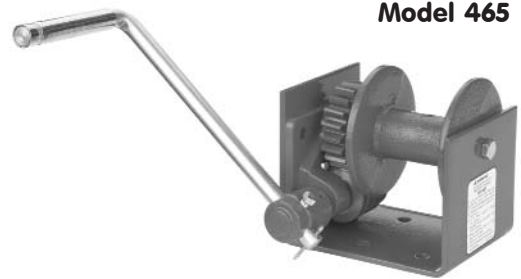


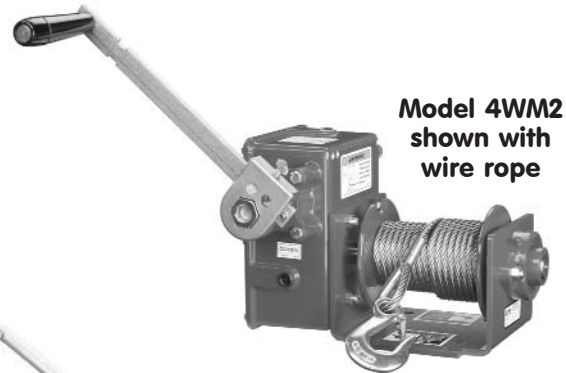
Worm Gear Hand Winches

Up to 4000 lb capacity

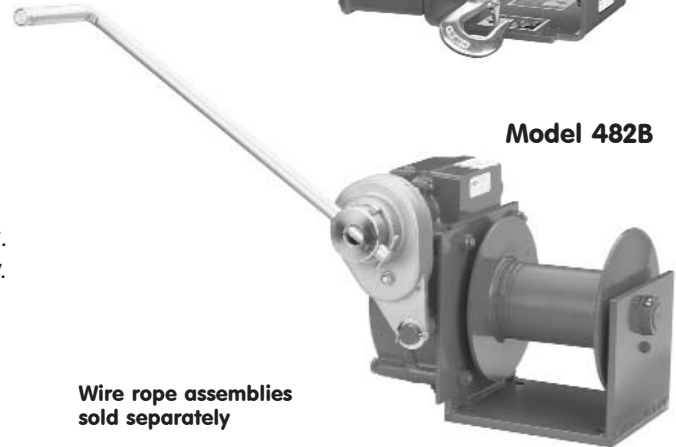
- **Machine Cut Worm Gears** provide accurate operation and long lasting service.
- **Enclosed Oil Bath** provides continuous lubrication of gears to minimize wear, except on Model 465. On Model 4WM2 oil seals keep oil in and dirt out.
- **Hex Drive** and handle are included. Model 4WM2 can be power driven with a maximum 400 rpm drill-motor.
- **Automatic Brake Models** provide positive load control for lifting. Brake models have a PB or B suffix. Model 4WM2 features an internal mechanical brake.
- **Corrosion Resistant** durable paint finish protects against corrosion in harsh environments.
- **Bronze Bearings** on most models for smooth operation.
- **Large Diameter Drums** minimize wire rope wear.
- **Handles Adjust** in length to change force required to move the load.
- **Mounting Options** include floor, wall, or ceiling. Adapter plate may be required, contact factory.
- **Two-year Limited Warranty**



Model 465



Model 4WM2 shown with wire rope



Model 482B

Wire rope assemblies sold separately

Worm Gear Hand Winches – Configurations and Performance Characteristics – Section 1

