Since 1911, Gleason Reel Corp. has been in the business of CABLE MANAGEMENT. Our products are designed to convey and protect valuable cables and hoses that power and control moving machines of all types. They improve productivity and safety on the job by moving cables and hoses away from hazardous locations on machinery or the shop floor into a controlled environment. Whether you choose Reels for efficient storage and payout from virtually any angle, Festoon Systems for overhead applications or PowerTrak® for protection on machinery in motion, your cables and/or hoses will last longer and provide better service with a cable management system from Gleason Reel Corp.

--- The Cable & Hose Management Company!

Cable Management

HEAVY DUTY Lift, Stretch and Retrieve Reels

In your area contact:

Gleason Reel Corp.
P.O. Box 26 - 600 South Clark St.
Mayville, Wisconsin 53050-0026
Phone: 920-387-4120
Fax: 920-387-4189

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--- The Cable & Hose Management Company!
WARRANTY

Gleason warrants for a period of twelve (12) months after date of shipment, all goods manufactured by it to be free from defects in material and workmanship. If, within such warranty period, any such goods are proved, to Gleason’s satisfaction, to be defective, such goods shall be repaired or, at Gleason’s option, replaced f.o.b. Gleason’s factory, without charge. Gleason’s obligation shall be confined to such repair or replacement and shall be further conditioned upon Gleason’s receiving written notice of any alleged defect within 10 days after its discovery and, at Gleason’s option, the return of the allegedly defective goods to Gleason, f.o.b. its factory.

The foregoing warranty shall not apply to goods not manufactured by Gleason, or to goods which shall have been repaired or altered by others than Gleason so as, in Gleason’s judgement, adversely to affect the same, or which shall have been subject to other than normal care, or storage. With respect to goods furnished but not manufactured by Gleason, the warranty obligations of Gleason shall be in all respects conform and be limited to the warranty extended by Gleason by the supplier.

The foregoing warranty is in lieu of all other express or implied warranties (except of title) and of all other obligations of Gleason.

ON THE COVER: Typical Gleason Series “S” reel mounted on an overhead crane for heavy duty, high cycle, vertical lift service.
Cable Length
Don’t Cut Yourself Short!

CALCULATIONS FOR ORDERING OR CUTTING

\[ \text{Cable Length} = 1 + 2 + 3 \]

1. **EXTRA CABLE AT REEL**, shown in TABLE 1 or TABLE 2 on the facing page, is REQUIRED for internal connections and one safety wrap. The safety wrap is wound onto the reel.

2. **ACTIVE CABLE** is the amount of cable you will require to cover the Active Travel distance. THIS CABLE IS WOUND ONTO THE REEL. See “Selecting”.

3. **OVERHANG** means any extra cable you require beyond Active Travel. THIS CABLE MUST NOT BE WOUND ONTO THE REEL. The reel is not designed to wind or lift the weight of this extra cable.

**EXAMPLES**

**Lift**
A reel is needed for lifting 10C #14 cable. Active Travel is 40.0 ft. Lift Selection Chart shows Model No. S16801-103.

1. Refer to Table 1 (right). Plotting a 9-inch diameter drum and slip ring assembly 103 specifies that this reel requires five extra feet of cable at the reel.

2. Active Cable is equal to the 40.0 ft. of Active Travel.

3. No overhang is required.

**Therefore:**
\[ \text{Cable Length} = 45.0 \text{ ft.} \]

**Stretch**
A reel is needed for stretching 10C #14 cable in one direction. Active Travel is 40.0 ft. Stretch Selection Chart shows Model No. S16801-103.

1. Refer to Table 1 (right). Plotting a 9-inch diameter drum and slip ring assembly 103 specifies that this reel requires five extra feet of cable at the reel.

2. Because of the 6% sag, Active Cable is greater than the 40.0 ft. of Active Travel.

   \[ \text{Active Cable} = 40.0 \times 1.01 = 40.4 \text{ ft.} \]

3. Overhang of 3.5 feet is required.

**Therefore:**
\[ \text{Cable Length} = 43.9 \text{ ft.} \]

**Retrieve**
A reel is needed for retrieving 10C #14 cable. Active Travel is 40.0 ft. and reel is mounted 2.5 ft. above the ground (lift height). Retrieve Selection Chart shows Model No. S16801-103.

1. Refer to Table 1 (right). Plotting a 9-inch diameter drum and slip ring assembly 103 specifies that this reel requires five extra feet of cable at the reel.

2. Because of LIFT HEIGHT, Active Cable is greater than the 40.0 ft. of Active Travel.

   \[ \text{Active Cable} = 40.0 + 2.5 + 42.5 = 45.0 \text{ ft.} \]

3. Overhang of 3.5 feet is required.

**Therefore:**
\[ \text{Cable Length} = 51.0 \text{ ft.} \]

**NOTE:**
The remaining cable specified in the selection chart figure is in a maximum mounting height of 3.0 ft. If the reel is to be mounted higher than 3.0 ft., consult the factory for recommendations.

REMINDER: Cable Length is NEVER equal to Active Travel or Total Travel.

**NOTE:**
If GLEASON SUPPLIES THE CABLE, correct cable length, rounded up to the nearest foot, is automatically calculated based on your input.

**NOTE:**
If YOU ARE CUTTING YOUR OWN CABLE, please follow our calculation method shown on this page.

Reels in this catalog are calculated to handle factors and only. If you have any OVERHANG factor, we will be happy to make specific reel calculations for you.
**MACHINE MOUNTABLE**

Reels in this catalog are intended for mounting on machinery where automatic (unattended) movement is required. Other Gleason cable reels are available for hand pull applications. Please consult us for recommendations.

**FULL RANGE OF ACCESSORIES AVAILABLE...**

- Three-position Roller Guides
- 3400 Pivot Base
- Spool Lock
- Rotary Limit Switch

See “Dimensional Data” for Details

**AVAILABLE FOR ALL STANDARD AND MOST SPECIAL REQUIREMENTS**

This catalog provides details on sizes, capacities, specifications and designs. If you need additional information, contact your local factory representative. Full support is available upon request.

**SIMPLE, POSITIVE CABLE ENTRANCE...** A positive, watertight connector is provided at the shaft where the cable enters the spool area. Cable feeds easily through the hollow shaft for termination within the slip ring enclosure. Connections are required at one point only.

**EASILY REMOVABLE SLIP RING ENCLOSURE...**

Removes quickly for inspection or service by virtue of the three toggle clamps. An “O” ring seal provides a watertight, dust-tight seal suitable for any type of atmosphere.

**OPTIONAL ENCLOSURES, designed for hazardous areas (Class I and Class II), are available upon request.**

**FAST, EASY BRUSH REPLACEMENT...**

Gleason’s brush holder assembly features a unique spring design which permits quick brush removal while ensuring full contact throughout the life of the brush.

---

**FIBER OPTICS**

Any fiber optic cable of the same approximate O.D. as SO shielded cable listed can be used with Series “WB” reels. Contact your local factory representative for details.

