# GPURCEARHANDWINGHES 



Spur Gear Hand Winches - Configurations and Performance Characteristics - Section 1

| model number | description | load rating (lb) |  |  | wire rope dia. (in) | drum capacity (ft) ${ }^{2}$ |  |  | single gear ratio | double gear ratio | $\begin{aligned} & \text { force }^{3} \\ & \text { to lift } \\ & 1000 \mathrm{lb} \end{aligned}$ | ```approx. ship wt. (lb)``` |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{array}{r} \text { 1st } \\ \text { layer } \end{array}$ | mid drum | $\begin{aligned} & \text { full } \\ & \text { drum } \end{aligned}$ |  | $\begin{array}{r} \text { 1st } \\ \text { layer } \end{array}$ | mid drum | full drum |  |  |  |  |
| M401 | 500 lb - marine duty (for pulling only) | 500 | 400 | 300 | $\begin{gathered} 1 / 8 \\ 3 / 16 \end{gathered}$ | $\begin{aligned} & 7 \\ & 4 \end{aligned}$ | $\begin{aligned} & 60 \\ & 27 \end{aligned}$ | $\begin{array}{r} 130 \\ 60 \end{array}$ | - | - | - | 8 |
| M4022 | 1000 lb - marine duty (for pulling only) | 1000 | 700 | 500 | $\begin{gathered} 1 / 8 \\ 3 / 16 \\ \hline \end{gathered}$ | $\begin{aligned} & 4 \\ & 3 \\ & \hline \end{aligned}$ | $\begin{aligned} & 52 \\ & 26 \\ & \hline \end{aligned}$ | $\begin{array}{r} 130 \\ 57 \\ \hline \end{array}$ | 2.85:1 | - | 40 lb | 12 |
| M4022PB | 1000 lb - marine duty with brake (for lifting) | 1000 | 700 | 500 | $\begin{gathered} 1 / 8 \\ 3 / 16 \\ \hline \end{gathered}$ | $\begin{array}{r} 4 \\ 3 \\ \hline \end{array}$ | $\begin{aligned} & 52 \\ & 26 \\ & \hline \end{aligned}$ | $\begin{array}{r} 130 \\ 57 \end{array}$ | 2.85:1 | - | 41 lb | 17 |
| M4032 | 1000 lb - marine duty (for pulling only) | 1000 | 700 | 500 | $\begin{gathered} \hline 1 / 8 \\ 3 / 16 \\ \hline \end{gathered}$ | $\begin{array}{r} 11 \\ 7 \\ \hline \end{array}$ | $\begin{array}{r} 110 \\ 51 \\ \hline \end{array}$ | $\begin{aligned} & 250 \\ & 110 \\ & \hline \end{aligned}$ | 2.85:1 | - | 40 lb | 14 |
| M4032PB | 1000 lb - marine duty with brake (for lifting) | 1000 | 700 | 500 | $\begin{gathered} 1 / 8 \\ 3 / 16 \\ \hline \end{gathered}$ | $\begin{array}{r} 11 \\ 7 \end{array}$ | $\begin{array}{r} 110 \\ 51 \\ \hline \end{array}$ | $\begin{aligned} & 250 \\ & 110 \end{aligned}$ | 2.85:1 | - | 41 lb | 18 |
| M4042PBSS | 1000 lb - stainless steel with brake (for lifting) | 1000 | 800 | 600 | $\begin{gathered} 1 / 8 \\ 3 / 16 \\ 1 / 4 \end{gathered}$ | $\begin{array}{r} 12 \\ 8 \\ 5 \\ \hline \end{array}$ | $\begin{array}{r} 110 \\ 48 \\ 27 \\ \hline \end{array}$ | $\begin{array}{r} 240 \\ 110 \\ 59 \end{array}$ | 3.83:1 | — | 46 lb single ge | 24 |
| M4312 | 2000 lb - marine duty (for pulling only) | 2000 | 1600 | 1200 | $\begin{gathered} 3 / 16 \\ 1 / 4 \\ 5 / 16 \end{gathered}$ | $\begin{aligned} & 8 \\ & 5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 48 \\ & 27 \\ & 17 \end{aligned}$ | $\begin{array}{r} 110 \\ 59 \\ 39 \end{array}$ | 3.83:1 | 14.7:1 | $\begin{gathered} 20 \mathrm{lb} \\ \text { ouble ge } \end{gathered}$ | 23 |
| M4312PB | 2000 lb - marine duty with brake (for lifting) | 2000 | 1600 | 1200 | $\begin{gathered} 3 / 16 \\ 1 / 4 \\ 5 / 16 \end{gathered}$ | $\begin{aligned} & 8 \\ & 5 \\ & 4 \\ & \hline \end{aligned}$ | $\begin{aligned} & 48 \\ & 27 \\ & 17 \\ & \hline \end{aligned}$ | $\begin{array}{r} 110 \\ 59 \\ 39 \\ \hline \end{array}$ | - | $14.7: 1$ | $17 \mathrm{lb}$ ouble ge | 28 |
| M4312PBSS | 2000 lb - stainless steel with brake (for lifting) | 2000 | 1600 | 1200 | $\begin{gathered} 3 / 16 \\ 1 / 4 \\ 5 / 16 \end{gathered}$ | $\begin{aligned} & 8 \\ & 5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 48 \\ & 27 \\ & 17 \end{aligned}$ | $\begin{array}{r} 110 \\ 59 \\ 39 \end{array}$ | - | $14.7: 1$ | $17 \text { lb }$ <br> ouble ge | 28 |
| M4412 | 2000 lb - marine duty (for pulling only) | 2000 | 1600 | 1200 | $\begin{gathered} \hline 3 / 16 \\ 1 / 4 \\ 5 / 16 \\ \hline \end{gathered}$ | $\begin{aligned} & 18 \\ & 14 \\ & 11 \\ & \hline \end{aligned}$ | $\begin{aligned} & 97 \\ & 52 \\ & 35 \\ & \hline \end{aligned}$ | $\begin{array}{r} 210 \\ 120 \\ 77 \\ \hline \end{array}$ | 3.83:1 | $14.7: 1$ | $20 \text { lb }$ ouble ge | 25 |
| M4412PB | 2000 lb - marine duty with brake (for lifting) | 2000 | 1600 | 1200 | $\begin{gathered} 3 / 16 \\ 1 / 4 \\ 5 / 16 \\ \hline \end{gathered}$ | $\begin{aligned} & 18 \\ & 14 \\ & 11 \\ & \hline \end{aligned}$ | $\begin{aligned} & 97 \\ & 52 \\ & 35 \\ & \hline \end{aligned}$ | $\begin{array}{r} 210 \\ 120 \\ 77 \\ \hline \end{array}$ | - | $14.7: 1$ | 17 lb uble ge | 30 |

