.

GaleWrap™

A patented oriented hand wrap film that performs like machine applied, power prestretched films, GaleWrap™ provides far greater load integrity than conventional hand application films that continue to stretch as loads shift during transit. Patented hemmed edges provide excellent film strength and tear resistance.

Machine Grade Films

Silent Tough One-Sided

This three-layer, one-sided cling blown film combines the strength properties of blown film with the silent unwind and clarity of cast film for superior performance.

Cast Film

Signode five-layer cast films provide excellent clarity and quiet delivery. Formulated with a state-of-the-art resin mixture, this "true" one-sided cling film eliminates loads sticking together in transit, while providing excellent strength at prestretch levels up to 300%. The high clarity of cast film makes it an excellent choice for applications using bar code scanning equipment.

Specialty films

Ultraviolet film

Signode ultraviolet-resistant one-sided cling blown films are specially formulated to resist damage from ultraviolet light and proven to last up to one year in the Florida sun. In contrast, non-UVI films deteriorate outdoors in about four months. STO UVI film is formulated for quiet unwind.

Hand Grade Films

Film Name	Gauge		Roll Length		Roll Width		
	microns	mil	meters	feet	mm	inch	
Enduralock™							
Enduralock 12	12	0.47	450	1,476	445	11.5	
Enduralock 15	15	0.59	450	1,476	370, 445	14.5, 17.5	
Enduralock 18	18	0.71	450	1,476	445	17.5	
GaleWrap™							
GaleWrap 12	12	0.47	457, 610	1,500, 2,000	305	12	
GaleWrap 15	15	0.59	457, 610	1,500, 2,000	381	15	
GaleWrap 18	18	0.71	457, 610	1,500, 2,000	451	18	

Machine Grade Films

Film Name	Gauge		Roll Length		Roll Width		Suggested Prestretch
	microns	mil	meters	feet	mm	inch	
Silent Tough One-sided cling blown film							
STO-18	18	0.71	1 981	6,500	508, 762	20, 30	250%
STO-20	20	0.79	1 829	6,000	508, 762	20, 30	250%
STO-27	27	1.06	1 372	4,500	508, 762	20, 30	300%
Cast Film Differential cling							
CFD-60	15.3	0.60	2 438	8,000	762	30	250%
CFD-70	17.8	0.70	1 829	6,000	508, 762	20, 30	250%
CFD-80	20.3	0.80	1 829	6,000	508, 762	20, 30	250%
CFD-115	29.2	1.15	1 219	4,000	508	20	300%

Specialty Films

Film Name	Gauge		Roll Length		Roll Width		Suggested Prestretch
	microns	mil	meters	feet	mm	inch	
Ringmaster™ Film							
RCA-75	19.1	0.75	1 829	6,000	305	12	250%
RSO-115	29.2	1.15	1 189	3,900	305	12	300%
Silent Tough Ultraviolet							
One-sided cling blown film							
STO-UV-20	20	0.79	1 829	6,000	508	20	250%
STO-UV-27	27	1.06	1 372	4,500	508, 762	20, 30	300%
One-sided cast film							
CVD-115	29.2	1.15	1 067	3,500	508, 762	20, 30	250%

Stretch Wrapping Systems

Raptor™ Semiautomatic Turntable Systems

Raptor 500 Low Profile Turntable



- Automatic load height sensing
- Variable-speed film carriage with banding mode for load reinforcement
- Adjustable force-to-load film tension
- Top and bottom wrap counters
- Variable-speed turntable up to 12 RPM
- Soft start and stop turntable acceleration
- Forklift portable from front or rear

The Raptor 500 wraps up to 35 loads per hour, making it an economical solution for low-volume applications. Its low cost, efficient operation and wide selection of optional equipment, make the 500 one of our most popular and practical stretch wrapping machines.

Specifications

Raptor 500

Turntable rotation speed	Adjustable up to 12 RPM
Loads per hour	Up to 35
Maximum wrap height	85"

Load Capabilities

Maximum load size	60" L x 60" W x 85" H
Maximum load diagonal	84"
Maximum load weight	4,000 lbs.

