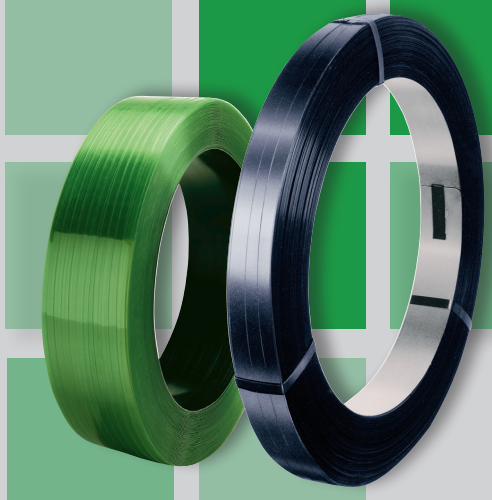
SIGNODE®

Product Catalog



Signode Packaging Systems • 3650 West Lake Avenue • Glenview, IL 60026 • U.S.A.

For additional information on our products and services, please go to **www.signode.com** • **1-800-323-2464**

SIGNODE®

A Packaging Partnership

We are a multinational manufacturer of steel and plastic strapping, along with the application equipment and accessory products for each. Our products are used throughout the world in a broad range of industries to secure every load type, from cotton bales and newspapers to steel coils and corrugated cartons.

Through a firm commitment to research and development, we have earned a reputation for being at the forefront of packaging innovation. We provide our customers with advanced solutions that increase production efficiency, improve load integrity and reduce operating costs. We continuously refine our existing products and create new ones to take advantage of evolving technologies and to meet our customers' ever-changing needs. That responsiveness has made Signode the industry leader in protective packaging systems.

World-Class Quality

We use Statistical Process Control (SPC) methods in our plants that take measurements on our product during (not after) the manufacturing process to achieve and sustain the highest levels of quality assurance. In addition, all of our plastic and steel manufacturing plants are International Organization for Standardization (ISO) certified. That means they meet 18 strict criteria for excellence in the areas of process and quality control as set by the ISO. The ISO includes members from over 90 countries. Achieving certification confirms our long-term commitment to continuous quality improvement.

Protecting People–Ours and Yours

We are committed to providing our employees and yours with a safe, accident-free work environment. To accomplish this goal, we have instituted several comprehensive and innovative customer and employee safety programs. And we are continuously identifying new ways to improve our operating procedures and packaging equipment.

Building Safety Into Our Products

We manufacture our steel strapping with smooth, rolled edges and design power equipment with extensive safety features, including emergency stops, lockout systems, and guarding. To ensure that our customers know how to safely and correctly operate our equipment, we provide operator training and mandatory safety seminars with each installation. We also supply our customers with Signode Safety Kits, which include videos and written instructions on how to properly operate our hand tools and power strapping equipment.

Preserving Our Environment

We believe that businesses, like consumers, must act responsibly to help make the world a safer, cleaner place. That means carefully evaluating how our products are used, manufactured and disposed of; and utilizing those methods and products that preserve our resources, energy, and environment. Several feet of Signode steel or plastic strapping will often replace bulky containers, cartons, bags, stuffing, styrofoam and other packaging and reinforcing materials. We also use fewer packaging materials in our own shipments, recycle the materials we do use, and use recycled materials in many of our products. In addition, we routinely redesign our own packaging to utilize the least amount of packing material.

Go Green with Signode

At Signode, we are committed to preserving and protecting the environment, from energy conservation to managing the waste we generate, as well as that of the customers we serve.

Contents

Steel Strapping

Plastic Strapping

Power Equipment

Steel strap

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.

Mill wound Ribbon wound

Coil sizes

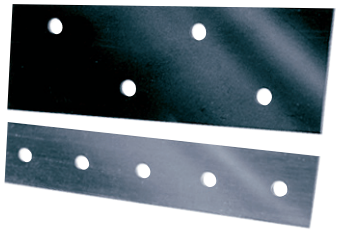
Inside diameter: 16" (406.4mm)

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 0.145" (3.5mm) holes on 3/4" (19.0mm) centers and a strap strength of 1,255 lbs. (5 583 N).

1-1/4" x 0.029" (31.8 x 0.74mm) Magnus with staggered 0.240" (6.1mm) 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.

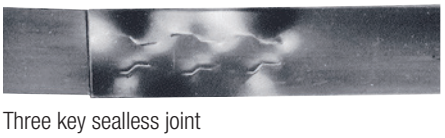
Waxed strapping is required for feedwheel-type tensioners.

Zinc painted and waxed

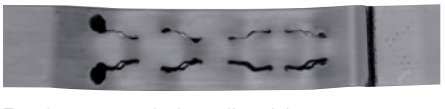
Zinc finish strapping is waxed and has a zinc-enriched coating to provide outstanding resistance to rust. Available in a variety of Apex Plus and Magnus sizes, it has the same improved tension transmission characteristics as the painted and waxed strapping. Zinc finish protects where it is needed most—at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

Steel Strapping

SIGNODE®

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.

Signode offers two basic types of steel strapping: Apex, Apex Plus and Magnus. Each is specially formulated to meet the demands of a particular range of applications.

Apex™ and 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.

The particular type of strapping best suited to a specific application generally depends on three factors:

1) Strapping function or purpose
2) Package characteristics
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.

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. Your sales representative can help you determine your strapping requirements, such as width, thickness, finish, type of steel and tensile strength.

Strap Size				Part	Average Strength*		Yield		Coil Winding	Coil Weight lbs	Strap Finish
Width		Thickness									
inch	mm	inch	mm		lbs	N	ft/lb	m/kg			
Apex strapping											
3/8	9.5	0.015	0.38	085012	730	3 250	54.2	35.2	Mill	105	Curved Edge Painted & Waxed
3/8	9.5	0.020	0.51	085003	900	4 000	39.3	26.4	Mill	105	Painted & Waxed
3/8	9.5	0.020	0.51	085013	900	4 000	39.3	26.4	Mill	105	Curved Edge Painted & Waxed
1/2	12.7	0.020	0.51	085009	1,170	5 200	29.4	19.8	Mill	105	Painted & Waxed
1/2	12.7	0.023	0.58	085200	1,300	5 780	25.6	17.2	Mill	105	Painted & Waxed
5/8	15.9	0.020	0.51	085203	1,460	6 490	23.6	15.9	Mill	105	Painted & Waxed
5/8	15.9	0.023	0.58	085204	1,670	7 430	20.5	13.8	Mill	105	Painted & Waxed
3/4	19.0	0.020	0.51	085206	1,750	7 780	19.6	13.2	Mill	105	Painted & Waxed
3/4	19.0	0.023	0.58	085207	1,950	8 670	17.1	11.5	Mill	105	Painted & Waxed
Apex Plus strapping											
3/8	9.5	0.017	0.43	2X1503	975	4 340	46.1	31.0	Mill	105	Curved Edge Painted & Waxed
1/2	12.7	0.020	0.51	2X1174	1,475	6 560	29.4	19.7	Mill	105	Zinc
3/4	19.0	0.017**	0.43	2X1506	1,900	8 450	23.1	15.5	Mill	105	Painted & Waxed
Magnus strapping											
1/2	12.7	0.020	0.51	085604	1,540	6 850	29.4	19.7	Mill	105	Painted & Waxed
5/8	15.9	0.020**	0.51	085644	1,920	8 540	23.6	15.8	Mill	105	Painted & Waxed
5/8	15.9	0.023	0.58	088432	2,200	9 790	20.5	13.7	Mill	105	Painted & Waxed
3/4	19.0	0.020	0.51	089397	2,300	10 230	19.6	13.1	Mill	105	Painted & Waxed
3/4	19.0	0.023	0.58	089370	2,640	11 740	17.1	11.5	Mill	105	Painted & Waxed
3/4	19.0	0.025**	0.64	085684	2,870	12 770	15.7	10.5	Mill	105	Painted & Waxed
3/4	19.0	0.029	0.74	2X1424	3,350	14 900	13.5	9.1	Mill	105	Painted & Waxed
1-1/4	31.8	0.025	0.64	089367	4,800	21 350	9.4	6.3	Ribbon	110	Painted & Waxed
1-1/4	31.8	0.029	0.74	2X1268	5,600	24 910	8.1	5.5	Ribbon	110	Painted & Waxed
1-1/4	31.8	0.029	0.74	2X1296	5,600	34 910	8.1	5.5	Ribbon	110	Zinc
1-1/4	31.8	0.035	1.12	0X4985	6,660	29 630	6.7	2.0	Ribbon	110	Painted & Waxed
1-1/4	31.8	0.044	1.12	2X1438	8,450	37 590	5.3	3.5	Ribbon	110	Painted & Waxed
2	50.8	0.044	1.12	2X1439	13,200	58 720	3.3	2.2	Ribbon	120	Painted & Waxed
Anchor strapping — Apex Plus											
3/4	19.0	0.020	0.51	2X1509	1,255	5 580	19.6	13.1	Mill	105	Painted & Waxed
Anchor strapping — Magnus											
1-1/4	31.8	0.029	0.74	2X1421	4,020	17 880	8.1	5.5	Ribbon	110	Painted & Waxed

*** Strap break strengths are listed as averages. Always use American Society for Testing Materials (ASTM D-3953) minimum break strengths for package design/safety factor purposes. For proper strap selection, contact your Signode sales representative.**

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

SIGNODE®

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.

Thread-on seals

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

Open-flange seals

A 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.

