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 unequaled performance reliability. Because Signode strapping is manufactured to exact specifications, you are assured high quality and dependability with every coil.

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. Ask your sales representative about our sustainability and environmental initiatives.
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Steel and Plastic Strapping

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For uncompromising quality and packaging effectiveness

Consistent high quality makes Signode steel strapping the first choice among packaging professionals worldwide.

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.

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.

If you have questions regarding your specific application, call your Signode sales representative for help in determining your strapping requirements.

Strap break strengths are listed as averages. Always use American Society for Testing Materials (ASTM D-395) 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.

All steel strapping sizes are manufactured at a plant that is certified to the latest ISO 9001 Standard.
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” (63.5 mm) 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” (406.4 mm)
Outside diameter: Mill wound coils measure 23” (584.2 mm). Ribbon wound coils vary from 23-1/2” to 27” (596.9 mm to 685.8 mm) 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.

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

- 3/4” x 0.017” (19.0 x 0.43 mm) Apex Plus with in-line 0.145” (3.7 mm) holes on 3/4” (19.0 mm) centers and a strap strength of 1,255 lbs. (5,582 N).
- 1-1/4” x 0.029” (31.8 x 0.74 mm) Magnus with staggered 0.250” (6.4 mm) holes on 1-1/2” (38.1 mm) 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.

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.

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.
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 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 Shipping Weight**
--- | --- | --- | --- | --- | --- | --- | ---
38 AL | 3/8 | 000555 | Nestack | Double Notch | AL-38 | .860 | 21.8 | 12,600 | 34 | 15
38 C | 3/8 | 000450 | Snap-on | C-3820 | 1.120 | 28.5 | 5,000 | 28 | 13
38 SPC | 3/8 | 000453 | Single Notch | SPC-3820 | 1.047 | 26.6 | 5,000 | 38 | 17
12 AL | 1/2 | 000554 | Nestack | Double Notch | AL-12 | .860 | 21.8 | 9,100 | 42 | 19
12 AMP | 1/2 | 000612 | Nestack | AL-12, AMP-1-12 | 1.120 | 28.5 | 5,700 | 44 | 20
12 C | 1/2 | 000500 | Snap-on | C-1223, YC-1223 | 1.120 | 28.5 | 6,000 | 44 | 20
12 SPC | 1/2 | 000503 | Nestack | Single Reverse Notch | PNSC-2-12, SRC-1223 | 1.047 | 26.6 | 3,000 | 30 | 14
58/34 AMP | 5/8 | 000567 | Nestack | AM-58, AM-34, AMP-1-58, AMP-1-34 | 1.120 | 28.5 | 4,000 | 40 | 18
58 C | 5/8 | 000550 | Snap-on | C-5823, YC-5823 | 1.250 | 31.8 | 4,800 | 45 | 20
58 SPC | 5/8 | 000553 | Nestack | Single Notch | PNSC-2-58, SRC-5823 | 1.047 | 26.6 | 5,000 | 58 | 26
34 C | 3/4 | 000555 | Nestack | Single Notch | M-2, M5 | .750 | 19.0 | 9,000 | 29 | 13
34 HCF | 3/4 | 000525 | Open-flange | SYC-3431, RND-34 | 2.00 | 50.8 | 1,500 | 50 | 23
34 HOC | 3/4 | 000527 | Push | PRHM-34, RHR-34, RCD-3431, RNS2-34, SRC-3431 | 2.00 | 50.8 | 4,000 | 58 | 26
34 MNT | 3/4 | 000541 | Nestack | Single Notch | AHP-34 | 1.500 | 38.1 | 2,400 | 48 | 22
34 PNG | 3/4 | 000787 | Push | PNSC-2-34, SRC-3431 | 1.047 | 26.6 | 4,000 | 58 | 26
34 SHOC | 3/4 | 000572 | Push | PNSC-2-34, SRC-3431 | 1.047 | 26.6 | 4,000 | 58 | 26
104 DG * | 2 | 000578 | Thread-on | Four Crimp | B-1431, B-1450, NS-250-65L | 2.937 | 74.6 | 700 | 31 | 14
104 OF * | 2 | 000578 | Open-flange | SYC-3431, RND-34 | 3.25 | 82.5 | 500 | 41 | 19
208 DG * | 2 | 000578 | Thread-on | Double Crimp | B-250, NS-250-65L | 2.937 | 74.6 | 300 | 40 | 20
208 TO | 2 | 001971 | Thread-on | Double Crimp | B-250, NS-250-65L | 2.937 | 74.6 | 300 | 40 | 20

* 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.

