Pulling Winches with Ratchet Feature

- Laminated, high carbon steel gears for longer life.
- Drive shaft gears are copper brazed for durability. All gears in models DL1300A thru DL3500B are heat treated.
- Rigid, welded reel construction for added strength.
- Winches freewheel when the ratchet is disengaged.
- Load matched gear ratios for easier cranking.
- Variety of finishes available – powder-coated TUFFPLATE finish.
- All plated parts are zinc plated TUFFPLATE finish.
- Heavy duty steel handles with ergonomic strength.
- Drive shaft gears are copper brazed for durability. All gears in models DL1300A thru DL3500B are heat treated.
- Rigid, welded reel construction for added strength.
- Winches freewheel when the ratchet is disengaged.
- Load matched gear ratios for easier cranking.
- Variety of finishes available – powder-coated TUFFPLATE finish.
- All plated parts are zinc plated TUFFPLATE finish.
- Heavy duty steel handles with ergonomic molded grips. Quick attach handle is standard equipment on 2-speed models.
- Embossed, reinforced bases.
- All drive shafts have permanently lubricated bearings.
- 2-speed models have a drive shaft system which allows for both high and low speed cranking from one side.
- 5 models available with 2" strap installed. (See page 4.)
- Individual winch straps available. (See page 6.)
- Cable clamp included on models DL1100A – DL3500B. Cables sold separately. (See page 6.)
- Rigid, welded reel construction for added strength.
- Models DL400 through DL3200A – Equipped with slots in reel for easy installation of optional strap. Strap not included on all models.
- DL400 has ratchet lever drive.
- Hand brake available on heavy duty models. (See page 4.)
- Sleek, molded cover available for models DL2102A, DL2103A, DL2200A, DL2300A and DL2301A. (See page 4.)
- Reel gear covers optional for DL1100A thru DL3500B models.
- Shrouded mounting holes for easy installation.
- Meets SAE Standard J1853. When using cable, select optional large hub. (See page 4.)
### Pulling Winch Specifications

<table>
<thead>
<tr>
<th></th>
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<td>400 lb/181 kg</td>
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<td>DL2000A</td>
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<td>DL2500A</td>
<td>2500 lb/1134 kg</td>
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<td>17.3:1 / 5.4:1</td>
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<td></td>
<td>DL3200A</td>
<td>3200 lb/1452 kg</td>
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<td>17.3:1 / 5.4:1</td>
<td>9-1/2”</td>
<td>219</td>
<td></td>
<td></td>
<td>3/8” x 30”</td>
</tr>
<tr>
<td></td>
<td>DL3500B (1)</td>
<td>3500 lb/1589 kg</td>
<td>1-5/16”</td>
<td>12:1 / 6:1</td>
<td>9-1/2”</td>
<td>135</td>
<td></td>
<td></td>
<td>3/8” x 37”</td>
</tr>
</tbody>
</table>

(1) Hand brake standard equipment.
(2) Capacity based on direct line pull on the third layer of line on the drum. Capacity is reduced as the line builds up on the drum.
(3) Drum capacity based on cable size listed. (Cable not included.) Cable size listed may be too large to be practical for some applications.
Winches with Straps
The following boxed winches are available with straps installed:
DL400 — 12’
DL900A — 15’
DL1100A — 15’
DL1402A — 20’
DL2500A — 25’
Add the letter S after the model number for a strap, e.g. DL900AS.

Larger Reel Hubs
All models may be ordered with a large diameter reel hub. SAE Standard J1853 requires large hubs for steel cables. Add the suffix LH for the large hub, e.g. DL2500ALH.

Patents
Reversible ratchet mechanism.
U.S. Patent 6,116,580
Canadian Patent 2,378,538
DL1402A thru DL3200A

DL1802ASC, DL1800ASC, DL2100ASC and DL2100ASC
Design patents:
German 40001197.2
France 00 0665

Options Available
D-L pulling winches can be purchased with additional options, ie: straps, brakes, large hubs and covers. These additions apply to specific models only.

Full Cover
Models DL1402ASC, DL1802ASC, DL1800ASC, DL2100ASC, DL2100ASC and DL2100ASC feature a polymer enclosure and strap.

Hand Brakes
Hand brakes are optional on DL1800A, DL2000A, DL2500A and DL3200A. Add the suffix B to order, e.g. DL1800AB.

- Streamlined base design.
- Base has charcoal gray textured powder coating over TUFFPLATE plating.
- Gear covers on both sides of base provide a more finished look.
- Deluxe handle grip is softer and more comfortable.
- All models are one speed, and utilize the patented reversible ratchet pawl.
- Tested to the same stringent standards as all D-L winches.

### DLx Winches

<table>
<thead>
<tr>
<th></th>
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<td>DLx1200</td>
<td>1200 lb/544 kg</td>
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<td>7/32” x 56' x 31’</td>
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<td>DLx1500</td>
<td>1500 lb/680 kg</td>
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<td>DLx1900</td>
<td>1900 lb/862 kg</td>
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<td>9/32” x 49’ x 38’</td>
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<tr>
<td>DLx2300</td>
<td>2300 lb/1043 kg</td>
<td>1-1/8”</td>
<td>7.2:1</td>
<td>9-1/2”</td>
<td>95</td>
<td>5/16” x 39” x 38’</td>
</tr>
</tbody>
</table>
General Winch Selection Guidelines

Because the high forces generated when using a winch create potential safety hazards, careful consideration should be given to the winch selection process. Safety should be a primary concern and questions such as what winch features are required for the application, what will be the experience level of the user, and what harsh environmental conditions will exist, should all be answered. More specifically, an important first question should be, “Does the application require the freewheel feature – the ability to pull cable freely from the drum to attach it to the load – available in ratchet-type pulling winches?” If not, a self-locking type winch—brake winch or worm gear winch—should be used. Generally, ratchet-type pulling winches are not recommended for lifting applications, and their use should be limited to horizontal or incline pulling operations requiring a freewheeling feature.

The experience or skill of the intended user is also important. For example, self-locking brake or worm gear type winches should generally be selected for rental equipment, even if the lack of a freewheel feature will make the operation slower or more cumbersome. This is because rental equipment will frequently be used by inexperienced operators unfamiliar with the safe use of the product, and self-locking winches reduce the skill and understanding necessary to operate a winch safely.

If the winch is likely to be used in a harsh environment, including such things as salt water, a potential for damage or abuse of the winch, or the likelihood of little or no periodic maintenance, then this should be factored into the winch selection. A larger size winch should possibly be selected, or guards on the product using the winch should be provided to protect the winch from damage or abuse.

It is sometimes difficult to determine the amount of load being pulled with a winch. All D-L hand winches are designed to pull their rated capacity with a force on the handle in the approximate range of 35 to 55 pounds. This means that the winch should be able to be cranked easily with one hand. If not, it is probably overloaded. D-L winches are not designed to be used as hoists for lifting, supporting, or transporting people, or for loads over areas where people could be present. D-L winches are built to high quality standards, but do not include the features necessary to make them appropriate for moving of humans or overhead hoisting applications.

Boat Weight To Winch Capacity Ratio

A commonly used ratio of boat size to winch capacity is 2 to 1. Example: a 2200 lb boat requires 1100 lb winch. There are, however, many factors to consider in selecting the proper size winch which are beyond the control of the winch manufacturer. For example, the ratio can sometimes be stretched to 3 to 1 when using a trailer equipped with good quality free-turning rollers maintained in excellent condition and most commonly used on ramps where the boat floats most of the way onto the trailer. The ratio should be reduced to as much as 1 to 1 on trailers using wooden bunks with no self-alignment capabilities, most frequently used on boat ramps requiring that the boat be winched a long way onto the trailer. Note that pontoon boat trailers and other special designs require special consideration to winch capacity selection.

Rolling Load Capacity

To calculate the rolling load capacity of a winch – the amount of load that can be pulled up an incline – multiply the winch capacity by the factor shown in the chart. The multiplication factor shown includes a 10% rolling friction factor.

Note: 5% incline is a 1/2 ft. rise in 10 ft.
**Hand Winch Accessories**

**Hand Winch Replacement Handles**

- **6307** 7” DL Handle. For DL500-1302 and WG series including ‘A’ models. Interchangeable with 6318.
- **6318** 9-1/2” DL Handle. For DL1400 & 1402 including ‘A’ models. Interchangeable with 6307.
- **6319** 9-1/2” DL Handle. For DL1400 & 1402 including ‘A’ models. Interchangeable with 6318.
- **6319** 9-1/2” DL Handle. For DL1400 & 1402 including ‘A’ models. Interchangeable with 6318.
- **6322** 9-1/2” DL Quick Attach Handle. For DL 1602DD and DL1700-3500B including ‘A’ models.

Above models individually packaged. 6/carton.

**6450** 7” DLB Handle. For DLB350-1200 including ‘A’ models. Interchangeable with 6451 and 6452.
- **6451** 9-3/8” DLB Handle. For DLB1500-2500 including ‘A’ models. Interchangeable with 6450 and 6452.
- **6452** 12” DLB Handle. Interchangeable with 6450 and 6451.
- **6455** 12-1/4” ‘B’ Series Handle. For all ‘B’ Series Brake Winches.

**Winch Cable/Hook Assembly**

- **6210** 3/16” x 25’
- **6211** 3/16” x 50’
- **6212** 7/32” x 50’
- **6360** 3/16” x 20’
- **6361** 7/32” x 25’
- **6520** 1/4” x 25’
- **6522** 5/16” x 25’
- **6524** 1/4” x 50’

Flexible high strength 7 x 19 galvanized aircraft cable.