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	12,600	34	15
38 C			000450	Snap-on		C-3820	1.120	28.5	5,000	28	13
38 SPC			000453	Push	Single Notch	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	9,100	42	19
12 AMP			000512	Nestack		AM-12, AMP-1-12	1.120	28.5	5,700	44	20
12 C			000500	Snap-on	Double Notch	C-1223	1.120	28.5	6,000	44	20
12 SPC			000503	Push	Single Reverse Notch	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	4,000	40	18
58 C			000550	Snap-on		C-5823	1.250	31.8	4,800	45	20
58 SPC			000553	Push	Single Notch	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	1.250	31.8	5,000	55	25
34 HCOF			005256	Open-flange		SYC-3431	2.200	55.9	1,500	50	23
34 HOC			005271	Push		PRHM-34, PRHR-34, RCD-3431, RCNS2-34, MIP-3000-34	2.200	55.9	700	31	14
34 MNT			007255	Nestack		AHP-34	1.500	38.1	2,400	48	22
34 PNSC			000572	Push	Single Notch	PNSC-2-34, SRC-3423	1.047	26.6	4,000	54	25
34 SHOC			005273	Push		RCNS2-34, SYC-3431	1.500	38.1	1,200	31	14
104 DG*	1-1/4	31.8	007200	Thread-on	Four Crimp	NSP-1435	4.750	120.7	500	53	24
107 DG**			000575		Double Crimp		2.937	74.6	700	46	21
107 DG OF*			000580	Open-flange			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	1,150	34	15
114 OF			008796	Open-flange		C-1431, RC-1435-50, RCD-1431, RCNS2-114, MIP-3000-114	2.200	55.9	1,000	50	23
114 P			005269	Push		C-1431, PRHR-114, RC-1435-50, RCD-1431, RCNS2-114, RCND-114	2.200	55.9	700	46	21
114 TO			005267	Thread-on		RCNS2-114	2.200	55.9	1,000	50	23
117 HDG OF**	1-1/4	31.8	2X2091	Open-flange	Double Crimp	B-1450, N-1444-50LSH, N-1457-LSH-2A	3.250	82.5	500	41	19
117 HDG TO**			2X2092	Thread-on		B-1450, N-1444-50LSH	3.250	82.5	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**			001871				2.937	74.6	300	43	20

Power Strapping Machine (PSM) seals

38 MNA	3/8	9.5	000562	Nestack	Single Notch	M2, M5, M200 (300 cap)	.750	19.0	9,000	29	13
12 MNA	1/2	12.7	000563	Nestack	Single Notch	M20, M200 (250 cap)	.750	19.0	5,400	28	13
58 MB	5/8	15.9	000435	Nestack	Double Notch	M22-58, M200 (300 cap)	.984	24.9	4,000	36	16
58 MNA			000565		Single Notch	M20-58, M200 (250 cap)	.750	19.0	4,800	30	14
34 MB	3/4	19.0	000569	Nestack	Double Notch	M40, M400	.984	24.9	3,000	38	17
34 MNK			000566		Single Notch	M22-34, M220 (250 cap)	.750	19.0	3,700	37	17
34 MNT			007255		Triple Notch	M20-34, MH-34, M200 (250 cap)	1.500	38.1	2,400	48	22
114 M	1-1/4	31.8	000561	Nestack	Double Notch	M361	2.000	50.8	750	42	19

* 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.

** To be used with two seals - four pairs of notches or crimps.

Manual Tensioners

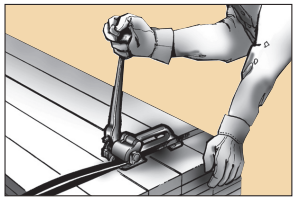
For steel strapping

SIGNODE®

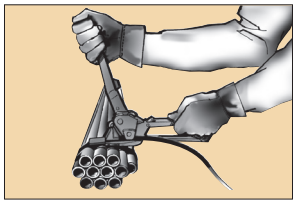
Signode hand tensioners allow operators to bring strap to desired tension with minimal interruption, effort and strap waste.

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

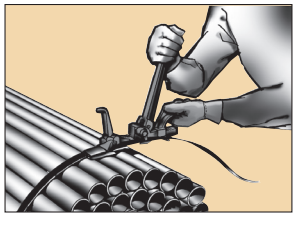


Windlass—for heavy-duty applications

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	Tension Level	Weight	
		Width		Thickness					
		inch	mm	inch	mm			lbs	kg
Feedwheel tensioners									
ST	003480	3/8–3/4	9.5–19.0	0.015–0.025	0.38–0.63	Apex, Apex Plus, Magnus	Low	4	1.8
T	003450	5/8–3/4	15.9–19.0	0.015–0.035	0.38–0.89	Apex, Apex Plus, Magnus	Medium	5	2.3
TH-114	020500	3/4–1-1/4	31.8	0.029–0.035	0.74–0.89	Magnus	High	7	3.2

ST
(8" handle)

TH-114
(12" handle)

TH-114
(17" handle)

Push-type feedwheel tensioners									
PF	017900	3/8–3/4	9.5–19.0	0.015–0.023	0.38–0.58	Apex, Magnus	Medium	4	1.8
PFH	017930	3/4–1-1/4	19.0–31.8	0.025–0.035	0.64–0.89	Apex, Magnus	High	7	3.2

PF

PFH

Windlass tensioners									
4A1-114	184125	1-1/4	31.8	0.029–0.050	0.74–1.27	Magnus	High	12	5.4
4A1-2	184140	2	50.8	0.044–0.050	1.12–1.27	Magnus	High	16	7.3

4A1-114

4A1-2

Rack-and-pinion tensioners									
PH-2	010065	3/4–1-1/4	19.0–31.8	0.020–0.035	0.35–0.89	Apex, Apex Plus, Magnus	High	7	3.2

PH-2

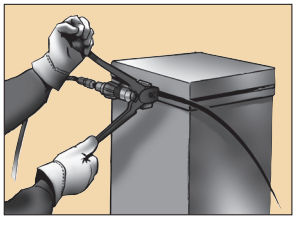
SIGNODE®

For steel strapping

Side-action and front-action

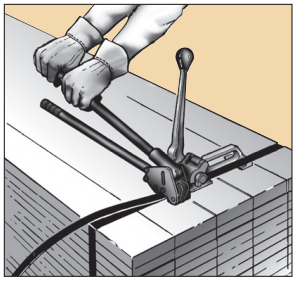
Front-action

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.



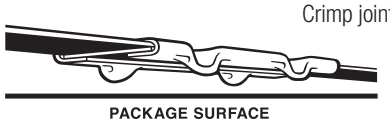
Side-action

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.



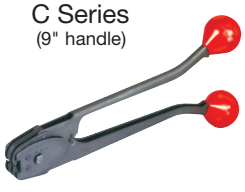
Signode manual sealers provide positive sealing action with minimal effort. Light and durable, they lock strap ends into a high strength joint. Notch-type sealers cut into the seal and outer edges of the strapping, turning tabs down (down notch) or up (reverse notch).

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



Model	Part Number	Strap Size				Seal Name	Joint Type	Weight	
		Width		Thickness					
		inch	mm	inch	mm			lbs	kg
Regular-duty sealers—front-action									
C-3820	008600	3/8	9.5	0.017–0.020	0.43–0.51	38 C	Double Notch	3	1.4
SRC-3820	008620					38 SPC	Single Reverse Notch		
C-1223	008605	1/2	12.7	0.017–0.023	0.43–0.58	12 C	Double Notch		
SRC-1223	008625					12 SPC	Single Reverse Notch		
C-5823	008610	5/8	15.9	0.017–0.023	0.43–0.58	58 C	Double Notch		
SRC-5823	008630					58 SPC	Single Reverse Notch		
C-3423	008615	3/4	19.0	0.017–0.023	0.43–0.58	34 C	Double Notch		
SRC-3423	008635					34 PNSC	Single Reverse Notch		

C Series
(9" handle)



SRC Series
(9" handle)

Model	Part	Strap Size				Seal Name	Joint Type	Weight	
		Width		Thickness					
		inch	mm	inch	mm			lbs	kg
Heavy-duty sealers—side-action									
RCD-3431	020560	3/4	19.0	0.025-0.031	0.64-0.79	34 HOC	Double Reverse Notch	7	3.2
B-1431	020380	1-1/4	31.8	0.029-0.031	0.74-0.79	104 DG, 107 DG	Single Crimp	6	2.7
RC-1435-50	004050	1-1/4	31.8	0.029-0.044	0.74-1.12	114 OF, 114 P	Single Reverse Notch	7	3.2
RCD-1431	020350	1-1/4	31.8	0.029-0.035	0.74-0.89	114 SP, 114 TO	Double Reverse Notch	7	3.2
B-250	020530	2	50.8	0.044-0.050	1.12-1.27	208 DG	Single Crimp	12	5.4

RCD-3431
(27" handle)

B-1431
(27" handle)

RC-1435-50
(27" handle)

RCD-1431
(27" handle)

B-250
(27" handle)

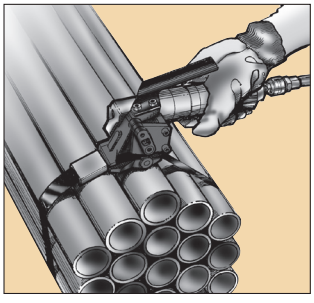
Pneumatic Tensioners & Sealers

For steel strapping

SIGNODE®

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.

