CUSTOM-ENGINEERED BELLOWS SINCE 1960

WHAT PURPOSE DO BELLOWS SERVE?
The most common function of a bellows is to extend the life of your valuable equipment by keeping out contaminants, such as abrasive particles and metal chips. Other purposes include:

• Covering pinch points
• Air flow or ducting
• Concealing mechanical parts for aesthetic purposes
• A flexible seal between two joints with relative movement

FLAT/BOX STYLE BELLOWS (LINEAR RAILS, WAY PROTECTION, SCREEN-TYPE BARRIERS, ETC.)

ENCLOSED-SHAPE BELLOWS (SCREW COVERS, BOOTS, SEALS, MECHANICAL LIFT ENCLOSURES, DUCTING, ETC.)

HOW TO REQUEST A QUOTE
If you are sending in an old bellows to be quoted, please contact Dynatect for a Material Authorization # (RMA). For new designs, visit DYNATECT.COM/BELLOWS-QUOTE, where we have provided a quote request form for each common shape. In general, here are some design considerations:

• What's the shape? (see above)
• Machine make and model?
• What are the environmental conditions? (temperature, exposure, liquids)
• What are the motion requirements? (speed, duty cycle)
• What are your parameters for extended length, retracted length, and travel distance?
• Direction of movement (horizontal/vertical)?
• Are there any space obstructions?
• Dimensions of the bellows (if replacing) or of the surface/part to be covered (if new)
• What type of mounting do you need?
BELLOWS APPLICATIONS

Dynatect’s line of custom-engineered bellows provides a wide choice of materials and manufacturing methods. Dynatect can recommend a solution tailored to your particular application and requirements. Dynatect has designed bellows for countless applications, including:

- Machine way and ball screw protection
- Laser bellows
- Cameras and imaging equipment
- Tilt or medical lift table
- Lab and metrology equipment
- Shift/ joystick boots
- Transportation bellows
- Medical bellows

Outdoor Environment (moisture, heat, freezing, UV, ozone, dirt)

Long Travel (Example: Vertical Machining Center)

Large Size or Long Lengths

Medical Devices

High Speeds/Acceleration (Example: Water Jet CNC Cutting System)

Weld Spatter or Elevated Temperatures

Light or Indirect Abrasives

Shear/Tilt/Lateral Movement

Laser Beam Path

Chemical, Oil or Coolant Resistance

Air Ducting (exhaust, ventilation)

Mechanical or Scissors Lift

Light-Tight Bellows
## Bellow Overview

<table>
<thead>
<tr>
<th>Bellow Type</th>
<th>Description</th>
<th>Key Advantages</th>
</tr>
</thead>
</table>
| Gortiflex® Bellow | • Constructed from a tube of elastomer or elastomer-coated fabric formed into a sealed cover | • Excellent extended-to-retracted ratio for a molded cover  
• Pressure compensating components can be added to withstand moderate internal or external pressure  
• Resists moisture, liquid or chemical spray, contaminants and dirt  
• Suitable for outdoor environments with exposure to moisture, ice, sand, oil, temperature variations and ultraviolet radiation |
| Sewn Bellow | • Made from heavy-duty elastomer-coated fabric stitched with nylon or specialty thread | • Low cost protection from dust, dirt and other contaminants  
• Flexible process – almost any size and configuration can be sewn  
• Widest material selection available  
• Economical even in low quantities  
• Round, sewn bellows can ship within one business day using our expedited ordering system |
| Heat Sealed Bellow | • Manufactured from a single sheet of thermoplastic-coated fabric, which is pleated and then thermically welded to a PVC stiffener at every fold  
• Stiffener profile can be made to match any way or rail geometry | • No stitch holes, seams or breaks  
• Cover retains shape throughout travel  
• Attractive, clean, uniform appearance  
• Excellent protection for linear bearings and other precision equipment  
• Ideal for applications requiring very large or rigid covers |
| Gordillo™ Steel-Clad Bellow | • A sewn-folded or heat sealed way cover made with stainless steel plates covering each convolution  
• Steel plates shield the bellows from hot chips that quickly damage a conventional bellows | • Added protection against hot chip loads and weld spatter  
• Smaller footprint and extended-to-retracted ratio versus telescoping covers |

**No tooling fee for standard shapes**

**Ask us about stock round bellows**

For quote forms, go to dynatect.com/bellow-quote

Looking for something else? Contact Dynatect to discuss additional capabilities (such as molded bellows).
## BELLOWS OVERVIEW

<table>
<thead>
<tr>
<th>BELLOWS TYPE</th>
<th>DESCRIPTION</th>
<th>KEY ADVANTAGES</th>
</tr>
</thead>
</table>
| **SEWN-FOLDED BELLOWS** | • Manufactured from a single sheet of thermoplastic-coated or elastomer-coated fabric, which is pleated and then sewn to a PVC stiffener at every fold  
• Stiffener profile can be made to match any way or rail geometry | • Cover shape is maintained throughout range of motion  
• Excellent protection for linear bearings and other precision equipment  
• Ideal for applications requiring very large or rigid covers  
• Diverse material selection including thermoset elastomer coated materials that cannot be welded |
| No tooling fee | | |
| **FOLDED BELLOWS** | • Constructed out of multiple layers of elastomer or thermoplastic materials, folded to the final shape | • Completely sealed from light, air and dirt  
• Ideal for high-cycle and high-speed operation  
• Withstands moderate internal or external pressure  
• Can be tapered, including offset configurations |
| No tooling fee | | |
| **THERMISEAL BELLOWS** | • Made from polyurethane films or polyurethane-coated fabrics bonded together by thermic weld process | • Attractive, clean, uniform appearance  
• Completely sealed cover  
• Lightweight construction  
• Excellent extended-to-retracted ratio  
• Generates minimal airborne particles  
• Air-, dust- and liquid-tight  
• Suitable for high cycles and high-speed movement |
| | | |
| **VULCA-SEAL® BELLOWS** | • Made from separate sections of material joined by vulcanizing alternating seams to form convolutions | • Sealed PTFE options are available for harsh environments  
• Long life in abrasive environments  
• Withstands moderate internal or external pressure  
• Attractive, clean, uniform appearance – no stitch holes, seams or breaks  
• Custom designed to match any rail or way profile |
| No tooling fee | | |