[^0]
## DIMENGIONS



Model M4022 and M4022PB Base

Model M4022
and M4032


Model M4032 and M4032PB Base

Model M4022PB and M4032PB



Wire Rope Installation - Models M4042PBSS


Quick Disconnect Anchor

Flange Clip Anchor


Spur Gear Hand Winches - Dimensions (in)

|  | M401 | M4022 | M4022PB | M4032 | M4032PB | M4042PBSS |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| drum dia. | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 2.50 |
| flange dia. | 4.06 | 4.56 | 4.56 | 4.56 | 4.56 | 5.50 |
| drum width | 2.75 | 2.00 | 2.00 | 4.00 | 4.00 | 3.00 |
| A | 6.56 | 7.27 | 7.27 | 7.27 | 7.27 | 8.21 |
| B | 10.56 | 9.00 | 12.12 | 11.00 | 14.12 | 13.77 |
| C | 4.56 | 6.12 | 6.12 | 6.12 | 6.12 | 6.90 |
| D | 2.50 | 3.31 | 3.31 | 3.31 | 3.31 | 3.75 |
| E | 2.50 | 2.00 | 2.00 | 2.00 | 2.00 | 2.25 |
| F | 5.81 | 5.25 | 8.12 | 7.25 | 10.12 | 9.76 |
| $\mathrm{G}^{1}$ | 8.50 | 11.03 | 10.59 | 11.03 | 10.59 | 10.59 |
| $\mathrm{H}^{1}$ | 11.28 | 13.56 | 13.12 | 13.56 | 13.12 | 13.50 |
| J | 2.19 | 1.84 | 1.84 | 3.00 | 3.00 | 1.44 |
| K | 4.38 | 3.68 | 3.68 | 5.68 | 5.68 | 5.26 |
| L | 2.50 | 2.82 | 2.82 | 2.00 | 2.00 | 5.00 |
| M | 3.50 | 5.00 | 5.00 | 5.00 | 5.00 | 6.00 |
| S(hole dia.) | .40 | .43 | .43 | .43 | .43 | .41 |
| T | .18 | .18 | .18 | .18 | .18 | .18 |