---

**Dimensional Data**

**MODEL**

| A | B | C | D | E | F | G | H | J | K | L | M | N | O | P | R | S | T | U |
| WB-60-25 | 12.00 | 9.00 | 24.00 | 25.19 | 18.19 | 2.00 | 11.75 | 10.50 | 10.19 | 21.56 | 0.75 | 20.75 | 1.50 | 23.00 | 14.00 | 6.00 | 4.63 | 0.50 |
| WB-75-25 | 12.00 | 9.00 | 27.00 | 28.69 | 20.79 | 2.00 | 6.81 | 10.75 | 15.19 | 19.69 | 0.75 | 20.75 | 0.75 | 15.37 | 22.00 | 6.00 | 6.69 | 0.50 |

**U Conduit Size**

**Roller Guide**

**0.56 Dia., Mfg Holes**

4 Places

---

**MODEL**

| A | B | C | D | E | F | G | H | J | K | L | M | N | O | P | R | S | T | U |
| WB-100-60 | 12.00 | 9.00 | 24.00 | 27.19 | 18.19 | 2.00 | 11.75 | 10.50 | 10.19 | 21.56 | 0.75 | 20.75 | 11.44 | 15.19 | 21.69 |
| WB-100-100-60 | 12.00 | 9.00 | 28.00 | 31.19 | 20.19 | 2.00 | 16.00 | 10.75 | 12.19 | 23.98 | 0.75 | 20.75 | 15.00 | 16.00 | 6.00 | 14.44 | 11.44 | 17.19 | 23.69 |

**U Conduit Size**

**Roller Guide**

**0.56 Dia., Mfg Holes**

4 Places

---

**FIBER OPTICS**

Any fiber optic cable of the same approximate O.D. as SO shielded cable listed can be used with Series “WB” reels. Contact your local factory representative for details.
**CONTINUOUS CONTACT WB REELS**

Gleason WB Reels are continuous contact reels ideal for use in applications where slip ring assemblies are not desired. No slip rings or other sliding contacts are used. Rather, a dual spool and pulley system safely and efficiently pays out and rewinds the cable.

The absence of electrical contact points on WB Reels make them an outstanding choice for applications involving portable or movable communication or instrumentation equipment. Such equipment could be adversely affected by the varying resistance of sliding electrical contacts or undue twisting of cords or cables resulting in varying impedance. WB Reels are also a smart choice for hazardous locations where electrical parts on the reel would require dust-tight or explosion-proof protection.

A roller guide is included as standard equipment. A holding dog for window shade-type action can be furnished when required.

**FIBER OPTIC CABLE** of same approximate O.D. as SO shielded cable listed can be used with Series “WB” reels. Contact your factory representative for details.

**WB REEL SELECTION CHARTS**

<table>
<thead>
<tr>
<th>Wire Size (AWG)</th>
<th>18</th>
<th>16</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lift Reels</strong></td>
<td><strong>FEET OF ACTIVE TRAVEL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-75-25</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-75-25</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
</tr>
<tr>
<td><strong>Stretch Reels</strong> (6% sag)</td>
<td><strong>FEET OF ACTIVE TRAVEL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-75-25</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-75-25</td>
<td>WB-100-60</td>
<td>WB-100-60</td>
</tr>
<tr>
<td><strong>Retrieve Reels</strong> (3 ft mounting height)</td>
<td><strong>FEET OF ACTIVE TRAVEL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
<td>WB-60-25</td>
</tr>
</tbody>
</table>

**SIMPLE, POSITIVE SPOOL LOCK...**

Available as an accessory to facilitate cable changing. Permits cable change while reel in under full tension. When released, reel will rewind entire length of new cable.

**RUGGED FRAME BUILT TO LAST...**

All-welded steel frame is fabricated from permanent welding fixtures to assure perfect alignment. A time honored Gleason design places major operating components outboard of the frame for ready serviceability. Entire unit is painted with baked polyester for a long-lasting, durable finish.

**QUICK, ONE PIECE REMOVAL...**

The entire slip ring assembly can be replaced as a unit, if necessary. No need to handle small parts. To remove simply disconnect wiring and loosen two set screws on the shaft-locking collar.

**EVEN WINDING IN MULTIPLE LAYERS...**

Edges of steel flanges on cable spool are die-formed to eliminate cable pileup in corners. Segmenting of inner drum permits adjustability to suit various cable diameters – a slight change in cable size may be accommodated by the same reel with only minor field adjustment.
Spring-Driven

ELECTRIC CABLE REELS

FREE-WHEELING HUB FOR SPRING MOTOR...

Gleason’s unique free-wheeling spring hub design allows for easy cable installation and spring tension adjustment. In addition, it protects the spring motor in the event that the cable is severed.

SAFETYCHANGE® SPRINGS ARE INDUSTRY’S FINEST!

Gleason uses high-quality spring steel to manufacture these “self-contained” main springs. All springs are lifetime lubricated prior to sealing in disposable Safetychange® housings. When used on multi-spring reels, all springs are connected in parallel so that, in the event that one spring fails, the reel is never without tension. This is a significant safety feature.

SAFE, SIMPLE SPRING TENSION ADJUSTMENT...

To adjust spring tension, simply remove the inspection cover and adjust with spanner wrench provided. No need to disconnect cable or disassemble reel. The correct number of spring pretension turns is indicated on each reel nameplate.

DESIGNED WITH SAFETY IN MIND...

The Safetychange® spring motor is a power spring sealed in a disposable housing, eliminating the need to handle loose springs. Located outboard on the frame, replacement is safe and easy and does NOT require the reel to be removed from its frame. All Safetychange® spring motors are equipped with an inspection hole to visually check the integrity of the spring while reel is in service.

S32 GEARED DRIVE

DIMENSIONS

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>32.00</th>
</tr>
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<tbody>
<tr>
<td>34.68</td>
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</tr>
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SLIP RING HOUSING DIMENSIONS

<table>
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<th>Model Number</th>
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<tbody>
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<td>S328001</td>
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<tr>
<td>S328001</td>
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</tr>
<tr>
<td>S328001</td>
<td>22.25</td>
</tr>
<tr>
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<td>27.63</td>
</tr>
<tr>
<td>S328001</td>
<td>32.00</td>
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</table>

SPRING MOTOR DIMENSIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
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<td>S328001</td>
<td>14.38</td>
</tr>
<tr>
<td>S328001</td>
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<tr>
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<td>S328001</td>
<td>24.88</td>
</tr>
<tr>
<td>S328001</td>
<td>28.50</td>
</tr>
</tbody>
</table>

OPTIONAL ACCESSORIES

If Hoop Guides are used, optional Roller Guides may be found on page 16.

Vertical Roller Guide

Part No. 04945401

Horizontal Roller Guide

Part No. 04945401

Sling Ring Assembly

Part No. 039712

Spool Lock Assembly

Part No. 012077

Dog and Ratchet Assy.

Part No. 039887

Spring Motors

Part No. 040449

NOTE: Above illustration includes some of the optional accessories described below.
**S32 DIRECT DRIVE**

**Dimensional Data & Optional Accessories**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>A (inches)</th>
<th>B (inches)</th>
<th>C (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.50</td>
<td>32.00</td>
<td>1.75</td>
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</table>

**SLIP RING HOUSING DIMENSIONS**

<table>
<thead>
<tr>
<th>Second Series of Digits in Model Number</th>
<th>“A” Dimension in Inches</th>
<th>“B” Dimension in Inches</th>
<th>“C” Dimension in Inches</th>
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</thead>
<tbody>
<tr>
<td>33</td>
<td>16.00</td>
<td>18.50</td>
<td>21.00</td>
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<tr>
<td>43</td>
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<td>27</td>
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<td>21.00</td>
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<td>320</td>
<td>16.00</td>
<td>18.50</td>
<td>21.00</td>
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**SPRING MOTOR DIMENSIONS**

<table>
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<tr>
<th>MODEL NUMBER</th>
<th>“A” Dimension in Inches</th>
<th>“B” Dimension in Inches</th>
<th>“C” Dimension in Inches</th>
<th>“D” Diameter in Inches</th>
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</thead>
<tbody>
<tr>
<td>S32801</td>
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<td>S321004</td>
<td>9.50</td>
<td>12.88</td>
<td>16.25</td>
<td>1.75</td>
</tr>
</tbody>
</table>

**OPTIONAL ACCESSORIES**

- If Hoop Guides are used, optional Roller Guides may be found on page 16.

**SLIP RING HOUSING DIMENSIONS**

- (4) Mounting Holes 0.56 Dia.