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**FOR QUOTE FORMS, GO TO DYNATECT.COM/BELLOWS-QUOTE**

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## BELLOWS OVERVIEW

<table>
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<tr>
<th>BELLOWS TYPE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FLEXIBLE TRANSPORTATION DUCTING</td>
<td>• Specialized designs for traction motor ventilation, cable and HVAC ducting</td>
<td>• Longer life and low maintenance – Durable, abrasion-resistant and high-elasticity materials available to meet regulatory compliance for flame, smoke, and toxicity (NFPA 130, EN45545)</td>
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<tr>
<td></td>
<td></td>
<td>• Optimal design for your application – material and features matched to your specific requirements</td>
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<td></td>
<td></td>
<td>• Integrated pressure compensating components accommodate multi-axial, high-shear motion to maintain shape and airflow</td>
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<td></td>
<td></td>
<td>• Integrated mounting seals maintain air and water-tight construction</td>
</tr>
<tr>
<td>BUS/LIGHT RAIL BELLOWS</td>
<td>• Manufactured from a variety of materials including pure elastomers, elastomer coated fabrics, urethane coated fabrics, and PVC coated fabrics</td>
<td>• Materials selected on basis of environmental conditions and regulatory requirements such as flame, smoke and toxicity</td>
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<tr>
<td></td>
<td></td>
<td>• Designed to withstand continuous flexing, outdoor weather, and UV</td>
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<td>• Over 40 years of experience in the transportation sector</td>
</tr>
<tr>
<td>MACHINE ROOF COVER BELLOWS</td>
<td>• The bellows’ folds are made of translucent, high-strength material and attached to lightweight support beams with low-friction glide blocks and precision bearings</td>
<td>• Reduce noise and trap dust from machining of carbon fiber, wood and other materials</td>
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<td></td>
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<td>• Large self-supporting span with minimal deflection</td>
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<td>• Low friction and energy efficient, bellows glides with machine</td>
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<td>• Designed to glide on a rail, such as CNC gantry machines</td>
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<td></td>
<td>• Convenient alternative to dust hoods that may interfere with movement</td>
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<td></td>
<td></td>
<td>• Great extended to retracted ratio of 10:1 or better</td>
</tr>
<tr>
<td>PIPING PENETRATION SEALS</td>
<td>• Tapered cone or bellow style boot manufactured of durable, elastomer-coated fabrics with a built-in zipper</td>
<td>• Specially designed for sealing process piping used in power or chemical plants.</td>
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<tr>
<td></td>
<td></td>
<td>• Accommodates harsh environmental conditions</td>
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<tr>
<td></td>
<td></td>
<td>• Withstands relative movement (lateral/axial) between joints</td>
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<tr>
<td></td>
<td></td>
<td>• Fire tested designs per ASTM E-119-73*</td>
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<tr>
<td></td>
<td></td>
<td>• Zippered for easy installation</td>
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<tr>
<td></td>
<td></td>
<td>• Made to accommodate any size pipe and sleeve size</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Excellent UV, ozone and weathering resistance</td>
</tr>
</tbody>
</table>

*See complete details on page 8.

FOR QUOTE FORMS, GO TO DYNATECT.COM/BELLOWS-QUOTE
# BELLOWS OVERVIEW

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</tr>
</thead>
</table>
| HIGH TEMP BELLows    | • Constructed from a tube of robust, high-temperature material mechanically formed into final shape | • Exceptionally durable, long service life  
• High tensile strength, cut and tear resistance  
• High temperature resistance (up to 900° C radiant heat, depending on materials. See website for details.)  
• Resistance to UV, ozone, and acid or basic chemicals  
• PTFE coatings available for harsh environments |
| DIP-MOLDED BELLows   | • Made by dipping a low-cost tool into a bath of PVC plastisol  
• Standard colors: black, grey, white | • Neat, clean appearance  
• Can be immersed to create sections of varying durometer  
• Single- or two-color immersion possible  
• Available in almost any geometry  
• Low cost protection against water, oil, dust  
• Excellent UV and ozone resistance  
• Both small and large production runs |
| GORFRAME® WIREFRAME  | • Fabricated from a sheet of material attached to a wire frame support structure | • Accommodates difficult motion including lateral/shear movement  
• Available in any width, length, or vertical travel  
• Suitable for washdown, air ducting, and clean room applications  
• Specialty materials to meet UL burn standards or incorporate anti-microbial agents |
| LIFTGARD® LIFT TABLE COVER | • Constructed of aluminum extrusions shaped to provide structure and strength to folded PVC/nylon  
• Standard design includes zipper and corner venting to accommodate rapidly rising and descending lifts | • Quick and easy to install – pre-assembled covers are folded for shipping, then easily unfolded for assembly – no need to insert steel rods  
• Aluminum frame provides rigid support structure  
• Improved appearance over stitched skirts (no loose threads, no rusty protruding rods)  
• Design can be modified for special applications including washdown  
• Branded options and custom colors available |

For quote forms, go to dynatect.com/bellows-quote

Kevlar® is a registered trademark of E.I. du Pont de Nemours and Co.

Looking for something else? Contact Dynatect to discuss additional capabilities (such as molded bellows).
PIPING PENETRATION SEAL | BELLLOWS/FABRIC COVER

DESIGNED FOR POWER PLANTS, REFINERIES AND CHEMICAL PLANTS

Gortiseal™ piping penetration seals provide a flexible method of sealing process piping. They have been effectively used in nuclear and conventional power plants, refineries, and chemical plants. These seals allow lateral and axial pipe movement of up to several inches. A built-in zipper permits easy installation. An air flap seal overlaps the zipper and may be sealed with silicone for additional sealing. (Non-zippered designs are available.)