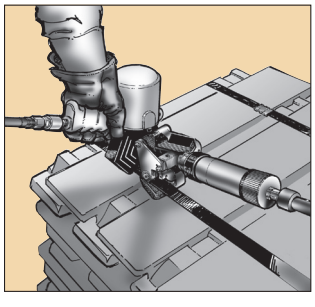


All pneumatic tensioners, except the WP-2, have unlimited strap take-up. It is essential that an air filter-regulator-lubricator assembly be installed ahead of the tool on the air line. See page 14 for pneumatic tool accessories.

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 14 for pneumatic tool accessories.

Model	Part Number	Strap Size				Strap Type	Maximum Strap Tension		Weight	
		Width		Thickness						
		inch	mm	inch	mm		lbs	N	lbs	kg
Feedwheel tensioners										
FN-114T	008810	3/4 –1-1/4	19.0 –31.8	0.031–0.044	0.79 –1.12	Magnus	3,000	13 350	24	10.9
HN-1-114	027050	1-1/4	31.8	0.029–0.050	0.74 –1.27	Apex, Magnus	4,000	17 293	18	8.2

FN-114T

HN-1-114

Push-type feedwheel tensioners										
PN2-114	423500	3/4 – 1-1/4	19.0–31.8	0.020–0.044	0.51–1.12	Magnus	1,600	7 117	8.1	3.7
PN2-2	428360	2	50.8	0.044	1.12	Magnus	1,600	7 117	8.1	3.7

PN2-114

PN2-2

Windlass tensioners										
WP-2	023070	2	50.8	0.044	1.12	Magnus	8,000	35 590	23	10.4

WP-2

Model	Part Number	Strap Size				Seal Name	Joint Type	Weight	
		Width		Thickness					
		inch	mm	inch	mm			lbs	kg
Heavy-duty sealers									
RCNS2-34	424200	3/4	19.0	0.025-0.031	0.64–0.79	34 HOC, 34 SHOC	Single Reverse 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	10.0
N-1457-LSH-2A**	423810			0.050-0.057	1.27–1.45	117 HDG OF	Double Crimp	32	14.5
NSP-1435	015600			0.029-0.035	0.79–0.89	107 DG, 107 DG OF	Single Crimp	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 Reverse Notch	9	4.1
NS-250-65L	014360	2	50.8	0.044-0.050	1.12–1.27	208 DG	Single Crimp	22	10.0
RCNS-250	046840			0.044-0.050	1.12–1.27	208 TO	Single Reverse Notch	10	4.5

** Three grit type seals are required per joint. Used in USLM applications.

Pistol grip

NSP-1435
RCNS2-34, 114
RCNS-250

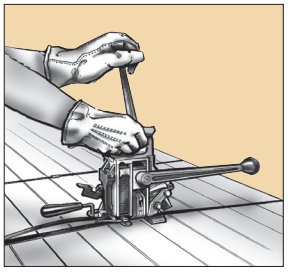
Large diaphragm

N-1444-50LSH
N-1457-LSH-2A
NS-250-65L

Combination tools function as tensioners, sealers and cutters. 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.

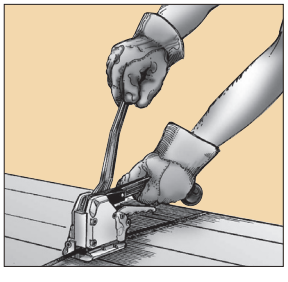
Manual seal-feed

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



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

AL Series

AM Series

AH Series

Model	Part Number	Strap Size				Strap Type	Joint Type	Weight	
		Width		Thickness					
		inch	mm	inch	mm			lbs	kg
Manual sealless									
SCM-12	424350	1/2	12.7	0.015-0.023	0.38-0.58	Apex, Apex Plus, Magnus	3 Key	8.4	3.8
SCM-58	424358	5/8	15.9	0.015-0.023	0.38-0.58	Apex, Apex Plus, Magnus	3 Key	8.4	3.8
SCMH-58	424510	5/8	15.9	0.020-0.023	0.51-0.58	Apex, Apex Plus, Magnus	3 Key	8.4	3.8
SCM-34	424334	3/4	19.0	0.015-0.025	0.38-0.64	Magnus	3 Key	11	5.0
SCMH-34	424500	3/4	19.0	0.023-0.031	0.58-0.79	Magnus	3 Key	11	5.0

SCM Series

SCMH Series

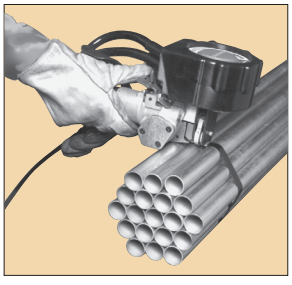
Combination Tools

For steel strapping

SIGNODE®

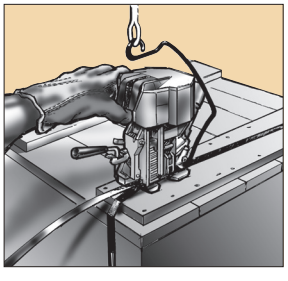
Pneumatic push-type

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.



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 AMP and the AHP.

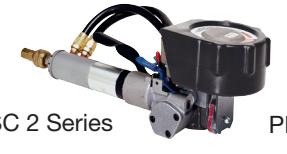


Pneumatic sealless

Pneumatic sealless combination tools include the SLP and the SPC.

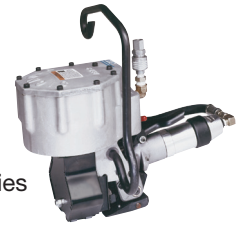
Model	Part Number	Strap Size				Strap Type	Seal Name	Joint Type	Maximum Strap Tension		Weight	
		Width		Thickness								
		inch	mm	inch	mm				lbs	kg	lbs	kg
Pneumatic Push-type												
PNSC 2-12	422495	1/2	12.7	0.017-0.023	0.43-0.58	Apex, Magnus	12 SPC	Single Reverse Notch	700	3 114	9.5	4.3
PNSC 2-58	422496	5/8	15.9	0.017-0.023	0.43-0.58		58 SPC	Single Reverse Notch	700	3 114	9.5	4.3
PNSC 2-34	422497	3/4	19.0	0.017-0.025	0.43-0.64		34 PNSC	Single Reverse Notch	700	3 114	9.5	4.3
PNSC 2-34HT	422881	3/4	19.0	0.017-0.025	0.43-0.64		34 PNSC	Single Reverse Notch	1,000	4 448	9.5	4.3
PRHM-34	306700	3/4	19.0	0.025-0.031	0.64-0.79	Magnus	34 HOC	Single Reverse Notch	1,600	7 117	16	7.3
PRHR-34	424234	3/4	19.0	0.025-0.031	0.64-0.79		34 HOC	Single Reverse Notch	1,600	7 117	34	15.4
PRHR-100	424225	1	25.4	0.025-0.035	0.64-0.89		100P	Single Reverse Notch	1,600	7 117	34	15.4
PRHR-114	423570	1-1/4	31.8	0.025-0.035	0.64-0.89		114 P	Single Reverse Notch	1,600	7 117	34	15.4

PNSC 2 Series



PRHM-34

PRHR Series



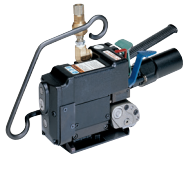
Pneumatic seal-feed												
AMP-1-12	024780	1/2	12.7	0.020-0.023	0.51-0.58	Magnus	12 AMP	Double Notch	1,600	7 117	22	10
AMP-1-58	024770	5/8	15.9	0.020-0.023	0.51-0.58	Apex, Magnus	58/34 AMP	Double Notch				
AMP-1-34	024760	3/4	19.0	0.020-0.025	0.51-0.64		58/34 AMP	Double Notch				
AHP-34	023700			0.031	0.79	Magnus	34 MNT	Double Notch	3,000	13 345	40	18.1
AHP-2-114	015650	1-1/4	31.8	0.025-0.035	0.64-0.89		114 A	Double Notch				

AMP-1 Series

AHP Series

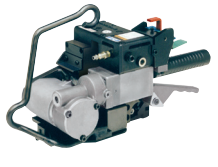
Model	Part Number	Strap Size				Strap Type	Joint Type	Maximum Strap Tension		Weight	
		Width		Thickness							
		inch	mm	inch	mm			lbs	N	lbs	kg
Pneumatic sealless											
SLP-12	422350	1/2	12.7	0.017-0.023	0.43-0.58	Apex Plus, Magnus	3 Key	500	2	15	6.4
SLP-58	422355	5/8	15.9	0.017-0.023	0.43-0.58	Apex Plus, Magnus		1,200	5	15	6.4
SLP-34	422360	3/4	19.0	0.017-0.025	0.43-0.64	Apex Plus, Magnus		1,200	5	15	6.4
SPC-3431	422446	3/4	19.0	0.025-0.031	0.64-0.79	Magnus	4 Key	1,600	7	24	10.8
SPC-114	423125	1-1/4	31.8	0.025-0.031	0.64-0.79	Magnus		3,000	13	37	16.8

Light duty SLP Series



SPC Series

Heavy duty SPC Series



SIGNODE® — For steel strapping

Model	Part Number	Strap Size				Strap Type	Seal Name	Joint Type	Applied Tension lbs	Weight	
		Width		Thickness							
		inch	mm	inch	mm					lbs	kg
GripPack 114 Sealer	800250	1-1/4	31.8	0.025 – 0.031	0.64 – 0.79	AP, M	114 P, 114 OF	SRN	—	7.5	3.4
GripPack 114 Tensioner	800441	3/4 – 1-1/4	19 – 31.8	0.025 – 0.031	0.64 – 0.79	AP, M	—	—	1,500	8.5	5.7