**MODEL NUMBER**

- 012077: 320 O Swivel Base
- 012091: Spool Lock
- 039887: Dog and Ratchet Assy.
- 040449: Rotary Limit Switch
- 040457: Vertical Drum Roller Guide
- 04045401: Vertical Roller Guide

**SUPERIOR BEARINGS...**

All bearings are self-aligning, sealed and pre-lubricated for long and dependable life.

**PROTECTED GEARING...**

Gears used for reeling longer lengths of cable are protected from dust and moisture by a sealed housing. External grease fitting permits lubrication of gears during service without opening the enclosure. Various gear ratios are available to match specific reeling requirements.

**SEAL GEAR HOUSING...**

Gear driven models include sealed gear housing.

**NO SWEAT, NO STRAIN GEAR REMOVAL...**

Gleason’s unique design permits gears to be changed without disassembly of major frame components. Simply remove the spring motor and its removable back plate to fully expose gears for fast, easy changeover.
How to Select Reels

Gleason Electric Cable Reels are assembled from several components with a great variety of combinations possible. In order to select the CORRECT reel from the selection charts on the following pages, follow STEPS 1–3 on this page.

**STEP 1 Identify Your Cable**

Cable is the **WHAT** in reel selection. **WHAT** is the size (AWG) and number of conductors? Reel calculations are based on the cable weight per foot, Active Travel and cable O.D. Fill in “Selection Input Required” on the facing page for each reel you order.

**STEP 2 Identify Your Application**

Application is the **WHY** in reel selection. From the applications on the facing page, choose the one that resembles the way you are applying the cable in STEP 1 above. There are specific selection charts on the following pages for each application type. Reel calculations are based on **HOW** you want to handle the cable. Note: Identify any added weight such as extra cable (overhang) or pushbutton stations – Selection charts do NOT consider any added weight.

**STEP 3 Select a Reel Model**

Applying your input from STEP 1 and STEP 2, the correct reel model number may be found in one of the Selection Charts on the following pages. Follow STEPS 1–3 on this page.

**EXAMPLE:** A reel must LIFT [FIND “14-AWG, 10 CONDUCTOR” ROW] for a Total Travel 40.0 feet, ONE WAY PAYOUT – see Fig. 1 below. Active Travel is, therefore, 40 feet – see Fig. 1 below. Active Travel is, therefore, 40 feet.

**Definition of terms**

- **Active Travel** = The **DISTANCE** in ONE DIRECTION from reel centerline to full extension of cable; the TRAVEL allowed by one full cable extension. See Figures 1 & 2 below.
- **Total Travel** = The TOTAL **DISTANCE** reel is to service. See Figures 1 & 2 below.
- **Payout** = The ACTION of cable winding off of the reel, in one or two directions. See Figures 1 & 2 below.
- **Cable Length** = The total AMOUNT of cable REQUIRED for connections, unwind/wind, SAG (if any) and “extra” lengths you require. See “Cable Length—Don’t Cut Yourself Short” at the back of this catalog.

REMEMBER: Cable Length is NEVER equal to Active Travel or Total Travel!

For requirements not fully covered in the Selection Charts such as cable sizes, greater Active Travel or greater weight, contact your factory representative. We will be happy to make specific calculations for you.
**S28 DIRECT DRIVE**

### Dimensional Data & Optional Accessories

#### SLIP RING HOUSING DIMENSIONS

- **A** Dimension-**Inches**
  - 16.00
  - 18.50
  - 21.00
  - 23.50
  - 28.50
  - 26.00

- **B** Dimension-**Inches**
  - 8.50
  - 11.00
  - 13.50
  - 16.00
  - 21.00
  - 29.00

#### SPRING MOTOR DIMENSIONS

**Model Number**
- S28621
- S28622
- S28623

**B** Dimension-**Inches**
- 16.50
- 8.62
- 11.25
- 13.88
- 16.50
- 9.50
- 12.88
- 16.50
- 19.62

**D** Diameter-**Inches**
- 14.38
- 10.56
- 10.56
- 10.56
- 10.56
- 10.56
- 14.38
- 14.38
- 14.38
- 14.38
- 14.38
- 14.38
- 14.38

**Approx. Net Weight-lbs.**
- 165
- 215
- 265

*Approximate Net Weight of Reel with Spring Motor(s) Designated.

#### Common Applications

- **Horizontal Stretch**
  - Requires the greatest amount of tension on any application to maintain a minimum sag. In this catalog, all reel capacities for horizontal stretch applications are based on a sag of 6%.

- **Vertical Lift**
  - Refers to any application where the cable is simply hoisted vertically with only the weight of the cable involved. Special consideration must be given to any weight added to the end of the cable such as a push button station or overhang (i.e. extra cable).

- **Retrieve**
  - A horizontal retrieve application is identified when the reel is mounted on the moving equipment and winds and pays-out cable into tray or other support. A vertical retrieve application is much the same as a vertical lift except, in this case, the reel is located below rather than above the machine.

- **Drag**
  - In DRAG applications, the reel is stationary. As the machine moves, cable is pulled off of the reel and “dragged” over the surface. Dragging produces wear on the cable and is NOT a recommended application.

---

**OPTIONAL ACCESSORIES**

- **Vertical Roller Guide**
- **Hoop Guide Assembly**
- **Speed Limb**
- **Dog and Ratchet Assy.**
- **Vertical Limit Switch**
- **Tension Adjustment**
- **Slip Ring Assembly**
- **Spring Motors**
### Lift/Drag Reels

#### SELECTION CHART

*(See "How to Select Reels" for explanation of Active Travel.)*

<table>
<thead>
<tr>
<th>Wire Size (AWG)</th>
<th>No. of Cond.</th>
<th>FEET OF ACTIVE TRAVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>70</td>
</tr>
</tbody>
</table>

| 16              | 30          |
| 14              | 30          |
| 12              | 30          |
| 10              | 30          |
| 8               | 30          |
| 6               | 30          |
| 4               | 30          |
| 2               | 30          |

#### OPTIONAL ACCESSORIES

<table>
<thead>
<tr>
<th>Part No. 012077</th>
<th>300 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>260 lbs.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No. 012084</th>
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</thead>
<tbody>
<tr>
<td>340 lbs.</td>
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</table>

<table>
<thead>
<tr>
<th>Part No. 012085</th>
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</thead>
<tbody>
<tr>
<td>320 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No. 012091</th>
<th>340 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog and Ratchet</td>
<td></td>
</tr>
</tbody>
</table>

### DIMENSIONS

**S24 GEARED DRIVE**

- Diameter in inches
- Approximate Net Weight of Reel with Spring Motor(s)
- Normal Clearance

#### SLIP RING HOUSING DIMENSIONS

- Second Series of (4) Mounting Holes
- Pipe Thread
- Slip Ring Side
- Spring Side

#### SPRING MOTOR DIMENSIONS

- Model Number
- "B" Diameter in Inches
- Motors
- Screw

### OPTIONAL ACCESSORIES

- Vertical Roller Guide
- Dog and Ratchet
- Rotary Limit Switch
- Slip Ring Assembly
- 340° Swivel Base

#### NOTE:

- Above illustration includes some of the optional accessories described below.
- Cable payout, as pictured above, denotes standard rotation.
- The optional accessories described below include:
  - Vertical Roller Guide Part No. 012085
  - Dog and Ratchet Part No. 012091
  - Rotary Limit Switch Part No. 012092
  - Slip Ring Assembly Part No. 012093
  - 340° Swivel Base Part No. 012077

### GEARED DRIVE

- Dimensions
- Weight and Diameter
- Refer to page 31.

