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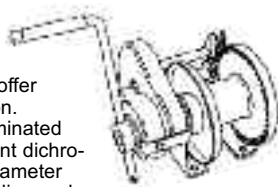
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WORM GEAR
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Hand Winches

Spur Gear Hand Winches Marine Grade - up to 1 ton

For both lifting and pulling, these winches offer quick load movement and ease of operation. Machine cut gears outlast conventional laminated gears for years of reliable service. Iridescent dichromate plating resists corrosion, and large diameter drums extend cable life by minimizing bending and wear. We recommend disc brakes for all lifting applications (with Disk Break)



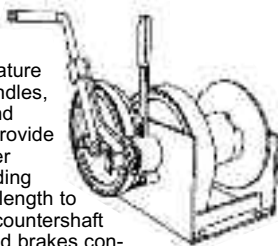
Model M4311

| Model | Gear Ratio | Load Rating 2nd Layer | Load Rating Full Drum | Cable Diameter | Full Drum Capacity | Force to Lift 1000 lbs | Approx. Ship Wt. |
|-------|------------|-----------------------|-----------------------|----------------|--------------------|------------------------|------------------|
| M401 | 1.00:1 | 500 lbs | 200 lbs | 3/16 in | 55 ft | - | 8 lbs |
| M4021 | 2.85:1 | 1,000 lbs | 300 lbs | 3/16 in | 55 ft | 55 lbs | 11 lbs |
| M4031 | 2.85:1 | 1,000 lbs | 300 lbs | 3/16 in | 110ft | 55 lbs | 13 lbs |
| M4311 | 14.70:1 | 2,000 lbs | 850 lbs | 1/4 in | 70 ft | 22 lbs | 23 lbs |
| M4411 | 14.70:1 | 2,000 lbs | 850 lbs | 1/4 in | 140 ft | 22 lbs | 25 lbs |

Drum capacities may be 25-30% less, due to non-uniform winding. Tension in the cable will also affect drum capacity.

Spur Gear Hand Winches Marine Grade - up to 5 ton

Ideal for heavy-duty use, these winches feature iridescent dichromate plated gears and handles, with an alkyd enamel finish on the drum and frame. The solid steel machine cut gears provide years of reliable service, and large diameter drums extend cable life by minimizing bending and wear. The handles can be adjusted in length to change operating speed, or moved to the countershaft for quick rewinding of unloaded cable. Hand brakes control, but do not hold the load. We recommend disc brakes for all lifting applications.



Model M492

| Model | Gear Ratio | Load Rating 2nd Layer | Load Rating Full Drum | Cable Diameter | Full Drum Capacity | Force to Lift 1000 lbs | Approx. Ship Wt. |
|-------|------------|-----------------------|-----------------------|----------------|--------------------|------------------------|------------------|
| M452 | 19.54:1 | 4000 lbs | 2000 lbs | 3/8 in | 140 ft | 4.5 lbs | 81 lbs |
| M492 | 25.00:1 | 10000 lbs | 4000 lbs | 1/2 in | 220 ft | 5.4 lbs | 158 lbs |

Drum capacities may be 25-30% less, due to non-uniform winding. Tension in the cable will also affect drum capacity.

Worm Gear Hand Winches

Good for jobs where accuracy and reliability are important, Worm Gear Hand Winches feature machine cut gears which operate in enclosed oil baths for smooth operation and long life. Winches can be converted for wall mounting, or equipped with handle locks which help hold the load. We recommend disc brakes for all lifting applications.



Model 472

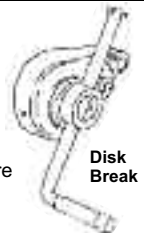
| Model | Gear Ratio | Load Rating 2nd Layer | Load Rating Full Drum | Cable Diameter | Full Drum Capacity | Force to Lift 1000 lbs | Approx. Ship Wt. |
|-------|------------|-----------------------|-----------------------|----------------|--------------------|------------------------|------------------|
| 465 | 20:1 | 750 lbs | 300 lbs | 3/16 in | 55 ft | - | 12 lbs |
| 462 | 15:1 | 1,000 lbs | 400 lbs | 3/16 in | 55 ft | 34 lbs | 15 lbs |
| 472 | 24:1 | 2,000 lbs | 1,000 lbs | 1/4 in | 75 ft | 24 lbs | 32 lbs |
| 482 | 26:1 | 4,000 lbs | 2,000 lbs | 3/8 in | 140 ft | 31 lbs | 100 lbs |

Drum capacities may be 25-30% less, due to non-uniform winding. Tension in the cable will also affect drum capacity.

Model 465 gears are open (not enclosed in oil bath)

Disc Brakes

Them recommends Disc Brakes for all Hand Winches used to lift loads or drag loads up an incline. The Weston type Disc Brake operates automatically, when you turn the brake handle the brake releases, and when you stop turning the handle the brake tightens to hold the load in place. Disc Brakes replace standard winch handles and are field or factory installed depending on the model, see the table below.



Disk Brake

| Installation | M4021 | M4031 | M4311 M4321 | M4411 M4421 | M452 | M492 | 462 | 472 | 482 |
|--------------|--------|--------|----------------|----------------|-------|-------|------|------|------|
| Field* | - | - | MB441 | MB441 | MB451 | MB491 | - | - | - |
| Factory** | M4021B | M4031B | - | - | - | - | 462B | 472B | 482B |

* Field installed models: order the winch and brake separately, using the model numbers shown.

** Factory installed models: add the letter "B" to the winch model number when ordering.

CW Series - Compact Heavy Duty Winches

Lightweight but Tough - All cast aluminum construction that makes it lightweight, but rugged for heavy-duty applications.

Compact - Our model CW 150 measures a compact five inches square (130 mm) without its handle.

Removable Hand Cranks - Cranks are removable under load to prevent tampering with the winch when the operator is not present.

Enclosed Gears - Our fully enclosed gears provide maximum safety.

Three Sizes - Three models are available with linepull capacity ranging from 150 lbs (68 kg) to 550 lbs (250 kg).



| Model No. | WLL | | Rope Dia. | | Rope Storage Capacity | | Lift Per Crank Rotation | | Hand Force Required | |
|-----------|-----|-----|-----------|-----|-----------------------|----|-------------------------|-----|---------------------|----|
| | lb | kg | in | mm | ft | m | in | mm | lb | kg |
| CW 150 | 150 | 68 | 1/8 | 3 | 65 | 20 | 5 | 127 | 22 | 10 |
| CW 275 | 275 | 125 | 1/8 | 3 | 65 | 20 | 5 | 127 | 27 | 12 |
| CW 550 | 550 | 250 | 3/16 | 4.7 | 50 | 15 | 2.25 | 57 | 35 | 16 |

GW Series (Wall Mount)

Seven rugged sizes available. High-end sizes equipped with 2-speed gearing for ease in handling heavy loads. Hand cranks are removable under load to prevent tampering. Other models include:

GWC - Chain operated for use in hard to reach locations

GWG - with grooved drum.

| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| GW 550 | 550 | 3/16 | 222 |
| GW 1100 | 1100 | 1/4 | 222 |
| GW 2200 | 2200 | 3/8 | 190 |
| GW 3300 | 3300 | 7/16 | 165 |



GWC Series (Chain Operated)

Seven rugged sizes available. Chain allows the winch to be mounted in a location not easily accessible by the operator. High end sizes equipped with 2-speed gearing for ease in handling heavy loads. Effective use of roller bearings and bushings minimizes friction, for ease of operation and longer life.

| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| GWC 550 | 550 | 3/16 | 222 |
| GWC 1100 | 1100 | 1/4 | 222 |
| GWC 2200 | 2200 | 3/8 | 198 |
| GWC 3300 | 3300 | 7/16 | 165 |



WMA Series (Aluminum Wall Mount)

Compact all cast aluminum construction that makes it lightweight, but rugged for heavy-duty applications. Cranks are removable under load to prevent tampering. Fully enclosed gears for safety.

| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| WMA 175 | 175 | 1/8 | 98 |
| WMA 275 | 275 | 3/16 | 39 |



GS Series (Wall Mount Spur Gear)

Leading edge design reduces cranking effort. Space-saver profile and fold-back crank allows ease of installation in tight spaces. Effective use of needle and roller bearings and bushings minimizes friction ensuring ease of operation, increased life and minimum cranking effort.

| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| GS 275 | 275 | 1/8 | 171 |
| GS 660 | 660 | 3/16 | 81 |
| GS 1100 | 1100 | 1/4 | 46 |
| GS 2200 | 2200 | 3/8 | 93 |