Film Delivery System

Film carriage	SG3000 Octo-Thread™
Film elongation	Fixed 250%; higher or lower rates are available
Maximum roll width	20"
Core size	3" nominal

Electrical

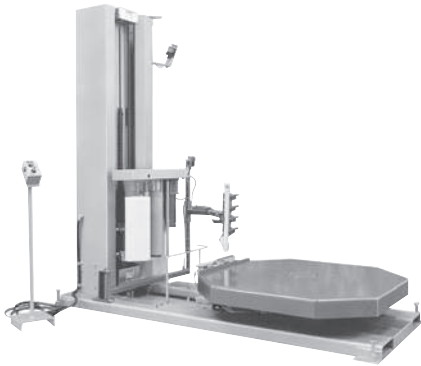
Power requirements	120 VAC, 1 phase, 60 Hz, 15 amps
Controller type	Allen-Bradley MicroLogix 1000 PLC, PanelView 300 Micro operator interface
Height sensor photo eye	Diffuse
Film elevator motor	1/2 hp DC
Powered prestretch motor	1/2 hp DC

Mechanical

Turntable drive	#50 chain drive
Turntable support	Multiple point suspension
Film elevator transport	#50 ANSI chain
Shipping weight	1,786 lbs.

Raptor™ Automatic Turntable Systems

Raptor 1500P High Profile Turntable



- Adjustable force-to-load film tension
- Automatic load positioning and load height sensing
- Automatic rewrap
- Adjustable top and bottom wraps, film over-wrap and overlap
- Film break alarm
- Soft start and stop turntable acceleration
- Automatic film cut and heat seal

The Raptor 1500P is designed for efficient, economical pallet wrapping in low to medium volume applications. The rugged turntable and pinion gear drive system provides long-term dependability. The 1500P automatically wraps up to 45 loads per hour.

Raptor 1500CN ConveyORIZED Turntable



The 1500CN employs a rugged ring gear bearing with precision ground pinion gear drive system to provide years of maintenance-free operation and accurate starts and stops with no slippage. The 1500CN wraps up to 45 loads per hour. Even light, fragile loads can be wrapped at high speeds when the machine is equipped with the top platen option. Model 1500CR is the same as above without the standard infeed and exit conveyors.

Specifications	Raptor 1500P
Turntable rotation speed	16 RPM
Loads per hour	Up to 45
Minimum wrap height	28" (film carriage wraps to within 2" above turntable surface)
Maximum wrap height	80" (extended load heights optional)

Load Capabilities	
Maximum load size	54" L x 50" W x 80" H
Maximum load diagonal	72"
Maximum load weight	4,000 lbs.

Film Delivery System	
Film carriage	SG3000 Octo-Thread™
Film elongation	Fixed 250%; higher or lower rates are available
Maximum roll width	20"
Core size	3" nominal

Electrical	
Power requirements	240 VAC, 1 phase, 60 Hz, 20 amps
Controller type	Allen-Bradley MicroLogix 1200 PLC
Height sensor photo eye	Diffuse
Film elevator motor	1/2 hp, 90 VDC
Powered prestretch motor	1/2 hp, 90 VDC

Mechanical	
Turntable drive	Ring and pinion drive
Turntable support	20" precision ring bearing
Film elevator transport	#40 ANSI chain
Pneumatic requirements	80 psi @ 3 cfm
Shipping weight	2,500 lbs.

Specifications	Raptor 1500CN
Turntable rotation speed	16 RPM
Loads per hour	Up to 45
Minimum wrap height	28" (film carriage wraps to within 1-1/2" above turntable surface)
Maximum wrap height	80" (extended load heights optional)

Load Capabilities	
Maximum load size	54" L x 50" W x 80" H
Maximum load diagonal	72"
Maximum load weight	4,000 lbs. standard

Film Delivery System	
Film carriage	SG3000 Octo-Thread™
Film elongation	Fixed 250%; higher or lower rates are available
Maximum roll width	20"
Core size	3" nominal

Electrical	
Power requirements	240 VAC, 1 phase, 60Hz, 20 amps
Controller type	Allen-Bradley MicroLogix 1200 PLC
Height sensor photo eye	Diffuse
Film elevator motor	1/2 hp, 90 VDC
Powered prestretch motor	1/2 hp, 90 VDC