### NOTE:

- For explanation of Active Travel, see "How to Select Reels."
### Lift/Drag Reels

**Continuous Dimensions**

**Approximate Net Weight of Diag.**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model Number</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>012085</td>
<td>S24-801-01-1</td>
<td>15.00 x 23.00</td>
<td>9.12 lbs</td>
</tr>
<tr>
<td>012086</td>
<td>S24-801-02-1</td>
<td>15.00 x 23.00</td>
<td>9.12 lbs</td>
</tr>
<tr>
<td>012087</td>
<td>S24-801-03-1</td>
<td>15.00 x 23.00</td>
<td>9.12 lbs</td>
</tr>
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<td>S24-801-04-1</td>
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<td>9.12 lbs</td>
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<td>9.12 lbs</td>
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<td>S24-801-07-1</td>
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<tr>
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<td>S24-801-08-1</td>
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<td>9.12 lbs</td>
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<td>012100</td>
<td>S24-801-16-1</td>
<td>15.00 x 23.00</td>
<td>9.12 lbs</td>
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</tbody>
</table>

**Feet of Active Travel**

- **Direct Drive**
  - Maximum: 120 feet
  - Minimum: 10 feet

**Rigging Safety Factors**

- **Approximate Weight of Reel**
  - Maximum: 1200 lbs
  - Minimum: 100 lbs

**Wire Size (AWG)**

- **No. of Cond.** 16 14 12 10 8 6 4 2 1

**Wire Size (Dia.)**

- **Feet of Active Travel**
  - Maximum: 120 feet
  - Minimum: 10 feet

**Reel Models**

- **Series of Digits in Model Number**
  - **A**: Dimension-Inches
  - **B**: Dimension-Inches
  - **C**: Dimension-Inches (Approximate Net Weight of Diag.)

**Model Numbers**

- **Part No. 012085**
- **Part No. 012086**
- **Part No. 012087**
- **Part No. 012088**
- **Part No. 012089**
- **Part No. 012090**
- **Part No. 012091**
- **Part No. 012092**
- **Part No. 012093**
- **Part No. 012094**
- **Part No. 012095**
- **Part No. 012096**
- **Part No. 012097**
- **Part No. 012098**
- **Part No. 012099**
- **Part No. 012100**

**Optional Accessories**

- **Vertical Roller Guide**
  - Part No. 012085

- **Horizontal Roller Guide**
  - Part No. 012086

- **Spring Motors**
  - Part No. 012087

- **240" Vertical Base**
  - Part No. 012088

- **Hoop Guide Assembly**
  - Part No. 012089

- **Spool Lock Assy**
  - Part No. 012090

- **Spring Ring Assembly**
  - Part No. 012091

- **Tension Wrench**
  - Part No. 012092

- **Dog and Ratchet Assy**
  - Part No. 012093

- **Rotary Limit Switch**
  - Part No. 012094

- **Ultimate Tension Adjustment**

- **4" Mounting Holes 0.56 Dia.**

**Technical Specifications**

- **Removal**
  - Dimensions
  - Clearances
  - Spring Side

- **Spring Motor Dimensions**
  - Approximate Net Weight of Reel with Spring Motor(s)

- **Slip Ring Housing Dimensions**
  - Diam.
  - Clearance

**Technical Notes**

- **Transfers Greater than 120 Feet are Possible** for those wire sizes with a * next to them. Consult factory for additional real models.
### Stretch Reels

**SELECTION CHART**

NOTE: Capacities based on 6% sag, speed of 150 ft./min. and acceleration of .75 ft./sec². Capacities based on table of average weight and diameter. Refer to page 31.

(See "How to Select Reels" for explanation of Active Travel.)

### Vertical Roller Guide

<table>
<thead>
<tr>
<th>Part No.</th>
<th>5/8&quot;</th>
<th>3/4&quot;</th>
<th>1 1/2&quot;</th>
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</thead>
<tbody>
<tr>
<td>3021801</td>
<td>7271</td>
<td>8272</td>
<td>8273</td>
</tr>
</tbody>
</table>

### Vertical Tension Guide

<table>
<thead>
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<th>3/4&quot;</th>
<th>1 1/2&quot;</th>
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</thead>
<tbody>
<tr>
<td>3021803</td>
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<td>8272</td>
<td>8273</td>
</tr>
</tbody>
</table>

### Gear Drive

<table>
<thead>
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<th>1 1/2&quot;</th>
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<tr>
<td>3021804</td>
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<td>8273</td>
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</tbody>
</table>

### Spring Motor Dimensions

<table>
<thead>
<tr>
<th>Model Number</th>
<th>5/8&quot;</th>
<th>3/4&quot;</th>
<th>1 1/2&quot;</th>
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</thead>
<tbody>
<tr>
<td>S21801</td>
<td>S21802</td>
<td>S21803</td>
<td>S21804</td>
</tr>
<tr>
<td>S211001</td>
<td>S211002</td>
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</tbody>
</table>

### Optional Accessories

- Vertical Roller Guide
- Vertical Tension Guide
- Gear Drive
- Spring Motor

---

**S21 GEARED DRIVE**

Dimensional Data & Optional Accessories

---

NOTE: Above illustration includes some of the optional accessories described below.

### SLIP RING HOUSING DIMENSIONS

**Second Series of Digits in Model Number**

- "A" Dimension in Inches
- "C" Dimension in Inches

<table>
<thead>
<tr>
<th>Model Number</th>
<th>A</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>S21801</td>
<td>22</td>
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<td>S21802</td>
<td>23</td>
<td>53</td>
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</table>

### SPRING MOTOR DIMENSIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>5/8&quot;</th>
<th>3/4&quot;</th>
<th>1 1/2&quot;</th>
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</thead>
<tbody>
<tr>
<td>S21801</td>
<td>S21802</td>
<td>S21803</td>
<td>S21804</td>
</tr>
<tr>
<td>S211001</td>
<td>S211002</td>
<td></td>
<td></td>
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</tbody>
</table>

### OPTIONAL ACCESSORIES

- Vertical Roller Guide
- Vertical Tension Guide
- Gear Drive
- Spring Motor

---

NOTE: Above illustration includes some of the optional accessories described below.
Retrieve Reels

SELECTION CHART

NOTE: Capacities based on 3 ft. lift to center line of reel, speed of 150 ft./min. and acceleration of 1.0 ft./sec². Capacities based on cable of average weight and diameter. Refer to page 31. (See "How to Select Reels" for explanation of Active Travel.)

DIMENSIONS

SLIP RING HOUSING DIMENSIONS

MODEL NUMBER

SPRING MOTOR DIMENSIONS

OPTIONAL ACCESSORIES

Vertical Roller Guide
Part No. 012082

Hoop Guide Assembly
Part No. 012085

Sprig Lock Assembly
Part No. 012091

Dog and Ratchet Assy.
Part No. 012090

Horizontal Roller Guide
Part No. 012082

Slip Ring Assembly

Rotary Limit Switch
Part No. 012092

Tension Adjustment Wrench

Vertical Down Roller Guide
Part No. 012084

340° Swivel Base
Part No. 012077

Cable payout, as pictured above, denotes reverse rotation.