Dimensions are for reference only and subject to change without notice.
${ }^{1}$ Models M401, M4022PB, M4032PB and M4042PBSS handles are adjustable, dimension shown is for maximum handle length.

Wire Rope Installation -
Models M4022, M4022PB, M4032 and M4032PB


Quick Disconnect Anchor


Flange Clip Anchor

## 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.

## DIMENEIONS

Models M4312PB, M4412PB and M4312PBSS


Wire Rope Installation - Models M4312, M4312PB, M4312PBSS, M4412 and M4412PB


Quick Disconnect Anchor


Flange Clip Anchor

## TH THERN

## 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.

Spur Gear Hand Winches - Dimensions (in)

|  | M4312 | M4312PB | M4312PBSS | M4412 | M4412PB |
| :--- | ---: | ---: | ---: | ---: | ---: |
| drum dia. | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| flange dia. | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 |
| drum width | 3.00 | 3.00 | 3.00 | 6.00 | 6.00 |
| A | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| B | 12.70 | 14.50 | 14.50 | 15.70 | 17.50 |
| C | 7.15 | 7.15 | 7.15 | 7.15 | 7.15 |
| D | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| E | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| F | 8.00 | 10.78 | 10.78 | 11.00 | 13.78 |
| G $^{1}$ | 8.75 | 10.59 | 10.59 | 8.75 | 10.59 |
| H $^{1}$ | 13.35 | 15.19 | 15.19 | 13.35 | 15.19 |
| J | 3.34 | 3.34 | 3.34 | 6.34 | 6.34 |
| K | 5.31 | 5.31 | 5.31 | 8.31 | 8.31 |
| L | 5.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| M | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |
| S (hole dia.) | .40 | .40 | .41 | .40 | .40 |
| T | .18 | .18 | .18 | .18 | .18 |

Dimensions are for reference only and subject to change without notice.
${ }^{1}$ Models M4312PB, M4312PBSS and M4412PB handles are adjustable, dimension shown is for maximum handle length.

# M4F9/MAPRSERIFSSP=CG 



## Spur Gear Hand Winches Double Reduction

Up to $10,000 \mathrm{lb}$ capacity

- Machine Cut Spur Gears for accurate and long lasting service.
■ Automatic Brake Models provide positive load control for lifting and lowering operations. Brake models have B suffix.
- Corrosion Resistant durable paint finish combined with trivalent zinc plating protects against corrosion.
- Bronze and Radial Ball Bearings provide smooth and efficient operation.
■ Large Diameter Drums minimize wear to extend wire rope life.
■ Spring Loaded Ratchets for positive engagement with gear.
- Steel Gear Covers protect gears and help prevent injuries.
■ Handles Adjust in length to change force required to move load.
■ Two-year Limited Warranty

Spur Gear Hand Winches - Configurations and Performance Characteristics - Section 1


[^1]
## M459/ MA9P DIMENSIONS

## All Models



Models M452, M492


Models M452B, M452B-A,


Models MB451 and MB491


Base for M492-12 and M492B-12


Base for M452, M452B, M452B-A, M492 and M492B Models



Wire Rope Installation - All Models

## IT THERN

Disc Brakes - Dimensions (in)

|  | MB451 | MB491 |
| :--- | ---: | ---: |
| N | 4.97 | 5.15 |
| P | 10.44 | 10.62 |
| $\mathrm{Q}^{1}$ | 21.25 | 21.38 |
| R | 4.87 | 4.87 |
| U | 2.44 | 2.44 |
| V | 8.62 | 10.56 |

Dimensions are for reference only and are subject to change without notice.
${ }^{1}$ Handles are adjustable, dimension shown is for maximum handle length.