Mechanical	
Turntable drive	Ring and pinion drive
Turntable support	20" precision ring bearing
Film elevator transport	Dual #40 ANSI chains
Pneumatic requirements	80 psi @ 3 cfm
Shipping weight	5,675 lbs. (1500CN) 2,400 lbs. (1500CR)

Stretch Wrapping Systems

Cobra Semiautomatic Overhead Systems

Cobra 500 (column)

Cobra 500 (gantry)



- User-friendly control panel can be preprogrammed with multiple wrap patterns
- Consistent force-to-load film tension regardless of load position, size and shape
- Prestretches film 250%



The Cobra 500 is designed for loads that, because of their instability, weight or shape, must remain stationary during the wrapping cycle. The positive, non-slip dual “V” belt drive ensures

consistent rotation speed, easy maintenance and accurate home positioning. The Cobra 500 wraps up to 35 loads per hour.

Specifications		Cobra 500
Arm rotation speed		12 RPM
Loads per hour		Up to 35
Maximum wrap height		92"
Load Capabilities		
Minimum load size		24" L x 24" W x 12" H
Maximum load size		50" L x 50" W x 92" H
Maximum load diagonal		70" (extended load diagonals optional on gantry model)
Maximum load weight		Floor weight capacity
Film Delivery System		
Film carriage		SG3000 Octo-Thread™
Film elongation		Fixed 250%; higher or lower rates are available
Maximum roll width		20" nominal
Core size		3" nominal
Electrical		
Power requirements		120 VAC, 60 Hz, 15 amps
Controller type		Allen Bradley MicroLogix 1000 PLC with Allen Bradley 300 Micro operator interface
Obstacle sensor photo eye		Reflective
Height sensor photo eye		Diffuse
Rotating arm motor		1/2 hp, 90 VDC
Film elevator motor		1/2 hp, 90 VDC
Powered prestretch motor		1/2 hp, 90 VDC
Mechanical		
Main drive type		Dual V-belt drive system
Film elevator transport		Flat belt lifting system
Shipping weight	1,400 lbs. (column)	1,810 lbs. (gantry)

Cobra Automatic Overhead Systems

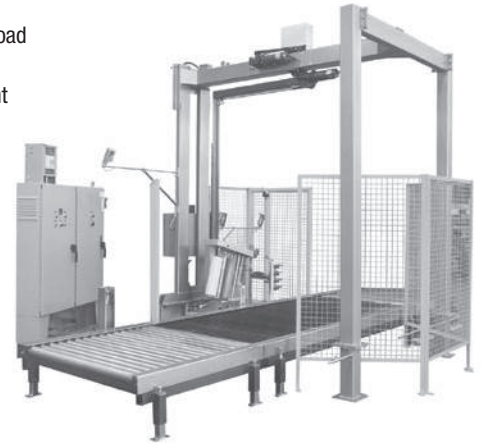
Cobra 1500A



- User-friendly control panel can be preprogrammed with multiple wrap patterns
- Consistent force-to-load film tension regardless of load position, size and shape
- Prestretches film 250% standard
- Automatic film cut and heat seal

The Cobra 1500A automatic overhead stretch wrapping machine combines the speed of an automatic system with the cost of a semiautomatic machine. The positive, non-slip dual “V” belt drive ensures consistent rotation speed, easy maintenance and accurate home positioning. The 1500A wraps up to 30 loads per hour.

Cobra 1500CN



- Prestretches film 250% standard
- Adjustable force-to-load film tension
- Automatic load height sensing
- Top and bottom digital wrap counters
- Automatic film cut and heat seal
- Minimal maintenance and service

The Cobra 1500CN is the most versatile of our automatic overhead stretch wrapping machines, offering a full range of load size and machine control options. It can be integrated into an existing production line or used as a stand-alone, off-line unit. Optional conveyors are available. The 1500 wraps up to 35 loads per hour. Model 1500CR is the same as above without the standard infeed, process and exit conveyors.