Features/Benefits:
- Fire tested designs per ASTM E-119-73 in accordance with American Nuclear Insurers (ANI) Standards*
- Bellows and cone-type designs to allow lateral and axial movement
- Zippered for easy installation
- Excellent UV, ozone and weathering resistance

*Silicone coated fiberglass without insulated annular space or Goralon with specific insulated annular space requirements. Contact Dynatect for details.

Applications:
- Help maintain pressure differentials between rooms
- Help prevent water/air leakage through wall, floor, and roof openings

Standard Sizes (lengths):
Applies to both bellows and cone type Gortiseal boots. Custom sizes available.
- Size S: Designed for 6” installed length up to +/- 2” lateral and axial movement
- Size M: Designed for 6” installed length up to +/- 4” lateral and axial movement
- Size L: Designed for 6” installed length up to +/- 6” lateral and axial movement

HOW TO SPECIFY (Please specify in inches)

Specify any FR requirements: _____________________________________________
C – Installed (typically 6”) ______________________________________________
E – Sleeve O.D. or Hole Dia. (wall end) ______________________________________
F – Pipe or Insulation O.D. ________________________________________________
G – Axial Movement ____________________________________________________
H – Lateral Movement ___________________________________________________
Type:  □ Bellows     □ Cone    □ Bellows Cone
       # of Peaks _______    # of Peaks _______    # of Peaks _______ to _______
Collar Taper _________ to _________

Note: Seal dimensions provided by Dynatect based on your inputs.
GORTIFLEX® DIE SET SHIELDS | BELLOWS

Gortiflex die set shield bellows protect ball bushings or standard die sets against dirt, dust, scrap and scale. They are packaged conveniently for easy ordering and fast shipment. Die shields are available in sizes to cover pins from 3/4” to 2-1/2” diameter. Die set shields are manufactured from heavy-duty, oil-resistant, Goralon® material. Each set has 2 bellows, 2 clamps and 2 back-up plates for easy installation.

**STYLES**

<table>
<thead>
<tr>
<th>PIN DIAMETER</th>
<th>STANDARD FRICTION SHOULDER BEARINGS</th>
<th>BALL BUSHING BEARINGS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SHOULDER</td>
<td>SLEEVE</td>
</tr>
<tr>
<td>3/4&quot;, 7/8&quot;</td>
<td>DSA</td>
<td>DSA</td>
</tr>
<tr>
<td>1&quot;, 1-1/8&quot;</td>
<td>DSB</td>
<td>DSA</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>DSC</td>
<td>DSB</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>DSD</td>
<td>DSC</td>
</tr>
<tr>
<td>1-3/4&quot;</td>
<td>DSE</td>
<td>DSD</td>
</tr>
<tr>
<td>2&quot;</td>
<td>DSF</td>
<td>DSE</td>
</tr>
<tr>
<td>2-1/2&quot;</td>
<td>DSG</td>
<td>DSF</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

<table>
<thead>
<tr>
<th>DIE SET SHIELD STYLE</th>
<th>BELLOWS I.D.</th>
<th>BELLOWS O.D.</th>
<th>MAX. LENGTH</th>
<th>MIN. LENGTH</th>
<th>COLLAR I.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSA</td>
<td>1-1/2&quot;</td>
<td>2-1/2&quot;</td>
<td>11&quot;</td>
<td>1-1/2&quot;</td>
<td>1-3/8&quot; to 1-5/8&quot;</td>
</tr>
<tr>
<td>DSA-18</td>
<td>1-1/2&quot;</td>
<td>2-1/2&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>1-3/8&quot; to 1-5/8&quot;</td>
</tr>
<tr>
<td>DSB</td>
<td>1-3/4&quot;</td>
<td>2-3/4&quot;</td>
<td>11&quot;</td>
<td>1-1/2&quot;</td>
<td>1-5/8&quot; to 1-7/8&quot;</td>
</tr>
<tr>
<td>DSB-18</td>
<td>1-3/4&quot;</td>
<td>2-3/4&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>1-5/8&quot; to 1-7/8&quot;</td>
</tr>
<tr>
<td>DSC</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>11&quot;</td>
<td>1-1/2&quot;</td>
<td>1-7/8&quot; to 2&quot;</td>
</tr>
<tr>
<td>DSC-18</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>1-7/8&quot; to 2&quot;</td>
</tr>
<tr>
<td>DSD</td>
<td>2-1/4&quot;</td>
<td>3-1/4&quot;</td>
<td>11&quot;</td>
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<td>2-1/8&quot; to 2-3/8&quot;</td>
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<tr>
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<td>2-1/4&quot;</td>
<td>3-1/4&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>2-1/8&quot; to 2-3/8&quot;</td>
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<tr>
<td>DSE</td>
<td>2-3/4&quot;</td>
<td>3-3/4&quot;</td>
<td>11&quot;</td>
<td>1-1/2&quot;</td>
<td>2-1/2&quot; to 2-3/4&quot;</td>
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<tr>
<td>DSE-18</td>
<td>2-3/4&quot;</td>
<td>3-3/4&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>2-1/2&quot; to 2-3/4&quot;</td>
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<tr>
<td>DSF</td>
<td>3&quot;</td>
<td>4&quot;</td>
<td>11&quot;</td>
<td>1-1/2&quot;</td>
<td>2-7/8&quot; to 3-1/8&quot;</td>
</tr>
<tr>
<td>DSF-18</td>
<td>3&quot;</td>
<td>4&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>2-7/8&quot; to 3-1/8&quot;</td>
</tr>
<tr>
<td>DSG</td>
<td>3-1/2&quot;</td>
<td>4-1/2&quot;</td>
<td>11&quot;</td>
<td>1-1/2&quot;</td>
<td>3-3/8&quot; to 3-5/8&quot;</td>
</tr>
<tr>
<td>DSG-18</td>
<td>3-1/2&quot;</td>
<td>4-1/2&quot;</td>
<td>18&quot;</td>
<td>3&quot;</td>
<td>3-3/8&quot; to 3-5/8&quot;</td>
</tr>
</tbody>
</table>

**Please supply the following information to order:**
1. Style number
2. Pin diameter of die set
3. Type of bearing used on die set: standard friction, shoulder, ball bushing or sleeve
Gortiflex® Convoluted Tubing | Bellows

Gortiflex convoluted tubing can be used as covers for screws, rods, ball splines. They can also be applied as flexible connections where vibration, movement or misalignment is involved. Dynatect’s exclusive material (Goralon® elastomer) is designed to resist UV and chemicals. General operating temperature range of approximately -30° F to 260° F, see note*. Easily mount with clamps, which are stocked in all sizes - please specify when ordering.