NOTE: Capacities based on 3 ft. lift to center line of reel, speed of 150 ft./min. and acceleration of 1.0 ft./sec². Capacities based on cable of average weight and diameter. Refer to page 31. (See "How to Select Reels" for explanation of Active Travel.)
## Optional Accessories

### ROLLER CABLE GUIDES

**Horizontal/Vertical Up**
- Steel or Nylon Rollers
- Model: S14, S16, S18, S21
- Part Numbers: S14: 012079, S16: 012080, S18: 012081, S21: 012082

**Frame Mounted Vertical Down**
- Steel Rollers
- Model: S14, S18, S21
- Part Numbers: S14: 012083, S18: 012084, S21: 012085

**Frame Mounted Horizontal/Vertical Up**
- Steel Rollers
- Model: S14, S16, S18
- Part Numbers: S14: 012086, S16: 012087, S18: 012088

**Frame Mounted Horizontal/Vertical Up**
- Nylon Rollers
- Model: S14, S16, S18
- Part Numbers: S14: 012089, S16: 012090, S18: 012091

### Vertical Down Cable Guides—Steel or Nylon Rollers

**Hoop Mounted Vertical Down**
- Steel Rollers
- Model: S14, S16, S18
- Part Numbers: S14: 012092, S16: 012093, S18: 012094

**Hoop Mounted Horizontal/Vertical Up**
- Steel Rollers
- Model: S14, S16, S18
- Part Numbers: S14: 012095, S16: 012096, S18: 012097

**Hoop Mounted Horizontal/Vertical Up**
- Nylon Rollers
- Model: S14, S16, S18
- Part Numbers: S14: 012098, S16: 012099, S18: 012090

**Hoop Guide Assembly (Not pictured. See pages 19 – 28)**
- Steel or Nylon Rollers
- Model: S14, S16, S18
- Part Numbers: S14: 012092, S16: 012093, S18: 012094

### 340° PIVOT BASE

**KELLEMS® CABLE GRIP**

**CABLE STOPS**

**Type A**
- 3.00” O.D.
- Part Numbers: 027614

**Type B**
- 3.50” O.D.
- Part Numbers: 027615

### SPOOLED LOCK

All models...P/N 012091

### DOG & RATCHET

S14–S28...P/N 012090

S32 only...P/N 039887

### LIMIT SWITCH

S14–S28...P/N 012092

S32 only...P/N 040449

### SPRING MOTOR DIMENSIONS

**Direct Drive**

**S14**
- Dimensions: 6.60 x 6.60
- Diameter: 7.12
- Weight: 85 lbs.

**S16**
- Dimensions: 10.56 x 10.56
- Diameter: 10.56
- Weight: 90 lbs.

**S18**
- Dimensions: 13.70 x 13.70
- Diameter: 13.70
- Weight: 95 lbs.

### OPTIONAL ACCESSORIES

- Vertical Roller Guide: Part No. 012079
- Horizontal Roller Guide: Part No. 012078
- Spring Motor Assy: Part No. 012080
- Dog and Ratchet Assy: Part No. 012092
- Vertical Down Roller Guide: Part No. 012094
- Slip Ring Side Assy: Part No. 012098
- Slip Ring Housing: Part No. 012099
- Slip Ring Base: Part No. 012096

### SLIP RING HOUSING DIMENSIONS

**Second Series of Digits in Model Number**
- A Dimension in Inches: 14.50
- B Dimension in Inches: 17.00
- C Diameter in Inches: 8.50
- D Diameter in Inches: 11.00

## Dimensional Data & Optional Accessories
Optional Accessories

**ROLLING CABLE GUIDES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Frame Type</th>
<th>Horizontal/Vertical Up</th>
<th>Nylon Rollers</th>
<th>Steel Rollers</th>
</tr>
</thead>
<tbody>
<tr>
<td>S14, S16, S21</td>
<td>Frame Mounted Vertical Down</td>
<td>S14, S16, S18</td>
<td>0.30 x 2.25</td>
<td>N/A</td>
</tr>
<tr>
<td>S14, S16, S18, S21</td>
<td>Frame Mounted Horizontal/Vertical Up</td>
<td>S14, S16, S18</td>
<td>4.63 x 2.63</td>
<td>N/A</td>
</tr>
<tr>
<td>S16, S21, S24</td>
<td>Frame Mounted Vertical Down</td>
<td>S16, S21, S24</td>
<td>3.00 x 2.25</td>
<td>N/A</td>
</tr>
<tr>
<td>S16, S21, S24, S28, S32</td>
<td>Frame Mounted Horizontal/Vertical Up</td>
<td>S16, S21, S24</td>
<td>4.63 x 2.63</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Frame Models**

- S14
- S16
- S18
- S21
- S24
- S28
- S32

**PART NUMBER**

- 012079
- 012080
- 012081
- 012082
- 012083
- 012084
- 012085

**NOTE:**

- "Up" and "Down" assume rolled mounted base down.
- Standard rotation. Consult factory for reverse rotation.
- *Standard or reverse rotation.

**340° PIVOT BASE**

**PART NUMBER**

- 012076
- 012077
- 012078

**KELLEMS® CABLE GRIP**

**PART NUMBER**

- 012097

**CABLE STOPS**

**PART NUMBER**

- 027614
- 027615
- 027616
- 027617
- 027618

**DIMENSIONS**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>1.00</td>
<td>4.75</td>
<td>1.75</td>
<td>14.00</td>
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</table>

**SLIP RING HOUSING DIMENSIONS**

- Second Series of Digits in Model Number
  - S14351
  - S14601
  - S14751

**SPOOL LOCK**

**PART NUMBER**

- 012091

**DOG & RATCHET**

**PART NUMBER**

- 012090

**LIMIT SWITCH**

**PART NUMBER**

- 012092

**OPTIONAL ACCESSORIES**

**PART NUMBER**

- 012079

**DIRECTIONAL DATA & OPTIONAL ACCESSORIES**

**PART NUMBER**

- 012090

**SPOOL LOCK**

**PART NUMBER**

- 012091

**DOG & RATCHET**

**PART NUMBER**

- 012090

**LIMIT SWITCH**

**PART NUMBER**

- 012092

**DIRECTIONAL DATA & OPTIONAL ACCESSORIES**

**PART NUMBER**

- 012090
Retrieve Reels Contained

**VERTICAL ROLLER GUIDE**

- **MODEL NUMBER**
  - Vertical Down
  - Rotary Limit Adjustment
  - Spool Lock
  - Assly.
- **Part No.**
  - 012090
- **Dimensional Data & Optional Accessories**

**DIMENSIONS**

- **Spring Side**
- **Slip Ring Side**
- **Line Entrance 1.25 Pipe Thread**
- **Removal Clevis Pin**
- **3.00 Removal Clevis**
- **16.50**
- **Second Series of Digits in Model Number**
  - **A** Dimension in Inches: 15.00, 17.50, 20.00, 22.50, 27.50
  - **B** Dimension in Inches: 8.50, 11.00, 13.50, 16.00, 21.00
- **SPIRING MOTOR DIMENSIONS**
  - **Model Number**
  - **Size**
  - **Diameter**
  - **Spool Lock Assembly**
  - **Spool Lock Assy.**
  - **Screw Lock Assy.**
- **Lockout Switch**
- **Spring Switch**
- **Wire Guides**
- **狗和一接箱**

**SLIP RING HOUSING DIMENSIONS**

- **Second Series of Digits**
- **S16351**
- **S16601**
- **S1621**
- **S1622**
- **S16701**
- **S16501**
- **B** Dimension in Inches: 7.10, 7.10, 7.62, 7.62, 7.62
- **C** Diameter in Inches: 10.56, 10.56, 14.38, 14.38, 10.56, 14.38
- **Approximate Net Weight of Reel & with Motor(s)**
  - 95 lbs.
  - 100 lbs.
  - 120 lbs.
  - 170 lbs.
  - 105 lbs.
  - 135 lbs.

**FEET OF ACTIVE TRAVEL**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>100</th>
<th>120</th>
<th>140</th>
<th>160</th>
<th>180</th>
<th>200</th>
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</tbody>
</table>

**COMPLETE DIMENSIONAL DATA**

For those wire sizes with ✔ next to them, consult factory for additional real models.

- **Cable payout, as pictured above, denotes standard rotation.**

- **Sizes**
  - 100 lbs.
  - 120 lbs.
  - 140 lbs.
  - 160 lbs.
  - 170 lbs.
  - 180 lbs.
  - 200 lbs.