- 3/16” cables are suitable for use on D-L hand winches up to 1800 lb capacity and electric winch models SA5000 and SA7000. 7/32” cables are suitable for use on D-L hand winches up to 2500 lb capacity and electric winch models SA9000 and SA12000. 1/4” or 5/16” cables are suitable for D-L hand winches up to 3500 lb capacity.

**Cable Clamp**

- For all D-L Pulling and Brake Winches.

**Winch Mounting Bracket**

Universal right angle mounting bracket fits most hand winches up to 2000 lb capacity. Heavy 1/4” steel with tough powder coated finish.

**Ratchet Repair Kits**

For D-L pulling winches.

- **6290** DL500 / DL600 / DL800 / DL900 / DL1000 / DL1100 / DL1300
- **6290A** DL600A / DL900A / DL1100A / DL1300A
- **6291** DL1200 / DL1302 / DL1400 / DL1402
- **6291A** DL1402A / DL1602A / DL1602ADD
- **6292** DL1602 / DL1602DD
- **6293** DL1700 / DL1800 / DL1802 / DL2000 / DL2500 / DL3000
- **6294A** DL1800A / DL1802A / DL2000A / DL2102A / DL2500A / DL3200A

**Ratcheting Handle**

When used in place of regular handle, it allows operator to move load without turning handle a full revolution. Ideal for applications where cranking space is limited.

- **6323** fits B series.
- **6327** fits DLB series.
- **6459** fits DL1602A and DL1802A.

**6147 PWC Trailer Strap & Hook**

Designed for PWC trailer application. 12” strap with hook includes 1” x 18” loop. Designed for winches up to 900 lb. Packed with 1/4” x 2-1/2” mounting bolt and locknut.

**6285 Cable Clamp**

For all D-L Pulling and Brake Winches.

**6565 Winch Mounting Bracket**

Universal right angle mounting bracket fits most hand winches up to 2000 lb capacity. Heavy 1/4” steel with tough powder coated finish.

**Cable Fastener - Threaded**

For most pulling, brake and worm gear type winches.

- **6357** 3/8” fits DL600A and DL900A models. For 3/16” cable.
- **6358** 7/16” fits DL1100A thru DL1402A, B1200B and DLB800A models. For 3/16”, 7/32”, and 1/4” cable.
- **6359** 1/2” fits DL1602A thru DL3200A, B1200B thru B3503, DLB1200A thru DLB2500A and all WG models. For 1/4", 9/32", and 5/16” cable.

**Hand Winch Strap and Hook**

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<th>Model No.</th>
<th>Size</th>
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<th>Breaking Strength</th>
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<td>2” x 15’ / 50mm x 4.6m</td>
<td>1700lb / 771kg</td>
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<td>1700lb / 771kg</td>
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<td>6248</td>
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<td>2600lb / 1180kg</td>
<td>4000lb / 1814kg</td>
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<td>2” x 20’ / 50mm x 6.1m</td>
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<td>6250</td>
<td>2” x 25’ / 50mm x 7.6m</td>
<td>2600lb / 1180kg</td>
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<td>6542</td>
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<td>3200lb / 1453kg</td>
<td>4800lb / 2179kg</td>
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<td>6551</td>
<td>2” x 15’ / 50mm x 4.6m</td>
<td>3700lb / 1678kg</td>
<td>6600lb / 2996kg</td>
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<td>6552</td>
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<td>6553</td>
<td>2” x 25’ / 50mm x 7.6m</td>
<td>3700lb / 1678kg</td>
<td>6600lb / 2996kg</td>
</tr>
<tr>
<td>6450</td>
<td>7” DLB Handle. For DLB350-1200 including ‘A’ models. Interchangeable with 6451 and 6452.</td>
<td></td>
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</tr>
<tr>
<td>6451</td>
<td>9-3/8” DLB Handle. For DLB1500-2500 including ‘A’ models. Interchangeable with 6450 and 6452.</td>
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<tr>
<td>6452</td>
<td>12” DLB Handle. Interchangeable with 6450 and 6451.</td>
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<tr>
<td>6455</td>
<td>12-1/4” ‘B’ Series Handle. For all ‘B’ Series Brake Winches.</td>
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</table>

Includes mounting hardware.
**BRAKE WINCHES**

D-L Brake Winches are suitable for many lifting and lowering applications. Self-locking brake winches provide additional safety and control for many lifting and pulling jobs. The automatic friction brake supplies constant, positive holding action and prevents a runaway load. Brake is fully automatic and the load remains in position any time the handle is released. A load is required to pull line from the winch drum.

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**Brake Winch Features**

- Laminated high carbon steel gears are heat treated for longer life.
- Embossed, reinforced bases for extra strength.
- Meets ASAE Safety Standard S361.3.
- Handle is integral part of braking mechanism.
- Cable clamp standard. Cable not included.
- Ratcheting handle for limited cranking space is available.
- DLB series available in powder coated copper bronze or zinc plated TUFFPLATE finish.

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**CHAIN DRIVE WINCH FOR BOAT LIFTS**

**CD4000**

- Enclosed design
- Aluminum housing
- Utilizes sprockets and roller chain
- Built-in brake mechanism
- Removable access panel and top cover makes it easy to change brake pads if needed
- Rated at 4000 lb double line, 2100 lb single line
- 25.1:1 gear ratio
- Mounting holes identical on both sides

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Front access panel and top cover are easily removed

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NEW
DLB models have brake winch safety and rugged construction at an economical price. DLB series available in powder coated copper bronze or zinc plated TUFFPLATE finish.

In addition to the standard features 4 models, DLB805A, DLB1205A, DLB1505A and DLB2505A, offer the ability to freewheel under no load conditions.

**Brake Winch Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Capacity (1)</th>
<th>Min. Operating Load Required</th>
<th>Drum Hub Dia.</th>
<th>Gear Ratio</th>
<th>Handle Length</th>
<th>Maximum Mechanical Advantage</th>
<th>Maximum Drum Capacity</th>
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</thead>
<tbody>
<tr>
<td>DLB350A</td>
<td>350 lb/159 kg</td>
<td>50 lb/23 kg</td>
<td>1”</td>
<td>3.2:1</td>
<td>7”</td>
<td>39.8</td>
<td>1/8”x84’ 15’</td>
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<tr>
<td>DLB800A</td>
<td>800 lb/363 kg</td>
<td>50 lb/23 kg</td>
<td>1-7/8”</td>
<td>4.4:1</td>
<td>7”</td>
<td>29.9</td>
<td>3/16”x68’ 27”</td>
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<tr>
<td>DLB805A</td>
<td>800 lb/363 kg</td>
<td>50 lb/23 kg</td>
<td>2-1/2”</td>
<td>5.4:1</td>
<td>9” Std. 9-3/8” Opt.</td>
<td>27.8 37.2</td>
<td>7/32”x69’ 31”</td>
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<tr>
<td>DLB1200A</td>
<td>1200 lb/545 kg</td>
<td>50 lb/23 kg</td>
<td>2-1/2”</td>
<td>5.4:1</td>
<td>9-3/8” Std. 12” Opt.</td>
<td>36.8 47.1</td>
<td>1/4”x60’ 31”</td>
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<tr>
<td>DLB1205A</td>
<td>1200 lb/545 kg</td>
<td>75 lb/34 kg</td>
<td>2-1/2”</td>
<td>5.4:1</td>
<td>9-3/8” Std. 12” Opt.</td>
<td>115.3 147.6</td>
<td>5/16”x34’ 21”</td>
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<tr>
<td>DLB1500A</td>
<td>1500 lb/681 kg</td>
<td>75 lb/34 kg</td>
<td>2-1/2”</td>
<td>5.4:1</td>
<td>9-3/8” Std. 12” Opt.</td>
<td>115.3 147.6</td>
<td>5/16”x34’ 21”</td>
</tr>
<tr>
<td>DLB1505A</td>
<td>1500 lb/681 kg</td>
<td>175 lb/80 kg</td>
<td>2-1/2”</td>
<td>17.3:1</td>
<td>9-3/8” Std. 12” Opt.</td>
<td>115.3 147.6</td>
<td>5/16”x34’ 21”</td>
</tr>
<tr>
<td>DLB2500A</td>
<td>2500 lb/1134 kg</td>
<td>175 lb/80 kg</td>
<td>2-1/2”</td>
<td>17.3:1</td>
<td>9-3/8” Std. 12” Opt.</td>
<td>115.3 147.6</td>
<td>5/16”x34’ 21”</td>
</tr>
<tr>
<td>DLB2505A</td>
<td>2500 lb/1134 kg</td>
<td>175 lb/80 kg</td>
<td>2-1/2”</td>
<td>17.3:1</td>
<td>9-3/8” Std. 12” Opt.</td>
<td>115.3 147.6</td>
<td>5/16”x34’ 21”</td>
</tr>
</tbody>
</table>

(1) Capacity based on direct line pull on first layer of line on drum. Capacity is reduced as line builds up on drum.
(2) Drum capacity shown is based on cable size listed. (*Cable not included.*) Cable size listed may be too large to be practical for some applications.