GripPack 114 Sealer

GripPack 114 Tensioner

Battery and Charger

GripPack Kit

Model	Part
GripPack Sealer, Battery and 110 volt Charger	800464
GripPack Sealer, Battery and 220 volt Charger	800465
GripPack Tensioner, Battery and 110 volt Charger	800466
GripPack Tensioner, Battery and 220 volt Charger	800467

GripPack Accessories

Model	Part
110 Volt Battery and Charger	800521
Battery	800293
110 Volt Charger	800294
220 Volt Battery and Charger	800544
220 Volt Charger	800543

Dispensers

For steel strapping

SIGNODE®

Model	Part Number	Strap Size		Coil Winding		Weight	
		inch	mm	Mill	Ribbon	lbs	kg
DF-15*	273725	3/8-3/4	9.5-19.0	•	–	54.5	24.7
DF-10RW	020420	3/4-1-1/4	19.0-31.8	•	•	94	43
DF-23	024200	3/8-3/4	9.5-19.0	•	–	35	16
DM-23	–	–	–	–	–	–	–
DTR-3	164520	3/4-2	19.0-50.8		•	110	50
DT-1-10RW	011442	5/8-1-1/4	15.9-31.8	•	•	125	57
DH-1-34	047538	3/4	19.0	–	•	46	21
DH-1-114	047537	1-1/4	31.8	–	•	46	21
DH-1-2	047539	2	50.8	–	•	46	21

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

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

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.

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" (0.58mm). Cover sold separately (Part No. 024219).

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

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.

Dispensers

SIGNODE® — For steel strapping

Model	Part Number	Strap Size		Coil Winding		Weight	
		inch	mm	Mill	Ribbon	lbs	kg
DA-34-114	020400	3/4-1-1/4	19.0 or 31.8	–	•	131	59
DF-1-12	031317	3/8-3/4	9.5-19.0	•	–	95	43
DF-X*	429220	1/2-3/4	12.7-19.0	•	–	58	26
DP-1-12R	040900	3/8-3/4	9.5-19.0	•	–	170	77
DC-1A	005720	3/4-2	19.0-50.8	–	•	97	44
DPCL	083001	3/8-2	9.5-50.8	•	•	450	204

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

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

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

DF-X
An all purpose, easy loading dispenser for mill wound coils.

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
wCuts strapping automatically up to 100 ft. in length.

Pneumatic Accessories

For steel and plastic strapping

SIGNODE®

Pneumatic accessories

Note: Only use lightweight air tool oil in lubricator, such as Non-fluid Oil No. L0713-54 (Part No. 008556).

A filter-regulator-lubricator (FRL) assembly (**Part No. 429141**, with 1/2" I.D. hose) or (**Part No. 429130**, without hose) is needed with all pneumatic tools and equipment. Additional pneumatic accessories are available from Signode, such as those shown on right, to help provide optimum operation. Please contact your local Signode sales representative for more information on the proper fittings for your specific tool or equipment.

Check the air pressure at the tool with a separate air gauge to verify proper air pressure.

Standard air gauge. **(Part No. 425238)**

Quick-connect safety socket for standard air supply. **(Part No. 429134)**

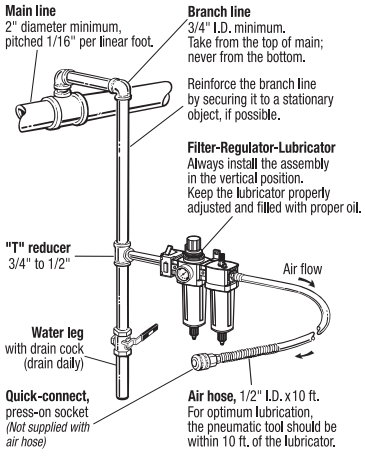
Quick-connect plug for low standard air supply. **(Part No. 020704)**

High air flow gauge. **(Part No. 429127)**

Quick-connect socket for high flow air supply. **(Part No. 015294)**

Quick-connect plug for high flow air supply. **(Part No. 015293)**

Recommended Air Line Piping



Bi-directional 360˚ swivel connector for increased operator control and maneuverability. **(Part No. 426903)**

Filter bushing **(Part No. 024631)** Screened bushing reduces air line particles from entering the tool.

Steel Strapping Accessories

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. Accommodates both mill and ribbon wound steel strap coils as well as standard plastic coils.

Portable model
Part No. 424700

Stationary model
Part No. 424700

Strapping Cutters

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 1.27 mm).
Shipping weight: 8 lbs. (3.6 kg)

Model CU-25LH
Part No. 0X-1528
Extra long handle cutter. Replaceable blades. Cuts strap through 2" x 0.050" (50.8 x 1.27 mm).
Shipping weight: 8 lbs. (3.6 kg)

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

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

Three 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.

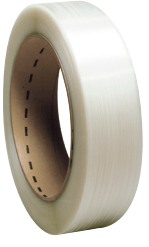
Tenax Strapping

Tenax®

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.

Contrax Strapping



Contrax®

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.

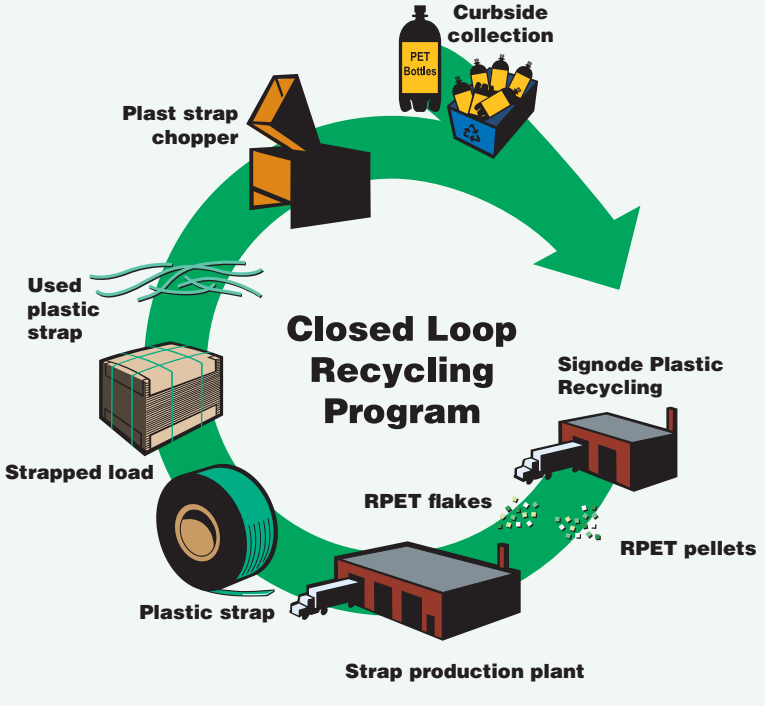
Contrax strapping has "elastic memory" which absorbs shock and keeps strapping tight during handling and shipping.

Empax Strapping

Empax™

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.



Plastic Strap Recycling Program

Signode is committed to being a leader in sustainability for the packaging industry. In addition to our ongoing development of higher strength, lower weight strapping to reduce raw material requirements, we also operate a strap reclamation program.

Our Closed Loop Recycling Program, aimed at limiting waste, collects our customers' used green PET strapping for use in the manufacture of new strapping. As a result of our recycling operation, Signode Tenax strapping contains more than 85% recycled content.