Specifications	Cobra 1500A	Cobra 1500CN
Arm rotation speed	12 RPM	12 RPM standard (18 RPM optional)
Loads per hour	Up to 30	Up to 35 (high speed package optional)
Minimum wrap height	28"	28" (film carriage wraps to within 2-1/2" above the conveyor)
Maximum wrap height	92" (extended wrap height optional)	
Load Capabilities		
Minimum load size	24" L x 24" W x 28" H	36" L x 36" W x 28" H
Maximum load size	50" L x 50" W x 92" H	
Maximum load diagonal	70" (extended load diagonals optional)	
Maximum load weight	Floor limit	4,800 lbs. (Model 1500CN with optional conveyors)
Film Delivery System		
Film carriage	SG3000 Octo-Thread™	
Film elongation	Fixed 250% (higher or lower rates are available)	
Maximum roll width	20"	
Core size	3" nominal	
Electrical		
Power requirements	240 VAC, 1 phase, 60Hz, 20 amps	240 VAC, 1 phase, 60 Hz, 20 amps
Controller type	Allen-Bradley MicroLogix 1000 PLC, PanelView 300 Micro operator interface	Allen-Bradley MicroLogix 1200 PLC, PanelView 300 Micro operator interface
Obstacle sensor photo eye	Reflective	Reflective
Height sensor photo eye	Allen-Bradley Series 9000	Allen-Bradley Series 9000
Rotating arm motor	1/2 hp, 90 VDC	1/2 hp, 90 VAC
Film elevator motor	1/2 hp, 90 VDC	1/2 hp, 240 VAC
Powered prestretch motor	1/2 hp DC	1/2 hp DC
Mechanical		
Main drive type	Dual V-belt drive system (ring gear optional)	
Film elevator transport	Flat Drive with V-groove wheel guidance system	
Pneumatic requirements	80 psi @ 3 cfm	80 psi @ 3 cfm
Shipping weight	2,400 lbs.	7,165 lbs.

Stretch Wrapping Systems

Octopus™ Automatic Rotary Ring Systems

Octopus 202 Rotary Ring

- Bottom-to-top wrap cycle
- Automatic film cut and heat seal
- Top and bottom wrap counters
- Easily adjustable force-to-load film tension
- Film break alarm



The compact Octopus™ 202 fits easily into tight spaces and can be mounted over an existing conveyor or equipped with its own conveyors. The patented rotary wrapping ring can be programmed to start and stop film application at any height on the load without returning to the starting point. This reduces film costs by up to 30% and generates a virtually unlimited selection of wrapping patterns. The Octopus 202 wraps up to 50 loads per hour.

Octopus 404, 505, 606, 808 Rotary Ring

- Bottom-to-top wrap cycle
- Automatic film cut and heat seal
- Top and bottom wrap counters
- Easily adjustable force-to-load film tension
- Film break alarm



The ultimate in high speed pallet wrapping, the Octopus 404, 505, 606 and 808 have earned a reputation for high efficiency and reliability. The 808, which wraps up to 120 loads per hour, outperforms competitive machines by a wide margin. All models feature the patented rotary wrapping ring which can be programmed to start and stop film application at any height on the load. These machines can be equipped with a variety of options, including conveyors, a vertical top platen, a top-sheet dispenser, corner post applicators, and extended load diagonals.