---

**Power Strapping Machine (PSM) seals**

38 MNA | 3/8 | 000562 | Nestack | Single Notch | M2, M5, M200 (300 cap) | .750 | 19.0 | 9,000 | 29 | 13
38 MN MNS | 3/8 | 000462 | Nestack | Single Notch | M2, M25 | .680 | 17.2 | 9,000 | 25 | 11
12 MNA | 1/2 | 000563 | Nestack | Single Notch | M20, M220 (250 cap) | .750 | 19.0 | 5,400 | 28 | 13
12 MN MNS | 1/2 | 000551 | Nestack | Single Notch | M2, M4, M5, M6, M25 | .680 | 17.2 | 8,400 | 26 | 12
58 MB | 5/8 | 000435 | Nestack | Double Notch | M22-58, M200 (300 cap) | .964 | 24.9 | 4,000 | 36 | 16
58 MN | 5/8 | 000896 | Nestack | Single Notch | M2, M4, M5, M6 | .680 | 17.2 | 8,400 | 30 | 14
58 MNA | 5/8 | 000565 | Nestack | Single Notch | M20-58, M200 (250 cap) | .750 | 19.0 | 4,800 | 30 | 14
34 MB | 3/4 | 000569 | Nestack | Double Notch | M40, M400 | .964 | 24.9 | 3,000 | 38 | 17
34 MNK | 3/4 | 000566 | Nestack | Single Notch | M22-34, M220 (250 cap) | .750 | 19.0 | 3,000 | 37 | 17
34 MNT | 3/4 | 000755 | Nestack | Triple Notch | M30-34, M40-34, M200 (250 cap) | 1,500 | 38.1 | 2,400 | 46 | 22
114 M | 1-1/4 | 3/8 | 000561 | Nestack | Single Notch | M361 | 2.00 | 50.8 | 750 | 42 | 19

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

### Table: Signode Hand Tensioners

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Strap Size</th>
<th>Strap Type</th>
<th>Strap Finish</th>
<th>Mech. Wt</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feedwheel tensioners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST</td>
<td>003480</td>
<td>3/8–3/4 inch</td>
<td>0.017–0.023 inch</td>
<td>Apex Plus, Magnus</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>T</td>
<td>003450</td>
<td>5/8–3/4 inch</td>
<td>0.017–0.035 inch</td>
<td>Apex Plus, Magnus</td>
<td>18</td>
<td>5</td>
</tr>
<tr>
<td>TH-34-114</td>
<td>029500</td>
<td>3/4–1-1/4 inch</td>
<td>0.029–0.035 inch</td>
<td>Magnus</td>
<td>25</td>
<td>7</td>
</tr>
<tr>
<td>Push-type feedwheel tensioners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PF</td>
<td>017900</td>
<td>3/8–3/4 inch</td>
<td>0.017–0.023 inch</td>
<td>Apex Plus, Magnus</td>
<td>18</td>
<td>4</td>
</tr>
<tr>
<td>PFH</td>
<td>017930</td>
<td>3/4–1-1/4 inch</td>
<td>0.025–0.035 inch</td>
<td>Apex Plus, Magnus</td>
<td>23</td>
<td>7</td>
</tr>
<tr>
<td>Windlass tensioners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4A1-114</td>
<td>184125</td>
<td>1-1/4 inch</td>
<td>0.029–0.050 inch</td>
<td>Magnus</td>
<td>28</td>
<td>12</td>
</tr>
<tr>
<td>4A1-2</td>
<td>184140</td>
<td>2 inch</td>
<td>0.044–0.050 inch</td>
<td>Magnus</td>
<td>33</td>
<td>16</td>
</tr>
<tr>
<td>Rack-and-pinion tensioners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH-2</td>
<td>010065</td>
<td>3/4–1-1/4 inch</td>
<td>0.017–0.035 inch</td>
<td>Apex Plus, Magnus</td>
<td>22</td>
<td>7</td>
</tr>
</tbody>
</table>
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.

### Regular-duty sealers—front and side-action

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Width</th>
<th>Thickness</th>
<th>Work Position (Action)</th>
<th>Seal Name</th>
<th>Joint Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-3820</td>
<td>008600</td>
<td>3/8</td>
<td>9.5</td>
<td>Front</td>
<td>38 C</td>
<td>Double Notch</td>
<td>3 1.4</td>
</tr>
<tr>
<td>SRC-3820</td>
<td>008626</td>
<td>3/8</td>
<td>9.5</td>
<td>Front</td>
<td>38 SPC</td>
<td>Single Rev. Notch</td>
<td></td>
</tr>
<tr>
<td>C-1223</td>
<td>008605</td>
<td>1/2</td>
<td>12.7</td>
<td>Front</td>
<td>12 C</td>
<td>Double Notch</td>
<td></td>
</tr>
<tr>
<td>SRC-1223</td>
<td>008625</td>
<td>1/2</td>
<td>12.7</td>
<td>Front</td>
<td>12 SPC</td>
<td>Single Rev. Notch</td>
<td></td>
</tr>
<tr>
<td>YC-1223</td>
<td>023860</td>
<td>5/8</td>
<td>15.9</td>
<td>Front</td>
<td>58 C</td>
<td>Double Notch</td>
<td></td>
</tr>
<tr>
<td>SRC-5823</td>
<td>008630</td>
<td>5/8</td>
<td>15.9</td>
<td>Front</td>
<td>58 SPC</td>
<td>Single Rev. Notch</td>
<td></td>
</tr>
<tr>
<td>YC-5823</td>
<td>023858</td>
<td>5/8</td>
<td>15.9</td>
<td>Side</td>
<td>58 C</td>
<td>Double Notch</td>
<td></td>
</tr>
<tr>
<td>C-3423</td>
<td>008615</td>
<td>3/4</td>
<td>19.0</td>
<td>Front</td>
<td>34 C</td>
<td>Double Notch</td>
<td></td>
</tr>
<tr>
<td>SRC-3423</td>
<td>008635</td>
<td>3/4</td>
<td>19.0</td>
<td>Front</td>
<td>34 PNSC</td>
<td>Single Rev. Notch</td>
<td></td>
</tr>
<tr>
<td>YC-1-3425</td>
<td>023875</td>
<td>3/4</td>
<td>19.0</td>
<td>Side</td>
<td>34 C</td>
<td>Double Notch</td>
<td></td>
</tr>
</tbody>
</table>