Plastic Strapping

SIGNODE®

Strap Name	Strap Color	Part Number	Strap Size Width inch	Strap Size Width mm	Average Strength* lbs	Average Strength* N	Approx. Coil Length ft	Approx. Coil Length m	Approx. Coil Width inch	Approx. Coil Width mm	Approx. Coil Outside Dia. inch	Approx. Coil Outside Dia. mm	Core Size Inside Dia. inch	Core Size Inside Dia. mm	Coil Weight lbs	Standard Coils/ Pallet	Strap Application Method
Tenax® Strapping																	
1612	Green	2X2218	3/8	9	260	1 157	18,000	4 877	6	152	24	609	16	406	49	24	HBX Large frame PSM MH-VM side seal PSM
1614S		2X2226			300	1 334	18,000	4 877							54	24	
1616ELC		2X2015			425	1 890	14,500	4 420							57	12	MH-VM side seal PSM
1716LC		2X1488	7/16	10.5	475	2 110	11,550	3 520	6	152	24	609	16	406	55	24	MH-VM side seal PSM
1718LC		2X1498			550	2 450	9,900	3 445							53	—	
1816		010379	1/2	12	500	2 220	10,500	3 200	6	152	24	609	16	406	51	12	Hand tools - metal seals MH-VM / Friction-weld
1818		010361			600	2 669	9,000	2 743							51	12	
1822		010355			800	3 560	6,500	1 980							50		
High-Strength Tenax® Strapping																	
2030	Green	2X1365	5/8	15.6	1,100	4 890	4,600	1 404	6	152	24	609	16	406	48	24	Hand tools designed specifically for use with High-strength Tenax Power strapping machines
2040**	Green	2X1369			1,400	6 227	4,000	1 219	6	152	24	609	16	406	49	24	
2040**	Green	2X2222			1,400	6 227	4,000	1 219	6	153	24	609	16	406	49	24	
2040HG	Green	2X1889			1,400	6 227	4,000	1 219	6	153	24	609	16	406	49	24	
2040J**	Green	2X1474			1,400	6 227	12,500	3 810	7.5	190	24	609	16	406	153	4	
2040H**	Green	2X1460			1,600	7 117	4,000	1 219	6	153	24	609	16	406	56	24	
2220**	Green	2X1888	3/4	19	1,900	8 451	3,000	914	6	152	24	609	16	406	52	24	Power strapping machines Hand tools designed specifically for use with High-strength Tenax
2225**		2X1847	3/4	19	2,500	11 120	2,400	732	6	153	24	609	16	406	52	24	
2480**	Green	2X1851	1	25	2,200	11 120	2 ,200	671	6	153	24	609	16	406	50	24	
10050**		2X1842	1	25	3,000	13 344	1,800	2 012	6	153	24	609	16	406	52	24	
2680**	Green	2X2207	1-1/4	32	3,200	14 234	1,800	2 012	6	153	24	609	16	406	52	24	
2625**		2X2208	1-1/4	32	4,000	17 792	1,500	1 372	6	153	24	609	16	406	54	24	
Tenax® Embossed — polyester																	
3/8X017 EMB	Green	1935010L	3/8	9	360	1 601	13,500	4 115	6	152	24	609	16	406	50	24	Hand tools designed specifically for use with Tenax
3/8X020 EMB		1935002	3/8	9	470	2 091	12,500	3 801	6	152	24	609	16	406	50	24	
7/16X022 EMB	Green	2X2230	7/16	10.5	550	2 224	10,500	3 200	6	152	24	609	16	406	50	24	
1/2X022 EMB	Green	2	1/2	12	625	2 780	9,300	2 835	6	152	24	609	16	406	49	24	
1/2X028 EMB		2X2228	1/2	12	800	3 336	7,200	2 195	6	152	24	609	16	406	50	24	
High-strength Tenax® Embossed — polyester																	
5/8X030 EMB	Green	2X2232	5/8	15.6	1,100	4 893	4,600	1 402	6	152	24	609	16	406	42	24	Hand tools designed specifically for use with High-Strength Tenax
2040 EMB		2X2011 EMB	5/8	15.6	1,300	5 782	4,000	1 219	6	152	24	609	16	406	45	24	
2040 EMB AAR		2X2229	5/8	15.6	1,400	6 227	4,000	1 219	6	152	24	609	16	406	46	24	
2X2237**		2X2237*	5/8	15.6	1,600	7 117	4,000	1 219	6	152	24	812	16	406	49	24	
3/4X040 EMB	Green	2X2233	3/4	15.6	1,900	8 451	3,000	914	6	152	24	609	16	406	46	24	

** Strap break strengths are listed as averages. Always use American Society for Testing Materials (ASTM D-3950) minimum break strengths for package design/safety factor purposes. For proper strap selection, contact your Signode sales representative.*

** *AAR printed*

SIGNODE®

Strap Name	Strap Color	Part Number	Strap Size Width		Average Strength*		Approx. Coil Length		Approx. Coil Width		Approx. Coil Outside Dia.		Core Size Inside Dia.		Coil Weight lbs	Standard Coils/ Pallet	Strap Application Method
			inch	mm	lbs	N	ft	m	inch	mm	inch	mm	inch	mm			
Light Duty Contrax																	
LB 112	Clear	2X1844	3/16	5	100	445	30,000	9 146	7.8	198	16	406	7.8	200	28	36	LBX PSM
LB 112	Yellow	2X1870															
LB 212	Clear	2X1845	1/4	6	150	667	24,000	7 317	7.8	198	16	406	7.8	200	27	36	LBX PSM
LB 212	Yellow	2X1848															
LB 113	Clear	2X1601	3/16	5	120	530	25,000	7 622	7.8	198	16	406	7.8	200	28	36	LB, SP & SureTyer PSM
LB 113	Yellow	2X1709															
LB 116	Clear	2X1875			150	667	23,000	7 010	7.8	198	16	406	7.8	200	29		
SP 216	Clear	2X1606	1/4	6	200	890	18,000	5 488	7.8	198	16	406	7.8	200	27	36	LB & SureTyer PSM
SP 216	Yellow	2X1607															
General Duty Contrax																	
HB 612	Clear	2X1738	3/8	9	225	1 000	16,000	4 878	7.8	198	16	406	7.8	200	29	36	HBX PSM
HB 612	Black	2X1727															
HB 812	Clear	2X1885	1/2	12	300	1 330	12,000	3 659	7.8	198	16	406	7.8	200	27	36	HBX PSM
HB 812	Black	2X1886															
SP 616	Clear	2X1608	3/8	9	300	1 330	12,000	3 659	7.8	198	16	406	7.8	200	27	36	HB, SP & SureTyer PSM
SP 616	Black	2X1609															
SP 719	Clear	2X1614	7/16	10.5	400	1 780	9,000	2 744	7.8	198	16	406	7.8	200	28	36	HB, SP & SureTyer PSM
SP 719	Black	2X1615															
SP 723	Clear	2X1616	7/16	10.5	500	2 220	7,500	2 287	7.8	198	16	406	7.8	200	28	36	HB, SP & SureTyer PSM
SP 723	Black	2X1617															
Heavy Duty Contrax																	
HD 719	Clear	2X1610	7/16	10.5	400	1 780	12,000	3 659	6	152	24	609	16	406	39	24	MH-VM Pneumatic friction-weld tools
HD 723	Black	2X1613			500	2 220	9,000	2 744							34		
HD 729		2X1622			600	2 670	7,700	2 348							37		
816	Black	010366	1/2	12	500	2 220	8,000	2 439	6	152	24	609	16	406	32	24	Hand tools / seals / friction-weld
Empax																	
Empax	White	M09250WH8	3/8	9	250	1 330	12,900	3 930	8	203	16	406	8	203	30	24	Hot-knife PSM that require embossed strapping
		M09250WH9									17	432	9	229	30		
	White	M12350WH8	1/2	12	350	1 557	9,900	3 020	8	203	16	406	8	203	28	24	
		M12350WH9			350	1 557					17	432	9	229	28		
	Black	M12600BK6-7500	1/2	12	600	2 669	7,500	2 286	6	152	24	610	16	406	30	24	
		H12300BK6			300	1 334	9,000	2 743	6	152	24	610	16	406	23		
		H12500BK6			500	2 224	7,200	2 195	6	152	24	610	16	406	29		
		H12600BK6			600	2 669	7,200	2 195	6	152	24	610	16	406	29		

** Strap break strengths are listed as averages. Always use American Society for Testing Materials (ASTM D-3950) minimum break strengths for package design/safety factor purposes. For proper strap selection, contact your Signode sales representative.*

Seals & Buckles

For plastic strapping

SIGNODE®

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 12 mm Signode plastic strapping as well as 16 mm and 19 mm 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.

Snap-on seals

Signode snap-on seals use a grit coating on the inside to increase friction between the strapping and the seals. Snap-on seals are placed on overlapping strap ends during or after strap tensioning. These seals generally reduce application time.

Nestack® seals

Nestack seals use steel teeth to grip the strapping. They are stacked and 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 and joint strength

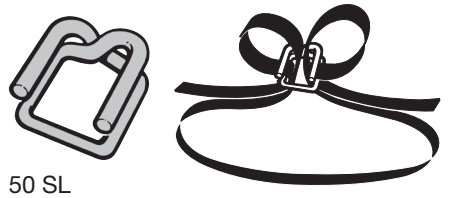
To ensure positive joint strength on all four types of plastic strapping, Signode steel seals and special sealers are used to form crimp joints. Crimp joints are formed by compressing the seal onto overlapping straps. The holding power of the joint is generated by squeezing the straps and the seal together.

Friction-weld® sealless joint

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

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

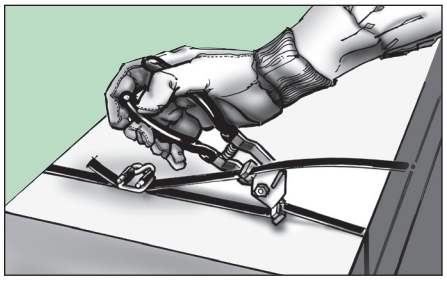
50 DL



50 SL

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

Seal Name	Part Number	Seal Type	Seal Length		Strap Size		Tool Name	Approx. Shipping Weight		Standard Package
			inch	mm	inch	mm		lbs	kg	
Nestack seals										
50 ASD	000531	Serrated	1-1/8	28.3	1/2	12	AMPT-12, AST	41	18.6	2,000
58 AMT	2X1303		1-1/8	28.3	5/8	16	AMT-58	33	15.0	1,440



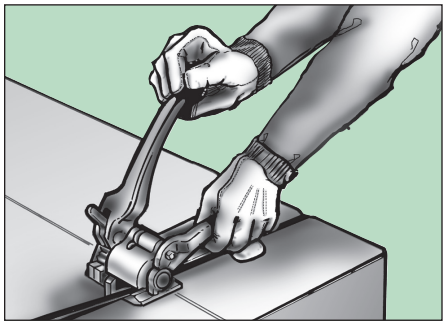
Walking gripper tensioner

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	Approx. Shipping Weight	
		Contrax		Tenax				
		inch	mm	inch	mm		lbs	kg
DLT	023930	1/2	12.7	—	—	Gripper / cutter for 50SL, 50DL buckles	1	0.45