**Freewheeling Feature**

All D-L brake winches are built for multipurpose hauling and lifting operations. They are not to be used as hoists for lifting, supporting or transporting people, or for loads over areas where people could be present.
**B SERIES BRAKE WINCHES**

**B Series Features**
Extra heavy construction for long life. Gear cover enclosed braking mechanism.

- B series (except B1200) has drive shaft needle bearings.
- B series available in powder coated copper bronze (except B4010A and B3503) or zinc plated TUFFPLATE finish with powder coated black reel.

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**Brake Winch Specifications**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>B1200B</td>
<td>1200 lb/545 kg (1)</td>
<td>75 lb/34 kg</td>
<td>1-1/8&quot;</td>
<td>4.1</td>
<td>12-1/4&quot;</td>
<td>72.9</td>
<td>7/32&quot;x57&quot;</td>
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<tr>
<td>B1202B</td>
<td>1200 lb/545 kg (2)</td>
<td>75 lb/34 kg</td>
<td>2-1/2&quot;</td>
<td>4.1</td>
<td>12-1/4&quot;</td>
<td>36.0</td>
<td>7/32&quot;x46&quot;</td>
<td></td>
</tr>
<tr>
<td>B1500</td>
<td>1500 lb/681 kg (1)</td>
<td>150 lb/68 kg</td>
<td>1-1/8&quot;</td>
<td>6.1</td>
<td>12-1/4&quot;</td>
<td>106.9</td>
<td>1/4&quot;x52&quot;</td>
<td></td>
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<tr>
<td>B1502</td>
<td>1500 lb/681 kg (2)</td>
<td>150 lb/68 kg</td>
<td>2-1/2&quot;</td>
<td>6.1</td>
<td>12-1/4&quot;</td>
<td>53.5</td>
<td>1/4&quot;x45&quot;</td>
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<tr>
<td>B2500</td>
<td>2500 lb/1135 kg (1)</td>
<td>300 lb/136 kg</td>
<td>1-5/16&quot;</td>
<td>12.1</td>
<td>12-1/4&quot;</td>
<td>180.9</td>
<td>5/16&quot;x51&quot;</td>
<td></td>
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<tr>
<td>B2502</td>
<td>2500 lb/1135 kg (2)</td>
<td>300 lb/136 kg</td>
<td>2-1/2&quot;</td>
<td>12.1</td>
<td>12-1/4&quot;</td>
<td>104.5</td>
<td>5/16&quot;x45&quot;</td>
<td></td>
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<tr>
<td>B2503</td>
<td>2500 lb/1135 kg (2)</td>
<td>300 lb/136 kg</td>
<td>3-1/8&quot;</td>
<td>12.1</td>
<td>12-1/4&quot;</td>
<td>85.5</td>
<td>5/16&quot;x40&quot;</td>
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<tr>
<td>B3503</td>
<td>3500 lb/1589 kg (2)</td>
<td>500 lb/227 kg</td>
<td>3-1/8&quot;</td>
<td>18.75:1</td>
<td>12-1/4&quot;</td>
<td>131.3</td>
<td>3/8&quot;x28&quot;</td>
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<tr>
<td>B4010A</td>
<td>4000 lb/1814 kg (2) (4)</td>
<td>--</td>
<td>2-1/2&quot;</td>
<td>41:1</td>
<td>--</td>
<td>--</td>
<td>9/32&quot;x54&quot; (27&quot; per side)</td>
<td></td>
</tr>
</tbody>
</table>

(1) Capacity based on direct line pull on third layer of line on drum. Capacity is reduced as line builds up on drum.
(2) Capacity based on direct line pull on first layer of line on drum. Capacity is reduced as line builds up on drum.
(3) Drum capacity shown is based on cable size listed. (Cable not included.)
(4) 4000 lb. capacity based on using 2 cables in opposite directions with equal load of 2000 lb on each cable.

---

**B4010A**
Designed for ceiling mount applications. 4000 lb rated capacity loop drive brake winch with split reel. Allows for pulling of 2 cables in opposite directions. Zinc plated TUFFPLATE finish.
Applications requiring safe, controlled movement of loads need D-L worm gear winches. The reel automatically stops turning whenever cranking is stopped. There is no freewheel mode, no special mechanism required to stop gear movement and they do not require a minimum load for operation.

WORM GEAR WINCHES

WG1500HEX

WG1500SR

Worm Gear Features

- Laminated high carbon steel gears are heat treated for longer life.
- Heavy gauge embossed steel bases for extra strength.
- Permanently lubricated bearings on drive shaft are maintenance-free.
- Available in regular or split reel, which allows for operation of 2 lines for greater versatility. Also available with 5/8" hex drive for operation with electric drill or removable handle.
- Choose from handle or loop drive models.
- Loop drive allows the winch to be mounted out of reach and operated with an extension pole fitted to engage the loop.
- Standard finish is powder coated copper bronze.

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WG1500</td>
<td>Regular Drum Handle Drive</td>
<td>1500 lb/681 kg</td>
<td>1.5&quot;</td>
<td>30:1</td>
<td>7&quot;</td>
<td>240</td>
<td>1/4&quot;x43'</td>
</tr>
<tr>
<td>WG1500LD</td>
<td>Regular Drum Loop Drive</td>
<td>1500 lb/681 kg</td>
<td>1.5&quot;</td>
<td>30:1</td>
<td>—</td>
<td>—</td>
<td>1/4&quot;x43'</td>
</tr>
<tr>
<td>WG1500SR</td>
<td>Split Reel Handle Drive</td>
<td>1500 lb/681 kg</td>
<td>1.5&quot;</td>
<td>30:1</td>
<td>7&quot;</td>
<td>240</td>
<td>1/4&quot;x43'</td>
</tr>
<tr>
<td>WG1500HEX</td>
<td>Regular Drum Handle Drive</td>
<td>1500 lb/681 kg</td>
<td>1.5&quot;</td>
<td>30:1</td>
<td>—</td>
<td>—</td>
<td>1/4&quot;x43'</td>
</tr>
<tr>
<td>WG2000</td>
<td>Regular Drum Handle Drive</td>
<td>2000 lb/908 kg</td>
<td>1.5&quot;</td>
<td>40:1</td>
<td>7&quot;</td>
<td>314</td>
<td>9/32&quot;x49'</td>
</tr>
<tr>
<td>WG2000LD</td>
<td>Regular Drum Loop Drive</td>
<td>2000 lb/908 kg</td>
<td>1.5&quot;</td>
<td>40:1</td>
<td>—</td>
<td>—</td>
<td>9/32&quot;x49'</td>
</tr>
<tr>
<td>WG2000SR</td>
<td>Split Reel Handle Drive</td>
<td>2000 lb/908 kg</td>
<td>1.5&quot;</td>
<td>40:1</td>
<td>7&quot;</td>
<td>314</td>
<td>9/32&quot;x49'</td>
</tr>
<tr>
<td>WG2000SRLD</td>
<td>Split Reel Loop Drive</td>
<td>2000 lb/908 kg</td>
<td>1.5&quot;</td>
<td>40:1</td>
<td>—</td>
<td>—</td>
<td>9/32&quot;x49'</td>
</tr>
<tr>
<td>WG2000HEX</td>
<td>Regular Drum Handle Drive</td>
<td>2000 lb/908 kg</td>
<td>1.5&quot;</td>
<td>40:1</td>
<td>—</td>
<td>—</td>
<td>9/32&quot;x49'</td>
</tr>
</tbody>
</table>

(1) Capacity is based on direct line pull on the first layer of line on the drum. Capacity is reduced as line builds up on the drum.

(2) Drum capacity shown is based on cable size listed. (Cable not included.) Cable size listed may be too large to be practical for some applications.
Dutton-Lainson Company's versatile StrongArm electric winches provide load-moving muscle with just the push of a button or switch. With rated load capacities up to 4500 lb (dead-weight) double line operation, these winches will save manpower and make quick work of difficult loading and pulling jobs. All StrongArm electric winches, except the TW4000, offer Power-in, Power-out, controlled Freewheel and automatic braking. Accessories allow for easy mounting on trailers, vehicle hitch balls and other machinery and equipment. Remote control kits are also available.

For vertical lifting applications, we recommend ordering a winch with no clutch installed. Call factory to specify.

**Electric Winch Ratings**

Electric winches are designed for intermittent use only. These ratings are based on a 10 ft. pull for SA Series and a 6 ft. pull for TW Series. For longer pulls at full capacity, occasional motor cooling periods should be allowed. For rolling load capacity, see page 5.

**Winch Controls**

Electric switch and clutch controls are both located on the same side for easy operation. Electric switch automatically returns to the “OFF” position when released. Clutch control provides for smooth load control from a locked to a free-wheel position. It automatically returns to a locked position when released (except on the TW4000). If desired, clutch can be used for a controlled load release without electric power. Clutch can also be locked in the freewheel position for easy cable removal.

**SA & TW Series Features**

- Electric winch gear-train uses heat-treated sintered-iron gears for smooth, quiet operation.
- Final drive gears are heat-treated high carbon steel for greater strength.
- Precision needle bearings are used in high-load areas for low friction and longer life.
- Die formed base is adapted for quick mounting applications.
- Hook safety snap keeps load securely attached.
- High impact weather resistant case provides excellent protection for internal components.
- Attractive brushed stainless steel front plate for superior rust resistance.

**SA Remote Control Models**

- Both AC & DC models now available with built-in remote control.
- Hand held switch pendant with 10’ cord.
- Includes dynamic brake feature.