### Heavy-duty sealers—side-action

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Width</th>
<th>Thickness</th>
<th>Work Position (Action)</th>
<th>Seal Name</th>
<th>Joint Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYC-3431</td>
<td>004040</td>
<td>3/4</td>
<td>19.0</td>
<td>Side</td>
<td>34 HC OF, 34 HDC, 34 SHOC</td>
<td>Single Notch</td>
<td>6 2.7</td>
</tr>
<tr>
<td>RCD-3431</td>
<td>020560</td>
<td>3/4</td>
<td>19.0</td>
<td>Side</td>
<td>34 HDC</td>
<td>Double Notch</td>
<td>7 3.2</td>
</tr>
<tr>
<td>B-1431</td>
<td>020380</td>
<td>1-1/4</td>
<td>31.8</td>
<td>Side</td>
<td>104 DG, 107 DG</td>
<td>Single Crimp</td>
<td>6 2.7</td>
</tr>
<tr>
<td>B-1450</td>
<td>020580</td>
<td>1-1/4</td>
<td>31.8</td>
<td>Side</td>
<td>104 DG, 107 DG, 107 DG OF, 117 HDC OF</td>
<td>Single Crimp</td>
<td>8 3.6</td>
</tr>
<tr>
<td>C-1435</td>
<td>003970</td>
<td>0.029-031</td>
<td>0.74-0.79</td>
<td>Side</td>
<td>114 OF, 114 P</td>
<td>Single Notch</td>
<td>8 3.6</td>
</tr>
<tr>
<td>C-1450</td>
<td>003990</td>
<td>0.029-031</td>
<td>0.74-0.79</td>
<td>Side</td>
<td>114 OF, 114 P</td>
<td>Single Notch</td>
<td>8 3.6</td>
</tr>
<tr>
<td>RC-1435-50</td>
<td>004050</td>
<td>0.029-044</td>
<td>0.74-1.12</td>
<td>Side</td>
<td>114 OF, 114 P</td>
<td>Single Rev. Notch</td>
<td>7 3.2</td>
</tr>
<tr>
<td>RCD-1431</td>
<td>020350</td>
<td>0.029-031</td>
<td>0.74-0.79</td>
<td>Side</td>
<td>208 DG</td>
<td>Single Crimp</td>
<td>12 5.4</td>
</tr>
<tr>
<td>B-250</td>
<td>020330</td>
<td>2</td>
<td>50.8</td>
<td>Side</td>
<td>208 DG</td>
<td>Single Crimp</td>
<td>12 5.4</td>
</tr>
</tbody>
</table>

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

1-800-323-2464
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 11 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 require an air filter and regulator. See page 11 for pneumatic tool accessories.

* Three seals are required per joint.
Combination tools function as tensioners, sealers, and cutters. They save time by eliminating the handling of separate tools.

**Manual seal-feed**

Seal-feed combination tools carry a stack of seals in a magazine for fast, easy loading. 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. Sealless combination tools use interlocking keys to secure the ends of the strap.

**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.

---

**For steel strapping**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Width</th>
<th>Thickness</th>
<th>Strap Size</th>
<th>Strap Type</th>
<th>Seal Name</th>
<th>Joint Type</th>
<th>Weight</th>
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<tr>
<td>AL-38</td>
<td>023380</td>
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<td>0.43-0.51</td>
<td>Apex Plus</td>
<td>38 AL</td>
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<td>AL-12</td>
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<td>0.017</td>
<td>0.43</td>
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<td>5/8</td>
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<td>0.43-0.58</td>
<td>Apex Plus, Magnus</td>
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<tr>
<td>AM-34*</td>
<td>023200</td>
<td>3/4</td>
<td>0.017-0.023</td>
<td>0.43-0.64</td>
<td>Apex Plus, Magnus</td>
<td>34 AMP</td>
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<tr>
<td>AH-114</td>
<td>015700</td>
<td>1-1/4</td>
<td>0.031-0.035</td>
<td>0.79-0.89</td>
<td>Magnus</td>
<td>114 A</td>
<td>DRN**</td>
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</tbody>
</table>