- Please Call for Complete Dimensional Information -

Winches

Hand Winches

CMG Series

(Galvanized Console Mount)

(Also available in CMS Series - Stainless Steel)

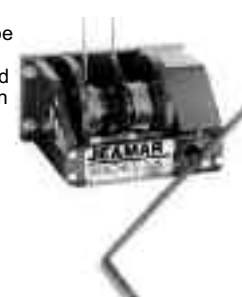
Galvanized for corrosion resistance, making it ideal for outdoor use. Lightweight for easy handling and installation. Leading-edge design reduces cranking effort.



| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| CMG 330 | 330 | 3/16 | 45 |
| CMG 1450 | 1450 | 1/4 | 66 |
| CMG 2000 | 2000 | 5/16 | 46 |
| CMG 3000 | 3000 | 5/16 | 85 |

GWF Series (Centre Flange)

Seven rugged sizes available. Two ropes can be operated simultaneously. Drums have a center flange and rope anchors at either end. High-end sizes equipped with 2-speed gearing for ease in handling heavy loads. Effective use of needle roller bearings and bushings minimizes friction.



| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| GWF 550 | 275 | 1/8 | 35 |
| GWF 1100 | 550 | 3/16 | 40 |
| GWF 2200 | 1100 | 1/4 | 60 |
| GWF 3300 | 1650 | 5/16 | 60 |

CMC Series (Aluminum Free Spooling)

Lightweight permits easy handling and installation. Ideal for getting rope quickly under no-load conditions. A sealed oil bath ensures constant protection and quiet operation.



| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| CMC 1600 | 1600 | 1/4 | 33 |
| CMC 2400 | 2400 | 5/16 | 33 |

CFF Series (Controlled Free Fall)

Push the handle back in the reverse direction and the winch will pay out a controlled speed. Payout is variable up to a predetermined maximum. All gears are fully enclosed for increased operational protection.



| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| CFF 660 | 660 | 3/16 | 85 |
| CFF 1100 | 1100 | 1/4 | 67 |
| CFF 2200 | 2200 | 3/8 | 50 |
| CFF 3300 | 3300 | 7/16 | 45 |

CMA Series

(Seaworthy Aluminum)

Corrosion resistant aluminum, ideal for deck machinery and dockside applications. High-end sizes are equipped with 2-speed gearing for ease in handling heavy loads. Cranks from either end. Mounts in any position.



| Model No. | WLL (lb) | Rope Dia. (in) | Rope Storage Cap. (ft) |
|-----------|----------|----------------|------------------------|
| CMA 440 | 440 | 3/16 | 40 |
| CMA 1100 | 1100 | 1/4 | 50 |
| CMA 1760 | 1760 | 5/16 | 78 |

WG Series - Heavy Duty Hand Winches

Choose from Six Rugged Models - WG series winches have been designed for heavy-duty use. Models provide linepull from 550 lbs (250 kg) to 11,000 lbs (5,000 kg).

Two Speeds - High-end models - WG 4400 to WG 11000 - are equipped with two-speed gearing for ease in handling heavy loads.

Removable Hand Cranks - Hand cranks can be removed under load conditions to prevent tampering when the operator is not present.



| Model No. | WLL | | Rope Dia. | | Rope Storage Capacity | | Lift Per Crank Rotation | | | | Hand Force Required | |
|-----------|--------|-------|-----------|----|-----------------------|----|-------------------------|-----|-----------|----|---------------------|----|
| | lb | kg | in | mm | ft | m | Low Gear | | High Gear | | lb | kg |
| WG 550 | 550 | 250 | 3/16 | 4 | 65 | 20 | - | - | 1.43 | 36 | 37 | 17 |
| WG 1100 | 1,100 | 500 | 1/4 | 6 | 75 | 23 | - | - | 1.38 | 35 | 44 | 20 |
| WG 2200 | 2,200 | 1,000 | 3/8 | 8 | 90 | 27 | - | - | 1.42 | 36 | 55 | 25 |
| WG 4400 | 4,400 | 2,000 | 1/2 | 11 | 105 | 32 | .28 | 7.1 | 1.14 | 29 | 33 | 15 |
| WG 7000 | 7,000 | 3,200 | 5/8 | 14 | 105 | 32 | .32 | 8 | 1.26 | 32 | 55 | 25 |
| WG 11000 | 11,000 | 5,000 | 3/4 | 18 | 105 | 32 | .22 | 5.5 | .87 | 22 | 55 | 25 |

WSG Series - Heavy Duty Hand Winches

Fully Enclosed Gears; Permanently Lubricated

- The WSG's enclosed worm shaft and worm wheel are immersed in an oil bath, providing constant lubrication and protection from corrosion. Maintenance is reduced while life expectancy is increased.

High Rope to Drum Ratio - Rope life is substantially increased with drum diameters a minimum of 20 times the diameter of the rope. With wire rope under reduced bending stress, premature rope breakage is minimized.

Tough, All-Cast Construction - Choose from three models designed for heavy-duty use. Models range from 550 lbs (250 kg) linepull to 1650 lbs (750 kg) linepull.

Removable Hand Cranks - Hand cranks can be removed under load conditions to prevent tampering when the operator is not present.



| Model No. | WLL | | Rope Dia. | | Rope Storage Capacity | | Lift Per Crank Rotation | | | | Hand Force Required | |
|-----------|------|-----|-----------|----|-----------------------|----|-------------------------|----|----|------|---------------------|----|
| | lb | kg | in | mm | ft | m | in | | mm | | lb | kg |
| WSG 550 | 550 | 250 | 3/16 | 5 | 60 | 18 | .79 | 20 | 20 | 9.2 | | |
| WSG 1100 | 1100 | 500 | 1/4 | 6 | 95 | 29 | 1.0 | 26 | 32 | 14.5 | | |
| WSG 1650 | 1650 | 750 | 5/16 | 8 | 157 | 48 | .79 | 20 | 35 | 16 | | |

Power Winches

Model 100A/Standard Series - Standard Electric Winch Hoist 1,000 lb. Single-Line or 2,000 lb. Double-Line Lift

APPLICATIONS:

- For pulling jobs with loads up to 8,000 lbs
- Multiple-story construction site work
- Long-lift applications
- Tower erection and maintenance
- Easily portable from job to job

FEATURES:

- Worm gear reduction for positive load holding
- Dynamic braking for instant stopping
- Rugged construction
- 115 Volt AC power
- Low voltage 10 ft. pendant control
- High-capacity cable drum
- Frictionless bearings
- Full power reversible

SPECIFICATIONS:

Construction Features:

- Heavy-duty angle base drilled for six (6) 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Stress-proof drum shaft
- Frictionless bearings

Gear System:

- 286:1 total reduction
- Hardened steel worm and forged bronze worm gear holds load in position when stopped

Power:

- Universal 18,000 RPM reversible 1.4 HP motor (no-load speed)
- 15 ft power cord plugs into any 115 Volt, AC, grounded outlet

- 6 amp - No load
- 19 amp - Full load

Speeds:

- 59 RPM: No-load drum speed
- 30 FPM: No-load drum speed
- 25 FPM: 500 lbs - single-line lift
- 20 FPM: 1,000 lbs - single-line lift
- 10 FPM: 2,000 lbs - double-line lift

Note: All speeds are based on one layer of cable on drum.

Duty Cycle:

- 25% - 15 min/hr when operating at full load

Drum Storage:

Model No. 100A Model No. 150A

- 1/8" - 1,000 ft • 1/8" - 285 ft
- 3/16" - 450 ft • 3/16" - 125 ft
- 1/4" - 250 ft • 1/4" - 70 ft
- 5/16" - 150 ft • 5/16" - 45 ft

For best results, use the minimum amount of cable required for application plus four safety turns around the drum. Cable sold separately. Length and size must be specified at time of order.

Lifting Capacity:

- 1,000 lbs - 1-2 layers of cable (39 ft of 1/4" cable)
- 850 lbs - 3 layers of cable (65 ft of 1/4" cable)
- 600 lbs - full drum of cable (250 ft of 1/4" cable)

Pulling Capacity:

- 10% (6°): 8,000 lbs • 60% (31°): 1,500 lbs
- 20% (11°): 4,000 lbs • 80% (39°): 1,300 lbs
- 40% (22°): 2,100 lbs • 100% (45°): 1,100 lbs

MY-TE winch-hoists are rated for what they will vertically lift. Above data is based on the total load that may be pulled,



single line, up a given incline. All capacities are reduced 20% to allow for minimum friction in pull.