All SA Remote Control Models have model numbers ending in 15. See Chart on Page 12
ELECTRIC WINCHES

- Features Power-in, Power-out, controlled Freewheeling clutch and automatic brake.
- Available in 120 volt AC and 12 volt DC models.
- SA models equipped with flexible high strength 7 x 19 galvanized airplane cable (except SA9010AC).
  All SA models will also accept 2" wide strap.
- Emergency crank handle is standard equipment.

AC Models

- 120 volt AC operation complete with 10 foot, 3 wire grounded power cord and built-in 3 position rocker switch.
- Available with CSA NRTL/C approval, signifying the winch has been evaluated to applicable ANSI/UL and CSA standards for use in the U.S. & Canada. NRTL (Nationally Recognized Testing Laboratory) is designation granted by OSHA to laboratories which have been recognized to perform certification to U.S. standards.
- 6349 Dual Switch Remote Control with dynamic brake feature is available factory installed (see chart below) or separately (see page 14).
- Model SA9010AC is designed for davit applications in and near salt water environment. It includes SA9000AC less clutch (eliminates freewheeling) and cable. Power-in and Power-out only with stainless steel reel. Also includes GFCI breaker and 6349 dynamic brake remote.

DC Models

- High-torque 12 volt DC motor has circuit-breaker overload protection.
- StrongArm DC electric winches have a dynamic motor brake as well as a mechanical friction brake to more securely hold the load.
- DC models include wiring harness (25 foot positive battery wire and 8 foot ground wire).
- Remote control available built-in (see chart below) or as a kit (see page 14).

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts / Amps</th>
<th>Load Capacity (lb)</th>
<th>Gear Ratio</th>
<th>Cable</th>
<th>Pulley Block &amp; Hook</th>
<th>Approximate Load Speed (ft./min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA5000 &amp; SA5015</td>
<td>12 Volt DC / 70</td>
<td>1500 lb/681 kg</td>
<td>189:1</td>
<td>3/16&quot; x 20&quot; (6360)</td>
<td>16 4 8 4</td>
<td></td>
</tr>
<tr>
<td>SA5000AC &amp; SA5015AC</td>
<td>120 Volt AC / 8</td>
<td>1200 lb/545 kg</td>
<td>189:1</td>
<td>3/16&quot; x 20&quot; (6360)</td>
<td>35 16 16 9</td>
<td></td>
</tr>
<tr>
<td>SA7000 &amp; SA7015</td>
<td>12 Volt DC / 70</td>
<td>2200 lb/999 kg (2)</td>
<td>189:1</td>
<td>3/16&quot; x 50&quot; (6211)</td>
<td>• 16 6 4.5 3.5</td>
<td></td>
</tr>
<tr>
<td>SA7000AC &amp; SA7015AC</td>
<td>120 Volt AC / 8</td>
<td>1800 lb/817 kg (2)</td>
<td>189:1</td>
<td>3/16&quot; x 50&quot; (6211)</td>
<td>• 17.5 8 9.5 6</td>
<td></td>
</tr>
<tr>
<td>SA9000 &amp; SA9015</td>
<td>12 Volt DC / 70</td>
<td>3000 lb/1362 kg</td>
<td>570:1</td>
<td>7/32&quot; x 25&quot; (6361)</td>
<td>11 5 4 2.5</td>
<td></td>
</tr>
<tr>
<td>SA9005</td>
<td>Same as SA9000 except less clutch &amp; Remote Kit #6383 (4)</td>
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<tr>
<td>SA9000AC &amp; SA9015AC</td>
<td>120 Volt AC / 8</td>
<td>2700 lb/1226 kg</td>
<td>570:1</td>
<td>7/32&quot; x 25&quot; (6361)</td>
<td>18 6 7 3.5</td>
<td></td>
</tr>
<tr>
<td>SA9010AC</td>
<td>Same as SA9000AC except less clutch &amp; cable with stainless steel reel &amp; GFCI in 10’ cord and 6349 Dynamic Brake</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SA12000 &amp; SA12015</td>
<td>12 Volt DC / 70</td>
<td>4500 lb/2043 kg (2)</td>
<td>570:1</td>
<td>7/32&quot; x 50&quot; (6212)</td>
<td>• 5 2.5 2 1.5</td>
<td></td>
</tr>
<tr>
<td>SA12000AC &amp; SA12015AC</td>
<td>120 Volt AC / 8</td>
<td>4000 lb/1816 kg (2)</td>
<td>570:1</td>
<td>7/32&quot; x 50&quot; (6212)</td>
<td>• 9 3 4 2</td>
<td></td>
</tr>
</tbody>
</table>

(1) Model numbers with 15 have built-in remote control (AC models use 6349 remote). (2) Double line operation.
(3) For a full reel of line, adjust capacity according to graph on page 11. (4) See page 14.

All D-L StrongArm electric winches are built for multipurpose hauling and pulling operations. They are not to be used as hoists for lifting, supporting, or transporting people, or for handling loads over areas where people could be present.
TW ELECTRIC WINCHES

- Electric winches for boat trailer and other horizontal pulling applications.
- Built to the same high quality standards as the SA series.
- Wiring harness (25 foot positive battery wire and 8 foot ground wire) included.
- Equipped with 20' x 2" polyester strap and hook.
- Both TW models now available with built-in remote control (hand held switch pendant with 10' cord).

**TW4000**

- Designed for boats up to 4000 lb.
- Features Power-in and Freewheel-out operation with positive mechanical brake.
- Clutch control knob engages gears or releases load in a controlled Freewheel mode.

**TW9000**

- For boats up to 9000 lb.
- Offers Power-in, Power-out and Freewheel operation with dynamic brake and mechanical friction brake.
- 3 position rotary switch.
- Includes emergency crank handle.
- Same clutch control feature as the SA series.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Volts / Amps</th>
<th>Load Capacity**</th>
<th>Gear Ratio</th>
<th>Strap</th>
<th>Approximate Load Speed (ft./min.)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No Load</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Full Reel</td>
</tr>
<tr>
<td>TW4000</td>
<td>12 Volt DC / 40</td>
<td>1500 lb/681 kg</td>
<td>324:1</td>
<td>2&quot; x 20' (6149)</td>
<td>22</td>
</tr>
<tr>
<td>TW4015</td>
<td>12 Volt DC / 40</td>
<td>1500 lb/681 kg</td>
<td>324:1</td>
<td>2&quot; x 20' (6149)</td>
<td>22</td>
</tr>
<tr>
<td>TW9000</td>
<td>12 Volt DC / 70</td>
<td>3000 lb/1362 kg</td>
<td>570:1</td>
<td>2&quot; x 20' (6542)</td>
<td>15</td>
</tr>
<tr>
<td>TW9015</td>
<td>12 Volt DC / 70</td>
<td>3000 lb/1362 kg</td>
<td>570:1</td>
<td>2&quot; x 20' (6542)</td>
<td>15</td>
</tr>
</tbody>
</table>

**For a full reel of line, adjust capacity according to graph on page 11**
6364 StrongArm Crank Handle
Zinc plated TUFFPLATE finish. Fits SA models and TW9000. Features spring loaded safety clip.

6170 GFCI Breaker
For 120 volt AC StrongArm winch models or other applications. Rated 15 amp, 125 volt, 3 conductor 14 gauge wire, 10’ length, Breaker mounted 7 1/2” from plug. Water resistant.

6349 Dynamic Brake Remote Control
Fits all 120 volt AC StrongArm electric winch models. Dual switch controls, in/out and off/run. Provides dynamic braking function. Dynamic brake supplements mechanical brake to bring a load to a quick halt without coasting.

6367 In-Cab Switch Receptacle
For 12 volt DC StrongArm SA winch models. Mounts under dashboard for winch operation from inside cab. Includes switch bracket and 10’ of wire. Plugs directly into winch switch pocket without rewiring.

6371 Remote Hand-Held Switch
For 12 volt DC StrongArm SA winch models. Provides 10-foot remote hand-held switch unit for wiring directly to winch. Pendant has an “In-Off-Out” switch similar to power switch provided on all 120 volt AC StrongArm winch models.

6383 In-Cab Remote Switch Kit
For 12 volt DC StrongArm SA winch models. Includes heavy-duty 3-position rotary switch, 80 amp circuit breaker, 15 feet (+) and 5 feet (-) battery wires and two 10 foot switch-to-winch wires. Switch can be mounted in vehicle dashboard for easy access. Plugs directly into winch switch pocket without rewiring.

6368 Adapter Plate
Heavy 3/8” x 4” x 8” plated steel plate with quick mount studs, properly mounts winch on narrow stands.

6366 Ball Adapter Plate
Makes StrongArm SA Series winch available for instant mount operation. Bolt plate to winch, slip pear-shaped cutout over any standard front or rear mounted hitch ball up to 2”. Zinc plated TUFFPLATE finish.

6363 Winch Cover
Keeps all StrongArm and TW series winches clean, dry and looking like new. Strong vinyl.

6365 Quick Mount Kit
Provides quick, easy winch installation and removal. Includes 3 shoulder studs and nuts, plus 3/8” bolt, lock washer and wing nut.

6367 In-Cab Switch Receptacle
For 12 volt DC StrongArm SA winch models. Mounts under dashboard for winch operation from inside cab. Includes switch bracket and 10’ of wire. Plugs directly into winch switch pocket without rewiring.