## 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.

Spur Gear Hand Winches - Dimensions (in)

|  | M452 | M452B | M452B-A | M492 | M492B | M492-12 | M492B-12 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| drum dia. | 4.00 | 4.00 | 4.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| flange dia. | 8.50 | 8.50 | 8.50 | 12.38 | 12.38 | 12.38 | 12.38 |
| drum width | 6.38 | 6.38 | 4.00 | 7.62 | 7.62 | 12.00 | 12.00 |
| A | 15.25 | 15.25 | 15.25 | 20.38 | 20.38 | 20.38 | 20.38 |
| B | 22.00 | 21.90 | 19.62 | 25.12 | 25.00 | 29.50 | 29.38 |
| C | 10.69 | 10.69 | 10.83 | 14.00 | 14.00 | 14.00 | 14.00 |
| D | 5.81 | 5.81 | 5.81 | 7.50 | 7.50 | 7.50 | 7.50 |
| E | 5.81 | 5.81 | 5.81 | 7.50 | 7.50 | 7.50 | 7.50 |
| F | 14.81 | 16.43 | 14.06 | 18.44 | 19.53 | 22.82 | 23.90 |
| G $^{1}$ | 18.62 | 18.38 | 18.38 | 22.50 | 18.50 | 22.50 | 18.50 |
| H $^{1}$ | 24.44 | 24.19 | 24.19 | 30.00 | 26.00 | 30.00 | 26.00 |
| J | 6.75 | 6.75 | 4.50 | 8.00 | 8.00 | 8.00 | 8.00 |
| K | 9.50 | 9.50 | 7.12 | 12.00 | 12.00 | 16.38 | 16.38 |
| L | 11.25 | 11.25 | 11.25 | 15.50 | 15.50 | 15.50 | 15.50 |
| M | 12.50 | 12.50 | 12.50 | 17.00 | 17.00 | 17.00 | 17.00 |
| S (hole dia.) | .56 | .56 | .56 | .81 | .81 | .81 | .81 |
| T | .25 | .25 | .25 | .38 | .38 | .38 | .38 |
| V | - | - | - | - | - | 12.38 | 12.38 |

Dimensions are for reference only and subject to change without notice.
${ }^{1}$ Handles are adjustable, dimension shown is for maximum handle length.

## 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 Models 4WM2 and 2W40, oil seals keep oil in and dirt out.
■ Hex Drive and handle are included. Models 4WM2 and 2W40* can be power driven with a maximum 300 rpm drill-motor.
■ Automatic Brake Models provide positive load control for lifting. Brake models have a PB or B suffix. Models 4WM2 and 2W40-B feature 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
*See Drill Drive performance chart on page 11.