CT Style
- For light- to medium-duty environments (oil, dirt, chips and other abrasives)
- CT units are made from 0.060" thick (+/- 0.010") Goralon® elastomer reinforced with outer nylon stocking

CTH Style
- For light-duty environments (oil and dust)
- CTH units are made from 0.030" thick (+/- 0.05") Goralon elastomer

DIMENSIONS

<table>
<thead>
<tr>
<th>STYLE NUMBER</th>
<th>BELLOWS I.D.</th>
<th>BELLOWS O.D.</th>
<th>EXTENDED LENGTH</th>
<th>RETRACTED LENGTH</th>
<th>SNAP-IN COLLAR SIZES (I.D.) AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTH-.75-12</td>
<td>3/4&quot;</td>
<td>1-5/8&quot;</td>
<td>12&quot;</td>
<td>1-7/8&quot;</td>
<td>1/4&quot;, 1/2&quot;, 3/4&quot;, 1&quot;</td>
</tr>
<tr>
<td>CTH-.75-24</td>
<td>3/4&quot;</td>
<td>1-5/8&quot;</td>
<td>24&quot;</td>
<td>3-3/4&quot;</td>
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<td>3-1/4&quot;</td>
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<td>CT-1.5</td>
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<td>2-3/8&quot;</td>
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<td>4-1/2&quot;</td>
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<td>12&quot;</td>
<td>24&quot;</td>
<td>2-1/4&quot;</td>
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</tr>
</tbody>
</table>

*Note: Temperatures represent operating ranges for compounds in laboratory tests. Operating temperature range for Goralon in a bellows application may vary dependent on other environmental conditions. Consult Dynatect for assistance in product specification.
SEWN ROD BOOTS | BELLOWS

Gortite® sewn bellows provide maximum protection against cylinder rod scoring from chips, abrasive particles and other impinging objects. Units are manufactured of rugged neoprene coated nylon fabric. Gortite sewn cylinder rod bellows are suitable for operating temperature ranges of approximately -40° F to 220° F. Rod boots are available in 12 stock sizes without tooling charges or minimum order quantities. All shipments are made within three working days.

**Features/Benefits:**
- Reduce frequency of shaft seal replacements
- Prevent rod scoring
- Eliminate nicking of shafts and ball screws
- Protect against impinging chips
- Guard against grit abrasion
- Shield from corrosive splatter

**Applications:**
- Cylinder rod boots
- Dust boots

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>ROD BOOT STYLE</th>
<th>I.D. (Inside Diameter)</th>
<th>O.D. (Outside Diameter)</th>
<th>RETRACTED LENGTH (every 12” extended)</th>
<th>COLLARS: AVAILABLE I.D. SIZES (must be ordered in 1/8” increments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRA-15</td>
<td>3/4”</td>
<td>3”</td>
<td>3/4”</td>
<td>1/2” to 3”</td>
</tr>
<tr>
<td>SRB-15</td>
<td>1-1/8”</td>
<td>3-3/8”</td>
<td>3/4”</td>
<td>1/2” to 3-3/8”</td>
</tr>
<tr>
<td>SRC-15</td>
<td>1-1/2”</td>
<td>3-3/4”</td>
<td>3/4”</td>
<td>1/2” to 3-3/4”</td>
</tr>
<tr>
<td>SRO-15</td>
<td>1-7/8”</td>
<td>4-1/8”</td>
<td>3/4”</td>
<td>1/2” to 4-1/8”</td>
</tr>
<tr>
<td>SRE-15</td>
<td>2-3/8”</td>
<td>4-5/8”</td>
<td>3/4”</td>
<td>1/2” to 4-5/8”</td>
</tr>
<tr>
<td>SRF-15</td>
<td>2-7/8”</td>
<td>5-1/8”</td>
<td>3/4”</td>
<td>1/2” to 5-1/8”</td>
</tr>
<tr>
<td>SRG-25</td>
<td>3-3/8”</td>
<td>7”</td>
<td>1/2”</td>
<td>1/2” to 7”</td>
</tr>
<tr>
<td>SRH-25</td>
<td>3-7/8”</td>
<td>7-1/2”</td>
<td>1/2”</td>
<td>1/2” to 7-1/2”</td>
</tr>
<tr>
<td>SRI-25</td>
<td>4-1/2”</td>
<td>8-1/4”</td>
<td>1/2”</td>
<td>1/2” to 8-1/4”</td>
</tr>
<tr>
<td>SRK-25</td>
<td>5”</td>
<td>8-3/8”</td>
<td>1/2”</td>
<td>1/2” to 8-3/8”</td>
</tr>
<tr>
<td>SRM-25</td>
<td>5-3/8”</td>
<td>9-1/2”</td>
<td>1/2”</td>
<td>1/2” to 9-1/2”</td>
</tr>
<tr>
<td>SRO-25</td>
<td>7-1/4”</td>
<td>11”</td>
<td>1/2”</td>
<td>1/2” to 11”</td>
</tr>
</tbody>
</table>

**Mounting Accessories:**
- C205 flange-type back up plates or C208 collar clamps – can be added to your order upon request.

TO REQUEST A QUOTE OR ORDER, GO TO DYNATECT.COM/ROD-BOOTS
GORPLATE™ | LOW PROFILE STAINLESS STEEL COVER

Gorplate is ideal for protecting linear rails, ways and machine elements from hot chips and weld spatter. These covers have performed to one million cycles at up to 2G’s to ensure that they meet high-speed and high-cycle requirements.