6369 Dynamic Brake Remote Control
Fits all 120 volt AC StrongArm electric winch models. Dual switch controls, in/out and off/run. Provides dynamic braking function. Dynamic brake supplements mechanical brake to bring a load to a quick halt without coasting.

6372 Remote Hand-Held Switch
For 120 volt AC StrongArm winch models. Provides 10-foot remote hand-held switch unit for wiring directly to winch. Pendant has an “In-Off-Out” switch similar to power switch provided on all 120 volt AC StrongArm winch models.

6373 Plug-in Connector
Accessory for 6371, 6372 and 6349 Remote Switch Kits.

6374 In-Cab Remote Switch Kit
For 12 volt DC StrongArm SA winch models. Includes heavy-duty 3-position rotary switch, 80 amp circuit breaker, 15 feet (+) and 5 feet (-) battery wires and two 10 foot switch-to-winch wires. Switch can be mounted in vehicle dashboard for easy access. Plugs directly into winch switch pocket without rewiring.

6362 Electrical Quick Connect
6385 For all 12 volt DC SA models and TW9000.
6288 For TW4000.

6576 Wiring Harness
6362 fits 12 volt DC SA models except those ending in 15. 25’ power cable, 8’ ground cable, #8 wire with switch and 70 amp circuit breaker.
6575 fits TW4000 for model year 2013 and before. 25’ power cable, 8’ ground cable. #12 wire with 35 amp circuit breaker.
6578 fits TW4000 for model year 2014 to present.
6576 fits TW9000 and SA models ending in 15. 25’ power cable, 8’ ground cable. #8 wire with 70 amp circuit breaker.

6370 Angle Mounting Plate
For mounting all StrongArm electric winches to trailer winch stands where insufficient room and improper angle are present.
Coiled Safety Cable Sets

6000
5/16” vinyl coated cables with safety hooks. For use on trailers up to 6500 lbs. Coil tension eliminates dragging and rattles. Cables extend to 40”. Meets SAE and V-5 standards. Sold in pairs.

Safety Chains
All D-L safety chains are welded link construction with a bright zinc plated finish. Each chain includes a heavy steel hook with safety clip. Meets SAE and V-5 standards. 2/package.

Chains & Cables

<table>
<thead>
<tr>
<th>Model</th>
<th>SAE Class</th>
<th>Length &amp; Type</th>
<th>Cable or Chain Link Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6217</td>
<td>1</td>
<td>Two 24” Chains</td>
<td>3/16”</td>
</tr>
<tr>
<td>6255</td>
<td>1</td>
<td>Two 18” Chains</td>
<td>3/16”</td>
</tr>
<tr>
<td>6227</td>
<td>2</td>
<td>Two 36” Chains</td>
<td>5/0</td>
</tr>
<tr>
<td>6254</td>
<td>3</td>
<td>Two 36” Chains</td>
<td>1/4”</td>
</tr>
<tr>
<td>6000</td>
<td>4 (6500 lb)</td>
<td>Two 40” Cables</td>
<td>5/16” coated</td>
</tr>
</tbody>
</table>

Spare Tire Carriers

6220
Extra length allows handling of wide tires or spans the wider tongues of custom built trailers. Fits 4 or 5 hole rims. Zinc plated finish.

6281
Spare tire carrier with bracket (padlock not included).

6280
Spare tire carrier with lock, adds extra protection.

6126 Extra Offset Spare Tire Carrier
This heavy duty carrier extends the spare tire at an angle to avoid damage or marring of boat finish. Zinc plated TUFFPLATE finish. Fits wheel sizes from 13” to 15”, 5 or 6 hole rims and trailer tongues 2” to 3” wide, and 3” to 5” tall.

6259 Tipperlatch
For use on tilt-bed medium & light duty trailers such as PWC, snowmobile & utility. Automatic latch holds tilt bed in place. Spring loaded non-pinchning latch for easy release. Zinc plated TUFFPLATE finish.

ACCESSORIES

Pulley Blocks
Pulley Blocks for double line operation on electric winches. Feature bronze bushings.

6209
Standard

6213
With hook

6216
With swivel hook

6239
Snap Hook
Forged steel hook with safety latch. Tensile strength 7500 lb.

6750
Toggle Clamp
With cam action. For tie downs and hold downs. Zinc plated TUFFPLATE finish.

6230 Bow Hold Down
Snap lock, spring tension, adjustable to maximum 32” length. Wide hook fits most bow eyes. Zinc plated. Furnished with 2” eye bolt.

6231 Transom Hold Down
For inboards and inboard outdrives. Snap lock spring tension, adjustable to maximum 32” length. Wide hook permits use with ski rings in transom. Zinc plated. Furnished with “S” hook for mounting. Sold in pairs.

6121 Trailer Spare Tire Carrier
Extends spare tire up and away from trailer and boat. Heavy-duty steel construction. Fits wheel sizes from 9” to 14”, 4 or 5 hole rims and trailer tongues up to 3” x 5”. Complete with mounting hardware. Available with durable black powder-coated painted finish or zinc plated TUFFPLATE finish. Specify painted or plated when ordering.

6122
Similar to 6121, but fits aluminum I-beam trailers. Three sizes – 4-1/2”, 5-1/2” and 6-1/2”.

D-L Pulley Blocks are suitable for use with StrongArm Electric Winches. Recommended safe working load for all other applications is 1500 lb.
COUPLERS

A key element of easy hitching, unhitching and safe trailer towing is a strong and efficiently operating coupler system, properly installed on the tongue of the trailer. D-L couplers (except 998-4) offer an exclusive Quick-Lock ball clamp assembly that can be adjusted without wrenches. This feature provides a precise fit on the hitch ball while the trigger action release allows fast locking and unlocking. The lock lever is held securely closed by cam action and the safety latch. Model 998-4 uses heavy-duty welded construction.

Coupler Features

- D-L couplers, coupler balls and trailer safety chains meet all requirements of SAE J684 and VESC V-5 standards, for class 1, 2, 3 and 4.
- Two 50 mm models comply with 94/20/EEC Standards for use in the European Community.
- Couplers are easily and quickly unlocked by a trigger action release on safety lever.
- Safety pin can be inserted through a hole in lever to provide a secondary means of securing ball clamp in a locked position.
- A-frame couplers are designed to be mounted on frame members set at 50°.
- A padlock may be substituted for pin if security against trailer theft is desired.

Coupler Specs

<table>
<thead>
<tr>
<th>Model</th>
<th>SAE Class</th>
<th>Ball Size</th>
<th>Housing Width (Inside)</th>
<th>Clam Shell Units Per Carton</th>
<th>Retail Pack Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>940P-1</td>
<td>1</td>
<td>1-7/8&quot;</td>
<td>2&quot;</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>960P-1</td>
<td>1</td>
<td>1-7/8&quot;</td>
<td>2-1/2&quot;</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>970P-1</td>
<td>1</td>
<td>1-7/8&quot;</td>
<td>3&quot;</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>980P-2</td>
<td>2</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>981P-2</td>
<td>2</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>982P-2</td>
<td>2</td>
<td>2&quot;</td>
<td>2-1/2&quot;</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>985P-3</td>
<td>3</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>995P-4</td>
<td>4 (6000 lb)</td>
<td>2&quot;</td>
<td>3&quot;</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>990P-3</td>
<td>3</td>
<td>2&quot;</td>
<td>A-Frame</td>
<td>—</td>
<td>6</td>
</tr>
<tr>
<td>998-4</td>
<td>4 (10000 lb)</td>
<td>2-5/16&quot;</td>
<td>A-Frame</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>990P-3N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SAE Class Specs For Non-Passenger Carrying Trailers

- SAE CLASS 1 For gross trailer weights up to 2000 lb / 908 kg
- SAE CLASS 2 For gross trailer weights up to 3500 lb / 1589 kg
- SAE CLASS 3 For gross trailer weights up to 5000 lb / 2270 kg
- SAE CLASS 4 For gross trailer weights between 5000 lb / 2270 kg and 10,000 lb / 4540 kg
COUPLER BALLS AND ACCESSORIES

Coupler Balls

For a perfect fit to D-L couplers. Model 6692 is stainless steel finish; all other models are chrome.

6295 Bump-Me® Coupler-Vehicle Cushion

Bolts onto coupler with universal mounting holes. Fits 1-7/8” and 2” couplers. Coupler grip provides convenient and safer way to guide trailer tongue to and from coupler ball. Ideal for personal watercraft and other lightweight trailers. Zinc plated TUFFPLATE finish with large comfortable grip.

6298 Hitch-Lock® Trailer Guard

Protects both attached and unattached trailers. Design shields padlock from bolt cutters and hacksaws. Zinc plated TUFFPLATE finish.

Coupler Repair Kits

D-L coupler repair kits allow for easy replacement of entire ball clamp assembly if original becomes damaged or worn. For D-L Quick-Lock couplers only. Kits cannot be interchanged with component parts of any other D-L models or other manufacturers’ couplers.
TONGUE JACKS

When hitching and unhitching loaded trailers, D-L tongue jacks are real back savers. These easy-to-install smooth operating tongue jacks can be mounted in a variety of ways on various sizes of trailer tongues. Heavy-duty D-L tongue jacks reduce the physical effort required to maneuver a loaded trailer into hitching position or removing the trailer from a vehicle. All models are made from heavy gauge steel for strength and durability.