**Manual sealless**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Width</th>
<th>Thickness</th>
<th>Strap Size</th>
<th>Strap Type</th>
<th>Seal Name</th>
<th>Joint Type</th>
<th>Weight</th>
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<tbody>
<tr>
<td>SCM-12</td>
<td>424350</td>
<td>1/2</td>
<td>0.017-0.023</td>
<td>0.43-0.58</td>
<td>Apex Plus, Magnus</td>
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<tr>
<td>SCM-58</td>
<td>424358</td>
<td>5/8</td>
<td>0.017-0.023</td>
<td>0.43-0.64</td>
<td>Apex Plus, Magnus</td>
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<tr>
<td>SCM-34</td>
<td>424343</td>
<td>3/4</td>
<td>0.017-0.025</td>
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<td>Apex Plus, Magnus</td>
<td>3 Key</td>
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<td>SCM-Ti-12</td>
<td>426840</td>
<td>1/2</td>
<td>0.017-0.023</td>
<td>0.43-0.58</td>
<td>Apex Plus, Magnus</td>
<td>3 Key</td>
<td>6.4</td>
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<td>SCM-Ti-58</td>
<td>426845</td>
<td>5/8</td>
<td>0.017-0.023</td>
<td>0.43-0.64</td>
<td>Apex Plus, Magnus</td>
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<td>SCM-Ti-34</td>
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<td>0.43-0.64</td>
<td>Apex Plus, Magnus</td>
<td>3 Key</td>
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<tr>
<td>SCMH-58</td>
<td>424510</td>
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<td>0.020-0.023</td>
<td>0.51-0.58</td>
<td>Apex Plus, Magnus</td>
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<tr>
<td>SCMH-34</td>
<td>424500</td>
<td>3/4</td>
<td>0.023-0.031</td>
<td>0.58-0.79</td>
<td>Apex Plus, Magnus</td>
<td>3 Key</td>
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**Pneumatic sealless**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Width</th>
<th>Thickness</th>
<th>Strap Size</th>
<th>Strap Type</th>
<th>Seal Name</th>
<th>Joint Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLP-12</td>
<td>422350</td>
<td>1/2</td>
<td>0.017-0.023</td>
<td>0.43-0.58</td>
<td>Apex Plus, Magnus</td>
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<td>Apex Plus, Magnus</td>
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<td>422800</td>
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<td>0.017-0.025</td>
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<td>Apex Plus, Magnus</td>
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<tr>
<td>SPC-12</td>
<td>422446</td>
<td>3/4</td>
<td>0.025-0.031</td>
<td>0.64-0.79</td>
<td>Magnus</td>
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<tr>
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<td>423125</td>
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<td>0.64-0.79</td>
<td>Magnus</td>
<td>4 Key</td>
<td>37.6</td>
<td></td>
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</table>

* A conversion kit is available to accommodate 0.031 strapping (Part No. 306815).

**Double Reverse Notch**
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 pressure tensions, seals and cuts the strapping.

Recommended Air Line Piping

Main line
2” diameter minimum, pitched 1/16” per linear foot.

Branch line
3/4” I.D. minimum. Take from the top of main, never from the bottom.

Filter-Regulator-Lubricator
Always install the assembly in the vertical position. Keep the lubricator properly adjusted and filled with oil.

Swivel connector for 10’ air hose for low flow air supply. (Part No. 426903)

Filter bushing (Part No. 024631) Screened bushing reduces airline particles from entering the tool.

Pneumatic accessories

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

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

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

Pneumatic push-type

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Width (inch)</th>
<th>Thickness (inch)</th>
<th>Strap Type</th>
<th>Seal Name</th>
<th>Joint Type</th>
<th>Weight (lbs)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNSC 2-12</td>
<td>422495</td>
<td>1/2</td>
<td>12.7</td>
<td>0.017-0.023</td>
<td>0.43-0.58</td>
<td>SPC</td>
<td>12</td>
<td>5.5</td>
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<tr>
<td>PNSC 2-58</td>
<td>422496</td>
<td>5/8</td>
<td>15.9</td>
<td>0.017-0.023</td>
<td>0.43-0.58</td>
<td>SPC</td>
<td>58</td>
<td>25.9</td>
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<td>PNSC 2-34</td>
<td>422497</td>
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<td>0.017-0.025</td>
<td>0.43-0.64</td>
<td>SPC</td>
<td>34</td>
<td>15.4</td>
</tr>
<tr>
<td>PNSC 2-34HT</td>
<td>422881</td>
<td>3/4</td>
<td>19.0</td>
<td>0.017-0.025</td>
<td>0.43-0.64</td>
<td>SPC</td>
<td>34</td>
<td>15.4</td>
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<tr>
<td>PRHM-34</td>
<td>206700</td>
<td>3/4</td>
<td>19.0</td>
<td>0.025-0.031</td>
<td>0.64-0.79</td>
<td>HOC</td>
<td>Double</td>
<td>16</td>
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<tr>
<td>PRHR-34</td>
<td>424234</td>
<td>3/4</td>
<td>19.0</td>
<td>0.025-0.031</td>
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<td>Single Reverse</td>
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<tr>
<td>PRHR-114</td>
<td>423570</td>
<td>1-1/4</td>
<td>31.8</td>
<td>0.025-0.035</td>
<td>0.64-0.89</td>
<td>HOC</td>
<td>Notch</td>
<td>114</td>
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</tbody>
</table>

Safety lockout valve
Regulator and Filter
Lubricator

Low flow air gauge. (Part No. 425238)
High flow air gauge. (Part No. 429127)
Quick-connect socket for low flow air supply. (Part No. 429134)
Quick-connect plug for low flow air supply. (Part No. 020704)
Quick-connect socket for high flow air supply. (Part No. 015294)
Quick-connect plug for high flow air supply. (Part No. 015293)
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 mounting bracket (WB, Part No. 002817) and ceiling bracket (CB-9, Part No. 002816) are available.

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).

Straptroller Feature
Prevents strap spillage and tangling.

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. Available in a stationary (Part No. 425650) or portable model (Part No. 424700).