Gorplate covers consist of an innovative and cost-effective system of stainless steel plates and hinges that provide uniform expansion. Mild steel side rails and end plates are included.

Features/Benefits:
• Resists heavy chip loads and weld spatter
• Tested for long life in high speed and high-cycle operation
• Alternative to sliding plate systems that are prone to locking
• Uniform plate expansion
• Low profile design, approximately 1” depth
• Quiet operation
• Lightweight and economical
• Excellent extended-to-retracted ratio

Gorplate covers can be combined into multi-sided assemblies

DYNATECT.COM/GORPLATE

GORDILLO™ | STAINLESS STEEL CLAD BELLOWS

A Gordillo is a sewn-folded or heat sealed way cover made with stainless steel shields covering each convolution. It is available in any flat sided form. The stainless steel shields guard against abrasives, weld spatter, and sparks, which would quickly damage a conventional bellows. Gordillo is an option where there is not enough space for a telescoping steel way cover.

Features/Benefits:
• Added protection against hot chip loads and weld spatter
• Greater resistance than standard fabric bellows
• Smaller footprint and extended-to-retracted ratio versus telescoping covers
• Shields are made from stainless steel

DYNATECT.COM/GORDILLO
TELAFLEX® | STEEL TELESCOPIC WAY COVER

HEAVY-DUTY PROTECTION FOR MACHINE WAYS AND SCREWS

Dynatect’s Telaflex telescopic covers are ideal for any machine tool application requiring complete protection of machine ways and screws. These covers provide the ultimate protection against dropped tools, heavy chip loads, cutting oils and coolants. Telescopic covers can be designed to move along any machine axis. Telaflex covers are designed to your specifications.

In addition, Dynatect refurbishes all brands of telescopic covers and has a full inventory of replacement wipers and components.

Features:

- Top section tread plate or tool tray available
- Section material 18 ga. through 1/4" cold rolled steel (stainless steel option available)
- Way extensions can be provided if necessary
- Standard oiled finished (bright buffed option available)
- Durable wiper options for wet or dry operation
- Options include: nylon or brass guides, bearing rollers, lift lugs

Bearing Rollers
Nylatron or Brass Guides
Lifting Lugs Provided on Large Covers
Heavy-Duty Wipers

WAY COVER REPLACEMENT PARTS

In addition to repair, Dynatect has a comprehensive stock of replacement parts for telescoping way covers:

- Extruded and Molded Urethane Wipers
- Steel Wiper Channels and Guards
- Replacement Riders and Rollers
- Brass Wear Strips

Please visit DYNATECT.COM/TF-PARTS for details.
WAY COVER REPAIR SERVICE

FOR ALL TYPES OF DAMAGED METAL TELESCOPIC WAY COVERS

Replacing metal way covers can be costly and is often unnecessary. Dynatect can repair your damaged cover to OEM specs or better, faster than you can replace them with new – at a fraction of the cost.

- Complete repair, reverse engineering, design and fabrication services available
- Single source supplier for all your repair needs
- Prompt, accurate quotations
- Expert analysis and diagnosis of chronic failures
- Technicians with over 20 years production and repair experience
- All covers are tested before shipment
- Expedited service available for most repairs
- Large inventory of replacement parts

When critical parts require continuous protection while in operation, you can't afford to wait for a new cover.

Local Dynatect representatives are available to evaluate your existing protective covers and recommend improvements.

Call or e-mail us for a return material authorization (RMA) number or to schedule an expedited repair: (800) 298-2066 or sales@dynatect.com

COVERS FOR DOMESTIC AND IMPORTED MACHINES REWORKED TO LIKE-NEW CONDITION

- Repair damaged sections
- Replace riders or rollers
- Install new wipers
- Replace brass wear strips
- Clean and sand to smooth finish

REVERSE ENGINEERING

If your telescopic way covers are damaged beyond repair, Dynatect can conduct a fee-based design review to assess the damaged cover and generate engineering drawings. Dynatect engineering can conduct a design review to evaluate alternative solutions or incorporate additional features to better fit your application.

ADDITIONAL REPAIR & REPLACE SERVICES

- Fabric-type roll up shades: Typical repair consists of replacing shade and cleaning metal hardware/canister. Wiper or brush may need to be replaced. May need new take-up roller.
- Metal Roll-Up Way Covers, including Dynatect’s Steelflex® product
- Metal sliding-plate covers, including Dynatect’s Gorplate™ cover
- XY face shield assemblies
- Bellows can’t be repaired, but we can quote a replacement.
- Visit DYNATECT.COM/REPAIR to view repaired examples
WAY WIPERS

CUSTOM MOLDED (POLYURETHANE)

Fabricated way wipers are ideal for low to moderate volumes, typically used in maintenance and repair applications. They are fabricated from corners and straight lengths of molded Buna-N rubber – two basic styles are available:

- **Type A** – For heavy chip loads and coolants. Fully enclosed in a metal channel with spring-steel chip guard.
- **Type B** – Large wiping edge for heavy coolant applications. Both styles supplied with mounting plate for easy installation.

VISIT DYNATECT.COM/WIPERS FOR DETAILS

FABRICATED BUNA-N (NITRILE)

Fabricated way wipers are ideal for low to moderate volumes, typically used in maintenance and repair applications. They are fabricated from corners and straight lengths of molded Buna-N rubber – two basic styles are available:

- **Type A** – For heavy chip loads and coolants. Fully enclosed in a metal channel with spring-steel chip guard.
- **Type B** – Large wiping edge for heavy coolant applications. Both styles supplied with mounting plate for easy installation.

VISIT DYNATECT.COM/WIPERS FOR ADDITIONAL STOCK WIPER PROFILES

STANDARD MOLDED STOCK WAY WIPERS

Stock wipers save costly maintenance, reduce downtime, and prolong the service life of machine tool ways. They are molded from abrasion and oil-resistant Buna-N elastomer. All 4 types available in standard 22” lengths, which can be easily cut to required lengths. Oversized holes may be drilled in wiper and screws may be used to attach wiper to sliding member. Use of oversized holes makes it easy to adjust the wiper closer to the way for extended service life. Stock wipers are available from stock for fast delivery, without tooling charges.