Specifications	202	404	505	606	808
Loads per hour*	Up to 50	Up to 60	Up to 80	Up to 100	Up to 120
Ring speed	16 RPM	21 RPM	30 RPM	40 RPM	50 RPM
Minimum wrap height	28"			28"	
Maximum wrap height**	80"			80"	
Load Capabilities					
Minimum load size	36" L x 36" W x 28" H			36" L x 36" W x 28" H	
Maximum load size	50" L x 48" W x 80" H		50" L x 48" W x 80" H (404, 505, 606)		50" L x 48" W x 80" H (808)
Maximum load diagonal	69"			69"†	
Film Delivery System					
Powered prestretch	Octo-Thread™ film carriage			Octo-Thread™ film carriage	
Maximum roll width	20"			20"	
Standard prestretch level ††	200%			200%	
Core size	3" nominal			3" nominal	
Electrical					
Power requirements †††	460 VAC, 3 phase, 20 amps	460 VAC, 3 phase, 20 amps (404)		460 VAC, 3 phase, 30 amps (505, 606, 808)	
Controller voltage	120 VAC			120 VAC	
Controller type	Allen-Bradley MicroLogix 1500 PLC	Allen-Bradley MicroLogix 1500 PLC, PanelView 300 operator interface	Allen-Bradley SLC 5/01, PanelView 300 operator interface	Allen-Bradley SLC 5/01, PanelView 300 operator interface	Allen-Bradley SLC 5/01, PanelView 600 operator interface
Ring drive motor	1 hp	1 hp	1.5 hp	2 hp	3 hp
Ring elevator motor	1 hp	2 hp	3 hp	3 hp	5 hp
Powered prestretch motor	1 hp	1 hp	1 hp	1 hp	1 hp
Mechanical					
Ring drive type	Friction drive wheel			Belt drive	
Ring support	(4) #60 ANSI chain			(4) #60 ANSI chain	
Floor to conveyor pass height	18"			18"	
Pneumatic requirements	80 psi @ 3 cfm			80 psi @ 3 cfm	
Shipping weight	3,500 lbs.	4,000 lbs.	4,500 lbs.	4,500 lbs.	4,500 lbs.

* Depending on load size, conveyor speed and wrap pattern.

** Extended load heights are available

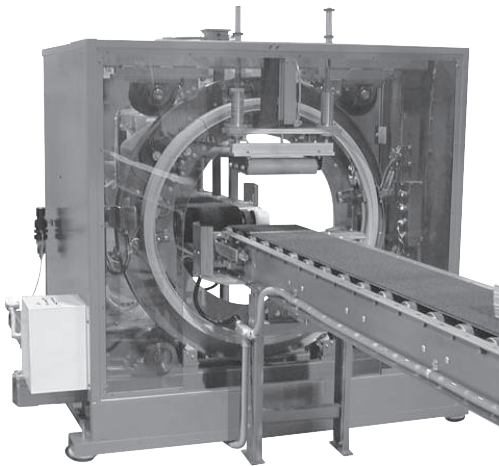
† Extended load diagonals are available with optional oversize steel rings (505, 606, 808 models only).

†† The Octo-Thread film carriage is available with fixed prestretch rates from 75% to 300%.

††† Actual amperage may vary depending on the application.

Ringmaster™ Semiautomatic and Automatic Horizontal Systems

Ringmaster



- Multiple wrap configurations, including full length wrapping, head and tail banding and continuous wrapping with hot wire cutting between products
- Automatic and semiautomatic control packages available
- In-feed and out-feed conveyor options available
- Powered prestretch optional

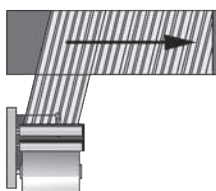
The Ringmaster™ horizontal stretch wrapping system is ideal for unitizing pipe, tubing, textile rolls, carpeting, lumber, molding, doors, siding and more. By fully encapsulating products in a web of film, the Ringmaster provides protection from scratches, dirt, dust and moisture. Semiautomatic and automatic models are available.