- Enclosed outer tube retards sand and dirt from contacting miter gears and heavy duty Acme screw.
- Fits square tongues up to 3” x 5”. All mounting hardware included.
- 2 1/8” diameter mounting hole in swivel bracket fits most other brands of mounting hardware.
- Floating miter gears allow for proper clearance and easier operation.
- Many models are also available with an independent wheel assembly for maximum maneuverability.
- Zinc plated TUFFPLATE finish for longer life.
- Tough polypropylene wheels or zinc plated foot.
- Ergonomic hand grip with textured surface.

Swivel Mount

6400
1000 lb capacity

6460
Top wind
1000 lb capacity

6709
1000 lb capacity

6800
1500 lb capacity

12” travel. Bracket located higher for use with higher hitch balls.

Swivel Jacks offer easy-to-use features:

- Minimum cranking when disconnecting from towing vehicle.
- Easily rotated to vertical operating position.
- Locking mechanism is spring loaded.
**Swivel Mount**

**6850 Swivel Jack with 8” Wheel**
Heavy-duty 8” wheel maneuvers easily over rough terrain. Reinforced wheel bracket for extra rigidity. 1500 lb. capacity and 10” travel. Four-bolt swivel mounting system for greater strength.

**6851 with 8” Independent Wheel**
Same as 6850, but with independent wheel.*

**Pivoting Stand With Wheel or Foot**

- **6724** - 600 lb capacity with wheel
- **6726** - 1000 lb capacity with foot
Inexpensive support for lightweight trailers or trailers in long-term storage.

**Top Wind Jack With Independent Wheel**

- **6461** - 1000 lb capacity, top wind, with independent wheel. Top wind handle for applications where clearance is an issue. Independent wheel turns more easily, particularly in sand or gravel.*

---

**Tongue Jack Specs**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Mounting*</th>
<th>Handle Type</th>
<th>Wheel</th>
<th>Travel</th>
<th>Maximum Tongue Height</th>
<th>Swivel Pin Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3400</td>
<td>1200 lb/545 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>6”</td>
<td>11”</td>
<td>25”</td>
<td>1/2”</td>
</tr>
<tr>
<td>6400</td>
<td>1000 lb/454 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>6”</td>
<td>10”</td>
<td>25”</td>
<td>3/8”</td>
</tr>
<tr>
<td>6430</td>
<td>1000 lb/454 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>8”</td>
<td>10”</td>
<td>25”</td>
<td>1/2”</td>
</tr>
<tr>
<td>6440</td>
<td>1000 lb/454 kg</td>
<td>Weld-On</td>
<td>Side</td>
<td>6”</td>
<td>10”</td>
<td>25”</td>
<td>1/2”</td>
</tr>
<tr>
<td>6445</td>
<td>1000 lb/454 kg</td>
<td>Weld-On</td>
<td>Side</td>
<td>6”</td>
<td>10”</td>
<td>25”</td>
<td>1/2”</td>
</tr>
<tr>
<td>6460</td>
<td>1000 lb/454 kg</td>
<td>Bolt-on</td>
<td>Top</td>
<td>6”</td>
<td>10”</td>
<td>26”</td>
<td>3/8”</td>
</tr>
<tr>
<td>6461</td>
<td>1000 lb/454 kg</td>
<td>Bolt-on</td>
<td>Top</td>
<td>6”</td>
<td>10”</td>
<td>26”</td>
<td>3/8”</td>
</tr>
<tr>
<td>6709</td>
<td>1000 lb/454 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>6”</td>
<td>12”</td>
<td>29”</td>
<td>3/8”</td>
</tr>
<tr>
<td>6724</td>
<td>600 lb/272 kg</td>
<td>Bolt-on</td>
<td>N/A</td>
<td>6”</td>
<td>N/A</td>
<td>14-1/2”</td>
<td>3/8”</td>
</tr>
<tr>
<td>6726</td>
<td>1000 lb/454 kg</td>
<td>Bolt-on</td>
<td>N/A</td>
<td>6”</td>
<td>N/A</td>
<td>14-1/2”</td>
<td>3/8”</td>
</tr>
<tr>
<td>6800</td>
<td>1500 lb/680 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>6” Dual</td>
<td>12”</td>
<td>28-1/2”</td>
<td>1/2”</td>
</tr>
<tr>
<td>6850</td>
<td>1500 lb/680 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>8”</td>
<td>10”</td>
<td>24-3/4”</td>
<td>1/2”</td>
</tr>
<tr>
<td>6851</td>
<td>1500 lb/680 kg</td>
<td>Bolt-on</td>
<td>Side</td>
<td>8”</td>
<td>10”</td>
<td>24-3/4”</td>
<td>1/2”</td>
</tr>
</tbody>
</table>

* All bolt-on jacks above fit tongues up to 3” x 5”.

---

*Grooved inner post and nylon bearings allow smoother rotation.*

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**3400 (Imported)**
1200 lb capacity. Tested to D-L standards. Available boxed or bulk.
**TONGUE JACKS**

**Rigid Mount**

- **6414**
  - 1000 lb capacity
  - Screw Rigid-Side Mount

- **6814**
  - 1250 lb capacity
  - Screw Rigid-Side Mount

- **6817**
  - 1250 lb capacity with independent wheel

- **6818**
  - 1000 lb capacity
  - Screw A-Frame

- **6816**
  - 2000 lb capacity
  - Screw Rigid-Side Mount

- **6817**
  - 1250 lb capacity
  - Rack Rigid-Top Mount

- **6820**
  - 2000 lb capacity
  - Screw/Drop Leg Rigid-Side Mount

---

**A-Frame**

- **6418**
  - 1000 lb capacity

- **6604**
  - Removable Wheel Fits 6418 Jack
  - Tough polypropylene wheel and bracket, 1000 lb capacity.
  - Includes quick attach pin.

- **6606**
  - Removable Foot Fits 6418 Jack
  - Steel support foot. 1000 lb capacity.
  - Includes quick attach pin.

---

**Rack-Type**

- **6740**
  - 800 lb capacity
  - Worm gear drive. Wheel retracts to within 7 5/8" of the top of the tongue when trailering.

---

**Tongue Jack Specs**

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Mounting</th>
<th>Capacity</th>
<th>Wheel/Foot</th>
<th>Travel</th>
<th>Maximum Tongue Height</th>
<th>Maximum Tongue Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6414</td>
<td>Screw</td>
<td>Rigid-Side Mount</td>
<td>1000 lb/454 kg</td>
<td>Wheel</td>
<td>15&quot;</td>
<td>25-1/2&quot;</td>
<td>3&quot; x 5&quot;</td>
</tr>
<tr>
<td>6418</td>
<td>Screw</td>
<td>A-Frame</td>
<td>1000 lb/454 kg</td>
<td>Separate</td>
<td>15&quot;</td>
<td>29-3/4&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>6740</td>
<td>Rack</td>
<td>Rigid-Top Mount</td>
<td>800 lb/363 kg</td>
<td>Wheel</td>
<td>18-3/8&quot;</td>
<td>26&quot;</td>
<td>3&quot; x 5&quot;</td>
</tr>
<tr>
<td>6814</td>
<td>Screw</td>
<td>Rigid-Side Mount</td>
<td>1250 lb/567 kg</td>
<td>Wheel</td>
<td>15&quot;</td>
<td>25-1/4&quot;</td>
<td>3&quot; x 5&quot;</td>
</tr>
<tr>
<td>6816</td>
<td>Screw</td>
<td>Rigid-Side Mount</td>
<td>2000 lb/908 kg</td>
<td>Foot</td>
<td>15&quot;</td>
<td>23-1/2&quot;</td>
<td>3&quot; x 5&quot;</td>
</tr>
<tr>
<td>6817</td>
<td>Screw</td>
<td>Rigid-Side Mount</td>
<td>1250 lb/567 kg</td>
<td>Wheel</td>
<td>15&quot;</td>
<td>26-1/8&quot;</td>
<td>3&quot; x 5&quot;</td>
</tr>
<tr>
<td>6820</td>
<td>Screw/Drop Leg</td>
<td>Rigid-Side Mount</td>
<td>2000 lb/908 kg</td>
<td>Foot</td>
<td>15&quot;</td>
<td>38&quot;</td>
<td>3&quot; x 5&quot;</td>
</tr>
</tbody>
</table>

* All models have side wind handle, except 6817, which is top wind.
AG-INDUSTRIAL JACKS

D-L GOLDENROD ag-industrial jacks are used for lifting and leveling applications. Precision rolled Acme thread inner screw, heavy duty thrust bearing, and heavy gauge steel outer and inner tubes for long life, easy cranking, and smooth, trouble-free operation.

6621 - 10" travel
6624 - 15" travel
2000 lb capacity
Swivel mount, side-wind.
Includes 6616 weld-on bracket and 6617 snap ring.

6631 - 10" travel
6634 - 15" travel
2000 lb capacity
Swivel mount, top-wind.
Includes 6616 weld-on bracket and 6617 snap ring.

6620 - 10" travel
6623 - 15" travel
2000 lb capacity
Swivel mount, side-wind.
Includes 6615 weld-on tube and 6618 pin.

6630 - 10" travel
6633 - 15" travel
2000 lb capacity
Tube mount, top-wind.
Includes 6615 weld-on tube and 6618 pin.