Cable Strength:

- 5:1 recommended safety factor
- Top-quality galvanized cable available in the following breaking strengths:

| | |
|-------------------|-------------------|
| 1/8" - 2,000 lbs | 1/4" - 7,000 lbs |
| 3/16" - 4,200 lbs | 5/16" - 9,800 lbs |

Dimensions: (W" x H" x L")

- 100A: 12" x 13" x 23"
- 150A: 12" x 13" x 19"

Shipping Weight: 67 lbs

Factory-installed Options:

- 230 Volt
- Clutch
- Limit Switch
- Hand Crank
- Alternate Drums
- Upside-Down Mounting
- Variable Speed
- High Speed Gears

Model Air 1000/Standard Series - Standard Pneumatic Winch-Hoist 1,250 lb. Single-Line or 2,500 lb. Double-Line Lift

APPLICATIONS

- Construction: Mechanical, Sheet Metal, Iron Working
- Industrial: Maintenance, Material Handling, Rolling Loads
- Conveyor maintenance
- Stack Emission testing
- Tower maintenance

FEATURES

- Worm gear reduction for positive load holding
- Rugged construction
- Pneumatic power
- 10 ft pendant control
- High capacity cable drum
- Frictionless bearings
- Full power reversible
- Optional manual trolley

SPECIFICATIONS:

Construction Features:

- Heavy-duty angle base drilled for six (6) 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Stress-proof drum shaft
- Frictionless bearings

Gear System:

- 60:1 total reduction
- 30:1 hardened steel worm and forged bronze worm gear drive

- 2:1 motor to worm shaft chain drive with chain guard

Power:

- Optimal performance with 100 psi, 65 cfm

Speeds:

- 25 FPM: 600 lbs - single-line lift
- 15 FPM: 1,250 lbs - single-line lift
- 7.5 FPM: 2,500 lbs - double-line lift

Duty Circle:

- 50% - 30 min/hr when operating at full load

Drum Storage:

- 1/8" - 1,000 ft • 1/4" - 250 ft
- 3/16" - 450 ft • 5/16" - 150 ft

For best results, use the minimum amount of cable required for application plus four safety turns around the drum. Cable sold separately. Length and size must be specified at time of order.

Lifting Capacity:

- 1,250 lbs - 1-2 layers of cable (39 ft of 1/4" cable)
- 800 lbs - 3 layers of cable (65 ft of 1/4" cable)
- 600 lbs - full drum of cable (250 ft of 1/4" cable)

Pulling Capacity:

- 10% (6°): 10,000 lbs • 60% (31°): 1,900 lbs
- 20% (11°): 5,000 lbs • 80% (39°): 1,600 lbs
- 40% (22°): 2,600 lbs • 100% (45°): 1,400 lbs

My-te winch-hoists are rated for what they will vertically lift. Above data is based on the total load that may be pulled, sin-



gle line, up a given incline. All capacities are reduced 20% to allow for minimum friction in pull.

Cable Strength:

- 5-to-1 recommended safety factor
- Top-quality galvanized cable available in the following breaking strengths:

| | |
|-------------------|-------------------|
| 1/8" - 2,000 lbs | 1/4" - 7,000 lbs |
| 3/16" - 4,200 lbs | 5/16" - 9,800 lbs |

Dimensions: (W" x H" x L")

- 12" x 11" x 22"

Shipping Weight: 77 lbs

Factory-installed Options:

- Free-Wheeling Clutch
- Hand Crank
- Trolley Mounting
- Alternate Drums

Please call for complete dimensional information, as well as available options & accessories.

Winches

Power Winches

Model AC36/Max Series - Max Electric Winch-Hoist 3,000 lb. Single-Line or 6,000 lb. Double-Line Lift

APPLICATIONS

- Heavy duty lifting
- Ideal for in-plant use
- Moving equipment
- Lifting motors and heavy apparatus
- Elevator installation

FEATURES

- Worm gear reduction for positive load holding
- Dynamic braking for instant stopping
- Compact, heavy-duty construction
- 115 Volt AC power
- Low voltage 10 ft pendant control
- Full power reversible
- Cable tensioner for better cable tracking

SPECIFICATIONS

Construction Features:

- Heavy-duty angle base drilled for six (6) 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Gear guard encloses external gear reduction
- Frictionless bearings

Gear System:

- 1430:1 double reduction
- First reduction combines spur gears with hardened steel worm and forged bronze worm gear holds in load position when stopped
- Second reduction uses hardened heavy-duty spur gears

Power:

- Universal 18,000 RPM reversible 1.4 HP motor (no-load speed)

- 15 ft power cord plugs into any 115 Volt, AC, grounded outlet
- 6 amp – No-load
- 19 amp – Full-load

Speeds:

- 11 RPM: No-load drum speed
- 11 FPM: No-load drum speed
- 9 FPM: 1,000 lbs - single-line lift
- 7.25 FPM: 3,000 lbs - single-line lift
- 3.5 FPM: 6,000 lbs - double-line lift

Note: All speeds are based on one layer of cable on drum.

Duty Cycle:

- 25% – 15 min/hr when operating at full load

Drum Storage:

- 1/4" – 250 ft
- 5/16" – 160 ft
- 3/8" – 110 ft

For best results, use the minimum amount of cable required for application plus four safety turns around the drum. Cable sold separately. Length and size must be specified at time of order

Lifting Capacity:

- 3,000 lbs - 1-2 layers of cable (54 ft of 5/16" cable)
- 2,650 lbs - 3 layers of cable (100 ft of 5/16" cable)
- 2,150 lbs-full drum of cable (160 ft of 5/16" cable)

Pulling Capacity:

- 10% (61°): 24,000 lbs
- 20% (11°): 12,200 lbs
- 40% (22°): 6,400 lbs
- 60% (31°): 4,600 lbs
- 80% (39°): 3,800 lbs
- 100% (45°): 3,300 lbs

My-te winch-hoists are rated for what they will vertically lift. Above data is based on the total load that may be pulled, single line, up a given incline. All capacities are reduced 20% to allow for minimum friction in pull.



Cable Strength:

- 5 to 1 recommended safety factor
- Top-quality galvanized cable available in the following breaking strengths:
1/4" - 7,000 lbs
5/16"- 9,800 lbs
3/8" - 14,400 lbs

Dimensions: (W" x H" x L")
13" x 13" x 27"

Shipping Weight: 127 lbs

Factory-Installed Options:

- 230 Volt
- Clutch
- Upside-Down Mounting
- Model DC48 (12V DC Power)

Model DC48 available in 12 Volt DC power. Contact Hanes Supply, Inc. for specifications.

Model 30-12/300A /Utility Series - Utility Capstan Electric Winch-Hoist 800 lb. Single-Line or 1,600 lb. Double-Line Lift

APPLICATIONS

- Utility Truck Installation
- Overhead Line Crews
- Tower and Antenna Erection
- Transformer Replacement

FEATURES

- Worm gear reduction for positive load holding
- Portable and rugged
- 12 Volt DC or 115 Volt AC powered
- 10 ft pendant hand or foot control
- Capstan rope drum
- Frictionless bearings
- Full power reversible

SPECIFICATIONS

Construction Features:

- Heavy-duty angle base drilled for six (6) 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Stress-proof drum shaft
- Frictionless bearings

Gear System:

Model 30-12

- 175:1
- Hardened steel worm and forged bronze worm gear holds load in position when stopped

Model 300A

- 286:1

- Hardened steel worm and forged bronze worm gear holds load in position when stopped

Hoisting Rope:

Consult your local dealer for type and size of rope. Maintain at least three wraps of rope on capstan drum when in use. Heavier loads may require four wraps of rope.

Power:

Model 30-12

- Reversible permanent magnet 12 Volt DC motor
- 10 amp - No-load
- 70 amp - Full-load

Model 300A

- Universal 18,000 RPM reversible 1.4 HP motor (no-load speed)
- 6 amp - No-load
- 19 amp - Full-load
- 15 ft power cord plugs into any 115 Volt AC grounded outlet

Speeds:

Model 30-12

- 20 FPM - No-load drum speed
- 15 FPM - 500 lbs

Model 300A

- 59 FPM - No-load drum speed
- 30 FPM - 500 lbs



Model 30-12 shown

Duty Cycle:

- 25% – 15 min/hr when operating at full load

Dimensions: (W x H" x L")
12" x 14" x 19"

Shipping Weight:

Model 30-12 – 65 lbs
Model 300A – 64 lbs

Factory-Installed Options:

Model 30-12

- Foot Switch
- High Speed Gears
- Pole Mount
- Swivel Mount
- Bayonet Shaft Adapter

Model 300A

- Foot Switch
- 230 Volt
- Pole Mount
- Variable Speed
- Bayonet Shaft Adapter
- Swivel Mount

Please call for complete dimensional information, as well as available options & accessories.