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

**For steel strapping**

#### DTR-3

#### 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.

#### 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-troler Feature** | **Portable** | **Tool Tray** | **Height** | **Width** | **Length** | **Dispenser Weight**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
DTR-3 | 164520 | 3/4–2 | 19.0–50.8 | • | • | • | • | 46-1/2 | 118 | 15-1/4 | 387 | 27-1/2 | 699 | 110 | 50
DF-1-10RW | 011442 | 3/8–1-1/4 | 15.9–31.8 | • | • | • | • | 42 | 106 | 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
DF-1-12 | 031317 | 3/8–3/4 | 9.5–19.0 | 32 | 813 | 10 | 254 | 24-1/2 | 622 | 95 | 43 | 36-3/4 | 933 | 12-3/8 | 314 | 47-1/4 | 1200 | 170 | 77
DC-1A | 005720 | 3/4–2 | 19.0–50.8 | • | • | 29 | 737 | 15 | 381 | 32-1/2 | 826 | 97 | 44 | 36 | 914 | 21 | 533 | 52 | 1321 | 450 | 204
DPCL | 083001 | 3/8–2 | 9.5–50.8 | • | • | 36 | 914 | 21 | 533 | 52 | 1321 | 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

BFL-13
Part No. 306809*
9-13 lbs. (4.1-5.9 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

EB2500R
Part No. 485001*
18-25 lbs. (8.2-11.4 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

EB4500R
Part No. 485003
35-45 lbs. (15.9-20.5 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

EB2500R
Part No. 485001*
18-25 lbs. (8.2-11.4 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

EB4500R
Part No. 485003
35-45 lbs. (15.9-20.5 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

EB3500R
Part No. 485002
25-35 lbs. (11.3-15.9 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

EB2500R
Part No. 485001*
18-25 lbs. (8.2-11.4 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

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

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: 76"H (1930mm), 48" (1219mm) front to back
Package size: 3/8" x .017" to 3/4" x .031" (9.5mm x 0.43mm to 19mm x 0.79mm)
Steel strapping: Tenax® 1716, 1718, 1816, 1818, 1822, 2030, 2040 Contrax® HD 723, HD 729, 816, 818
Plastic strapping: DF-23, DF-1-12D
Motor: 1/4 hp (.1864 KW), 1140 RPM, 115V, single phase, 60Hz
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 0.79 mm). 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 0.89 mm). 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 0.89 mm). 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 1.27 mm). Shipping weight: 8 lbs. (3.6 kg). Available with extra long handles; Part No. 0X1528; for 2" x 0.050".

Anti-skid plates
Anti-skid plates are simple, inexpensive devices that minimize 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 x 127.0 mm). Standard pack: 125 pcs., 36 lbs. (16.3 kg).

No. 2, Part No. 001999
Used beneath pallets or skids in trailers or railcars. For lighter loads. Diameter: 1-3/8" (34.9 mm). Standard pack: 2500 pcs., 43 lbs. (19.5 kg).

Digital tension meter for plastic and steel strapping

The Tensiometer is easy to operate and provides instant tension values for polyester or steel strapping without table conversions.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Tension Range lbs.</th>
<th>Strap Thickness - inch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>5-250</td>
<td>Polyester: 0.012-0.026 (0.30-0.66)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25-500</td>
<td>Steel: 0.017-0.040 (0.43-1.02)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100-2,000</td>
<td>Polyester: 0.020-0.055 (0.51-1.40)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Steel: 0.017-0.44 (0.43-1.12)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Color</th>
<th>Composition</th>
<th>Strap Width</th>
<th>Length</th>
<th>Width</th>
<th>Thickness</th>
<th>Standard</th>
<th>Package</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF-11*†</td>
<td>001261</td>
<td>Metallic Steel</td>
<td>3/4</td>
<td>19.0</td>
<td>5/8</td>
<td>15.9</td>
<td>4</td>
<td>101.6</td>
<td>0.031</td>
<td>0.79</td>
</tr>
<tr>
<td>MF-12*†</td>
<td>001263</td>
<td>Metallic Steel</td>
<td>1-1/4</td>
<td>31.8</td>
<td>2</td>
<td>50.8</td>
<td>2-3/4</td>
<td>69.9</td>
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<td>0.76</td>
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<td>31.8</td>
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<td>50.8</td>
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<td>50.8</td>
<td>2-3/4</td>
<td>69.9</td>
<td>0.030</td>
<td>0.76</td>
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<td>PL1</td>
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<td>31.8</td>
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<td>0.093</td>
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<td>50.8</td>
<td>2-3/4</td>
<td>69.9</td>
<td>0.093</td>
</tr>
</tbody>
</table>

*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).

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Strap Width</th>
<th>Plate Dimensions</th>
<th>Standard</th>
<th>Shipping Weight</th>
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</thead>
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<tr>
<td></td>
<td>001294B</td>
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<td>31.8</td>
<td>4 x 2 x 1/8</td>
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</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Strap Width</th>
<th>Plate Dimensions</th>
<th>Standard</th>
<th>Shipping Weight</th>
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<td>2 x 6 x 0.134</td>
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</table>
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.

<table>
<thead>
<tr>
<th>Strap Name</th>
<th>Standard Color</th>
<th>Part Number</th>
<th>Strap Width</th>
<th>Average Strength</th>
<th>Approximate Length per Coil</th>
<th>Core Size Inside Dia.</th>
<th>Approx. Coil Outside Dia.</th>
<th>Core Size Outside Dia.</th>
<th>Coil Weight lbs</th>
<th>Standard Package Coils/Pallet</th>
<th>Strapping Application Methods</th>
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</tbody>
</table>

Notes:
- 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.

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.

<table>
<thead>
<tr>
<th>Strap Name</th>
<th>Standard Color</th>
<th>Part Number</th>
<th>Strap Width</th>
<th>Average Strength</th>
<th>Approximate Length per Coil</th>
<th>Core Size Inside Dia.</th>
<th>Face Width</th>
<th>Approx. Coil Outside Dia.</th>
<th>Coil Weight lbs</th>
<th>Standard Package Coils/Pallet</th>
<th>Strapping Application Methods</th>
</tr>
</thead>
<tbody>
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<td>White</td>
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<td>1,557</td>
<td>9,900</td>
<td>3,020</td>
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<td>229</td>
<td>8</td>
<td>203</td>
</tr>
</tbody>
</table>

Notes:
- 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.
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.