## Worm Gear Hand Winches - Configurations and Performance Characteristics

| Model | Description | LOAD RATING |  |  |  |  |  | Wire Rope Dia. |  | DRUM CAPACITY ${ }^{1}$ |  |  |  |  |  | Gear Ratio | Force $^{2}$to lift1000 lbs |  | Approx. Ship Wt. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1st Layer |  | Mid Drum |  | Full Drum |  |  |  | 1st Layer |  | Mid Drum |  | Full Drum |  |  |  |  |  |  |
|  |  | (lb) | (kg) | (lb) | (kg) | (lb) | (kg) | (in) | (mm) | (ft) | (m) | (ft) | (m) | (ft) | (m) |  | (lb) | (kg) | (lb) | (kg) |
| 465 | 750 lb - open gears (recommended for pulling only) | 750 | 340 | 600 | 272 | 400 | 181 | $\begin{gathered} 1 / 8 \\ 3 / 16 \end{gathered}$ | $\begin{aligned} & 3.2 \\ & 4.8 \end{aligned}$ | $\begin{aligned} & 7 \\ & 4 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 58 \\ & 27 \end{aligned}$ | $\begin{gathered} 17 \\ 8 \end{gathered}$ | $\begin{gathered} 130 \\ 59 \end{gathered}$ | $\begin{aligned} & 39 \\ & 17 \end{aligned}$ | 20:1 | 21 | 9.5 | 12 | 5 |
| 462 | 1000 lb - enclosed gearing (recommended for pulling only) | 1000 | 453 | 700 | 317 | 500 | 226 | $\begin{gathered} c \\ 1 / 8 \\ 3 / 16 \end{gathered}$ | $\begin{aligned} & 3.2 \\ & 4.8 \end{aligned}$ | $\begin{aligned} & 7 \\ & 4 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 61 \\ & 28 \end{aligned}$ | $\begin{gathered} 18 \\ 8 \end{gathered}$ | $\begin{aligned} & 140 \\ & 61 \end{aligned}$ | $\begin{aligned} & 42 \\ & 18 \end{aligned}$ | 15:1 | 34 | 15.4 | 15 | 7 |
| 4622PB | 1000 lb - enclosed gearing with brake (for lifting) | 1000 | 453 | 700 | 317 | 500 | 226 | $\begin{gathered} 1 / 8 \\ 3 / 16 \end{gathered}$ | $\begin{aligned} & 3.2 \\ & 4.8 \end{aligned}$ | $\begin{aligned} & 7 \\ & 4 \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & 61 \\ & 28 \end{aligned}$ | $\begin{gathered} 18 \\ 8 \end{gathered}$ | $\begin{aligned} & 140 \\ & 61 \end{aligned}$ | $\begin{aligned} & 42 \\ & 18 \end{aligned}$ | 15:1 | 26 | 11.8 | 21 | 10 |
| 472 | 2000 lb - enclosed gearing (recommended for pulling only) | 2000 | 907 | 1700 | 771 | 1300 | 589 | $\begin{gathered} 3 / 16 \\ 1 / 4 \\ 5 / 16 \end{gathered}$ | $\begin{aligned} & 4.8 \\ & 6.4 \\ & 7.9 \end{aligned}$ | $\begin{gathered} 15 \\ 11 \\ 8 \end{gathered}$ | $\begin{aligned} & 4 \\ & 3 \\ & 0 \end{aligned}$ | $\begin{aligned} & 65 \\ & 35 \\ & 23 \end{aligned}$ | $\begin{gathered} 19 \\ 10 \\ 7 \end{gathered}$ | $\begin{gathered} 140 \\ 77 \\ 52 \end{gathered}$ | $\begin{aligned} & 42 \\ & 23 \\ & 15 \end{aligned}$ | 24:1 | 24 | 10.9 | 32 | 15 |
| 4WM2 | 2000 lb - enclosed gearing with brake (for lifting) Drill Driveable | 2000 | 907 | 1500 | 680 | 1200 | 544 |  | $\begin{gathered} 6.4 \\ \text { (not rec } \end{gathered}$ | $11$ <br> omm | $\begin{gathered} 3 \\ \text { nded } \end{gathered}$ | $35$ <br> this | $\begin{gathered} 10 \\ \text { winch) } \end{gathered}$ | 77 | 23 | 32:1 | 14 | 6.4 | 41 | 19 |
| 2W40-L | 4000 lb - enclosed gearing (recommended for pulling only) | 4000 | 1814 | 2800 | 1270 | 2200 | 997 | $\begin{gathered} 5 / 16 \\ 3 / 8 \end{gathered}$ | $\begin{aligned} & 7.9 \\ & 9.5 \end{aligned}$ | $\begin{aligned} & 18 \\ & 14 \end{aligned}$ | $\begin{aligned} & 5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 91 \\ & 65 \end{aligned}$ | $\begin{aligned} & 27 \\ & 19 \end{aligned}$ | $\begin{aligned} & 200 \\ & 140 \end{aligned}$ | $\begin{aligned} & 60 \\ & 42 \end{aligned}$ | 26:1 | 18 | 8.2 | 140 | 64 |
| 2W40-BL | 4000 lb - enclosed gearing with brake (for lifting) | 4000 | 1814 | 2800 | 1270 | 2200 | 997 | $\begin{gathered} 5 / 16 \\ 3 / 8 \end{gathered}$ | $\begin{aligned} & 7.9 \\ & 9.5 \end{aligned}$ | $\begin{aligned} & 18 \\ & 14 \end{aligned}$ | $\begin{aligned} & 5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 91 \\ & 65 \end{aligned}$ | $\begin{aligned} & 27 \\ & 19 \end{aligned}$ | $\begin{aligned} & 200 \\ & 140 \end{aligned}$ | $\begin{aligned} & 60 \\ & 42 \end{aligned}$ |  |  |  | 135 | 62 |
| 2W40-M | 4600 lb - enclosed gearing (recommended for pulling only) Drill Driveable* | 4600 | 2086 | 3300 | 1496 | 2500 | 1133 | $\begin{gathered} 5 / 16 \\ 3 / 8 \end{gathered}$ | $\begin{aligned} & 7.9 \\ & 9.5 \end{aligned}$ | $\begin{aligned} & 18 \\ & 14 \end{aligned}$ | $\begin{aligned} & 5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 91 \\ & 65 \end{aligned}$ | $\begin{aligned} & 27 \\ & 19 \end{aligned}$ | $\begin{aligned} & 200 \\ & 140 \end{aligned}$ | $\begin{aligned} & 60 \\ & 42 \end{aligned}$ | 31:1 | 11 | 5.0 | 150 | 69 |
| 2W40-8M | 4600 lb - enclosed gearing with brake (for lifting) Drill Driveable* | 4600 | 2086 | 3300 | 1496 | 2500 | 1133 | $\begin{gathered} 5 / 16 \\ 3 / 8 \end{gathered}$ | $\begin{aligned} & 7.9 \\ & 9.5 \end{aligned}$ | $\begin{aligned} & 18 \\ & 14 \end{aligned}$ | 5 | $\begin{aligned} & 91 \\ & 65 \end{aligned}$ | 27 19 | $\begin{aligned} & 200 \\ & 140 \\ & \hline \end{aligned}$ | $\begin{aligned} & 60 \\ & 42 \end{aligned}$ |  |  |  | 145 | 66 |