Specifications	1200	2400	3600	4800	6000	7000	8000	9000
Ring size	12"	24"	36"	48"	60"	70"	80"	90"
Ring speed*	5-70 RPM	5-60 RPM	5-50 RPM	5-40 RPM	5-30 RPM	5-30 RPM	5-30 RPM	5-30 RPM
Load Capabilities								
Round capacity (diameter)	2"-10"	4"-22"	8"-35"	12"-48"	18"-50"	24"-60"	36"-70"	40"-80"
Minimum rectangular capacity	2"W x 3"H	4"W x 5"H	8"W x 6"H	12"W x 12"H	18"W x 10"H	24"W x 12"H	30"W x 24"H	40"W x 30"H
Maximum rectangular capacity	10"W, 12" diag.	22"W, 25" diag.	30"W, 35" diag.	40"W, 42" diag.	50"W, 60" diag.	60"W, 70" diag.	70"W, 80" diag.	80"W, 90" diag.
Minimum length	36" (12" film width); 48" (20" film width)							
Maximum length	Unlimited							
Film Delivery System								
Film carriage	Core brake standard; powered prestretch optional							
Film roll width	12" or 20"							
Maximum film roll diameter	10"							
Electrical								
Power requirements**	120 VAC, 1 phase, 50/60 Hz, 10 to 20 amps (Models 1200 to 4800)				240 VAC, 1 phase, 50/60 Hz, 10 to 20 amps (Models 6000 to 9000)			
Controller voltage	120 VAC							
Controller type	Allen-Bradley SLC 500							
Air requirements	80 psi in applications with top platens and/or auto cut/clamp							
Mechanical								
Machine dimensions	42"L x 60"W x 60"H	30"L x 60"W x 60"H	40"L x 81"W x 71"H	42"L x 95"W x 82"H	60"L x 96"W x 95"H	60"L x 106"W x 105" H	60"L x 115"W x 115"H	60"L x 126"W x 125"H
Construction	Structural steel tubing							
Leveling	Adjustable four (4) point legs							
Finish	Industrial enamel							
Shipping weight	615 lbs.	715 lbs.	790 lbs.	1,150 lbs.	1,575 lbs.	1,740 lbs.	1,960 lbs.	2,150 lbs.

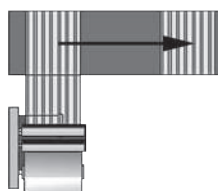
* Bundling and wrapping rates will vary with film width, product size and wrap pattern.

** Adding multiple options/conveyors may change the voltage requirements.

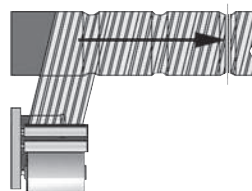
Configurations



Full length spiral wrap



Head and tail banding wrap



Continuous wrap with hot wire cut
(option available on the automatic models only)

Carton-Sealing Tape

Signode manufactures a full line of pressure sensitive carton-sealing tapes to fulfill the requirements of a wide range of manual and machine applications. These tapes feature biaxially-oriented polypropylene backing for excellent bi-directional strength and are available with either a rubber-based or acrylic blend adhesive. Each of these adhesives possesses performance characteristics which make it ideal in certain operating conditions.

Acrylic adhesive combines cold performance, good quick-stick, and resistance to aging, weathering and U/V light.

Rubber-based adhesive offers high shear strength, excellent peel adhesion to kraft fiberboard and good quick-stick.

The 100 and 200 Series light-duty carton-sealing tapes are ideal for single-strip closure of regular slotted containers. For medium-duty applications, the 400 and 600 Series carton-sealing tapes are an excellent choice. The 800, 1000 and 1200 Series tapes are designed for the heaviest-duty applications, including tabbing, hinging and splicing.