6675 - 15" travel
5000 lb capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting Style</th>
<th>Handle Type</th>
<th>Capacity</th>
<th>Travel</th>
<th>Overall Height (1)</th>
<th>Bracket Height (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6620</td>
<td>6615 Tube Mount Incl.</td>
<td>Side</td>
<td>2000 lb/908 kg</td>
<td>10&quot;</td>
<td>18&quot;</td>
<td>11-1/2&quot;</td>
</tr>
<tr>
<td>6621</td>
<td>6616 Weld-On Bkt. Incl.</td>
<td>Side</td>
<td>2000 lb/908 kg</td>
<td>10&quot;</td>
<td>18&quot;</td>
<td>11-1/2&quot;</td>
</tr>
<tr>
<td>6623</td>
<td>6615 Tube Mount Incl.</td>
<td>Side</td>
<td>2000 lb/908 kg</td>
<td>15&quot;</td>
<td>27&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>6624</td>
<td>6616 Weld-On Bkt. Incl.</td>
<td>Side</td>
<td>2000 lb/908 kg</td>
<td>15&quot;</td>
<td>27&quot;</td>
<td>15&quot;</td>
</tr>
<tr>
<td>6630</td>
<td>6615 Tube Mount Incl.</td>
<td>Top</td>
<td>2000 lb/908 kg</td>
<td>10&quot;</td>
<td>15-1/2&quot;</td>
<td>11-1/4&quot;</td>
</tr>
<tr>
<td>6631</td>
<td>6616 Weld-On Bkt. Incl.</td>
<td>Top</td>
<td>2000 lb/908 kg</td>
<td>10&quot;</td>
<td>15-1/2&quot;</td>
<td>11-1/4&quot;</td>
</tr>
<tr>
<td>6633</td>
<td>6615 Tube Mount Incl.</td>
<td>Top</td>
<td>2000 lb/908 kg</td>
<td>15&quot;</td>
<td>24-3/4&quot;</td>
<td>14-3/4&quot;</td>
</tr>
<tr>
<td>6675</td>
<td>6615 Tube Mount Incl.</td>
<td>Top</td>
<td>5000 lb/2270 kg</td>
<td>15&quot;</td>
<td>24-3/4&quot;</td>
<td>14-3/4&quot;</td>
</tr>
<tr>
<td>7201</td>
<td>Bolt-On (Sq. Tube) Drop Leg</td>
<td>Side</td>
<td>2500 lb/1134 kg</td>
<td>15&quot;</td>
<td>23-1/2&quot;</td>
<td>10-1/4&quot; (3)</td>
</tr>
</tbody>
</table>

(1) Overall height is measured from top of jack to ground in retracted position, not including handle.
(2) Center of swivel point to ground when retracted.
(3) Top mounting hole to ground when retracted.

7201 (Imported)
2500 lb capacity.
Bolt-on, zinc plated with hardware, drop leg.
1 Year Warranty.
AG-INDUSTRIAL JACKS

Ag-Industrial Jack Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting Style</th>
<th>Handle Type</th>
<th>Capacity</th>
<th>Travel (2)</th>
<th>Overall Height (2)</th>
<th>Bracket Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>6670</td>
<td>A-Frame</td>
<td>Top</td>
<td>2000 lb/908 kg</td>
<td>14&quot;</td>
<td>20-1/2&quot;</td>
<td>8-1/4&quot;</td>
</tr>
<tr>
<td>6670B</td>
<td>A-Frame (1)</td>
<td>Top</td>
<td>2000 lb/908 kg</td>
<td>14&quot;</td>
<td>20-1/2&quot;</td>
<td>8-1/4&quot;</td>
</tr>
<tr>
<td>6671</td>
<td>A-Frame</td>
<td>Top</td>
<td>5000 lb/2270 kg</td>
<td>14&quot;</td>
<td>20-1/2&quot;</td>
<td>10-1/4&quot;</td>
</tr>
<tr>
<td>6671B</td>
<td>A-Frame (1)</td>
<td>Top</td>
<td>5000 lb/2270 kg</td>
<td>14&quot;</td>
<td>20-1/2&quot;</td>
<td>10-1/4&quot;</td>
</tr>
</tbody>
</table>

(1) 6612 support plate included.  (2) Overall height is measured from top of jack to ground in retracted position, not including handle.

A-Frame Mount w/Top Handle
Welds or bolts to trailer. Accepts 6614 foot. When combined with 6613 wheel - capacity is 1250 lb. 6670B and 6671B include 6612 support plate for additional rigidity. (See diagram above.)

The support bracket (also sold separately as model 6612 on pg. 23) is included with A-frame jacks with a “B” following the model number – 6670B, 6671B. It comes unfinished, ready to be welded to underside of trailer. This bracket provides extra stability to the jack, so it won’t “lean” under load.

Heavy Duty A-Frame Jacks

6613A
1250 lb capacity removable wheel for A-Frame Ag-Industrial Jacks.

6614A
5000 lb capacity removable foot for A-Frame Ag-Industrial Jacks.

6670 - 2000 lb
6670B - 2000 lb
6671 - 5000 lb
6671B - 5000 lb

Manufactured in the USA
JACK ACCESSORIES AND PARTS

6600

6608 Wheel Lock
Fits most tongue jacks with 6" wheel. Grips wheel to eliminate wheel roll. Step on one end to lock, opposite end to release. Kit includes locking lever, cam, and 1/2" x 3 1/2" mounting bolt.

6802 Dual Poly Wheel for 6800 Tongue Jacks.
6804 Mounting hardware for pivot jacks. All models.
6805 6" heavy duty wheel for 1250 lb models.
6806 6" wheel for 1000 lb capacity models or below.
6807 8" heavy duty wheel, fits 6850 and 6851.
6808 Swivel plate kit for 4-bolt mount pivot jacks. Specify 3/8" or 1/2" swivel pin.
6809 Swivel plate kit for 2-bolt mount pivot jacks. Specify 3/8" or 1/2" swivel pin.
6810A Side handle for jacks with 2" outer tube with date code after 4296 (week 42 of 1996). Includes roll pin.
6811A Side handle for jacks with 2-1/4" outer tube with date code after 4296 (week 42 of 1996). Includes roll pin.
6812 Gear and bearing kit for jacks with date code before 4296 (week 42 of 1996).
6812A Gear and bearing kit for jacks with 2" outer tube with date code after 4296 (week 42 of 1996) and 3397 (week 33 of 1997).
6812B Gear and bearing kit for jacks with 2" outer tube with date code after 3397 (week 33 of 1997).
6813A Gear and bearing kit for jacks with 2-1/4" outer tube with date code after 4296 (week 42 of 1996).

6610 Weld-on swivel bracket fits all D-L swivel jacks with 1/2" pins.
6612 Support bracket for A-Frame Ag-Jacks.
6615 2" weld-on mounting tube.
6616 4" x 5" weld-on mounting bracket, fits all D-L swivel jacks with 1/2" pins.
6611 4" x 5" weld-on mounting bracket, fits all D-L swivel jacks with 3/8" pins.

6617 Snap Ring.
6618 9/16" Detent pin.

6619 Top wind handle with bolt and nut.

6684 – 4-1/2"
6685 – 5-1/2"
6686 – 6-1/2"

Channel Mounting Brackets allow mounting any D-L swivel jack directly onto aluminum I-beam or channel with no overhanging bolts or straps. Brackets are available to fit 4-1/2", 5-1/2" or 6-1/2" I-beams. Mount with a total of four bolts; two in top and two in bottom flange.
ROLLER BUNKS AND ACCESSORIES

Roller Bunks
D-L roller bunks provide a quick, easy and inexpensive way to upgrade bunk-style trailers to rollers. Two different D-L designs are available, Original or Deluxe.

Both feature special, non-marking, “2 compound” rollers with durable wear resistant inner surface and soft boat cushioning outer surface.

Original Design
Attaches directly to vertical mounted 2 x 4 bunk board, mounting bracket or can be mounted with optional No. 6356 bracket. Rollers self-align up to + or - 10 degrees to fit shape of boat hull, 2 rollers per set. Constructed of 14 gauge steel in black powder coated finish. Sold in pairs.

Deluxe Style
Universal mount attaches directly to either vertical or horizontal positioned bunk boards and features 3 rollers per set. Bracket 6389 optional. Constructed of 12 gauge pre-galvanized steel. Sold in pairs.

Rollers
Spool Rollers
6340 4”
6343 5”
For 5/8” shaft.

End Caps
6336
2-1/2” 5/8” shaft.

6337
2” - 1/2” shaft.

Bow Roller
6347
For 1/2” shaft. 3”.

Y-Stop
6348
For 1/2” shaft. 3” x 3”.

Keel Rollers
6345 8”
6346 12”
For 5/8” shaft.

Rocker Rollers
6338
4-1/4” x 4-1/4” for 34” shaft.

6339
4-3/8” x 3” ribbed for 3/4” shaft.

Molded Guide-On Rollers
6334
2-1/2” x 12” - 5/8” shaft.

6335
2” x 9” - 1/2” shaft.
**6332 GREASE KEEPER® Caps**
Snug fitting steel dust cap has grease zirk and pressure relief valve built-in. Protects and extends bearing life. Zirk permits frequent greasing and relief valve allows escape of excess pressure. Zinc plated finish. 2 protectors including dust covers per package.