[^2]
## WORMCEAR HAND WINCHES



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


Model 4622PB


Wire Rope Installation Model 465


Wire Rope Installation Models 462 and 4622PB


## IMPORTANT:

It is the owner 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.


Worm Gear Hand Winches - Dimensions

|  | 465 |  | 462 |  | 4622PB |  | 472 |  | 4WM2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| Drum Diameter | 1.50 | 38.1 | 1.50 | 38.1 | 1.50 | 38.1 | 2.50 | 63.5 | 2.50 | 63.5 |
| Flange Diameter | 4.00 | 101.6 | 4.06 | 103.1 | 4.06 | 103.1 | 5.00 | 127 | 5.00 | 127 |
| Drum Width | 2.81 | 71.3 | 2.81 | 71.3 | 2.81 | 71.3 | 5.00 | 127 | 5.00 | 127 |
| A | 6.50 | 165.1 | 7.75 | 196.8 | 7.50 | 190.5 | 10.12 | 257.0 | 13.50 | 342.9 |
| B | 10.50 | 266.7 | 10.25 | 260.3 | 11.81 | 299.9 | 12.00 | 304.8 | 15.56 | 395.2 |
| C | 5.44 | 138.1 | 5.63 | 143.0 | 5.62 | 142.7 | 7.12 | 180.8 | 8.56 | 217.4 |
| D | 3.40 | 86.3 | 2.38 | 60.4 | 2.40 | 60.9 | 3.06 | 77.7 | 3.31 | 84.0 |
| E | 1.40 | 35.5 | 4.38 | 111.2 | 4.38 | 111.2 | 5.81 | 147.5 | 6.04 | 153.4 |
| F | 6.38 | 162.0 | 5.88 | 149.3 | 7.60 | 193.0 | 7.94 | 201.6 | 11.56 | 293.6 |
| G | 8.75 | 222.2 | 9.00 | 228.6 | 10.59 | 268.9 | 7.25 | 184.1 | 10.59 | 268.9 |
| H | 10.59 | 268.9 | 13.38 | 339.8 | 15.59 | 395.9 | 13.38 | 339.8 | 17.30 | 439.4 |
| J | 2.00 | 50.8 | 2.00 | 50.8 | 2.00 | 50.8 | 3.75 | 95.2 | 1.75 | 44.4 |
| K | 5.75 | 146.0 | 4.44 | 112.7 | 4.44 | 112.7 | 6.69 | 169.9 | 3.75 | 95.2 |
| L | 2.50 | 63.5 | 2.50 | 63.5 | 2.50 | 63.5 | 4.00 | 101.6 | 4.00 | 101.6 |
| M | 4.50 | 114.3 | 3.50 | 88.90 | 3.50 | 88.90 | 5.00 | 127 | 13.50 | 342.9 |
| S (hole diameter) | . 40 | 10.1 | . 40 | 10.1 | . 40 | 10.1 | . 40 | 10.1 | . 41 | 10.4 |
| T | . 19 | 4.8 | . 19 | 4.8 | . 19 | 4.8 | . 25 | 6.3 | - | - |

[^3]
## AADMWOHSWORM CEAR



Install wire rope correctly as shown or brake will not operate properly. Underwound - set screw or quick disconnect anchors.