DLT Walking Gripper

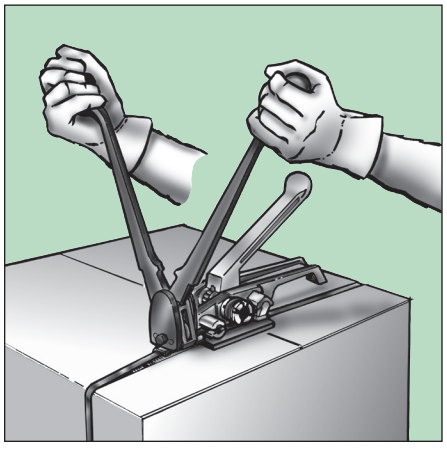


Feedwheel tensioner

A serrated feedwheel grips the strapping and rotates to take 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	Approx. Shipping Weight	
		Contrax		Tenax				
		inch	mm	inch	mm		lbs	kg
STD	257080	1/2	12.7	1/2	12.7	Feedwheel with cutter	4	1.8

STD



Sealers

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

Model	Part Number	Strap Type				Seal Type	Joint Type	Approx. Shipping Weight	
		Contrax		Tenax					
		inch	mm	inch	mm			lbs	kg
D-504	023800	1/2	12	1/2	12	50DY, 50DYS 50SL, 50DL buckles	Crimp	1	0.45
D-506	023820	1/2	12	—	—	50DY	Crimp	4	1.8
D-58	423800	—	—	5/8	15.9	58DY	Crimp	9	4.1

D-504, D-506

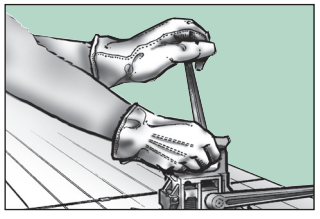
D-58

Combination Tools

For plastic strapping

SIGNODE®

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.



Manual

The AST manual seal-feed combination tool uses Contrax and Tenax strapping.
The AMT-58 is the ideal tool for High-Strength Tenax strapping.

Pneumatic Friction-weld®

The model VFX-9/13 combination tool applies Contrax and Tenax strapping. Strap ends are joined with Signode's friction-weld process, eliminating the need for metal seals.

The VTI-16, VTI-19 and VTI-25 pneumatic friction welding tools are used in baling applications. The lightweight VT-16HD, VT-19HD, VT-25HD and VT-32HD tools apply High-Strength Tenax strapping at higher tension levels. Ideal for use in both horizontal and vertical applications.

Model	Part Number	Strap Type						Description	Seal Type	Joint Type	Approx. Shipping Weight	
		Contrax		Tenax		High-Strength Tenax						
		inch	mm	inch	mm	inch	mm				lbs	kg
Manual												
AST	422950	1/2	12	1/2	12.7	—		Seal Feed	50 ASD	Crimp	11.5	5.2
AMT-58	306930	—		—		5/8	15.9	Seal Feed	58 AMT	Crimp	14	6.4

AST

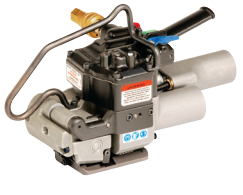
AMT-58

Model	Part Number	Strap Type						Maximum Tension lbs.	Joint Type	Approx. Shipping Weight	
		Contrax		Tenax		High-Strength Tenax					
		inch	mm	inch	mm	inch	mm			lbs	kg
Pneumatic											
VFX-9/13	429276	3/8 1/2	9 12.7	3/8 1/2	9 12.7	—	—	180	Friction-weld	5	2.3
VTI-16	427110	—	—	—	—	5/8	15.9	—	Friction-weld	6	2.7
VTI-19	427993	—	—	—	—	3/4	19.0	—	Friction-weld	6	2.7
VTI-25	427988	—	—	—	—	1	25.4	—	Friction-weld	6	2.7
VT-Brick	427130	—	—	—	—	5/8	15.9	600	Friction-weld	10.5	4.8
VT-Brick HS	425230	—	—	—	—	5/8	15.9	600	Friction-weld	10.5	4.8
VT-16/19/25 FBR	425240	—	—	—	—	5/8	15.9	600	Friction-weld	10.5	4.8
VT-16HD	427280	—	—	—	—	5/8	15.9	800	Friction-weld	10.5	4.8
VT-19HD	426160	—	—	—	—	3/4	19.0	800	Friction-weld	10.5	4.8
VT-25HD	423992	—	—	—	—	1	25.4	800	Friction-weld	10.5	4.8
VT-32HD	428225	—	—	—	—	1-1/4	32	800	Friction-weld	10.5	4.8

VFX-9/13

VTI-16
VTI-19
VTI-25

VT-Brick
VT-Brick HS
VT-16/19 FBR



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

Battery-powered Tools

SIGNODE® **For plastic strapping**

Battery-Operated Friction-weld

The BXT2 combination tools apply polypropylene or polyester strapping, utilizing friction weld joint technology to join strap ends. Automatic weld function speeds up cycle time. The battery-operated BXT2 has a simple two-button process and ergonomic design to reduce operator fatigue.

Model	Part Number	Strap Type				Description	Applied Tension lbs.		Joint Type	Approx. Shipping Weight	
		Contrax		Tenax							
		inch	mm	inch	mm		lbs	N		lbs	kg
BXT2-10	800570	3/8-1/2	9-15.9	3/8–1-2	9-15.9	Battery	275	1 223	Friction-weld	7.5	3.4
BXT2-16	428340	5/8	15.6	1/2–5/8	12.7-15.9	Battery	550	2 446	Friction-weld	9	4.1
BXT2-19	428350	3/4	19.0	5/8-3/4	15.9-19.0	Battery	880	3 914	Friction-weld	9	4.1
BXT2-25	2640315	—	—	1	25.4	Battery	1,460	6 494	Friction-weld	14.3	6.5
BXT2-32	2640325	—	—	1-1/4	32	Battery	1,460	6 494	Friction-weld	14.3	6.5

BXT2-10

BXT2-16
BXT2-19

BXT2-25/32

Dispensers

Model	Part Number	Strap Size		Core Size I.D.	Dispenser Weight	
		inch	mm		lbs	kg
DD-1A	024520	7/16–1/2	10.5–12	16"	48	22
DF-16A	422300	3/8–3/4	9–19.0	16"	62	28
DF-1-12D	031318	3/8–3/4	9–19.0	16"	97	44
DF-X	429220	1/2-3/4	12.7-19.0	16"	58	26

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

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).

DF-X
An all purpose, easy loading dispenser for mill wound coils.

Pneumatic tool accessories

See Page 14 for additional fittings.

A filter-regulator-lubricator (FRL) assembly is needed with all pneumatic tools and equipment. Additional pneumatic accessories are available from Signode to help provide optimum operation. Please contact your Signode sales representative for more information on the proper fittings for your specific tool or equipment.

Note: Only use light weight air tool oil in lubricator, such as Non-fluid Oil No. LO713-54 (Part No. 008556) or equivalent.

General Purpose Equipment

For plastic strapping

SIGNODE®

TTX

Strapping System

The Economical TTX is the ideal plastic strapping system for low volume users. Its simple open cabinet, bottom seal design makes it ideal for strapping bundles, cartons or coiled products. Strap tension and length are fully adjustable.

- Low cost
- Easy to operate
- Reliable

Specifications

Package size:	Minimum: 3-1/2"W x 2"H
Strap tension:	Adjustable from 10 lbs. to 80 lbs.
Strapping:	6mm (1/4"), 9mm (3/8"), 12mm (1/2") Empax polypropylene strapping.
Electrical:	120 VAC, 1 phase, 60 Hz.
Shipping weight:	185 lbs.

TableTyer™

Strapping System

The low-cost TableTyer™ is the ideal plastic strapping system for low to moderate volume users. No adjustments, 24 VDC motors eliminate belts, solenoids and idler pulleys. Simple electronic design makes for trouble-free operation.

- Portable
- Ready to operate in seconds

Specifications

Maximum package weight:	125 lbs.
Strap tension:	Adjustable from 10 lbs. to 100 lbs.
Strapping:	5 mm-12 mm 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, 60 Hz.
Shipping weight:	185 lbs.

MOD-GPX

Semiautomatic and Automatic Strapping System

The MOD-GPX plastic strapping machine provides the highest available speed, most reliable performance and lowest maintenance operation of any general-duty strapping machine on the market today. With timesaving features, the MOD-GPX simplifies 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

Specifications

Chute inner dimensions:

	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
W	16*	406	20	510	28	710	33	840	48	1220	48	1220
H	10*	254	15	380	20	510	30	760	20	510	48	1220

Cycle rate:	Up to 70 straps per minute.
Strap tension:	Adjustable from 2 lbs. to 60 lbs.
Strapping:	Signode Contrax polypropylene strapping 5 mm, 6 mm, 9 mm and 12 mm.
Tabletop height:	Adjustable from 26" to 40" (660mm to 1015 mm).
Electrical:	120 VAC, 60 Hz: 3 phase voltage optional.
Shipping weight:	600—700 lbs.

*Available on semiautomatic models only.

MOD-GPX

Semiautomatic and Automatic Stainless Steel Strapping System

The MOD-GPX plastic strapping machine provides the highest available speed, most reliable performance and lowest maintenance operation of any general-duty strapping machine on the market today. With timesaving features, the MOD-GPX simplifies 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

Specifications

Chute inner dimensions:

	inch	mm
W	28	710
H	20	510

Cycle rate:	Up to 70 straps per minute.
Strap tension:	Adjustable from 2 lbs. to 60 lbs.
Strapping:	Signode Contrax polypropylene strapping 5 mm, 6 mm, 9 mm and 12 mm.
Tabletop height:	Adjustable from 26" to 40" (660 mm to 1015 mm).
Electrical:	120 VAC, 60 Hz: 3 phase voltage optional.
Shipping weight:	600—700 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.