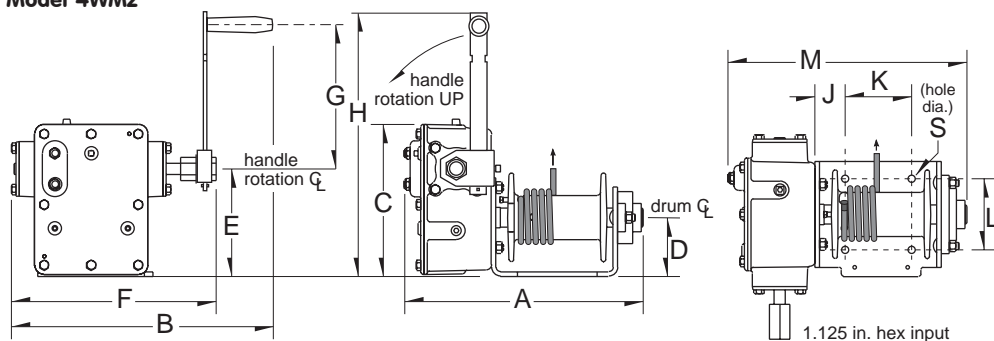
| model number | description | load rating (lb) | | | wire rope dia. (in) | drum capacity (ft) ¹ | | | gear ratio | force ² to lift 1000 lb | approx. ship wt. (lb) |
|--------------|---|------------------|----------|-----------|---------------------|---------------------------------|-----------------|-------------------|------------|------------------------------------|-----------------------|
| | | 1st layer | mid drum | full drum | | 1st layer | mid drum | full drum | | | |
| 465 | 750 lb – open gears (recommended for pulling only) | 750 | 600 | 400 | 1/8 3/16 | 7 4 | 58 27 | 130 59 | 20:1 | 21 lb | 12 |
| 462 | 1000 lb – enclosed gearing (recommended for pulling only) | 1000 | 700 | 500 | 1/8 3/16 | 7 4 | 61 28 | 140 61 | 15:1 | 34 lb | 15 |
| 4622PB | 1000 lb – enclosed gearing with brake (for lifting) | 1000 | 700 | 500 | 1/8 3/16 | 7 4 | 61 28 | 140 61 | 15:1 | 26 lb | 21 |
| 472 | 2000 lb – enclosed gearing (recommended for pulling only) | 2000 | 1700 | 1300 | 3/16 1/4 5/16 | 15 11 8 | 65 35 23 | 140 77 52 | 24:1 | 24 lb | 32 |
| 4WM2 | 2000 lb – enclosed gearing with brake (for lifting) Drill Drivable | 2000 | 1500 | 1200 | 1/4 | 11 | 35 | 77 | 32:1 | 14 lb | 41 |
| 482 | 4000 lb – enclosed gearing (recommended for pulling only) | 4000 | 3300 | 2500 | 1/4 5/16 3/8 | 23 18 14 | 140 91 65 | 300 200 140 | 26:1 | 31 lb | 100 |
| 482B | 4000 lb – enclosed gearing with brake (for lifting) | 4000 | 3300 | 2500 | 1/4 5/16 3/8 | 23 18 14 | 140 91 65 | 300 200 140 | 26:1 | 21 lb | 113 |

¹ Actual drum capacities may be 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.

² Approximate handle force required to lift 1000 lb with an empty drum, and maximum handle length.