**Dust Caps**
2 dust caps per package, 6526 3/4" 6527 1" & 1-1/16" 6528 1-1/4"

**Dust Covers Only**
2 dust covers for Grease Keeper caps per package, 6531 fits 6331 6532 fits 6332 6533 fits 6333

**6200 Series** includes:
- 2 bearings with races
- 1 grease seal
- 1 cotter pin

**6500 Series** includes:
- 2 bearings with races
- 1 grease seal
- 1 cotter pin
- 1 dust cap

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Spindle O.D.</th>
<th>Outer Hub I.D.</th>
<th>Outer Bearing Cone No.</th>
<th>Inner Bearing Cone No.</th>
<th>Outer Cup No.</th>
<th>Inner Cup No.</th>
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<tr>
<td>6200 &amp; 6500</td>
<td>3/4&quot;</td>
<td>1.781</td>
<td>LM11949</td>
<td>Same</td>
<td>LM11910</td>
<td>Same</td>
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<td>6201 &amp; 6501</td>
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<td>09067</td>
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<td>09195</td>
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<td>6202 &amp; 6502</td>
<td>1&quot;</td>
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<td>L44644</td>
<td>Same</td>
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<td>6202-WBP</td>
<td>Same as 6202 with Wheel Bearing Protector Replacing Dust Cap</td>
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<tr>
<td>6203 &amp; 6503</td>
<td>1-1/16&quot;</td>
<td>1.980</td>
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<td>Same</td>
<td>L44610</td>
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<tr>
<td>6204 &amp; 6504</td>
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<td>LM67048</td>
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<td>LM67010</td>
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<tr>
<td>6205 &amp; 6505</td>
<td>1-1/16&quot; x 3/4&quot;</td>
<td>1.781</td>
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<td>L44644</td>
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<tr>
<td>6206 &amp; 6506</td>
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<td>LM11910</td>
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<tr>
<td>6207 &amp; 6507</td>
<td>1-3/8&quot; x 1-1/16&quot;</td>
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<td>L68149</td>
<td>L44610</td>
<td>L68111</td>
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<tr>
<td>6208 &amp; 6508</td>
<td>1-3/8&quot; x 1-1/16&quot;</td>
<td>1.980</td>
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<td>L68149</td>
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<td>6331 &amp; 6331</td>
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<tr>
<td>6333 &amp; 6333</td>
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<td>6511 &amp; 6511</td>
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<td>6512 &amp; 6512</td>
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<td>Set of 2 ea. seals #203684 &amp; 2 ea. Cotter keys #203814 for kits # 6207, 6208, 6507 &amp; 6508</td>
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<td>6515 &amp; 6515</td>
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<tr>
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<td>—</td>
<td>LM67048</td>
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<td>LM67010</td>
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</table>

**6500 Series, same as 6200 Series, except no dust cap is included.**
**Deluxe Anchors**

Sentinel Deluxe Anchors use a traditional lightweight design. Fully welded crown provides angles engineered for deeper penetration and more secure holding power. Galvanized finish. Models 8, 13 and 18 also available with tough black urethane powder coat.

**Slip Ring Anchors**

Sentinel Slip Ring Anchors feature a single piece crown construction enhancing anchor strength, uniquely formed flukes providing more rigid penetration and slip-ring design for easy retrievability. Available galvanized or tough black urethane powder coat.

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### Sentinel Slide Ring Anchor

<table>
<thead>
<tr>
<th>Model and Weight Rating</th>
<th>A Anchor Length in/cm</th>
<th>B Stock Length in/cm</th>
<th>C Fluke Length in/cm</th>
<th>Recommended Boat Length ft/m</th>
<th>Units Per Master Carton</th>
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<tr>
<td>5E</td>
<td>11-1/2 / 29</td>
<td>10-3/4 / 27</td>
<td>8-1/2 / 22</td>
<td>10’ to 15’ / 3.0-4.6</td>
<td>20</td>
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<tr>
<td>7E</td>
<td>14 / 36</td>
<td>11-3/4 / 30</td>
<td>9 / 23</td>
<td>15’ to 19’ / 4.6-5.5</td>
<td>20</td>
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<tr>
<td>10E</td>
<td>15-1/2 / 39</td>
<td>13 / 33</td>
<td>9-1/2 / 24</td>
<td>20’ to 24’ / 6.1-7.3</td>
<td>14</td>
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<tr>
<td>15E</td>
<td>20-1/2 / 52</td>
<td>15-3/4 / 40</td>
<td>13 / 33</td>
<td>28’ to 30’ / 8.5-9.1</td>
<td>6</td>
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<tr>
<td>2 1/2</td>
<td>16-5/8 / 42</td>
<td>13 / 33</td>
<td>9 / 23</td>
<td>Up to 12’ / Up to 3.6</td>
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<tr>
<td>4</td>
<td>19-1/4 / 49</td>
<td>14-3/4 / 37</td>
<td>9-1/2 / 24</td>
<td>12’ to 16’ / 3.6-4.9</td>
<td>20</td>
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<td>13</td>
<td>24-1/4 / 62</td>
<td>18-1/4 / 46</td>
<td>14-1/2 / 37</td>
<td>25’ to 30’ / 7.6-9.1</td>
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<td>18</td>
<td>26-3/4 / 68</td>
<td>21-1/2 / 55</td>
<td>16-1/2 / 42</td>
<td>31’ to 34’ / 9.5-10.4</td>
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<td>22</td>
<td>34-3/8 / 87</td>
<td>26-3/4 / 68</td>
<td>19 / 48</td>
<td>35’ to 38’ / 10.7-11.6</td>
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<td>40</td>
<td>39-7/8 / 101</td>
<td>29-3/4 / 76</td>
<td>23 / 58</td>
<td>38’ to 43’ / 11.6-13.1</td>
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<tr>
<td>65</td>
<td>46-7/8 / 119</td>
<td>38 / 97</td>
<td>26-1/2 / 67</td>
<td>44’ to 53’ / 13.4-16.2</td>
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<tr>
<td>85</td>
<td>54-3/4 / 139</td>
<td>41 / 104</td>
<td>27-1/2 / 70</td>
<td>54’ to 60’ / 16.5-18.3</td>
<td>Bulk</td>
</tr>
</tbody>
</table>

---

**10EK Slip Ring Anchor Kit**

Recommended for boats to 24 feet in length. For use in snag filled bottoms and less turbulent water and wind conditions.

10EK Kit contains:
1. 10E Sentinel Slip Ring anchor
2. 5/16" galvanized shackles
3. 1/4" x 4 ft. galvanized chain
4. 1/4" x 100 ft. nylon anchor line

**8K Deluxe Anchor Kit**

Recommended for boats to 24 feet in length. For use in clean bottoms – sand/mud – and varying surf and wind conditions.

8K Kit contains:
1. 8 Sentinel Deluxe Anchor
2. 5/16" galvanized shackles
3. 1/4" x 5 ft. galvanized chain
4. 3/8" x 100 ft. nylon anchor line

**13K Deluxe Anchor Kit**

Recommended for boats to 30 feet in length. For use in more difficult anchorages where wind and water conditions vary.

13K Kit contains:
1. 13 Sentinel Deluxe Anchor
2. 5/16" galvanized shackles
3. 1/4" x 6 ft. galvanized chain
4. 3/8" x 150 ft. nylon anchor line
**PULLING WINCHES**

### Pulling Winches with Ratchet Feature

- **Laminated, high carbon steel gears** for longer life.
- **Drive shaft gears** are copper brazed for durability. All gears are made in models DL1300A thru DL3500B.
- **Rigid, welded reel construction** for added strength.
- **Winches freewheel** when the ratchet is disengaged.
- **Load matched gear ratios** for easier cranking.
- **Variety of finishes available** – powder-coated copper bronze, black or zinc plated TUFFPLATE finish.
- **All plated parts** are zinc plated TUFFPLATE finish.
- **Heavy duty steel handles** with ergonomic molded grips. Quick attach handle is included on all models.
- **DL400 has ratchet lever drive**.
- **2-speed models have a drive shaft system** which requires the freewheeling feature of the Freewheel mode is disengaged. A hand brake available on heavy duty models.
- **Driving or transporting people** or for lifting, use a D-L brake or worm gear winch. Models are not recommended for lifting applications. For lifting, use a D-L brake or worm gear winch. **Winches are not to be used as hoists for lifting, supporting or transporting people, or for loads over areas where people could be present.**

### Sales Representatives

**Domestic: United States**

1. **Derema Group Inc.**
   - 2201 Cola Perfecto, Unit A
   - San Juan Capistrano, CA 92675-4766
   - Tel: 949-361-4123
   - Fax: 949-361-5708
   - E-mail: edenca@dereum.com
   - Web Site: www.dereum.com

2. **DL3500B.**
   - Equipment on the Freewheel mode is disengaged.
   - A hand brake available on heavy duty models.

3. **DL400 has ratchet lever drive.**

4. **Hand brake available on heavy duty models.** (See page 4.)

5. **Freeelower gear covered on models DL1100A – DL1300B.**

6. **Gear ratio for easy installation of optional strap.**

7. **Models DL400 through DL200A** – Equipped with slots in reel for easy installation of optional strap. Strap not included on all models.

8. **DL400 has ratchet lever drive.**

9. **Models DL1300A through DL3500B.**

10. **Hand brake available on heavy duty models.** (See page 4.)

11. **2-speed models have a drive shaft system** which requires the freewheeling feature of the Freewheel mode is disengaged. A hand brake available on heavy duty models.

12. **Driving or transporting people** or for lifting, use a D-L brake or worm gear winch. Models are not recommended for lifting applications. For lifting, use a D-L brake or worm gear winch. **Winches are not to be used as hoists for lifting, supporting or transporting people, or for loads over areas where people could be present.**