- **WIRE SIZE (AWG)**
  - 1/0
  - 2/0
  - 3/0
  - 4/0
  - 5/0
  - 6/0
  - 7/0
  - 8/0
  - 9/0
  - 10/0
  - 11/0
  - 12/0
  - 13/0
  - 14/0
  - 15/0
  - 16/0
  - 17/0
  - 18/0
  - 19/0
  - 20/0

- **Model Numbers**
  - S1621-23-13-3
  - S1622-23-13-3
  - S1622-23-22-2
  - S28-801-163-21-3
  - S28-801-203-21-3
  - S28-801-23-21-3
  - S28-801-263-21-3
  - S28-801-303-21-3
  - S32-801-203-16-3
  - S32-801-23-16-3
  - S32-801-263-16-3
  - S32-801-303-16-3

- **Complete dimensional**

**Cable payout, as pictured above, denotes standard rotation.**
Retrieve Reels

**SELECTION CHART**

NOTE: Capacities based on 3 ft. lift to center line of reel, speed of 150 ft./min. and acceleration of 1.0 ft/sec². Capacities based on cable of average weight and diameter. Refer to page 31.

### FEET OF ACTIVE TRAVEL

<table>
<thead>
<tr>
<th>WHL SIZE (AWG)</th>
<th>No. of Cond.</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
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<td>6/4-036-21</td>
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<td>3</td>
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</tr>
<tr>
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<tr>
<td>12</td>
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<td>16</td>
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</tbody>
</table>

### Optional Accessories

Vertical Roller Guide  Part No. 012062

Hoop Guide Assembly  Part No. 012025

Spool Lock  Part No. 012091

Dog and Ratchet Assy.  Part No. 012090

Horizontal Roller Guide  Part No. 012028

Screw Ring Assembly  Part No. 012094

Rotary Limit Switch  Part No. 012092

Tenaxion Adjustment Wrench  Part No. 012090

Vertical Down Roller Guide  Part No. 012094

### SLIP RING HOUSING DIMENSIONS

- **A** Dimension-Inches: 8.50, 11.00, 13.50, 16.00, 20.00
- **B** Dimension-Inches: 14.38, 14.38, 15.06, 14.38, 14.38
- **C** Dimension-Inches: 180, 180, 115, 140, 200

### SPRING MOTOR DIMENSIONS

- **A** Dimension-Inches: 83, 47, 123, 163, 243
- **B** Dimension-Inches: 20.68, 21.34
- **C** Dimension-Inches: 19, 20.50

### OPTIONAL ACCESSORIES

If Hoop Guides are used, optional Roller Guides may be found on page 16.

### DRIVE

**Dimensional Data & Optional Accessories**
## Stretch Reels

### Selection Chart

NOTE: Capacities based on 6% sag, speed of 150 ft./min. and acceleration of 7.5 ft./sec². Capacities based on table of average weight and diameter. Refer to page 31.

(See “How to Select Reels” for explanation of Active Travel)

### Table

<table>
<thead>
<tr>
<th>Wire Size (AWG)</th>
<th>No. of Con.</th>
<th>30</th>
<th>40</th>
<th>50</th>
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</thead>
<tbody>
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</tr>
</tbody>
</table>

### Footnotes

- Capacities based on cable of average weight and diameter. Refer to page 31.
- Capacities based on 6% sag, speed of 150 ft./min. and acceleration of 7.5 ft./sec².

### Diagram

**S21 GEARED DRIVE**

- Dimensional Data & Optional Accessories

- **SLIP RING HOUSING DIMENSIONS**
  - Second Series of Digits in Model Number
  - “A” Dimension in Inches: 15.00, 17.50
  - “C” Dimension in Inches: 8.50, 11.00

- **MODEL NUMBER**
  - “B” Dimension in Inches
  - Approximate Net Weight of Reel with Spring Motor(s): 180 lbs, 235 lbs, 290 lbs, 345 lbs, 350 lbs, 390 lbs, 250 lbs.

### Optional Accessories

<table>
<thead>
<tr>
<th>Vertical Roller Guide</th>
<th>Part No. 012062</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dog and Ratchet Assy.</td>
<td>Part No. 012090</td>
</tr>
<tr>
<td>Spool Lock Assy.</td>
<td>Part No. 012061</td>
</tr>
<tr>
<td>Slip Ring Assembly</td>
<td>Part No. 012064</td>
</tr>
<tr>
<td>Spring Motors</td>
<td>Part No. 012090</td>
</tr>
<tr>
<td>Rotary Limit Switch</td>
<td>Part No. 012090</td>
</tr>
</tbody>
</table>

**NOTE:** If Hoop Guides are used, optional Roller Guides may be found on page 16.
### Lift/Drag Reels

#### SELECTION CHART

<table>
<thead>
<tr>
<th>WIRE SIZE (AWG)</th>
<th>No. of Cond.</th>
<th>FEET OF ACTIVE TRAVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30</td>
<td>40</td>
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<tr>
<td>2</td>
<td>1153-29-10-2</td>
<td>1653-29-10-2</td>
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<td>1153-29-10-25</td>
<td>1653-29-10-25</td>
</tr>
</tbody>
</table>

### S24 GEARED DRIVE

#### DIMENSIONS

- **Dimensions Data & Optional Accessories**
- **Optional Accessories**
- **If Hoop Guides are used, optional Roller Guides may be found on page 16.**

### SLIP RING HOUSING DIMENSIONS

- **B" Dimension in Inches**
- **D" Dimension in Inches**
- **Approximate Net Weight of Reel with Spring Motor(s)**

### SPRING MOTOR DIMENSIONS

- **Model Number**

### OPTIONAL ACCESSORIES

- **Vertical Roller Guide**
- **Centering Roller Guide**
- **Roller Guide Assembly**
- **Spool Lock Assy.**
- **Dog and Ratchet Assy.**
- **Hoop Guide Assembly**
- **Adjustment Wrench**
- **Vertical Down Roller Guide Assy.**
- **340° Swivel Base Assy.**

### NOTE:
- Capacities based on speed of 150 ft./min. and acceleration of 50 ft./sec².
- Capacities based on cable of average weight and diameter. Refer to page 31.
### Model Number Explanation

**Selection INPUT Required**

**TYPE OF APPLICATION**
- [ ] LIFT
- [ ] STRETCH
- [ ] RETRIEVE
- [ ] DRAG

If none of the above apply to how the reel will be used, or if extra weight is added at the end of the cable (overhang, push-button station, etc.), please consult your factory representative.

**Active Travel**

**Size (AWG)**

**No. Cond.**

**INCLUDE THE FOLLOWING INFORMATION IF IT IS DIFFERENT than the cable data at the back of this catalog for the cable size listed above:**

**O.D.**

**Weight (lbs/ft)**

---

### Common Applications

**HORIZONTAL STRETCH**

**VERTICAL LIFT**

**VERTICAL DRAG**

---

### SLIP RING AMPACITY CODE

<table>
<thead>
<tr>
<th>GLEASON CODE</th>
<th>MAX AMPS</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>35</td>
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<tr>
<td>7</td>
<td>75</td>
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<tr>
<td>12</td>
<td>125</td>
</tr>
<tr>
<td>20</td>
<td>200</td>
</tr>
</tbody>
</table>

For REVERSE ROTATION (available for all models), add the letter "R" following Spring Motor Code.

**EXAMPLES:**
- S2180
- WB-100-60
  - R

---

### DIRECT DRIVE

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>SLIP RING HOUSING DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>S28621</td>
<td>16.00 8.50 11.00 13.50 16.00 21.00 29.00</td>
</tr>
</tbody>
</table>

### SPRING MOTOR DIMENSIONS

**MODEL NUMBER**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>B” Dimension-inches</th>
<th>D” Diameter-inches</th>
<th>Approx. Net Weight-lbs.*</th>
</tr>
</thead>
</table>

---

**OPTIONAL ACCESSORIES**

- Vertical Roller Guide
- If Hoop Guides are used, optional Roller Guides may be found on page 16.
How to Select Reels

Gleason Electric Cable Reels are assembled from several components with a great variety of combinations possible. In order to select the CORRECT reel from the selection charts on the following pages, follow STEPS 1-3 on this page.