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.
Strapping & Seal Kits

For plastic strapping

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

*Use with a DLT tensioner is recommended.

Seals & Buckles

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 an 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.

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.

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

<table>
<thead>
<tr>
<th>Seal Name</th>
<th>Strap Size</th>
<th>Part Number</th>
<th>Seal Type</th>
<th>Tool Name</th>
<th>Seal Length</th>
<th>Standard Package</th>
<th>Approx. Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Snap-on</td>
<td>D-504</td>
<td>3/4</td>
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## Manual Tensioners & Sealers

For plastic strapping

### 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).

### 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.

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

### 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.

---

### Tables

#### Model DLT

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#### Model STD, PT-16, PT-19, PT-25, PT-32

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#### Model WHD, WHD-34

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dymax</th>
<th>Contrax</th>
<th>Tenax</th>
<th>Description</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>257400</td>
<td>502, 504, 506, 508</td>
<td>816, 818</td>
<td>1816, 1818, 1822, 2030, 2040</td>
<td>Windlass with cutter</td>
<td>9</td>
</tr>
<tr>
<td>425380</td>
<td>—</td>
<td>—</td>
<td>2220, 2225</td>
<td>Windlass with cutter</td>
<td>9</td>
</tr>
</tbody>
</table>

#### Model STD, PT-16, PT-19, PT-25, PT-32

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dymax</th>
<th>Contrax</th>
<th>Tenax</th>
<th>Description</th>
<th>Shipping Weight</th>
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<tr>
<td>257080</td>
<td>502, 504, 506, 508</td>
<td>814, 816, 818</td>
<td>1816, 1818, 1822</td>
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<tr>
<td>426355</td>
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<td>2030, 2040</td>
<td>Front Action</td>
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<tr>
<td>426350</td>
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<td>2220, 2225</td>
<td>Side Action</td>
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<td>427445</td>
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<td>427600</td>
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<td>426060</td>
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<td>426040</td>
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<td>2220, 2225</td>
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#### Model WHD, WHD-34

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Dymax</th>
<th>Contrax</th>
<th>Tenax</th>
<th>Description</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>257400</td>
<td>502, 504, 506, 508</td>
<td>816, 818</td>
<td>1816, 1818, 1822, 2030, 2040</td>
<td>Windlass with cutter</td>
<td>9</td>
</tr>
<tr>
<td>425380</td>
<td>—</td>
<td>—</td>
<td>2220, 2225</td>
<td>Windlass with cutter</td>
<td>9</td>
</tr>
</tbody>
</table>

---

**Contact:**

1-800-323-2464
Combination strapping tools

Combination tools function as tensioners, sealers and cutters. They save time by eliminating the handling of separate tools. Seal-feed combination tools carry a stack of seals in a magazine for fast, easy loading. Sealless combination tools use friction to weld the strap ends together, creating a secure joint.

Pneumatic Friction-weld

The model VT-10 and VT-13 combination tools apply Contrax, Dymax and Tenax strapping. Strap ends are joined with Signode’s patented 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.

Manual

The AMT-58 is the ideal manual tool for 5/8" (16mm) High-Strength Tenax strapping.

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

High-Strength Tenax strapping tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Strapping Type</th>
<th>Seal</th>
<th>Joint Type</th>
<th>Applied Tension</th>
<th>Description</th>
<th>Shipping Weight</th>
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<tbody>
<tr>
<td>AMT-58</td>
<td>306930</td>
<td>High-Strength Tenax 2030, 2040</td>
<td>58 AMT</td>
<td>Crimp</td>
<td>400 lbs</td>
<td>Manual</td>
<td>14</td>
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<tr>
<td>VT-Brick</td>
<td>424766</td>
<td>High-Strength Tenax 2030, 2038</td>
<td>None</td>
<td>Friction-weld</td>
<td>600 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
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<tr>
<td>VTI-16</td>
<td>427110</td>
<td>High-Strength Tenax 2030, 2040</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
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<tr>
<td>VTI-19</td>
<td>427093</td>
<td>High-Strength Tenax 2220, 2225</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
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<tr>
<td>VT-25</td>
<td>429788</td>
<td>High-Strength Tenax 2480, 10050</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
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<tr>
<td>VT-16HD</td>
<td>421260</td>
<td>High-Strength Tenax 2030, 2040, 2040H</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
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<tr>
<td>VT-19HD</td>
<td>426160</td>
<td>High-Strength Tenax 2220, 2225</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
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<tr>
<td>VT-25HD</td>
<td>425982</td>
<td>High-Strength Tenax 2480, 10050</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
</tr>
<tr>
<td>VT-32HD</td>
<td>428225</td>
<td>High-Strength Tenax 2625, 2680</td>
<td>None</td>
<td>Friction-weld</td>
<td>800 lbs</td>
<td>Pneumatic</td>
<td>10.5</td>
</tr>
</tbody>
</table>

For additional information on our products and services, please go to www.signode.com 1-800-323-2464
Battery-Operated Friction-weld