- 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 (50 mm x 25mm).
Cycle 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:	120 VAC, 60 Hz.
Shipping weight:	540 lbs.

LBX-2300/2330

Semiautomatic and Automatic Strapping Systems

Models: LBX-2300 semiautomatic
LBX-2330 automatic
LBX2300/2330 large frame

The LBX-2300 Series plastic strapping machines provide reliable, high speed performance for heavy-duty applications, such as meat packaging, general distribution and the bundling of hardwood flooring. With a number of timesaving features, the LBX Series strapping machines simplify operation and maintenance.

- Jam-resistant technology
- Bi-directional strap loading
- Out-of-strap feature
- Automatic cut-off and refeed option
- Fully accessible strap path
- Lubrication-free operation
- Variable speed reversible conveyor

Cycle rate: Up to 70 straps per minute. Actual rate will vary depending on package size, chute size and operator dexterity.

Specifications

Small frame – chute inner dimensions:

	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
W	16	400	20	510	28	710	33	830	48	1220	48	1220
H	10	250	15	380	20	510	30	760	20	510	48	1220

Large frame – chute inner dimensions:

	inch	mm
W	65	1650
H	20	510

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.

Tension: Adjustable from 2 lbs. to 200 lbs.

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

Electrical: 120 VAC, 60 Hz; 3 phase voltage optional.

Shipping weight: Small frame: 600-700 lbs.
Large frame: 900-1,100 lbs.

LBX-2300/2330

Semiautomatic and Automatic Stainless Steel Strapping Systems

Models: LBX-2300 semiautomatic
LBX-2330 automatic

The LBX-2300 Series stainless steel plastic strapping machines are designed for reliable packaging under harsh conditions. Built with stainless steel components, they are ideal for packaging applications where corrosion resistance is necessary in the meat, poultry and seafood industries. With a number of timesaving features and options, the LBX Series strapping machines simplify operation and maintenance.

Features include: Stainless steel frame, table top, chute arch, legs, front and rear panels, dispenser door, electrical door and splash guard. Corrosion resistant strap path and fasteners.

- Jam-resistant technology
- Bi-directional strap loading
- Out of strap feature
- Automatic cut-off and refeed option
- Fully accessible strap path
- Lubrication-free operation
- Variable speed reversible conveyor

Specifications

Chute size: 28"x 20" (710 mm x 510 mm)

Cycle rate: Up to 70 straps per minute. Actual production will vary depending on package size, chute size and operator dexterity.

Maximum package weight: 100 lbs. on machine or conveyor.

Tension: Adjustable from 25–200 lbs.

Strapping: 5 mm and 6 mm Contrax polypropylene strapping

Electrical: LBX-2300 Semiautomatic: 120 V, 1 phase, 60 Hz; LBX-2330 Automatic: 120 V, 1 phase, 60 Hz or 208 V; 230 V; 460 V; 575 V, 3 phase, 60 Hz

Shipping weight: 1,100 lbs.

HBX-4300

Semiautomatic Strapping Machine for Small Bundles

The HBX-4300 Small Anvil plastic strapping machine, designed for small, irregular packages, provides reliable bundling for a wide range of applications. Built with a number of standard features to simplify maintenance and operation, the HBX-4300 Small Anvil maximizes production to save you time and money.

- Jam-resistant technology
- Bi-directional strap loading
- Out-of-strap feature
- Fully accessible strap path
- Lubrication-free operation

Specifications

Maximum package size: 16" W x 10" H

Minimum package size: 2-3/4" W x 3/4" H

Maximum package weight: 100 lbs.

Tension: Adjustable from 2 lbs. to 200 lbs.

Strapping: 9 mm or 12 mm Contrax polypropylene strapping.

Electrical: 120 volt, 60 Hz, 3 phase voltage optional.

Shipping weight: 600-700 lbs.

HBX-4300/4330

Semiautomatic and Automatic Strapping Systems

Models: HBX-4300 semiautomatic
HBX-4330 automatic
HBX4300/4330 large frame

The HBX-4300 Series plastic strapping machines provide reliable, high speed performance for heavy-duty applications, such as meat packaging, general distribution and the bundling of hardwood flooring. With a number of timesaving features, the HBX Series strapping machines simplify operation and maintenance.

- Jam-resistant technology
- Bi-directional strap loading
- Out-of-strap feature
- Automatic cut-off and refeed option
- Fully accessible strap path
- Lubrication-free operation
- Variable speed reversible conveyor

Cycle rate: Up to 70 straps per minute. Actual rate will vary depending on package size, chute size and operator dexterity.

Specifications

Small frame – chute inner dimensions:

	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
W	16*	400	20	510	28	710	33	830	48	1220	48	1220
H	10*	250	15	380	20	510	30	760	20	510	48	1220

Large frame – chute inner dimensions:

	inch	mm	inch	mm
W	65	1650	90	2286
H	20	510	15	380

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.

Tension: Adjustable from 2 lbs. to 200 lbs.

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

Electrical: 120 VAC, 60 Hz; 3 phase voltage optional.

Shipping weight: Small frame: 1,100 lbs.
Large frame: 900-1,100 lbs.

* Available on semiautomatic model only.

HBX-4300/4330

Semiautomatic and Automatic Stainless Steel Strapping Systems

Models: HBX-4300 semiautomatic
HBX-4330 automatic

The HBX-4300 Series stainless steel plastic strapping machines are designed for reliable packaging under harsh conditions. Built with stainless steel components, they are ideal for packaging applications where corrosion resistance is necessary in the meat, poultry and seafood industries. With a number of timesaving features and options, the HBX Series strapping machines simplify operation and maintenance.

Features include: Stainless steel frame, table top, chute arch, legs, front and rear panels, dispenser door, electrical door and splash guard. Corrosion resistant strap path and fasteners.

- Jam-resistant technology
- Bi-directional strap loading
- Out-of-strap feature
- Automatic cut-off and refeed option
- Fully accessible strap path
- Lubrication-free operation
- Variable speed reversible conveyor

Specifications

Chute size: 28"x 20" (700 mm x 510 mm)

Cycle rate: Up to 70 straps per minute. Actual production will vary depending on package size, chute size and operator dexterity.

Maximum package weight: 100 lbs. on machine or conveyor.

Tension: Adjustable from 25–200 lbs.

Strapping: 9 mm and 12 mm Contrax polypropylene strapping

Electrical: 120 volt, 60 Hz, FLA 9.0 amp; 208 volt, 60 Hz, FLA 5.2 amp; 230 volt, 60 Hz, FLA 4.7 amp; 460 volt, 60 Hz, FLA 2.3 amp; 575 volt, 60 Hz, FLA 2.0 amp

Shipping weight: 600-700 lbs.

MH-VM

Vertical Side-Seal - Coupled Machine Configuration

The MH-VM side seal plastic strapping machine, available with hot knife sealing technology or friction-weld technology, combines modularity with high speed reliable operation to maximize productivity. Simple to operate and easy to maintain, the MH-VM features a modular head with separate feeding and sealing modules that are easy to access and can be changed out quickly for routine maintenance. The MH-VM is available in 69 standard chute sizes and uses Contrax polypropylene or Tenax polyester strapping.

- Automatic strap loading
- 50% fewer moving parts than any competitive machine
- Simplified maintenance
- Automatic refeed
- Quick-change technology

Specifications

Chute size: Available in chutes 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"

Cycle rate: Up to 19 straps per minute on friction weld; up to 32 straps per minute on hot knife. Actual production will vary depending on package and chute size, operator dexterity and material handling equipment.

Tension: Adjustable from 25–200 lbs.

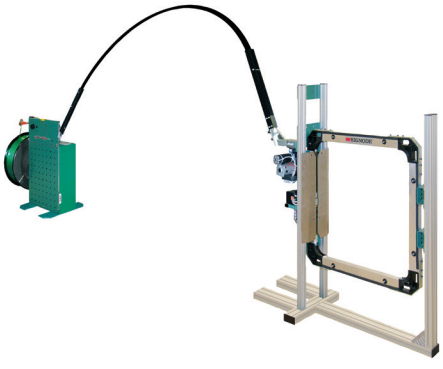
Strapping: Signode Contrax polypropylene or Tenax polyester strapping

Electrical: 120 V, 1 phase, 60 Hz or 230 V; 400 V; 460 V; 575 V; 3 phase,60 Hz

Shipping weight: 800 lbs.

MH-VM

Vertical Side-Seal - Remote Machine Configuration



The MH-VM side seal plastic strapping machine, available with hot knife sealing technology or friction-weld technology, combines modularity with high speed reliable operation to maximize productivity. Simple to operate and easy to maintain, the MH-VM features a modular head with separate feeding and sealing modules that are easy to access and can be changed out quickly for routine maintenance. The MH-VM is available in 69 standard chute sizes and uses Contrax polypropylene or Tenax polyester strapping.

- Automatic strap loading
- 50% fewer moving parts than any competitive machine
- Simplified maintenance
- Automatic refeed
- Quick-change technology

Specifications

Chute size: Available in chutes sizes to accommodate any combination of the following widths and heights:

Cycle rate: Up to 19 straps per minute on friction weld; up to 32 straps per minute on hot knife. Actual production will vary depending on package and chute size, operator dexterity and material handling equipment.

Tension: Adjustable from 25–200 lbs.