**STEP 1 Identify Your Cable**

Cable is the WHAT in reel selection. WHAT is the size (AWG) and number of conductors? Reel calculations are based on the cable weight per foot, Active Travel and cable O.D. Fill in “Selection Input Required” on the facing page for each reel you order.

**STEP 2 Identify Your Application**

Application is the HOW in reel selection. From the applications on the facing page, choose the one that resembles the way you are handling the cable. Note: Identify any added weight such as extra cable (overhang) or pushbutton stations – Selection charts do NOT consider any added weight.

**STEP 3 Select a Reel Model**

Applying your input from STEP 1 and STEP 2, the correct reel model number may be found in one of the Selection Charts on the following pages, follow STEPS 1–3 on this page.

**EXAMPLE:** A reel must LIFT (TURN TO LIFT CHART) #14 AWG, 10 conductor cable [FIND “14-AWG, 10 CONDUCTOR” ROW] for a Total Travel 40.0 feet, ONE WAY PAYOUT [FIND “40 FEET” COLUMN, THEN FOLLOW “40 FEET” COLUMN DOWN TO “14-AWG, 10 CONDUCTOR” ROW, THE INTERSECTION IS THE CORRECT REEL MODEL – S16801 - 103 - 9 - 1].

**Definition of terms**

- **Active Travel** = The DISTANCE in ONE DIRECTION from reel centerline to full extension of cable; the TRAVEL allowed by one full cable extension. See Figures 1 & 2 below.
- **Total Travel** = The TOTAL DISTANCE reel is to service. See Figures 1 & 2 below.
- **Payout** = The ACTION of cable winding off of the reel, in one or two directions. See Figures 1 & 2 below.
- **Cable Length** = The total AMOUNT of cable REQUIRED for connections, unwind/wind, SAG (if any) and “extra” lengths you require. See “Cable Length–Don’t Cut Yourself Short” at the back of this catalog.

REMEMBER: Cable Length is NEVER equal to Active Travel or Total Travel!

** OPTIONAL ACCESSORIES**

If Hoop Guides are used, optional Roller Guides may be found on page 16.

**NOTE:** Above illustration includes some of the optional accessories described below.

For requirements not fully covered in the Selection Charts such as cable sizes, greater Active Travel or greater weight, contact your factory representative. We will be happy to make specific calculations for you.
S32 DIRECT DRIVE

Dimensional Data & Optional Accessories

**DIMENSIONS**

- **SLIP RING HOUSING DIMENSIONS**
- **SPRING MOTOR DIMENSIONS**
- **MODEL NUMBER**
- **OPTIONAL ACCESSORIES**

**SLIP RING HOUSING DIMENSIONS**

- Second Series of Digits in Model Number
- "A" Dimension in Inches
- "C" Dimension in Inches
- "D" Diameter in Inches

**SPRING MOTOR DIMENSIONS**

- Approximate Net Weight of Reel with Spring Motor(s)
- 200 lbs. 260 lbs. 320 lbs. 380 lbs. 210 lbs. 275 lbs. 340 lbs. 410 lbs.

**MODEL NUMBER**

- "B" Dimension in Inches
- Approximate Net Weight of Reel with Spring Motor(s)

**OPTIONAL ACCESSORIES**

- Vertical Roller Guide
- Horizontal Roller Guide
- Slip Ring
- Dog and Ratchet Assy.

**PROTECTED GEARING...**

Gears used for reeling longer lengths of cable are protected from dust and moisture by a sealed housing. External grease fitting permits lubrication of gears during service with open access to the enclosure. Various gear ratios are available to match specific reeling requirements.

**SUPERIOR BEARINGS...**

All bearings are self-aligning, sealed and pre-lubricated for long and dependable life.

**HOOP GUIDES...**

Optional feature recommended for two-way payout applications.

**SEAL ED GEAR HOUSING...**

Gear driven models include sealed gear housing.

**NO SWEAT, NO STRAIN GEAR REMOVAL...**

Gleason's unique design permits gears to be changed without disassembly of major frame components. Simply remove the spring motor and its removable back plate to fully expose gears for fast, easy changeover.
Gleason’s unique free-wheeling spring hub design allows for easy cable installation and spring tension adjustment. In addition, it protects the spring motor in the event that the cable is severed.

SAFE, SIMPLE SPRING TENSION ADJUSTMENT...
To adjust spring tension, simply remove the inspection cover and adjust with spanner wrench provided. No need to disconnect cable or disassemble reel. The correct number of spring pretension turns is indicated on each reel nameplate.

DESIGNED WITH SAFETY IN MIND...
The Safetychange® spring motor is a power spring sealed in a disposable housing, eliminating the need to handle loose springs. Located outboard on the frame, replacement is safe and easy and does NOT require the reel to be removed from its frame. All Safetychange® spring motors are equipped with an inspection hole to visually check the integrity of the spring while reel is in service.

Gleason uses high-quality spring steel to manufacture these “self-contained” main springs. All springs are lifetime lubricated prior to sealing in disposable Safetychange® housings. When used on multi-spring reels, all springs are connected in parallel so that, in the event that one spring fails, the reel is never without tension. This is a significant safety feature.

FREE-WHEELING HUB FOR SPRING MOTOR...
Gleason uses high-quality spring steel to manufacture these “self-contained” main springs. All springs are lifetime lubricated prior to sealing in disposable Safetychange® housings. When used on multi-spring reels, all springs are connected in parallel so that, in the event that one spring fails, the reel is never without tension. This is a significant safety feature.

NOTE: Above illustration includes some of the optional accessories described below.
CONTINUOUS CONTACT

WB REELS

Gleason WB Reels are continuous contact reels ideal for use in applications where slip ring assemblies are not desired. No slip rings or other sliding contacts are used. Rather, a dual spool and pulley system safely and efficiently pays out and rewinds the cable.

The absence of electrical contact points on WB Reels makes them an outstanding choice for applications involving portable or movable communication or instrumentation equipment. Such equipment could be adversely affected by the varying resistance of sliding electrical contacts or undue twisting of cords or cables resulting in varying impedance.

WB Reels are also a smart choice for hazardous locations where electrical parts on the reel would require dust-tight or explosion-proof protection.

A roller guide is included as standard equipment. A holding dog for window shade-type action can be furnished when required.

FIBER OPTIC CABLE of same approximate O.D. as SO shielded cable listed can be used with Series "WB" reels. Contact your factory representative for details.

RUGGED FRAME BUILT TO LAST...

All-welded steel frame is fabricated from permanent welding fixtures to assure perfect alignment. A time honored Gleason design places major operating components outboard of the frame for ready serviceability. Entire unit is painted with baked polyester for a long-lasting, durable finish.

QUICK, ONE PIECE REMOVAL...

The entire slip ring assembly can be replaced as a unit, if necessary. No need to handle small parts. To remove, simply disconnect wiring and loosen two set screws on the shaft-locking collar.

EVEN WINDING IN MULTIPLE LAYERS...

Edges of steel flanges on cable spool are die-formed to eliminate cable pileup in corners. Segmenting of inner drum permits adjustability to suit various cable diameters – a slight change in cable size may be accommodated by the same reel with only minor field adjustment.
Spring-Driven

ELECTRIC CABLE REELS

MODEL
WB-60-25
WB-75-25
WB-100-60
WB-100-100-60

Simple, positive cable entrance...A positive, watertight connector is provided at the shaft where the cable enters the spool area. Cable feeds easily through the hollow shaft for termination within the slip ring enclosure. Connections are required at one point only.

Easily removable slip ring enclosure...Removes quickly for inspection or service by virtue of the three toggle clamps. An "O" ring seal provides a watertight, dust tight seal suitable for any type of atmosphere.

Optional enclosures, designed for hazardous areas (Class I and Class II), are available upon request.