The BXT2 combination tool applies polypropylene or polyester strapping, utilizing friction weld joint technology to join the strap ends. An automatic weld function speeds up cycle time. Used together, the PT tensioner and BTS sealer are ideal for tensioning and joining strap ends in outdoor or harsh environments.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Strap Type</th>
<th>Joint Type</th>
<th>Applied Tension</th>
<th>Description</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BXT2-16</td>
<td>428340</td>
<td>Contrax, Tenax</td>
<td>Friction-weld</td>
<td>Up to 550 lbs.</td>
<td>Battery</td>
<td>9</td>
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<tr>
<td>BXT2-19</td>
<td>428350</td>
<td></td>
<td>Friction-weld</td>
<td>Up to 880 lbs.</td>
<td>Battery</td>
<td>9.3</td>
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<tr>
<td>BTS-16/PT-16 COMBO</td>
<td>427100</td>
<td></td>
<td>Friction-weld</td>
<td>Up to 800 lbs.</td>
<td>Battery (BTS)</td>
<td>6.8</td>
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<tr>
<td>BTS-19/PT-19 COMBO</td>
<td>427101</td>
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<td>Friction-weld</td>
<td>Up to 800 lbs.</td>
<td>Battery (PT)</td>
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<tr>
<td>BTS-25/PT-25 COMBO</td>
<td>427102</td>
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<td>Friction-weld</td>
<td>Up to 800 lbs.</td>
<td>Battery</td>
<td>4.4</td>
</tr>
</tbody>
</table>

*The BTS and PT tools can be ordered separately.*

Dispensers

For plastic strapping

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

DF-16A
Designed for use with polyester strapping.

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

PSD-109
For power equipment. Available in left or right-handed models.

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

<table>
<thead>
<tr>
<th>Strap Dispenser Model</th>
<th>Part Number</th>
<th>Strap Size</th>
<th>Straptroller</th>
<th>Portable</th>
<th>Tool Tray</th>
<th>Height</th>
<th>Width</th>
<th>Length</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>DD-1A</td>
<td>024520</td>
<td>7/16–1/2</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>41</td>
<td>1</td>
<td>1041</td>
<td>12</td>
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<tr>
<td>DF-16A</td>
<td>422300</td>
<td>3/8–3/4</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>38</td>
<td>1</td>
<td>965</td>
<td>18</td>
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<tr>
<td>DF-1-12D</td>
<td>031318</td>
<td>3/8–3/4</td>
<td>9–19.0</td>
<td>•</td>
<td>•</td>
<td>36-3/4</td>
<td>9</td>
<td>933</td>
<td>12-1/2</td>
</tr>
<tr>
<td>PSD-109 Left-hand</td>
<td>480171</td>
<td>3/8–3/4</td>
<td>9–19.0</td>
<td>•</td>
<td>•</td>
<td>44-1/2</td>
<td>1</td>
<td>1300</td>
<td>15</td>
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<tr>
<td>PSD-109 Right-hand</td>
<td>480172</td>
<td>3/8–3/4</td>
<td>9–19.0</td>
<td>•</td>
<td>•</td>
<td>44-1/2</td>
<td>1</td>
<td>1300</td>
<td>15</td>
</tr>
<tr>
<td>DO-3D</td>
<td>024500</td>
<td>3/8–3/4</td>
<td>9–19.0</td>
<td>•</td>
<td>•</td>
<td>31</td>
<td>7</td>
<td>787</td>
<td>6-3/4</td>
</tr>
</tbody>
</table>

Pneumatic accessories

See page 11 for additional fittings.

A filter-regulator-lubricator (FRL) assembly (Part No. 429141, with hose) or (Part No. 429130, without hose) is needed with all pneumatic tools. Additional fittings and air hoses are available from Signode to help provide optimum operation. Please contact your local Signode sales representative for more information on the proper fittings for your specific tool.

Recommended air hose for pneumatic tools: 10’ x 1/2” (3.0 m x 12 mm) i.d. (Part No. 429145).

Note: Use lightweight, non-detergent oil in lubricator, such as Non-Fluid Oil No. LS-1236 (Part No. 008556) or equivalent.
Power Application 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: Signode Contrax® polypropylene strapping 5mm, 6mm.
Tabletop height: 34" (865mm).

Machine dimensions: 33-1/2" L x 22" W x 30-3/4" H (851mm W x 559mm W x 781mm H, adj. to 953mm).

Electrical: 120 VAC, 1 phase, 60Hz.
Shipping weight: 540 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, 1 phase, 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:

<table>
<thead>
<tr>
<th>W</th>
<th>lb</th>
<th>in</th>
<th>lb</th>
<th>in</th>
<th>lb</th>
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<tr>
<td>16**</td>
<td>405</td>
<td>15</td>
<td>510</td>
<td>20</td>
<td>510</td>
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<td>510</td>
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<td>510</td>
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<td>20</td>
<td>710</td>
<td>28</td>
<td>710</td>
<td>30</td>
<td>760</td>
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<td>1220</td>
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</tr>
<tr>
<td>H</td>
<td>10**</td>
<td>255</td>
<td>15</td>
<td>380</td>
<td>20</td>
<td>510</td>
<td>48</td>
<td>1220</td>
<td>48</td>
<td>1220</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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: 120 VAC, 3 phase voltage optional.

Shipping weight: 600 lbs.

** Available on semiautomatic models only.
MH-VRB

Semiautomatic Side Seal Strapping System

The MH-VRB side seal plastic strapping machine provides 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 MH-VRB series strapping machines simplify operation and maintenance. In addition to the standard MH-VRB models, the MH-VRB series includes specialized models for corrosion resistance in damp environments, oversized products and for small, irregular packages.

