Series 4WP2D High Speed Worm Gear Power Winches

Up to 1500 lb capacity

- **Direct Drive Design** delivers high speed operation in both directions, even under full load.
- **Machine Cut Bronze Worm Gears** provide accurate operation and long lasting service.
- **Enclosed Oil Bath** provides continuous lubrication of gears to minimize wear. Oil seals keep oil in and dirt out.
- **Internal Mechanical Brake** provides positive load control for lifting and lowering operations.
- **Ball Bearings** and self-aligning bronze bearings provide smooth and efficient operation.
- **Pressure Plate** applies pressure to drum and wire rope to help maintain uniform winding. Not available on clutch models.
- **Dual Function Cable Anchor** for quick disconnect of wire rope with swaged ball fitting, or recessed cable anchor with set screw for wire rope with unfinished end.
- **Mounting Options** include floor, wall, or ceiling.
- **Two-year Limited Warranty**
- **Cast Aluminum** construction, for lightweight strength.
- **Corrosion Resistant** durable paint finish protects against corrosion in harsh environments.

**Series 4WP2D – Performance Characteristics – Section 2**

When ordering, please indicate Model Number and Extensions

Examples: 4WP2D8-800-26-A (without clutch); 4WP2DC-800-40-A (with clutch)

<table>
<thead>
<tr>
<th>model number extensions</th>
<th>load rating (lb)</th>
<th>wire rope</th>
<th>line speed (fpm)</th>
<th>drum capacity (ft)</th>
<th>approx.</th>
<th>1st mid full</th>
<th>1st mid full</th>
<th>1st mid full</th>
<th>ship wt. (lb)</th>
</tr>
</thead>
</table>
| High Speed Atlas winches for lifting or pulling
4WP2DA 800 26 A,B,D,E | 1 | 800 | 460 | 330 | 1/4 | 26 | 65 | 19 | 130 | 280 | 100 |
4WP2DA 800 40 D,E | 1.5 | 800 | 460 | 330 | 1/4 | 40 | 97 | 19 | 130 | 280 | 100 |
4WP2DA 1500 26 D,E | 2 | 1500 | 900 | 600 | 1/4 | 26 | 65 | 19 | 130 | 280 | 100 |
4WP2DA 1500 40 D,E | 3 | 1500 | 900 | 600 | 1/4 | 40 | 97 | 19 | 130 | 280 | 100 |

High Speed Clutch Models for HORIZONTAL PULLING ONLY

4WP2DC 800 26 A,B,D,E | 1 | 800 | 460 | 330 | 1/4 | 26 | 65 | 12 | 87 | 190 | 100 |
4WP2DC 800 40 D,E | 1.5 | 800 | 460 | 330 | 1/4 | 40 | 97 | 12 | 87 | 190 | 100 |
4WP2DC 1500 26 D,E | 2 | 1500 | 900 | 600 | 1/4 | 26 | 65 | 12 | 87 | 190 | 100 |
4WP2DC 1500 40 D,E | 3 | 1500 | 900 | 600 | 1/4 | 40 | 97 | 12 | 87 | 190 | 100 |

Motor Codes

A 115 volt 1 phase
B 230 volt 1 phase
D 230 volt 3 phase
E 460 volt 3 phase
F All other voltages  please contact factory
PN please contact factory

CONTROL OPTIONS AND ACCESSORIES – Section 2

<table>
<thead>
<tr>
<th>model</th>
<th>description</th>
<th>115/1/60</th>
<th>230/1/60</th>
<th>230/3/60</th>
<th>460/3/60</th>
</tr>
</thead>
</table>
10L2A1 | NEMA 1      | to 1.5 hp| to 2 hp  | to 3 hp  | to 3 hp  |
10L7E1 | NEMA 1      | to 1.5 hp| to 3 hp  | to 5 hp  | 7.5 hp   |
10L2A4 | NEMA 4 – watertight | to 1.5 hp | to 2 hp | to 3 hp | to 3 hp |
10L7E4 | NEMA 4 – watertight | to 1.5 hp | to 3 hp | to 5 hp | 7.5 hp |
10P1A46 | 6 ft pendant control | to 1 hp | —— | —— | —— |
TPL-4WP2T8 | Two Part Line Kit | —— | —— | —— | —— |

Please contact factory or nearest Thern Distributor for firm fixed price and delivery.

1 Minimum wire rope diameter is 1/4 inch.
2 Actual drum capacities 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.
3 Weight may vary with motor.

For more information and other control options, please see pages 46-47.

Custom controls are available including wireless remote control, variable speed control, electronic overload, and enclosures for special environments.
Options and Accessories

- **Emergency Hand Crank** for manual operation in case of power failure. Does not include handle.
- **Two Part Line Kit** to convert to double line rigging.
- **Rotary Limit Switches** for secondary shut-off to limit load travel in one or two directions. Not available on clutch models.
- **Special Motors and Controls** including severe duty and explosion proof.
- **Special Finishes** for hazardous environments.
- **Torque Limiters** as part of the motor controls on electric models.

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**Important:**

It is the owner’s or operator’s responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals, and regulations. Be sure to read the Owner’s Manual supplied with the equipment before operating it.

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**Series 4WP2D – Dimensions (in)**

<table>
<thead>
<tr>
<th>series</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>R</th>
<th>S (hole dia.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4WP2D8</td>
<td>17.50</td>
<td>21.00</td>
<td>2.75</td>
<td>5.00</td>
<td>1.50</td>
<td>9.50</td>
<td>12.75</td>
<td>2.25</td>
<td>5.81</td>
<td>10.25</td>
<td>1.25</td>
<td>7.00</td>
<td>11.50</td>
<td>.41</td>
</tr>
<tr>
<td>4WP2DC</td>
<td>19.00</td>
<td>21.00</td>
<td>4.00</td>
<td>5.00</td>
<td>3.50</td>
<td>9.50</td>
<td>12.75</td>
<td>2.25</td>
<td>5.81</td>
<td>10.25</td>
<td>1.25</td>
<td>7.00</td>
<td>11.50</td>
<td>.41</td>
</tr>
</tbody>
</table>

Dimensions are for reference only and subject to change without notice.

1 Dimensions A, B and H may vary with motor selection.

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**Important:**

Install wire rope correctly as shown, or brake will not operate properly.

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**Series 4WP2D – Drum Dimensions**

<table>
<thead>
<tr>
<th>model</th>
<th>extension</th>
<th>drum diameter</th>
<th>flange diameter</th>
<th>drum width</th>
<th>fleet angle distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>4WP2D8</td>
<td>2.50 in</td>
<td>7.00 in</td>
<td>8.00 in</td>
<td>13 ft</td>
<td></td>
</tr>
<tr>
<td>4WP2DC</td>
<td>2.50 in</td>
<td>7.00 in</td>
<td>5.50 in</td>
<td>9 ft</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions are for reference only and subject to change without notice.

2 Recommended minimum distance between drum and lead sheave for smooth drum.