Tape *	Backing Material	Grade	Standard Roll Length	Standard Roll Width **	Color	Adhesive Type	Total Thickness	Tensile Strength	Peel Adhesion ***	Elongation at Break	Temperature Range
			Yards (m)	Inches (mm)			Mils	Lbs./in. width	Ozs./in. width	%	F°
100 Series	B.O.P.P.†	Manually applied	110 (101)	2, 3 (48, 72)	Clear	Acrylic	1.60	28	19	90-100	Application +35° to +140°
		Machine applied	1000 (914) 1500 (1372) 2000 (1829)	2, 3 (48, 72) 2 (48) 2, 3 (48, 72)							Storage -40° to +150°
200 Series	B.O.P.P.	Manually applied	55 (50) 110 (101) 220 (201)	2 (48) 2, 3 (48, 72) 2 (48)	Clear	Rubber	1.60	24	28	90-100	Application +45° to +120°
		Machine applied	1000 (914) 1500 (1372) 2000 (1829)	2, 3 (48, 72) 2 (48) 2, 3 (48, 72)							Storage -20° to +140°
2XL Series	B.O.P.P.	Manually applied	220 (201)	2 (48)	Clear	Rubber	1.60	24	28	90-100	Application +45° to +120° Storage -20° to +140°
		Manually applied	220 (201)	2 (48)	Clear	Acrylic	1.65	24	17	90-100	Application +35° to +140° Storage -40° to +150°
400 Series	B.O.P.P.	Manually applied	110 (101) 220 (201)	2, 3 (48, 72) 2 (48)	Clear	Acrylic	1.90	38	23	90-100	Application +35° to +140°
		Machine applied	1000 (914) 1500 (1372) 2000 (1829)	2, 3 (48, 72) 2 (48) 2, 3 (48, 72)							Storage -40° to +150°
600 Series	B.O.P.P.	Manually applied	55 (50) 110 (101)	2 (48) 2, 3 (48, 72)	Clear	Rubber	1.85	28	32	90-100	Application +45° to +120°
		Machine applied	1000 (914) 1500 (1372) 2000 (1829)	1.5, 2, 3 (36, 48, 72) 2 (48) 2 (48)							Storage -20° to +140°
800 Series	B.O.P.P.	Manually applied	60 (55)	2, 3 (48, 72)	Clear	Rubber	2.50	38	46	90-100	Application +45° to +120°
		Machine applied	1000 (914)	2, 3 (48, 72)							Storage -40° to +140°
1000 Series	B.O.P.P.	Manually applied	60 (55)	2, 3 (48, 72)	Clear	Rubber	3.00	35	54	120-150	Application +45° to +120°
		Machine applied	1000 (914)	2, 3 (48, 72)							Storage -40° to +140°
1200 Series (RULE 41)	Polyester	Manually applied	60 (55)	2, 3 (48, 72)	Clear	Rubber	3.20	45	56	120-140	Application +45° to +120°
		Machine applied	1000 (914)	2 (48)							Storage -40° to +140°

* Color and printed tapes are available upon request.

** Additional widths are available for some tape products. Please consult your Signode Sales Representative.

*** Adhesion to steel industry test. Not necessarily indicative of performance of tape on fiberboard.

† Biaxially-oriented polypropylene.

NOTE: Signode tape is manufactured to conform to UPS, Parcel Post, Motor Freight classification Rule 222, Air Freight and FDA requirements for indirect food contact.

CaseLocker™ Heavy-Duty Tape Heads

Little David CaseLocker tape cartridges offer sealing solutions for a wide variety of applications.

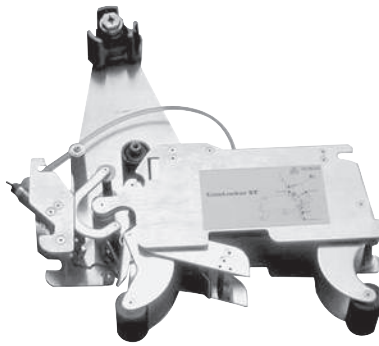
Each tape head can be outfitted with low tape/no tape sensors to minimize downtime, or air cylinders to retract the wipe down arms to bypass totes or pre-sealed cartons that do not require tape sealing.

Features:

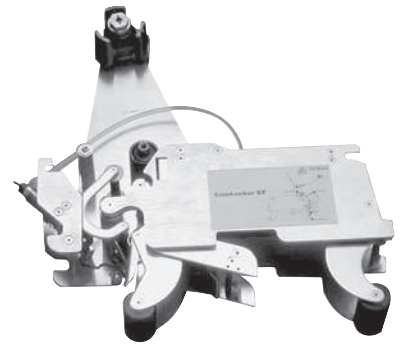
- Tape core has threaded stud design, reducing play and adjustments
- Spring adjustment allows taping of various strength boxes
- Plastic coating on cartridge inhibits oxidation
- Tape applicator tension is controlled by two one-way clutch rollers, reducing tape fold-over and ensuring consistent tension
- Improved bushings keep tape centered and aid in eliminating adhesive build up on the inside of rollers

Also available in:

- Stainless steel
- Front L-Clip
- L-Clip
- Light-Duty
- High-Speed
- No Tape/No Cut
- Folder/Mailer