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

See Dimensions on Next Page

Model 4WM2


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

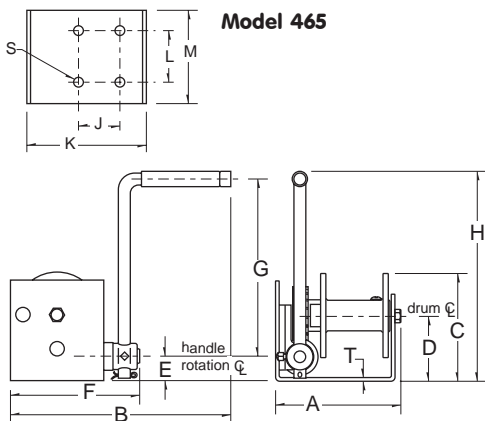
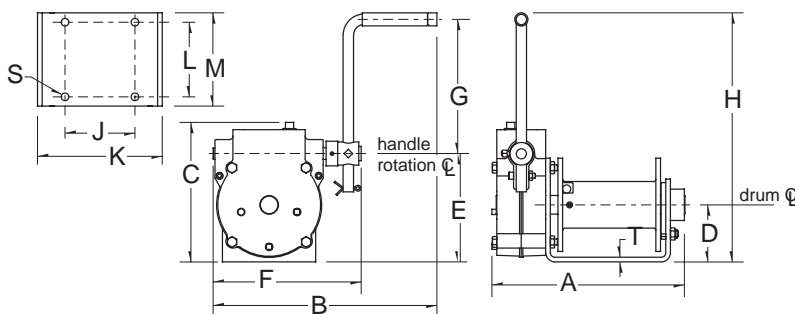
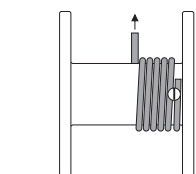
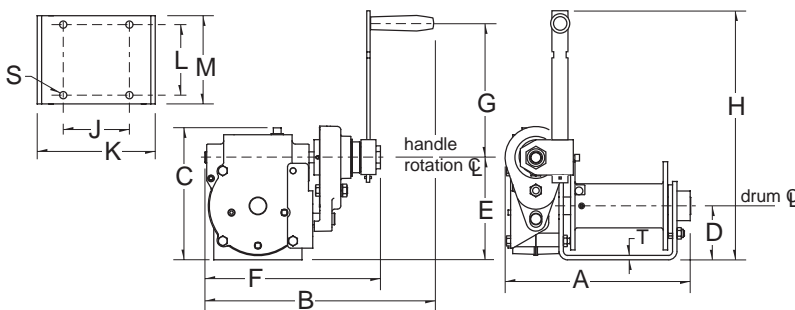
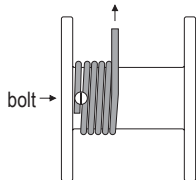
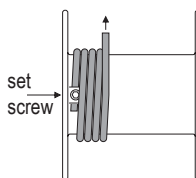
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 Power Winches
 Section 2

Model 465

Models 462, 472 and 482

Models 4622PB and 482B

**Wire Rope Installation
Model 465**

**Wire Rope Installation
Models 462 and 4622PB**

**Wire Rope Installation
Models 472, 482
and 482B**
Worm Gear Hand Winches – Dimensions (in)

| | 465 | 462 | 4622PB | 472 | 482 | 482B | 4WM2 |
|---------------|-------|-------|--------|-------|-------|-------|-------|
| drum dia. | 1.50 | 1.50 | 1.50 | 2.50 | 4.00 | 4.00 | 2.50 |
| flange dia. | 4.00 | 4.06 | 4.06 | 5.00 | 8.50 | 8.50 | 5.00 |
| drum width | 2.81 | 2.81 | 2.81 | 5.00 | 6.50 | 6.50 | 5.00 |
| A | 6.50 | 7.75 | 7.50 | 10.12 | 13.97 | 13.97 | 13.50 |
| B | 10.50 | 10.25 | 11.81 | 12.00 | 18.88 | 20.94 | 15.56 |
| C | 5.44 | 5.63 | 5.62 | 7.12 | 12.80 | 12.80 | 8.56 |
| D | 3.40 | 2.38 | 2.40 | 3.06 | 5.75 | 5.75 | 3.31 |
| E | 1.40 | 4.38 | 4.38 | 5.81 | 10.38 | 10.38 | 6.04 |
| F | 6.38 | 5.88 | 7.60 | 7.94 | 12.50 | 15.47 | 11.56 |
| G | 8.75 | 9.00 | 10.59 | 7.25 | 12.25 | 18.38 | 10.59 |
| H | 10.59 | 13.38 | 15.59 | 13.38 | 22.62 | 29.19 | 17.30 |
| J | 2.00 | 2.00 | 2.00 | 3.75 | 7.00 | 7.00 | 1.75 |
| K | 5.75 | 4.44 | 4.44 | 6.69 | 9.00 | 9.00 | 3.75 |
| L | 2.50 | 2.50 | 2.50 | 4.00 | 6.00 | 6.00 | 4.00 |
| M | 4.50 | 3.50 | 3.50 | 5.00 | 8.00 | 8.00 | 13.50 |
| S (hole dia.) | .40 | .40 | .40 | .40 | .56 | .56 | .41 |
| T | .19 | .19 | .19 | .25 | .50 | .50 | - |

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

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.