Power Winches

Model 800/I-Beam Series - I-Beam Electric Winch-Hoist 1,000 lb. Single-Line or 2,000 lb. Double-Line Lift

APPLICATIONS

- All Purpose Lifting
- Long-Lift Applications Where Chain Hoist Will Not Reach
- In-Plant Operation Where Load is Being Supported by Hoist Hanging from I-Beam

FEATURES

- Worm gear reduction for positive load holding
- Dynamic braking for instant stopping
- Low headroom-12" single line, 19" double line
- Trolley built to beam size
- Hoist complete with cable hook and block for 20 ft lift
- Upper/lower adjustable limit switch

SPECIFICATIONS

Construction Features:

- Hoist mounted to 3/8" steel trolley with 4" I-beam wheels
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Stress-proof drum shaft
- Frictionless bearings

Trolley Size:

Trolley is built to fit the size of beam specified, from 4" to 15" structural I-beams.
We must have your I-beam size.

Example: 8" high x 4" wide



Gear System:

- 286:1
- Hardened steel worm and forged bronze worm gear holds load in position when stopped

Power:

- Universal 18,000 RPM reversible, 1.4 HP motor (no-load speed)

My-te can even custom design winch-hoists for your special needs. For application assistance, including the specification of a My-te winch-hoist to meet your requirements, contact Hanes Supply, Inc.

NOTE: All My-te winches and hoists are designed for material handling usage only.

- 15 ft power cord plugs into any 115 Volt, AC, grounded outlet
- 6 amp - No-load
- 19 amp - Full-load

Speeds:

- 59 RPM: No-load drum speed
- 30 FPM: No-load drum speed
- 25 FPM: 500 lbs - single-line lift
- 20 FPM: 1,000 lbs - single-line lift
- 10 FPM: 2,000 lbs - double-line lift

Note: All speeds are based on one layer of cable on drum.

Duty Cycle:

25% - 15 min/hr when operating at full load

Drum Storage:

Unit has adjustable upper and lower limit switch. Hoist is provided with 42 ft of 1/4" cable for 40-ft lift, single line, and 20-ft lift, double line. Sheave block and safety hook are included. Applications needing longer than 100 ft cable lengths require hoist without limit switch or with upper limit switch control only.

- 1/8" - 1,000 ft
- 1/4" - 250 ft
- 3/16" - 450 ft
- 5/16" - 150 ft

For best results, use the minimum amount of cable required for application plus four safety turns around the drum. Cable sold separately. Length and size must be specified at time of order.

Lifting Capacity:

- 1,000 lbs - 1-2 layers of cable (39 ft of 1/4" cable)
- 850 lbs - 3 layers of cable (65 ft of 1/4" cable)
- 600 lbs - full drum of cable (250 ft of 1/4" cable)

Cable Strength:

- 5-to-1 recommended safety factor
- Top-quality galvanized cable available in the following breaking strengths:



- 1/8" - 2,000 lbs
- 1/4" - 7,000 lbs
- 3/16" - 4,200 lbs
- 5/16" - 9,800 lbs

Dimensions: (W" x H" x L") 15" x 14" x 25"

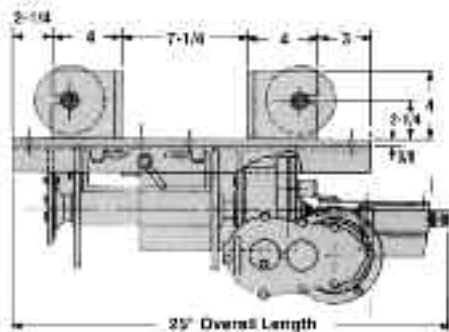
*Complete unit size varies depending on I-beam size.

Shipping Weight: 128 lbs

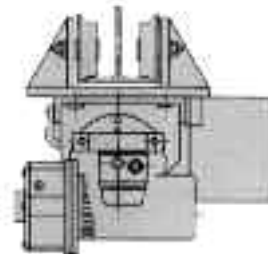
Factory Installed Options:

- 230 Volt
- 12 Volt DC - Model 80-12
- 3-Ton Hoist - Model HAC 36
- Lug Mount Trolley
- Motorized Trolley Hoist
- Upper Limit Switch Only

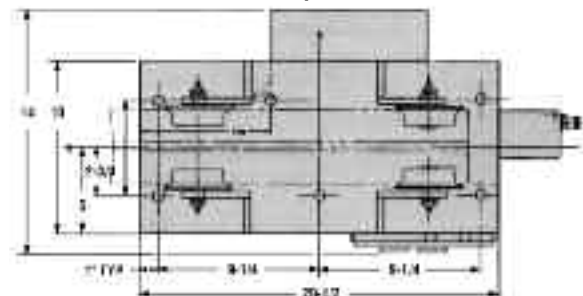
Front View



Side View



Top View (Frame Only)



Winches

Power Winches

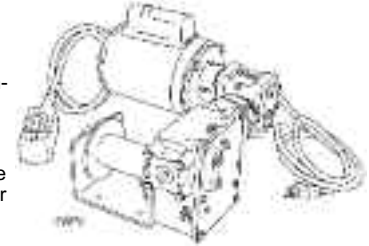
THERN POWER WINCHES

Series 4WP - Worm Gear Power Winches

Up to 2000 lb capacity

- Wire Rope Assemblies sold separately.
- Cast Aluminum construction, for lightweight strength.
- Corrosion Resistant durable paint finish protects against corrosion in harsh environments.
- Large Diameter Drums minimize wear to the wire rope and help extend its life.
- Machine Cut 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.

- 115 Volt Single Phase Electric Motor includes power cord with grounded plug and a momentary contact-type push button pendant control on a control cord.
- Internal Mechanical Brake provides positive load control for lifting and lowering operations.
- Ball Bearings and self-aligning bronze bearings provide smooth and efficient operation.
- Dual Function Cable Anchor for quick disconnect of wire rope with swagged ball fitting, or recessed cable anchor with set screw for wire rope with unfinished end.
- Mounting Options include floor, wall, or ceiling.



| Model No. | Motor Description | Motor hp | load rating (lb) | | | wire rope dia. (in) | line speed (fpm) ⁵ | | drum capacity (ft) ¹ | | | approx. ship wt. (lbs) |
|------------------------|------------------------------|----------|------------------|----------|-----------|---------------------|-------------------------------|-----------|---------------------------------|-----------|------------|------------------------|
| | | | 1st layer | mid drum | full drum | | 1st layer | full drum | 1st later | mid drum | full drum | |
| 4WP2 ² | 115/1/60 VAC - 6 ft pendant | 1.3 | 2000 | 1500 | 1200 | 1/4 | 8 | 13 | 11 | 35 | 77 | 83 |
| 4WP2T8 ⁸ | 115/1/60 VAC - 16 ft pendant | 1.3 | 2000 | 1200 | 800 | 1/4 5/16 | 8 8 | 19 19 | 19 15 | 130 85 | 280 190 | 100 |
| 4WP2T8-A ⁹ | 115/1/60 VAC - no controls | 1.3 | 2000 | 1200 | 800 | 1/4 5/16 | 8 8 | 19 19 | 19 15 | 130 85 | 280 190 | 100 |
| 4WP2T8-B ⁹ | 230/1/60 VAC - no controls | 1.3 | 2000 | 1200 | 800 | 1/4 5/16 | 8 8 | 19 19 | 19 15 | 130 85 | 280 190 | 100 |
| 4WP2T8-D ⁹ | 230/3/60 VAC - no controls | 1.3 | 2000 | 1200 | 800 | 1/4 5/16 | 8 8 | 19 19 | 19 15 | 130 85 | 280 190 | 100 |
| 4WP2T8-E ⁹ | 460/3/60 VAC - no controls | 1.3 | 2000 | 1200 | 800 | 1/4 5/16 | 8 8 | 19 19 | 19 15 | 130 85 | 280 190 | 100 |
| 4WP2T8-PN ⁶ | pneumatic - with controls | 1.3 | 2000 | 1200 | 800 | 1/4 5/16 | 8 8 | 19 19 | 19 15 | 130 85 | 280 190 | 100 |

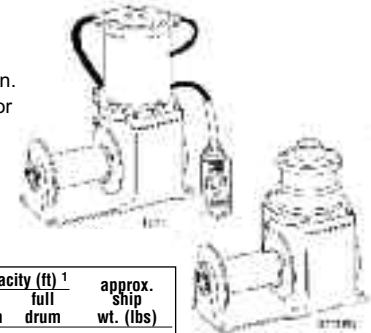
1 Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in wire rope will also affect drum capacity.
 2 Model 4WP2, 115 VAC motor includes 8 ft. power cord with grounded plug, and push button pendant control on 6 ft cord.
 5 For pneumatic model, line speed is based on rated load, actual line speed varies with load weight and power supply.
 6 For Model 4WP2T8-PN, ratings are for 80 cfm at 100 psi.
 8 Model 4WP2T8, 115 VAC motor includes 16 ft. power cord with grounded plug, and push button pendant control on 16 ft cord.
 9 Controls are sold separately for all non-standard electric motors (-A, -B, -D and -E).