ST 2 Side Thread (Heavy-Duty)
2" Tape head
CAC50



ST 3 Side Thread (Heavy-Duty)
3" Tape head
CAC51

Tape Packaging Systems

Legend Series

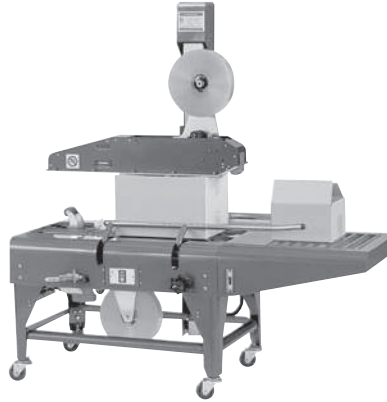
LD-3SB

Semiautomatic Uniform Carton Sealer
Available with 2" or 3" heads



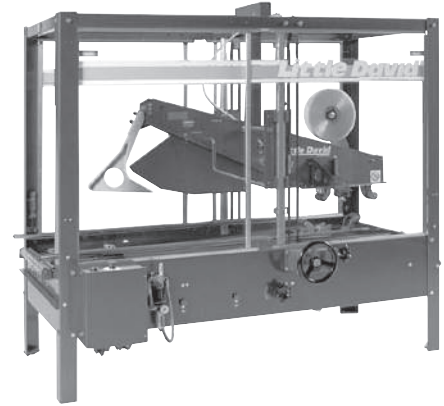
Legend 2 and 3

Semiautomatic Random Carton Sealer
Available with 2" or 3" heads



LD-16SB

Automatic Uniform Carton Sealer
Available with 2" or 3" heads



Package Size

	Length	Width	Height
Minimum	4-1/2"	4"	4-1/2"
Maximum	N/A	20"	24"
Maximum Weight	Up to 40 lbs.		
Tape Roll Diameter	16"		

	Length	Width	Height
Minimum	6"	4-1/2"	4-1/2"
Maximum	N/A	22"	24"
Maximum Weight	Up to 40 lbs.		
Tape Roll Diameter	16"		

	Length	Width	Height
Minimum	8"	4-1/2"	5-1/2"
Maximum	24"	20"	20"
Maximum Weight	Up to 50 lbs.		
Tape Roll Diameter	16"		

Features

- Rugged construction
- Maintenance-free operation
- Lubrication-free tape heads
- Single mast construction
- UL approved
- Available in top and bottom belt design
- Interchangeable tape heads
- Quick, easy changeovers on tape rolls

- Rugged construction
- Maintenance-free operation
- Lubrication-free tape heads
- UL approved
- Interchangeable tape heads
- Quick, easy changeovers on tape rolls
- Can process cartons as low as 2" tall

- Rugged construction
- Maintenance-free operation
- Lubrication-free tape heads
- UL approved
- Interchangeable tape heads
- Quick, easy changeovers on tape rolls
- Available in top and bottom belt design
- Pneumatic rear flap closer adjusts automatically to carton length
- Electronically interlocked safety gates for flap folding and taping areas

Specifications

Drive speed: 72' per minute

Controls: Allen-Bradley

Electrical: Two gear motors; 1/6 hp, 120 volts, 1 phase, 60 Hz

Machine operating height:
Adjustable from 24" to 30"

Machine dimensions:
32"L x 33-1/2"W x 59-1/4"H.

Shipping weight: 230 lbs. (uncrated)

Drive speed: 80' per minute

Controls: Allen-Bradley PLC

Electrical: Two gear motors; 1/6 hp, 120 volts, 1 phase, 60 Hz

Air requirements: 85 psi @ 10 cfm.

Machine operating height:
Adjustable from 24" to 30"

Machine dimensions:
56-3/4"L x 31-15/16"W x 57-3/16"H.

Shipping weight: 275 lbs. (uncrated)

Drive speed: 80' per minute

Controls: Allen-Bradley PLC

Electrical: Two gear motors; 1/6 hp, 110 volts, 1 phase, 60 Hz

Air requirements: 70 psi @ 4 cfm.

Machine operating height:
Adjustable from 24" to 30"

Machine dimensions:
77"L x 37"W x 70"H.

Shipping weight: 650 lbs. (uncrated)



Signode Packaging Systems • 3610 West Lake Avenue • Glenview, IL 60026 • 1-800-323-2464 • www.signode.com