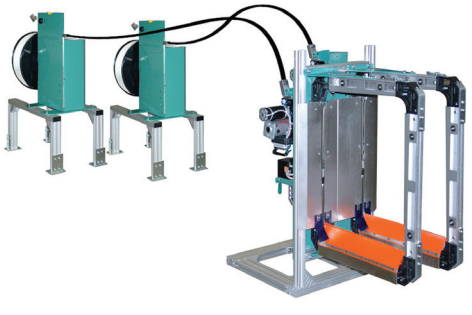
Strapping: Signode Contrax polypropylene or Tenax polyester strapping

Electrical: 120 V, 1 phase, 60 Hz or 230 V; 460 V; 575 V; 3 phase,60 Hz

Shipping weight: 800 lbs.

MH-EX

Export hay machine



The MH-EX export hay strapping machine, available with hot knife sealing technology or friction-weld technology, combines modularity with high speed reliable operation to maximize productivity. Simple to operate and easy to maintain, the MH-EX features a modular head with separate feeding and sealing modules that are easy to access and can be changed out quickly for routine maintenance.

- Automatic strap loading
- 50% fewer moving parts than any competitive machine
- Simplified maintenance
- Automatic refeed
- Quick-change technology

Specifications

Chute size: 18" W x 20" H (457 mm x 510 mm), 18" W x 25" H (457 mm x 635 mm) or 18" W x 30" H (457 mm x 726 mm)

Cycle rate: Up to 19 straps per minute on friction weld; up to 32 straps per minute on hot knife. Actual production will vary depending on package and chute size, operator dexterity and material handling equipment.

Tension: Adjustable from 25–200 lbs.

Strapping: Signode Contrax polypropylene or Tenax polyester strapping

Electrical: 120 V, 1 phase, 60 Hz or 230 V; 460 V; 575 V; 3 phase, 60 Hz

Shipping weight: MH-EX Dual headed 1,500 lbs. (680 kg); MH-EX Quad headed 1,600 lbs. (726 kg)

MH-VR & MH-VRB

Side Seal Strapping Machine

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

- Automatic refeed
- Low maintenance. Few wearing parts to replace
- High tension
- Easy access to strap path
- Quick-change technology

Specifications

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

Strapping: Signode 9mm-16 mm Contrax polypropylene or 9mm-16 mm Tenax polyester strapping.

Strap tension: Adjustable from 17 lbs. to 200 lbs.

Electrical: 230 V; 480 V; 3 phase

Shipping weight: 1,100 lbs.

MH-11/16-HT

Side Seal Strapping Machine

The MH-11/16-HT side seal plastic strapping machine, available with hot knife sealing technology or friction-weld technology, combines modularity with high speed reliable operation to maximize productivity. Simple to operate and easy to maintain, the MH-11/16-HT features a modular head with separate feeding and sealing modules that are easy to access and can be changed out quickly for routine maintenance. The MH-11/16-HT is available in 69 standard chute sizes and uses Contrax polypropylene or Tenax polyester strapping.

- Automatic strap loading
- 50% fewer moving parts than any competitive machine
- Simplified maintenance
- Automatic refeed
- Quick-change technology

Specifications

Chute size: Available in chutes 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"

Cycle rate: Up to 19 straps per minute on friction weld; up to 32 straps per minute on hot knife. Actual production will vary depending on package and chute size, operator dexterity and material handling equipment.

Tension: Adjustable from 25–200 lbs.

Strapping: 1/2" or 5/8" Tenax polyester strapping

Electrical: 230/460 V, 3 phase, 60 Hz

Shipping weight: 750 lbs.

MH-H

Automatic Horizontal Strapping Machine

The MH-H automatic horizontal strapping machine applies consistent, high strap tension to palletized loads in a wide range of sizes. The MH-H can be used with Contrax polypropylene or Tenax polyester strapping to accommodate a variety of load types, including cartons, palletized products, appliances, bulk bins, bales and bundled items.

- Automatic refeed
- Low maintenance. Few wearing parts to replace
- High tension
- Easy access to strap path
- Quick-change technology

Specifications

Dimensions: 38" (965 mm) W x 51" (1295 mm) L to 61" (1549 mm) W x 75" (1905 mm) L

Strapping: Signode 9mm-16 mm Contrax polypropylene or 9mm-16 mm Tenax polyester strapping.

Strap tension: Adjustable from 8 lbs. to 200 lbs.

Electrical: 208 V; 220 V; 460 V, 3 phase, 50/60 Hz

Shipping weight: 1,100 lbs.

Economic Evaluation Summary

SIGNODE®

Customer _____ Date _____

Annual Costs	**Present**	**Proposed**
Package container costs (If applicable)		
a. _____	$ _____	$ _____
b. _____	$ _____	$ _____
c. _____	$ _____	$ _____
d. _____	$ _____	$ _____
Reinforcement/closure cost		
a. _____	$ _____	$ _____
b. _____	$ _____	$ _____
c. _____	$ _____	$ _____
d. _____	$ _____	$ _____
Labor cost		
a. _____	$ _____	$ _____
b. _____	$ _____	$ _____
c. _____	$ _____	$ _____
d. _____	$ _____	$ _____
Other costs		
a. _____	$ _____	$ _____
b. _____	$ _____	$ _____
c. _____	$ _____	$ _____
d. _____	$ _____	$ _____
Total cost:	**$** _____	**$** _____

1. Estimated annual savings: (Present minus proposed) **$** _____

Investment

2. Equipment $ _____

3. Approximate annual depreciation $ _____
   (Line 2 divided by 8 years)

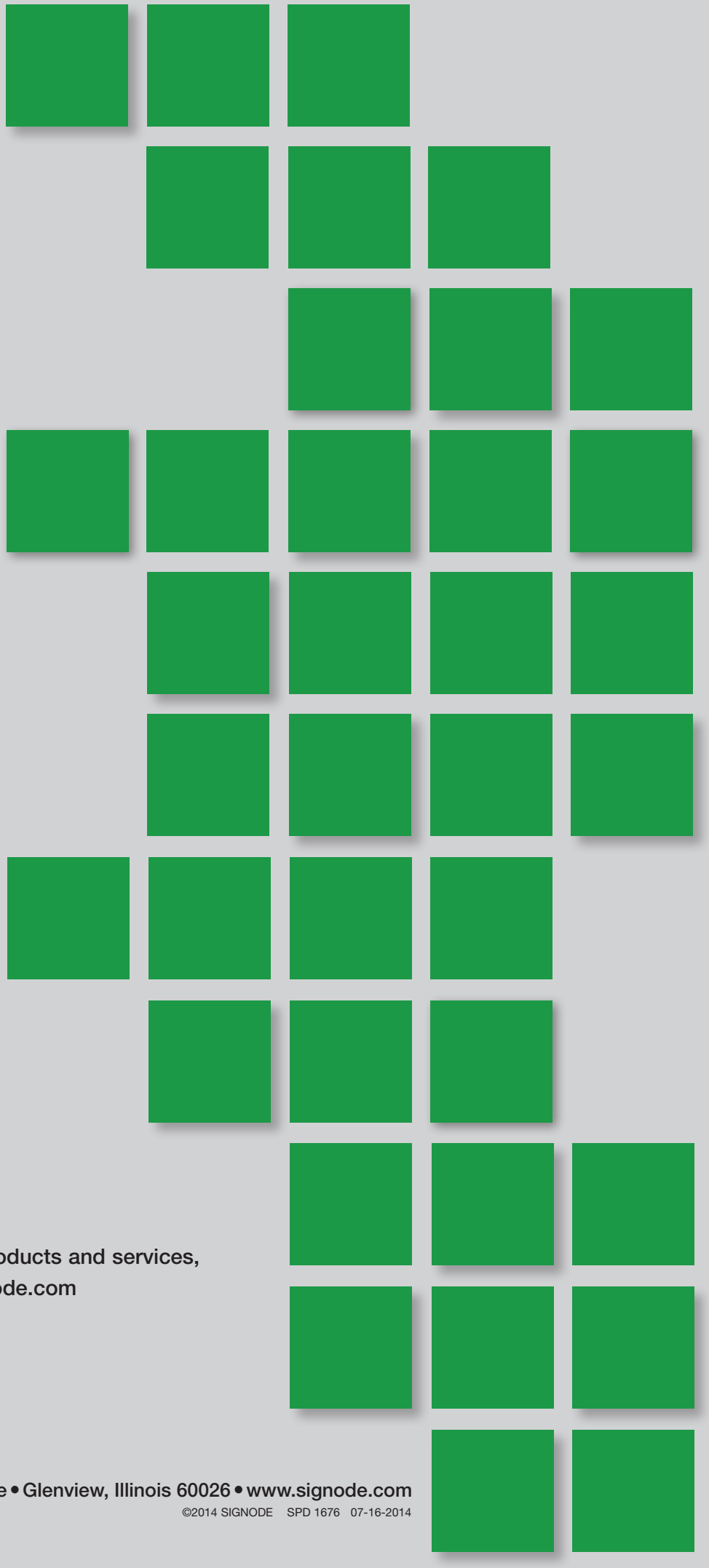
4. Annual savings after depreciation $ _____
   (Line 1 minus line 3)

5. Profit after taxes $ _____
   (Line 4 x 34% and state tax)

6. Approximate annual cash savings $ _____
   (Line 5 + line 3)

7. Payback period _____ Years
   (Line 2 divided by line 6)

Comments: _____



For additional information on our products and services,
please go to www.signode.com

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