Series 477 - Helical/Worm Gear Power Winches

Up to 2,000 lb. capacity

- Machine Cut Gears for accurate 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 for positive load control.
- Cast Aluminum construction for lightweight strength, with durable paint finish to resist corrosion.

- Ball Bearings ensure smooth and efficient operation.
- Series 4777 is designed with a 4 inch wide drum for tight fleet angle installations.
- Accessory Options include limit switches, cable pressure plates, torque limiting controls, and manual overrides.
- Wire Rope sold separately.



| Model No. | Motor Description | Motor hp | load rating (lb) | | | wire rope dia. (in) | line speed (fpm) | | drum capacity (ft) ¹ | | | approx. ship wt. (lbs) |
|------------------------|----------------------------------|----------|------------------|----------|-----------|---------------------|------------------|-----------|---------------------------------|----------|-----------|------------------------|
| | | | 1st layer | mid drum | full drum | | 1st layer | full drum | 1st later | mid drum | full drum | |
| 4771 ² | 115/1/60 VAC - 6 ft pendant | 1.2 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 93 |
| 4771AC-1PH | 115/1/60 VAC - less controls | 1.2 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 87 |
| 4771AC-1PH2 | 115/230/1/60 VAC - less controls | 1.5 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 115 |
| 4771AC-3PH | 230/460/3/60 VAC - less controls | 1.5 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 111 |
| 4771 DC ⁵ | 12 VDC - with 10 ft pendant | 1.0 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 105 |
| 4771 PN ^{5,6} | pneumatic - less controls | 1.2 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 74 |
| 4771 HY ^{5,6} | hydraulic - less controls | 2.3 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 13 | 40 | 90 | 72 |
| 4777 ² | 115/1/60 VAC - 6 ft pendant | 1.2 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 7 | 27 | 60 | 93 |
| 4777DC ⁵ | 12 VDC - with 10 ft pendant | 1.0 | 2,000 | 1,500 | 1,200 | 5/16 | 13 | 22 | 7 | 27 | 60 | 105 |

1 Actual drum capacities maybe 25-30% less, due to non-uniform winding. Tension in wire rope will also affect drum capacity.
 2 Motor includes an 8 ft. power cord with grounded plug, and a push button pendant control on 6 ft cord.
 5 For pneumatic, hydraulic, and DC models, line speed is based on rated load, actual line speed varies with load weight and power supply.
 6 For Model 4771 PN, ratings are for 80 cfm at 100 psi. For Model 4771 HY, ratings are for 4 gpm at 1000 psi.

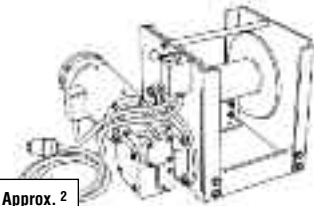
Power Winches

Series 4WS - Worm Gear Power Winches

Up to 6000 lb capacity

Modular design allows us to make-to-order each winch to meet your exact needs. Standard features include TEFC brakemotors, enclosed machine cut gearing,

flange style ball bearings, and 2-year limited warranty. Custom modifications are also available.
Please order controls separately.



| Model No. | Model No. Extensions | | | | Motor hp | Load Rating (lb) | | | Wire Rope Dia. (in) | Line Speed (rpm) | | Drum Capacity (ft) ¹ | | | Approx. Ship Wt. (lb) |
|--|----------------------|------------|-------------|---------------|----------|------------------|----------|-----------|---------------------|------------------|-----------|---------------------------------|----------|-----------|-----------------------|
| | Load Rating | Line Speed | Motor Codes | Clutch Option | | 1st Layer | Mid Drum | Full Drum | | 1st Layer | Full Drum | 1st Layer | Mid Drum | Full Drum | |
| 4WS1M6 | 600 | 20 | A,B,D,E,F | C | .5 | 600 | 420 | 320 | 3/16 | 21 | 40 | 21 | 110 | 260 | 130 |
| 4WS1M6 | 600 | 30 | A,B,D,E,F | C | .75 | 600 | 420 | 320 | 3/16 | 34 | 65 | 21 | 110 | 260 | 140 |
| 4WS1M6 | 800 | 15 | A,B,D,E,F | C | .5 | 800 | 550 | 420 | 3/16 | 14 | 27 | 21 | 110 | 260 | 135 |
| 4WS1M6 | 800 | 30 | A,B,D,E,F | C | 1.0 | 800 | 550 | 420 | 3/16 | 34 | 65 | 21 | 110 | 260 | 145 |
| 4WS1M6 | 1,000 | 15 | A,B,D,E,F | C | .75 | 1,200 | 800 | 600 | 1/4 | 15 | 27 | 16 | 62 | 140 | 145 |
| 4WS1M6 | 1,000 | 20 | A,B,D,E,F | C | 1.0 | 1,100 | 800 | 600 | 1/4 | 22 | 40 | 16 | 62 | 140 | 160 |
| 4WS1M6 | 1,000 | 30 | D,E,F | C | 1.5 | 1,100 | 800 | 600 | 1/4 | 35 | 64 | 16 | 62 | 140 | 170 |
| 4WS1M6 | 1,300 | 10 | A,B,D,E,F | C | .75 | 1,400 | 1,000 | 800 | 1/4 | 11 | 20 | 16 | 62 | 140 | 175 |
| 4WS1M6 | 1,300 | 30 | D,E,F | C | 1.5 | 1,300 | 900 | 700 | 1/4 | 29 | 53 | 16 | 62 | 140 | 185 |
| 4WS1M6 | 1,500 | 15 | A,B,D,E,F | C | 1.0 | 1,500 | 1,100 | 800 | 1/4 | 15 | 27 | 16 | 62 | 140 | 195 |
| 4WS1M6 | 1,500 | 30 | B,D,E,F | C | 2.0 | 1,500 | 1,100 | 800 | 1/4 | 35 | 64 | 16 | 62 | 140 | 210 |
| clutch option for 4WS1M6 (for pulling only) | | | | | | | | | | | | add: | | | 5 |
| 4WS3M10 | 2,000 | 9 | A,B,D,E,F | C | 1 | 2,100 | 1,300 | 1,000 | 5/16 | 9 | 19 | 34 | 220 | 500 | 270 |
| 4WS3M10 | 2,000 | 20 | B,D,E,F | C | 2 | 2,200 | 1,400 | 1,000 | 5/16 | 22 | 46 | 34 | 220 | 500 | 275 |
| 4WS3M10 | 2,000 | 30 | D,E,F | C | 3 | 2,100 | 1,400 | 1,000 | 5/16 | 36 | 77 | 34 | 220 | 500 | 280 |
| 4WS3M10 | 2,500 | 10 | D,E,F | C | 1.5 | 2,700 | 1,800 | 1,300 | 3/8 | 11 | 23 | 27 | 160 | 360 | 275 |
| 4WS3M10 | 2,500 | 20 | D,E,F | C | 2 | 2,500 | 1,600 | 1,200 | 3/8 | 18 | 38 | 27 | 160 | 360 | 280 |
| 4WS3M10 | 2,500 | 30 | D,E,F | C | 3 | 2,700 | 1,800 | 1,300 | 3/8 | 28 | 57 | 27 | 160 | 360 | 285 |
| 4WS3M10 | 3,000 | 7 | A,B,D,E,F | C | 1 | 3,000 | 2,000 | 1,500 | 3/8 | 7 | 15 | 27 | 160 | 360 | 285 |
| 4WS3M10 | 3,000 | 15 | B,D,E,F | C | 2 | 3,000 | 2,000 | 1,500 | 3/8 | 14 | 29 | 27 | 160 | 360 | 295 |
| 4WS3M10 | 3,000 | 20 | D,E,F | C | 3 | 3,300 | 2,100 | 1,600 | 3/8 | 22 | 46 | 27 | 160 | 360 | 305 |
| 4WS3M10 | 3,500 | 10 | B,D,E,F | C | 2 | 3,500 | 2,300 | 1,700 | 7/16 | 11 | 23 | 23 | 120 | 270 | 310 |
| 4WS3M10 | 3,500 | 20 | D,E,F | C | 3 | 3,700 | 2,500 | 1,800 | 7/16 | 19 | 38 | 23 | 120 | 270 | 325 |
| clutch option for 4WS3M10 (for pulling only) | | | | | | | | | | | | add: | | | 8 |
| 4WS6M12 | 3,000 | 8 | A,B,D,E,F | C | 1 | 3,100 | 2,000 | 1,500 | 3/8 | 8 | 16 | 40 | 300 | 660 | 550 |
| 4WS6M12 | 3,000 | 15 | B,D,E,F | C | 2 | 3,000 | 1,900 | 1,400 | 3/8 | 15 | 32 | 40 | 300 | 660 | 575 |
| 4WS6M12 | 3,000 | 20 | D,E,F | C | 3 | 3,200 | 2,000 | 1,500 | 3/8 | 24 | 51 | 40 | 300 | 660 | 580 |
| 4WS6M12 | 4,000 | 5 | A,B,D,E,F | C | 1 | 4,500 | 2,900 | 2,100 | 7/16 | 5 | 10 | 34 | 220 | 500 | 575 |
| 4WS6M12 | 4,000 | 10 | B,D,E,F | C | 2 | 4,100 | 2,600 | 1,900 | 7/16 | 10 | 21 | 34 | 220 | 500 | 590 |
| 4WS6M12 | 4,000 | 15 | D,E,F | C | 3 | 4,500 | 2,900 | 2,100 | 7/16 | 15 | 31 | 34 | 220 | 500 | 595 |
| 4WS6M12 | 4,000 | 30 | D,E,F | C | 5 | 4,200 | 2,700 | 2,000 | 7/16 | 30 | 64 | 34 | 220 | 500 | 605 |
| 4WS6M12 | 5,000 | 4 | A,B,D,E,F | C | 1 | 5,200 | 3,400 | 2,500 | 1/2 | 4 | 8 | 30 | 170 | 390 | 590 |
| 4WS6M12 | 5,000 | 10 | D,E,F | C | 3 | 5,400 | 3,500 | 2,600 | 1/2 | 12 | 25 | 30 | 170 | 390 | 610 |
| 4WS6M12 | 5,000 | 20 | D,E,F | C | 5 | 5,100 | 3,300 | 2,500 | 1/2 | 24 | 51 | 30 | 170 | 390 | 625 |
| 4WS6M12 | 5,000 | 40 | D,E,F | C | 7.5 | 5,200 | 3,400 | 2,500 | 1/2 | 39 | 81 | 30 | 170 | 390 | 640 |
| 4WS6M12 | 6,000 | 10 | D,E,F | C | 3 | 6,000 | 4,000 | 3,000 | 9/16 | 10 | 21 | 26 | 140 | 310 | 630 |
| 4WS6M12 | 6,000 | 20 | D,E,F | C | 5 | 6,000 | 3,900 | 2,900 | 9/16 | 20 | 42 | 26 | 140 | 310 | 650 |
| 4WS6M12 | 6,000 | 30 | D,E,F | C | 7.5 | 6,200 | 4,100 | 3,000 | 9/16 | 31 | 63 | 26 | 140 | 310 | 665 |
| clutch option for 4WS6M12 (for pulling only) | | | | | | | | | | | | add: | | | 12 |