Available for all standard and most special requirements

This catalog provides details on sizes, capacities, specifications and designs. If you need additional information, contact your local factory representative. Full support is available upon request.

Fast, easy brush replacement...Gleason's brush holder assembly features a unique spring design which permits quick brush removal while ensuring full contact throughout the life of the brush.

Fiber optics

Any fiber optic cable of the same approximate O.D. as SO shielded cable listed can be used with Series "WB" reels. Contact your local factory representative for details.
Cable Length

Don’t Cut Yourself Short!

CALCULATIONS FOR ORDERING OR CUTTING

\[ \text{Cable Length} = 1 + 2 + 3 \]

EXTRA CABLE AT REEL, shown in TABLE 1 or TABLE 2 on the facing page, is REQUIRED for internal connections and one safety wrap. The safety wrap is wound onto the reel.

ACTIVE CABLE is the amount of cable you will require to cover the Active Travel distance. THIS CABLE IS WOUND ONTO THE REEL. See “Selecting”.

OVERHANG means any extra cable you require beyond Active Travel. THIS CABLE MUST NOT BE WOUND ONTO THE REEL. The reel is not designed to wind or lift the weight of this extra cable.

EXAMPLES

Lift

A reel is needed for lifting 10C #14 cable. Active Travel is 40.0 ft. Lift Selection Chart shows Model No. S16801-103-2.

1. Refer to Table 1 (right). Plotting a 9 inch diameter drum and slip ring assembly 103 specifications that this reel requires five extra feet of cable at the reel.

2. Active Cable is equal to the 40.0 ft. of Active Travel.

3. No overhang is required.

Therefore: CUT 45 FT.

NOTE: IF GLEASON SUPPLIES THE CABLE, correct cable length, rounded up to the nearest foot, is automatically calculated based on your input.

IF YOU ARE CUTTING YOUR OWN CABLE, please follow our calculation method shown on this page.

Note: Reels in this catalog are calculated to handle factors and ONLY. If you have any OVERHANG (factor 3), we will be happy to make specific reel model calculations for you.

Stretch

A reel is needed for stretching 10C #14 cable in one direction. Active Travel is 40.0 ft. Stretch Selection Chart shows Model No. S16801-103-2.

1. Refer to Table 1 (right). Plotting a 9 inch diameter drum and slip ring assembly 103 specifications that this reel requires five extra feet of cable at the reel.

2. Because of the 6% sag, Active Cable is greater than the 40.0 ft. of Active Travel.

Active Cable = Active Travel x 1.01
Active Cable = 40.0 ft. x 1.01
Active Cable = 40.4 ft.

3. Overhang of 3.5 feet is required.

Therefore: CUT 49 FT.

NOTE: If reel and cable will be required to lift (support) an added weight of any kind, this must be considered. Consult factory.

Retrieve

A reel is needed for retrieving 10C #14 cable. Active Travel is 40.0 ft. and reel is mounted 2.5 ft. above the ground (lift height). Retrieve Selection Chart shows Model No. S16801-103-2.5

1. Refer to Table 1 (right). Plotting a 9 inch diameter drum and slip ring assembly 103 specifications that this reel requires five extra feet of cable at the reel.

2. Because of LIFT HEIGHT, Active Cable is greater than the 40.0 ft. of Active Travel.

Active Cable = 42.5 ft.

3. Overhang of 3.5 feet is required.

Therefore: CUT 51 FT.

NOTE: Gleason S-Reel springs maintain sag at 6%. For greater sag factors, please consult us.

REMINDER: Cable Length is NEVER equal to Active Travel or Total Travel.

Spring-Driven Electric Cable Reels

In This Catalog...

Series “S” Spring-Driven Electric Cable Reels

Gleason Series “S” reels are spring driven electric cable reels designed to be mounted on moving machinery. Electric current flows from your power source to the current consumer through the cable you specify. S-Reels utilize self-contained slip ring assemblies which transfer current to the cable mounted on the rotating spool. Models for longer travels are fitted with gear assemblies to provide hundreds of application possibilities. Specific application details can be found in this catalog or prepared by our staff for your most exacting requirements.

OPTIONAL SLIP RING ENCLOSURES for hazardous area (Class I and Class II), are available on request.

OPTIONAL ACCESSORIES include roller guide, hoop guides (shown installed on reel at right), rotary limit switch, spool lock, ratchet lock assembly (for hand-pull applications only) and swivel base.

Series “WB” Cable Reels without Slip Rings

For applications such as communication where any variation in impedance must be avoided, choose Gleason Series “WB” continuous contact reels which have no slip rings. Because WB-Reels use one continuous length of cable, there is no break from current source to consumer and that means complete preservation of transmission integrity. This transmission integrity makes WB Reels ideal for use with fiber optic cable.

WB reels are actually two reeling systems in one, winding active and inactive cable separately. The inactive cable compensates for the rotation of the active drum as active cable is payed out and rewound.

ORDERING

To order Gleason Electric Cable Reels, simply contact the Gleason Reel representative in your area.

GLEASON REEL CORP.
Phone: 920-387-4120
Fax: 920-387-4189
WARRANTY

Gleason warrants for a period of twelve (12) months after date of shipment, all goods manufactured or furnished by it to be free from defects in material and workmanship. If, within such warranty period, any such goods are proved, to Gleason’s satisfaction, to be defective, such goods shall be repaired or replaced, or, at Gleason’s option, replaced f.o.b. Gleason’s factory, without charge. Gleason’s obligation shall in all respects conform and be limited to the warranty extended to Gleason by the supplier.

The foregoing warranty is in lieu of all other express or implied warranties (except of title) and of all other obligations of Gleason.

ON THE COVER: Typical Gleason Series "S" reel mounted on an overhead crane for heavy duty, high cycle, vertical lift service.

**TABLE 1**

**Series “S”**

EXTRA CABLE AT REEL for Series “S” reels includes one safety wrap around the drum, cable through the shaft and cable connections to the slip ring leads.

When you have selected a real model, the model number will indicate drum diameter and slip ring assembly code.

Using the lift example from the facing page:

Reel Model No.: S16801 - 103 - 9

**TABLE 2**

**Series “WB”**

EXTRA CABLE AT REEL for Series “WB” reels includes one safety wrap around the active cable drum. Inactive cable to compensate for rotation of active drum and cable through the shaft.

**TABLE 3**

Cable Data

Length Calculations

Typical Cable Specifications

**TABLE 4**

**Type W Cable—600 Volt**

EXTRA CABLE AT REEL (FEET)

**TABLE 5**

**Type G-GC Cable—600 Volt**

Whenever possible, refer to specific manufacturer’s information regarding cable. If this information is not available, these charts are composite and may be used as guides to typical cable sizes and weights.

Refer to National Electric Code for amperage ratings and other details.

**Warranty**

Gleason warrants for a period of twelve (12) months after date of shipment, all goods manufactured or furnished by it to be free from defects in material and workmanship. If, within such warranty period, any such goods are proved, to Gleason’s satisfaction, to be defective, such goods shall be repaired or replaced, or, at Gleason’s option, replaced f.o.b. Gleason’s factory, without charge. Gleason’s obligation shall in all respects conform and be limited to the warranty extended to Gleason by the supplier.

The foregoing warranty is in lieu of all other express or implied warranties (except of title) and of all other obligations of Gleason.
Since 1911, Gleason Reel Corp. has been in the business of CABLE MANAGEMENT. Our products are designed to convey and protect valuable cables and hoses that power and control moving machines of all types. They improve productivity and safety on the job by moving cables and hoses away from hazardous locations on machinery or the shop floor into a controlled environment. Whether you choose Reels for efficient storage and payout from virtually any angle, Festoon Systems for overhead applications or PowerTrak® for protection on machinery in motion, your cables and/or hoses will last longer and provide better service with a cable management system from Gleason Reel Corp. ...The Cable & Hose Management Company!