- **Type A (Part # 220001)** – Metal enclosed molded wiper with a finger spring to act as a chip guard
- **Type B (Part # 220002)** – Molded wiper with metal strip bonded to one side
- **Type C (Part # 220003)** – Molded wiper only. Recommend use of metal mounting plate
- **Type D (Part # 220004)** – Molded wiper with light metal strip which acts as finger spring and chip guard

VISIT DYNATECT.COM/WIPERS FOR ADDITIONAL STOCK WIPER PROFILES
Dynatect shade rollers covers consist of coated or uncoated textile material attached to an industrial spring roller. Metal housing can be added to protect the roll-up mechanism. Shade rollers are a simple and cost-effective solution for involuntary contact with machine components and protection against UV light or occasional liquid and debris.

**Ideal for Applications Where:**
- There is little room for other protective cover options
- Simple mounting and retrofitting are required
- Cost and delivery time are important factors
- High speed and acceleration are needed
- The complete seal of a bellows is not required

**Common Shade Materials:**
- Neoprene/Nylon
- Goralon® CSM/Nylon
- Goralon/Polyester
- Buna/Nylon
- Butyl/Nylon
- Polyurethane-Ester-Laminated Polyester Fabric
- PVC/Polyester
- Silicone/Fiberglass
- Aluminized Fiberglass
- Aluminized Kevlar®
- PTFE/Kevlar®
- PTFE/Fiberglass
- PTFE Film
- Polyvinyl Acetate (PVA)
- Coated Polyester
- M16/2 (Polyurethane/Polyester)
- Food grade and other specialty materials

1. Shade rollers are available with mounting brackets, or with a protective canister with mounting surface in desired orientation.
2. Standard and specialty spring roller designs to handle high speeds up to 66 inches per second.
3. Optional brush or scraper to clean the shade as it retracts to protect the roll-up hardware.
4. End of the shade is fixed to the machine with customer’s choice of bracket configuration.
5. Wide variety of standard and specialty materials available to suit the application.

**Key Shade Dimensions and Extended Length:**

What is the maximum extended length required?

What is the maximum roll diameter for the take-up mechanism?

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Kevlar® is a registered trademark of E.I. du Pont de Nemours and Co.
SHADE ROLLERS | FABRIC ROLL-UP COVERS

Shade Orientation: Specify location (above/below) relative to protected surface or way. Indicate exposure side of shade

Refer to "Top" or "Front" and opposite to indicate side exposed to contaminant. This depends on the shade orientation to the work surface, and whether the shade is protecting or containing debris.

Canister Mounting Options (horizontal orientation shown): Select one or send drawing for other type of mounting

Shade Mounting Bracket Type and Orientation to Exposure Side of Shade:

TYPICAL SHADE ROLLER DIMENSIONS

<table>
<thead>
<tr>
<th>Roller DIA.</th>
<th>Roller (Barrel) Length</th>
<th>Shaft Diameter:</th>
<th>Roller Sizes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; &amp; 1.5&quot; Roller</td>
<td>1.00&quot; Dia.</td>
<td>0.375&quot; (1&quot; &amp; 1.5&quot; Roller)</td>
<td>1.50&quot; Dia.</td>
</tr>
<tr>
<td>2&quot; Roller</td>
<td>2.00&quot; Dia.</td>
<td>0.50&quot; (2&quot; &amp; 3&quot; Roller)</td>
<td>3.00&quot; Dia.</td>
</tr>
<tr>
<td>3&quot; Roller</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Keyed End, See Below

K1 = 0.563" 0.750" 0.625"
K2 = 0.438" 0.438" 0.500"

Note: Shade Width is Typically 0.50" less than Roller Length

VISIT OUR WEBSITE TO DOWNLOAD OR FILL OUT A QUOTE REQUEST FORM
ALUMAFLEX | ROLL-UP COVERS

ALUMINUM ROLL-UP COVERS

Alumaflex covers protect machine ways from contamination and coolant while reducing the risk of damage caused by involuntary contact. Alumaflex is constructed of precision, interlocking anodized aluminum extrusions which provide an attractive and functional barrier. The cover can be rolled up into a roller or canister housing. Alumaflex covers can be integrated into a custom assembly including motor and drive controls, metal housing, and fabricated framework.

Applications:
• Protection from heavy chips
• Finite protection from oil and coolant
• Roll-up machine door
• Machine way protection

Options:
• Angle or flat bar at end of shade
• Choice of 3 rib styles (A, B, C)
• Roller take-up
• Canister housing
• Turnkey motorized assembly

ALUMAFLEX RIB STYLES

<table>
<thead>
<tr>
<th>Type A</th>
<th>Type B</th>
<th>Type C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interlocked with polyurethane hinge, bending in both directions possible. Angled or flat bar at end of shade.</td>
<td>Ball-and-socket interlock with plastic end caps. No polyurethane components.</td>
<td>Interlocked with hidden polyurethane hinge, resulting in smoothest, flat surface. Angled or flat bar at end of shade.</td>
</tr>
</tbody>
</table>

ALUMAFLEX MOUNTING EXAMPLES

Go to www.Dynatect.com/alumaflex for rib profile drawings

VISIT OUR WEBSITE TO DOWNLOAD OR FILL OUT A QUOTE REQUEST FORM
STEELFLEX® STANDARD-DUTY | ROLL-UP COVERS

METAL ROLL-UP COVERS

Steelflex standard-duty roll-up covers provide way protection against moderate hot chip and coolant loads in milling and drilling machines. With low deflection over wide spans, they are an upgrade over fabric shade protection. All widths can be rolled compactly over a spring-loaded roller. A stainless steel top surface with 1/4” x 1/4” aluminum extrusions bonded to the underside provides extra strength and support.