| Motor Codes | | |
|-------------|---|---------|
| A | 115 volt | 1 phase |
| B | 230 volt | 1 phase |
| D | 230 volt | 3 phase |
| E | 460 volt | 3 phase |
| F | Please call for information on all other voltages | |

- Actual drum capacities 25-30% less, due to non-uniform winding. Wire rope tension will also affect drum capacity.
- Weight may vary with motor

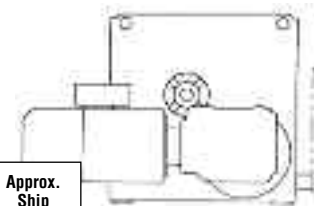
Call for Winch Specifications & Catalog Cuts Up to 36,000 lb. Capacity!

Series 4HS - Helical/Spur Gear Power Winches

Up to 26,000 lb capacity

Modular design allows us to make-to-order each winch to meet your exact needs. TEFC severe duty brakemotors, enclosed gearing, flange style roller bearings,

and 2-year limited warranty. Custom modifications are also available.
Please order wire rope and controls separately.



| Model No. | Model No. Extensions | | | | Motor hp | Load Rating (lb) | | | Wire Rope Dia. (in) | Line Speed (rpm) | | Drum Capacity (ft) ¹ | | | Approx. Ship Wt. (lb) |
|-----------|----------------------|------------|-------------|---------------|----------|------------------|----------|-----------|---------------------|------------------|-----------|---------------------------------|----------|-----------|-----------------------|
| | Load Rating | Line Speed | Motor Codes | Clutch Option | | 1st Layer | Mid Drum | Full Drum | | 1st Layer | Full Drum | 1st Layer | Mid Drum | Full Drum | |
| 4HS6M | 5000 | 15 | D, E, F | C | 2 | 5100 | 3800 | 3100 | 1/2 | 13 | 22 | 60 | 220 | 500 | 568 |
| 4HS6M | 5000 | 20 | D, E, F | C | 3 | 5100 | 3800 | 3100 | 1/2 | 20 | 33 | 60 | 220 | 500 | 588 |
| 4HS6M | 5000 | 30 | D, E, F | C | 5 | 5100 | 3800 | 3100 | 1/2 | 33 | 55 | 60 | 220 | 500 | 588 |
| 4HS6M | 6600 | 15 | D, E, F | C | 3 | 6600 | 5000 | 4000 | 1/2 | 15 | 25 | 60 | 220 | 500 | 588 |
| 4HS6M | 6600 | 25 | D, E, F | C | 5 | 6600 | 4900 | 4000 | 1/2 | 25 | 41 | 60 | 220 | 500 | 588 |
| 4HS6M | 6600 | 40 | D, E, F | C | 7.5 | 6600 | 5000 | 4000 | 1/2 | 39 | 64 | 60 | 220 | 500 | 645 |
| 4HS11M | 9000 | 20 | D, E, F | C | 5 | 9000 | 6200 | 4700 | 5/8 | 19 | 35 | 59 | 340 | 760 | 1074 |
| 4HS11M | 9000 | 30 | D, E, F | C | 7.5 | 9000 | 6200 | 4700 | 5/8 | 27 | 51 | 59 | 340 | 760 | 1120 |
| 4HS11M | 9000 | 40 | D, E, F | C | 10 | 9000 | 6200 | 4700 | 5/8 | 37 | 70 | 59 | 340 | 760 | 1160 |
| 4HS11M | 11000 | 15 | D, E, F | C | 5 | 11,000 | 7600 | 5800 | 5/8 | 15 | 28 | 59 | 340 | 760 | 1074 |
| 4HS11M | 11000 | 20 | D, E, F | C | 7.5 | 11,000 | 7600 | 5800 | 5/8 | 21 | 40 | 59 | 340 | 760 | 1120 |
| 4HS11M | 11000 | 30 | D, E, F | C | 10 | 11,000 | 7600 | 5800 | 5/8 | 27 | 51 | 59 | 340 | 760 | 1160 |
| 4HS16M | 13000 | 20 | D, E, F | C | 7.5 | 13,000 | 8900 | 6700 | 3/4 | 19 | 37 | 65 | 400 | 880 | 1573 |
| 4HS16M | 13000 | 25 | D, E, F | C | 10 | 13,000 | 8900 | 6700 | 3/4 | 24 | 46 | 65 | 400 | 880 | 1633 |
| 4HS16M | 13000 | 40 | D, E, F | C | 15 | 13,000 | 8900 | 6700 | 3/4 | 37 | 72 | 65 | 400 | 880 | 1674 |
| 4HS16M | 16000 | 10 | D, E, F | C | 5 | 16,100 | 11,000 | 8300 | 3/4 | 11 | 21 | 65 | 400 | 880 | 1516 |
| 4HS16M | 16000 | 15 | D, E, F | C | 7.5 | 16,000 | 10,900 | 8300 | 3/4 | 16 | 30 | 65 | 400 | 880 | 1573 |
| 4HS16M | 16000 | 20 | D, E, F | C | 10 | 16,100 | 11,000 | 8300 | 3/4 | 20 | 38 | 65 | 400 | 880 | 1633 |
| 4HS26M | 22000 | 15 | D, E, F | C | 10 | 22,000 | 16,200 | 12,800 | 1 | 16 | 27 | 82 | 370 | 830 | 3122 |
| 4HS26M | 22000 | 25 | D, E, F | C | 15 | 22,000 | 16,100 | 12,700 | 1 | 23 | 40 | 82 | 370 | 830 | 3164 |
| 4HS26M | 22000 | 30 | D, E, F | C | 20 | 22,900 | 16,800 | 13,200 | 1 | 29 | 50 | 82 | 370 | 830 | 3343 |
| 4HS26M | 26000 | 15 | D, E, F | C | 10 | 26,000 | 19,000 | 15,000 | 1 | 13 | 23 | 82 | 370 | 830 | 3122 |
| 4HS26M | 26000 | 20 | D, E, F | C | 15 | 26,000 | 19,000 | 15,100 | 1 | 19 | 33 | 82 | 370 | 830 | 3164 |
| 4HS26M | 26000 | 25 | D, E, F | C | 20 | 26,000 | 19,100 | 15,000 | 1 | 26 | 45 | 82 | 370 | 830 | 3343 |

| Motor Codes | | |
|-------------|---|---------|
| D | 230 volt | 3 phase |
| E | 460 volt | 3 phase |
| F | Please call for information on all other voltages | |

- Actual drum capacities 25-30% less, due to non-uniform winding. Wire rope tension will also affect drum capacity.