These products are not for lifting people or things over people.
FLCL-0416

## 2W40 Series Worm Gear Hand Winches - Dimensions

| Model | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{F}$ | $\mathbf{G}$ | $\mathbf{H}$ | $\mathbf{J}$ | $\mathbf{K}$ | $\mathbf{L}$ | $\mathbf{M}$ | $\mathbf{S}$ <br> (hole dia) | $\mathbf{T}$ | Flange <br> (ia | Drum <br> Width | Drum <br> Dia |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (in) | (in) | (in) | (in) | (in) | (in) | in) | (in) | (in) | (in) | in) | (in) | (in) | (in) | (in) | (in) | (in) |
| 2W40-L | 17.25 | 19.75 | 14.25 | 5.63 | 10.25 | 14.5 | 18.5 | 29.25 | 6 | 10.5 | 7 | 9 | $9 / 16$ | .5 | 8.5 | 6.5 | 4 |
| 2W40-M | 17.25 | 17.25 | 14.25 | 5.63 | 10.25 | 13.5 | 13.5 | 24.50 | 6 | 10.5 | 7 | 9 | $9 / 16$ | .5 | 8.5 | 6.5 | 4 |
| 2W40-BL | 17.25 | 23.5 | 15 | 5.63 | 10.25 | 18.25 | 18.5 | 29.25 | 6 | 10.5 | 7 | 9 | $9 / 16$ | .5 | 8.5 | 6.5 | 4 |
| 2W40-BM | 17.25 | 21 | 15 | 5.63 | 10.25 | 17 | 13.5 | 24.50 | 6 | 10.5 | 7 | 9 | $9 / 16$ | .5 | 8.5 | 6.5 | 4 |

Dimensions are for reference only and subject to change without notice.
2W40 Series Performance Characteristics - Drill Drive ${ }^{1}$

| Model | Load Rating |  |  |  |  |  | Drill Model: ED300-DW11 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1st Layer |  | Mid Drum |  | Full Drum |  | RPM | Volts | Duty Cycle ${ }^{2}$ |
|  | (lb) | (kg) | (lb) | (kg) | (lb) | (kg) |  |  | Maximum |
| 2W40-M | 2300 | 1043 | 1650 | 748 | 1250 | 566 | 300 | 120 | 40 ft of life or 5 min of operation |
| 2W40-BM | 2300 | 1043 | 1650 | 748 | 1250 | 566 | 300 | 120 | 40 ft of life or 5 min of operation |

[^4]
[^0]:    Please contact factory or nearest Thern Distributor for firm fixed price and delivery.
    ${ }^{1}$ For Models M4022, M4022PB, M4032, M4032PB ball end is available for $1 / 8$ inch and $3 / 16$ inch only.
    For Models M4042PBSS, M4312, M4312PB, M4312PBSS, M4412, M4412PB ball end is available for $3 / 16$ inch and $1 / 4$ inch only.
    ${ }^{2}$ Actual drum capacities may be $25-30 \%$ less, due to nonuniform winding. Wire rope tension will also affect drum capacity.
    ${ }^{3}$ Approximate handle force required to lift 1000 lb with an empty drum, and maximum handle length.

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    ${ }^{1}$ 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.

[^2]:    Please contact factory or nearest Thern Distributor for firm fixed price and delivery.
    ${ }^{1}$ 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.

[^3]:    Dimensions are for reference only and subject to change without notice.

[^4]:    Performance Characteristics refer to standard products. Non-standard products may vary from the original design. Contact Thern for this information.
    ${ }^{2}$ Duty cycle includes lifting and lowering and may vary depending on load or application. Allow components to cool between cycles.
    Dimensions are for reference only and subject to change without notice.