Applications:
- Moderate hot chip or coolant loads
- Higher ambient operating temperatures
- Machine way protection
- Milling/drilling machines

Steelflex Standard-Duty Options:
- Canister housing or mounting brackets
- Sponge edge seal
- Air brake
- Nylon riders
- Brush wiper

SUPPORT RIB SIZE AND SPACING

VISIT OUR WEBSITE TO DOWNLOAD OR FILL OUT A QUOTE REQUEST FORM
STEELFLEX® WALK-ON | ROLL-UP COVERS

FOR MACHINES, PITS, WAYS AND TANKS
Walk-on-duty Steelflex roll-up covers are ideal for protecting machine ways and ball screws from heavy chip loads and dropped tools. They also address the problem of unprotected openings that create a fall hazard for workers. The walk-on surface provides easy machine access during maintenance periods.

Features/Benefits:
• Heavy-duty construction
• Custom-designed to fit your machine or pit
• Safe and strong continuous stainless steel surface
• Impervious to hot chips, coolants and abrasives
• Damaged segments can be individually replaced

Take-Up/Drive Methods:
• Air motor with brake
• Spring drive
• Electric motor
• Manual operation with scroll take-up

When closed, Steelflex covers create a surface level with the hall floor and are safe to walk on. The covers can also be provided with an automated opening and closing system.

CONSTRUCTION
The shade consists of aluminum or steel ribs bonded to stainless steel. The rib profile is determined by the width and the cover loading.

1. Total length is made of assembled individual segments
2. Non-skid coating (tape or paint)
3. Air-motor assisted take-up
4. Options: Nylon riders, rollers, sponge seals
5. Filter / Lubricator / Regulator

Machine pit with cover take-up mounted below the way
Vehicle inspection pit
Take-up canister, mounted above the way
STEELFLEX® WALK-ON | ROLL-UP COVERS

PROFILE DIMENSIONS DEPENDING ON WIDTH AND LOAD

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 5/8&quot;, 1/2&quot;</td>
<td>B = Support spacing (depending on project)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = 3/4&quot;, 1&quot;, 1-1/2&quot;, 2&quot;</td>
<td>B = Support spacing (depending on project)</td>
</tr>
</tbody>
</table>

INSTALLATION VARIANTS FOR AIR-MOTOR TAKE-UP

- **Machine-mounted**
- **Floor-mounted above the way**
- **Floor-mounted below the way**
- **Floor-mounted, spring take-up**

Besides walk-on capability, the flexibility to both directions is one of the unique features of this cover.

The drawing shows how idlers guide a Steelflex cover through a machine column onto other levels.
GORTITE® VF | AUTOMATED MACHINE SAFETY DOOR

KEEP HAZARDOUS OPERATIONS SEPARATE FROM PEOPLE, EQUIPMENT, AND MATERIALS

Dynatect’s Gortite® VF Automated Machine Safety Door is intended for automation & safe machine access to minimize cycle time and maximize production time. The door is typically applied to automated production and machine processes that require preventive safety measures like robotic welding, processing, and transport tasks.

The door separates machines with hazardous operations from other processes, material handling equipment, and people. The door can contain typical machine or process generated hazards including light debris, fluid splatter/mist, and weld smoke/sparks/flash. The door is installed in conjunction with existing machine guard panels on each side of the door to further enhance the separation of environments.

Safety Sensor Options (available with any control system option)

- Sensor for detecting interference and supporting door-auto reverse function:
  - Traveling Photoeye (bottom edge monitoring)
  - Fixed Photo Eye(s) for sensing interference while door traveling closed
  - Fixed 40” Light Curtain

- Door Hold-Down Switch:
  - Latches door in closed-position, controlled by signal from machine

- Door Closed Safety Interlock Switch and Safety Relay:
  - Helps meet PLe/Cat-4 safety requirements when combined with appropriate logic and conformance to risk assessment
  - Optional safety relay shipped loose or integrated into operator control unit
  - Safety circuit wiring required during installation

Note: The installer must ensure that the door, its controls, and any safety devices conform to applicable safety standards

Window Option

Need to see through to the other side? One or more clear windows can be optionally specified. Standard window size is 18 by 18 inches. For welding applications, red or bronze OSHA compliant UV windows are available.

<table>
<thead>
<tr>
<th>CONTROL SYSTEM OPTIONS</th>
<th>Standard Offering</th>
<th>Integrator Control Box Option</th>
<th>Operator Control Unit Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) Door-Mounted “Travel-End” Sensors (24VDC proximity limit switches)</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>(1) Door-Mounted Motor with quick-disconnect interface</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>(1) NEMA 4X (IP66) control box with motor contactors</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Control box logic to accept inputs from (2) Door Mounted “Travel End” Sensors, 3rd-party “up” signal, and 3rd-party “down” signal</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Box mounting and all field wiring by others</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>(1) 24VDC Power Supply and (3) Pushbuttons (Up, Down, E-stop)</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Terminiations and logic to accommodate options of Traveling Photo Eye, Fixed Photo Eye, Fixed Light Curtain, and Safety Interlock</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>
**Benefits**

**Easy Installation** – Arrives with the top roll header fully assembled. Unit requires no cutting/drilling/tapping or welding for assembly. Default design not dependent on machine or walls for support. Reduce footprint by eliminating feet and bolting door directly to infrastructure.

**Simplicity** – All sensor cables terminated on door frame to a passive block with industry standard quick disconnects. Mounted on the motor-side leg column for accessibility and convenience.

**Accessibility** – Removable aluminum side column covers provide access for installation, travel adjustment, preventive maintenance, and adding accessories such as interlocks.

**Adaptability** – Multiple T-slots in side columns and header allow for structure and accessory mounting. Side columns feature T-slots on side and back. Custom bracketry and wall-mount adaptation available

**Reliability** – Door mechanism moves on maintenance-free ball-bearing based guidance system for smooth, low-wear operation. Non-contact sensors eliminate the need for mechanical cam-switches.

**Appearance** – Attractive appearance enhances your modern facility. All aluminum and steel external surfaces are powder coated (base plate, columns, covers, and top roll header).