Specifications
- Chute size: Contact your Signode Sales representative for chute sizes.
- Minimum load height: 47” (including pallet).
- Strapping: Signode 9mm or 10.5mm polypropylene or polyester strapping.
- Strap tension: Adjustable from 17 lbs. to 200 lbs.
- Electrical: 400 volt, 3 phase, 50 Hz
- Shipping weight: 1,320 lbs.

HBX-4300/4330

Automatic and Semiautomatic Strapping Systems

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. In addition to the standard HBX models, the HBX Series line includes specialized models for corrosion resistance in damp environments, oversized products and for small, irregular packages.

Made in the U.S.A.
- Jam-resistant technology
- Bi-directional strap loading
- Automatic cut-off and refeed option
- Fully accessible strap path
- Lubrication-free operation
- High tension

Cycle rate: Up to 50-70 straps per minute. Actual rate will vary depending on package size, chute size and operator dexterity.

Specifications
- Small frame – chute inner dimensions:
  - W: 16" 406 17 430 28 710 33 840 48 1220
  - H: 10" 255 20 510 30 760 30 760 46 1220

- Large frame – chute inner dimensions:
  - W: 60 1524 90 2285
  - 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.
- 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.

HB-4310

Side Seal Strapping System

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.)

Specifications
- Chute inner dimensions:
  - Small chute
    - W: 24 610 36 914
    - H: 24 610

- Medium chute
  - W: 48 1219
  - H: 60 1524

- Large chutes
  - W: 60 1524
  - H: 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 9 mm or 10.5 mm polypropylene strapping.
- Strap tension: Adjusted up to 250 lbs.
- Electrical: Standard: 120 volt, 60 Hz; 3 phase voltage optional.
- Shipping weight: 700-950 lbs.
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 1,150 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.

MHG Signature Bundling Machine

The MHG Signature Bundling Machine is simpler to operate and maintain than any other signature bundling system currently on the market. The MHG combines fewer parts with a streamlined design to help lower maintenance costs and improve signature quality. Easily adaptable to your stacker specifications as a self-contained unit with a moveable cart or a bolt-on unit with adapter plates.

- Accommodates vertical or horizontal applications
- Custom chute sizes available
- Fully accessible strap path
- Two position strap dispenser
- Modular head technology

Specifications

Minimum center to center: 8.5”

Minimum package size: 15”

Feed rate: 12 feet per second

Module Weight: Feeder module: 20 lbs
Sealer module: 30 lbs

Tension: Up to 30 lbs.

Strapping: 7/16 or 1/2” polyester or polypropylene

Electrical: 208, 230, 400, 440, 460 or 480 volt; 3 phase, 50/60Hz; 575 volt, 3 phase, 60Hz optional

Shipping weight: Dependent on unit configuration

Signode’s MOD-710 and MHG both feature our modular head, quick-change technology consisting of separate feed and seal modules. These lightweight, compact modules are easy to access and can be changed out quickly for routine maintenance. When switching to a spare module, downtime can be limited to a matter of minutes.

MOD-710 feed and seal modules

- Easy to operate
- Less downtime
- Fewer moving parts
- No belts, pulleys or adjustments

MHG feed and seal modules
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.

Loaded with productivity enhancing features, the LBX-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.

- Three-belt tabletop
- Pop-up bundle diverter
- Ultra low strap tension
- Quick make-ready time
- Automatic cut-off and refeed option
- Strap feed from either direction
- Easy maintenance
- Fully accessible strap path

**Specifications**

- **Bundle size:**
  - Minimum: 5" W x 7" L
  - Maximum: 18" W x 18"L
  - Height: Up to 14-1/2"
- **Cycle rate:** Up to 42 straps per minute.
- **Conveyor speed:** 50-150 ft per minute
- **Chute size:** 20" W x 15" H
- **Strapping:** 5mm or 6mm polypropylene strapping.
- **Compression:** Up to 120 lbs. at 90 psi
- **Conveyor height:** Adjustable, 26" to 39"
- **Optional height kit:** 40" to 54"
- **Electrical:** 230 volts, 60Hz, FLA 4.7 amp; 460 volts, 60Hz FLA 2.3 amp.
- **Shipping weight:** 950 lbs.
Economic Evaluation Summary

Customer ____________________________ Date ____________________________

**Annual Costs**

<table>
<thead>
<tr>
<th>Package container costs (if applicable)</th>
<th>Present</th>
<th>Proposed</th>
</tr>
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<tbody>
<tr>
<td>a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
<td></td>
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<td>d.</td>
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<table>
<thead>
<tr>
<th>Reinforcement/closure cost</th>
<th>Present</th>
<th>Proposed</th>
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<tbody>
<tr>
<td>a.</td>
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<tr>
<td>b.</td>
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<tr>
<td>c.</td>
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<tr>
<td>d.</td>
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<table>
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<tr>
<th>Labor cost</th>
<th>Present</th>
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</tr>
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<tbody>
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<td>a.</td>
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<tr>
<td>b.</td>
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<td>c.</td>
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<td>d.</td>
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<table>
<thead>
<tr>
<th>Other costs</th>
<th>Present</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
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<tr>
<td>b.</td>
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<td>c.</td>
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<tr>
<td>d.</td>
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</table>

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 (Line 2 divided by line 6) ____________ Years

Comments: __________________________________________________________

__________________________________________________________________

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