Winches

Power Winches

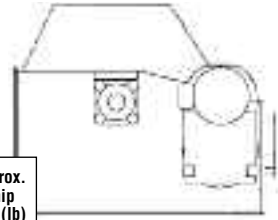
Series 4HS - Helical/Spur Gear Power Winches

Up to 56,000 lb capacity

Modular design allows us to make-to-order each winch to meet your exact needs. TEFC severe duty brake-motors, enclosed gearing, flange style roller bearings,

and 2-year limited warranty. Custom modifications are also available.

Please order wire rope and controls separately.



| Model No. | Model No. Extensions | | | | Motor hp | Load Rating (lb) | | | Wire Rope Dia. (in) | Line Speed (fpm) | | Drum Capacity (ft) ¹ | | | Approx. Ship Wt. (lb) |
|-----------|----------------------|------------|-------------|---------------|----------|------------------|----------|-----------|---------------------|------------------|-----------|---------------------------------|----------|-----------|-----------------------|
| | Load Rating | Line Speed | Motor Codes | Clutch Option | | 1st Layer | Mid Drum | Full Drum | | 1st Layer | Full Drum | 1st Layer | Mid Drum | Full Drum | |
| 4HS40M | 33000 | 20 | D, E, F | C | 20 | 33,100 | 24,100 | 18,900 | 1-1/4 | 19 | 34 | 95 | 460 | 1030 | 5568 |
| 4HS40M | 33000 | 30 | D, E, F | C | 30 | 33,000 | 24,100 | 18,900 | 1-1/4 | 29 | 51 | 95 | 460 | 1030 | 5652 |
| 4HS40M | 33000 | 40 | D, E, F | C | 40 | 33,100 | 24,100 | 18,900 | 1-1/4 | 39 | 68 | 95 | 460 | 1030 | 5799 |
| 4HS40M | 40000 | 20 | D, E, F | C | 20 | 40,300 | 29,300 | 23,000 | 1-1/4 | 17 | 29 | 95 | 460 | 1030 | 5568 |
| 4HS40M | 40000 | 25 | D, E, F | C | 30 | 40,300 | 29,400 | 23,100 | 1-1/4 | 23 | 41 | 95 | 460 | 1030 | 5652 |
| 4HS40M | 40000 | 35 | D, E, F | C | 40 | 40,000 | 29,400 | 22,900 | 1-1/4 | 34 | 59 | 95 | 460 | 1030 | 5799 |
| 4HS56M | 48000 | 20 | D, E, F | C | 30 | 48,000 | 36,600 | 29,600 | 1-1/2 | 21 | 34 | 130 | 550 | 1230 | 9217 |
| 4HS56M | 48000 | 30 | D, E, F | C | 40 | 48,000 | 36,600 | 29,600 | 1-1/2 | 28 | 45 | 130 | 550 | 1230 | 9364 |
| 4HS56M | 52000 | 35 | D, E, F | C | 50 | 52,200 | 39,800 | 32,100 | 1-1/2 | 33 | 53 | 130 | 550 | 1230 | 9479 |
| 4HS56M | 56000 | 20 | D, E, F | C | 30 | 56,000 | 42,700 | 34,500 | 1-1/2 | 18 | 30 | 130 | 550 | 1230 | 9217 |
| 4HS56M | 56000 | 25 | D, E, F | C | 40 | 56,000 | 42,700 | 34,500 | 1-1/2 | 24 | 39 | 130 | 550 | 1230 | 9364 |
| 4HS56M | 56000 | 50 | D, E, F | C | 50 | 56,200 | 42,900 | 34,600 | 1-1/2 | 30 | 48 | 130 | 550 | 1230 | 9479 |

Motor Codes
D 230 volt 3 phase
E 460 volt 3 phase
F Please call for information on all other voltages

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

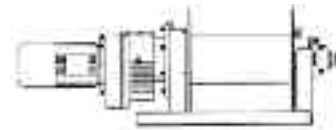
Series 4HPF - Helical/Parallel Gear Power Winches

Up to 26,000 lb capacity

Helical/parallel gearing provides efficiency required for applications involving quick line speeds or long travel distances. Standard features include TEFC severe duty brakemotors, enclosed gearing, flange style or

roller bearings, and 2-year limited warranty. Custom modifications are also available.

Please order wire rope and controls separately.



| Model No. | Model No. Extensions | | | Motor hp | Load Rating (lb) | | | Wire Rope Dia. (in) | Line Speed (fpm) | | Drum Capacity (ft) ¹ | | | Approx. Ship Wt. (lb) |
|-----------|----------------------|------------|-------------|----------|------------------|----------|-----------|---------------------|------------------|-----------|---------------------------------|----------|-----------|-----------------------|
| | Load Rating | Line Speed | Motor Codes | | 1st Layer | Mid Drum | Full Drum | | 1st Layer | Full Drum | 1st Layer | Mid Drum | Full Drum | |
| 4HPF2M | 2000 | 20 | D, E, F | 1 | 2100 | 1300 | 1000 | 5/16 | 17 | 38 | 34 | 250 | 560 | 170 |
| 4HPF2M | 2000 | 35 | D, E, F | 2 | 2100 | 1300 | 1000 | 5/16 | 34 | 76 | 34 | 250 | 560 | 200 |
| 4HPF3M | 3000 | 20 | D, E, F | 1.5 | 3000 | 2100 | 1600 | 3/8 | 19 | 33 | 33 | 160 | 360 | 250 |
| 4HPF3M | 3000 | 35 | D, E, F | 3 | 3300 | 2300 | 1800 | 3/8 | 33 | 59 | 33 | 160 | 360 | 260 |
| 4HPF5M | 5000 | 20 | D, E, F | 3 | 5000 | 3100 | 2300 | 1/2 | 22 | 49 | 52 | 400 | 890 | 495 |
| 4HPF5M | 5000 | 35 | D, E, F | 5 | 5000 | 3100 | 2300 | 1/2 | 37 | 81 | 52 | 400 | 890 | 495 |
| 4HPF7M | 7000 | 25 | D, E, F | 5 | 7300 | 5400 | 4300 | 5/8 | 24 | 40 | 51 | 230 | 510 | 645 |
| 4HPF7M | 7000 | 40 | D, E, F | 7.5 | 7300 | 5400 | 4300 | 5/8 | 38 | 64 | 51 | 230 | 510 | 760 |
| 4HPF9M | 9000 | 20 | D, E, F | 5 | 9000 | 6500 | 5100 | 3/4 | 21 | 37 | 65 | 310 | 700 | 1000 |
| 4HPF9M | 9000 | 40 | D, E, F | 10 | 9000 | 6500 | 5100 | 3/4 | 41 | 73 | 65 | 310 | 700 | 1115 |
| 4HPF15M | 15000 | 25 | D, E, F | 10 | 14,300 | 10,900 | 8800 | 7/8 | 26 | 41 | 57 | 210 | 480 | 1340 |
| 4HPF15M | 15000 | 35 | D, E, F | 15 | 15,100 | 11,500 | 9300 | 7/8 | 36 | 59 | 57 | 210 | 480 | 1370 |
| 4HPF20M | 20000 | 20 | D, E, F | 10 | 20,100 | 14,100 | 10,800 | 1 | 17 | 31 | 97 | 520 | 1160 | 2395 |
| 4HPF20M | 20000 | 40 | D, E, F | 25 | 20,100 | 14,000 | 10,800 | 1 | 43 | 81 | 97 | 520 | 1160 | 2620 |
| 4HPF25M | 25000 | 20 | D, E, F | 15 | 25,200 | 19,200 | 15,500 | 1-1/8 | 20 | 32 | 96 | 380 | 840 | 3185 |
| 4HPF25M | 25000 | 40 | D, E, F | 30 | 25,000 | 19,000 | 15,400 | 1-1/8 | 42 | 68 | 96 | 380 | 840 | 3440 |

Motor Codes
D 230 volt 3 phase
E 460 volt 3 phase
F Please call for information on all other voltages

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

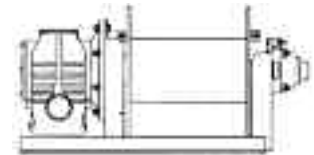
Series 4HWF - Helical/Worm Gear Power Winches

Up to 8,100 lb capacity

Helical/worm gearing provides rugged reliability suitable for severe duty applications. Standard features include TEFC severe duty brakemotors, enclosed

gearing, flange style roller bearings, and 2-year limited warranty. Custom modifications are also available.