**Features**

**Durability** –
- Up to 44"/second standard speed (slower speeds available upon request)
- Side columns of extruded aluminum profiles and structural 2" square steel tube
- Up to 2 complete cycles per minute, continuous operation
- Developed for more than 1 million cycles
- 1 year warranty

**Safety** –
- Door retained in columns to minimize risk of people falling through closed door (conforms with OSHA guardrail requirements)
- Traveling photo-eye option (bottom edge sensing and reversing) available with any controls option
- Safety interlock option meets PLe/Cat-4 safety requirements when combined with appropriate logic and conformance to risk assessment

**Flexibility** –
- Fully field adjustable heights for end-travel sensors and optional interlock sensors
- Wide variety of options from “controls-by-integrator” to “turnkey”
- Standard motor can be mounted in multiple orientations to minimize overall door width
CUSTOM ROLL-UP DOORS AND CURTAINS

MACHINE TOOL • AUTOMATION • AUTOMOTIVE • AEROSPACE

Complete turn-key motorized roll-up systems are designed to include all components and metalwork. Motorized machine doors are generally suitable for light-duty or indirect machine tool applications with light to moderate direct coolant spray and no direct heavy chip loads.

Features/Capabilities:
• Customized to your application needs
• Horizontal, vertical, or bi-parting orientation
• Automated/high-speed operation
• Integrated safety features
• Fabric, metal, plastic doors – with and without windows
• Modular assembly
• Manual roll-up designs available (spring roller or scroll take-up)

Applications:
• Robotic assembly
• Welding
• Industrial laser applications
• Automated equipment cells
• Gantry tool changer covers
• General milling/machining
• Titanium machining
• High-speed aluminum machining
• De-burring

OVER 25 YEARS EXPERIENCE MANUFACTURING MOTORIZED ROLL-UP DOORS
CHEMTANK COVER™ (PATENT PENDING)

PROCESS TANK COVER FOR SURFACE FINISHING, CHEMICALS, ANODIZING, ETCHING, PLATING, CLEANING AND MORE

• Are you losing money due to evaporation?
• Are you losing productivity by manually covering chemical tanks?
• Are you losing energy efficiency due to heating open tanks?
• Is your current solution for covering tanks less than ideal?
• Do you have an initiative to improve the work environment or air quality?

The chemical-resistant roll-up ChemTank Cover can address all these issues.

FEATURES
• Easy manual operation (cordless drill-drive optional)
• Engineered for new or retrofit installations
• Accommodates obstructions over the side of the tank such as hoses/piping, agitators, etc.
• Roll-up cover design saves space and allows side-by-side tank configurations
• Designed for tank opening widths from 24 to 80 inches
• Suitable for tanks up to 60 feet

PVDF-COATED PVC SHADE
• Reduces evaporative chemical/energy costs
• Maintains ideal temperatures
• Compatible with highly corrosive applications*

*Final chemical compatibility is the responsibility of the end user (dependent on concentration, temperature, splash/agitation, etc.). Visit our website for list of ChemTank Cover materials.

VISIT DYNATECT.COM/CHEMTANK FOR A QUOTE REQUEST FORM AND ORDERING SPECIFICATIONS.
MULTI-AXIS FACE SHIELD ASSEMBLY

Multi-axis face shield assemblies have been developed for machining centers or any application needing simultaneous, dynamic protection for each axis of movement. Typical industrial applications are vertical (side or wall) or horizontal (ceiling or floor).

Depending upon your application, XY face shields can incorporate a number of different methods of protection for each axis: Stainless steel shade, elastomer coated belting or Steelflex® can be used in conjunction with a spring roller. Gordillo™ (bellows with steel plates) or sliding steel plates can be used instead of a shade roller. The spindle can use a custom cutout, molded wiper and/or a bellows. Multiple roll-up covers or protective sliding plates cover the two main axis, while a ram wiper or bellows can be used for a third axis.

Features:
• Speeds of 3,000 in/minute (76m/min) or more
• Accelerations up to 1g or more
• Designed with ease of installation and longevity in mind
• Supplied fully-assembled or in kit form with operating and maintenance instructions
• Mounting arrangement to suit the customer’s needs
• Can be supplied painted to meet current industry standards
• Wipers to clean debris and fluids from the surface of the shade
• Wiper options: (felt, UHMW, brush, molded polyurethane)
WELD CURTAINS

PORTABLE WELD CURTAIN

• **Protection** against UV radiation during welding. Suitable for MIG, TIG and stick welding.

• **Convenient** – Set up and breakdown in seconds

• **Easy Storage** – Uses minimal storage space when shade is retracted due to small profile

• **Portable** – Weighs under 38 lbs., easy transportation between work stations

• **Durable** – Heavy-duty steel construction provides years of use in a manufacturing environment

• **Versatile** – Use for work cell separation, as a privacy wall to block distracting views, or to aid in the containment of sawdust or light debris

• **Customizable** – Alternative shade and base colors can be custom ordered

**Specifications:**

- Shade: 74.5” wide x 72.00” high
- Canister: 77.88” long x 7.66” wide
- Retracted height: 4.88”
- Weight: 37.5 lbs. (17 kg.)
- Shade: 0.014” PVC film, dark green or yellow. Alternative shade and base colors can be special ordered.

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MODULAR WELD CURTAINS

Providing protection up to nearly 90” off the floor, the modular weld curtain system is a portable free-standing system. Custom sizes and mounting configurations available.

**Benefits:**

- Protection against UV radiation during welding
- Portable, modular and flexible
- Ease of work cell assembly
- Unique free-standing design offers virtually any cell configuration

**Standard Design Specifications:**

- Pedestal: 20.4 in. x 20.4 in. x 10.25 in.
- Mast height: 94 in.
- Shade height: 74.5 in. / From Floor: 89.25 in.
- Shade extended length: 144 in.
- Shade: 0.014” PVC film, dark green
- Weight without cement: 105 lbs.
- Estimated weight with cement: 210 lbs.
Visit Dynatect.com to see all products and solutions for your industry.

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