Please order wire rope and controls separately.



| Model No. | Model No. Extensions | | | Motor hp | Load Rating (lb) | | | Wire Rope Dia. (in) | Line Speed (fpm) | | Drum Capacity (ft) ¹ | | | Approx. Ship Wt. (lb) |
|-----------|----------------------|------------|-------------|----------|------------------|----------|-----------|---------------------|------------------|-----------|---------------------------------|----------|-----------|-----------------------|
| | Load Rating | Line Speed | Motor Codes | | 1st Layer | Mid Drum | Full Drum | | 1st Layer | Full Drum | 1st Layer | Mid Drum | Full Drum | |
| 4HWF1M | 1500 | 25 | D, E, F | 1.5 | 1500 | 900 | 700 | 1/4 | 23 | 52 | 43 | 370 | 830 | 190 |
| 4HWF1M | 1500 | 35 | D, E, F | 2 | 1500 | 900 | 700 | 1/4 | 32 | 73 | 43 | 370 | 830 | 190 |
| 4HWF2M | 2000 | 25 | D, E, F | 2 | 2200 | 1500 | 1200 | 5/16 | 22 | 40 | 41 | 230 | 500 | 235 |
| 4HWF2M | 2000 | 35 | D, E, F | 3 | 2200 | 1500 | 1200 | 5/16 | 34 | 63 | 41 | 230 | 500 | 255 |
| 4HWF4M | 4000 | 25 | D, E, F | 3 | 4000 | 2500 | 1800 | 7/16 | 21 | 47 | 60 | 510 | 1140 | 480 |
| 4HWF4M | 4000 | 35 | D, E, F | 5 | 4000 | 2500 | 1800 | 7/16 | 35 | 78 | 60 | 510 | 1140 | 480 |
| 4HWF6M | 6000 | 25 | D, E, F | 5 | 6000 | 4400 | 3400 | 1/2 | 24 | 42 | 66 | 350 | 770 | 650 |
| 4HWF6M | 6000 | 35 | D, E, F | 7.5 | 6000 | 4400 | 3400 | 1/2 | 35 | 61 | 66 | 350 | 770 | 705 |
| 4HWF8M | 8000 | 25 | D, E, F | 7.5 | 8100 | 5800 | 4500 | 5/8 | 27 | 47 | 78 | 440 | 990 | 1120 |
| 4HWF8M | 8000 | 35 | D, E, F | 10 | 8100 | 5800 | 4500 | 5/8 | 39 | 64 | 78 | 440 | 990 | 1180 |

Motor Codes
D 230 volt 3 phase
E 460 volt 3 phase
F Please call for information on all other voltages

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

Power Winches

Heavy Duty Lifting Winch - Single Phase



| Model No. | WLL (1st Layer) | | WLL (4th Layer) | | Line Speed (1st Layer) | | Line Speed (4th Layer) | | Rope Dia. | | Rope Capacity (4 Layers) | | Motor Power (@ Rated Line Speed) | | Wt. | |
|-----------|-----------------|-------|-----------------|-----|------------------------|-------|------------------------|-------|-----------|----|--------------------------|----|----------------------------------|-----|-----|-----|
| | lb | kg | lb | kg | fpm | m/min | fpm | m/min | in | mm | ft | m | Hp | kw | lb | kg |
| LS 400 | 400 | 181 | 311 | 141 | 16 | 5 | 21 | 6 | 1/8 | 3 | 125 | 38 | 0.33 | 0.2 | 130 | 59 |
| LS 800 | 800 | 363 | 613 | 278 | 16 | 5 | 21 | 6 | 3/16 | 5 | 200 | 61 | 0.75 | 0.6 | 212 | 96 |
| LS 1400 | 1,400 | 635 | 1,064 | 483 | 16 | 5 | 21 | 6 | 1/4 | 6 | 250 | 76 | 1.00 | 0.7 | 322 | 146 |
| LS 2000 | 2,000 | 907 | 1,519 | 689 | 15 | 5 | 20 | 6 | 5/16 | 8 | 300 | 91 | 1.50 | 1.1 | 420 | 190 |
| LS 2400 | 2,400 | 1,088 | 1,811 | 821 | 16 | 5 | 21 | 6 | 3/8 | 10 | 300 | 91 | 2.00 | 1.5 | 548 | 249 |

Plug and Go - Jeamar's new Heavy Duty Single Phase Lifting Winch is supplied complete with controls and wire rope. It's compact and portable. Just bolt it down, plug it in and start winching.

Motors - The motors used in this series of winches are low horsepower and high efficiency. They are ideal in situations with limited power supplies. All motors in this series of lifting winches are single phase 115/230/1/60 at 50 or 60 Hz and conform to NEMA and EEMAC standards.

Controls - Weatherproof controls are pre-wired and fitted to the winch for instant use. Included are a reversing starter, a 10-foot lead with a pendant, push-button station and three feet of lead ready to plug in to a power supply. Controls conform to NEMA and EEMAC 4.

Winch Drums - Drums are steel fabricated and designed to specific loading capacity. All Jeamar drums are sized according to ASME B30.7.89 to provide a minimum pitch diameter of 18 times the nominal rope diameter

Direct Drive - A simple, direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears to maximize power output.

Any Position - An open-base design permits mounting in horizontal or vertical positions. Loads can be pulled through the base itself, a feature which is particularly useful in limited-space applications.

Ball & Roller Bearings Throughout - Friction load loss is reduced to a minimum through the use of ball and roller bearings. No bushings means higher efficiency and more power for pulling.

Power In - Power Out - For added safety, all winches are fully reversible, giving the operator complete control of the winch load in both directions at all times.

Gear Reducers - All Jeamar lifting winches have high-efficiency helical/worm reducers plus high-capacity, anti-friction bearings for long life, low noise and high output torque. Totally enclosed reducers make them waterproof.

Electromagnetic Brake - The automatic electromagnetic brake is a disc type that is powered to the off position and spring loaded to the on position. In the event of a power failure, the brake will automatically return to the on position and hold the load securely.

Heavy Duty Lifting Winch - Three Phase



| Model No. | WLL (1st Layer) | | WLL (4th Layer) | | Line Speed (1st Layer) | | Line Speed (4th Layer) | | Rope Dia. | | Rope Capacity (4th Layer) | | Motor | | Wt. | |
|-----------|-----------------|-------|-----------------|-------|------------------------|-------|------------------------|-------|-----------|----|---------------------------|-----|-------|------|-------|-------|
| | lb | kg | lb | kg | ft/min | m/min | fpm | m/min | in | mm | ft | m | Hp | kw | lb | kg |
| L 400 | 400 | 182 | 311 | 141 | 23 | 7.0 | 29 | 8.8 | 1/8 | 3 | 125 | 38 | 1/2 | .370 | 75 | 34 |
| L 800 | 800 | 363 | 616 | 279 | 30 | 9.1 | 40 | 12.2 | 3/16 | 5 | 200 | 61 | 1 | .75 | 135 | 62 |
| L 1400 | 1,400 | 635 | 1,060 | 480 | 25 | 7.6 | 33 | 10.0 | 1/4 | 6 | 250 | 76 | 1-1/2 | 1.1 | 195 | 89 |
| L 2000 | 2,000 | 909 | 1,500 | 682 | 20 | 6.1 | 26 | 7.9 | 5/16 | 8 | 300 | 92 | 2 | 1.5 | 263 | 120 |
| L 3000 | 3,000 | 1,364 | 2,250 | 1,023 | 24 | 7.3 | 32 | 9.8 | 3/8 | 10 | 300 | 92 | 3 | 2.2 | 440 | 200 |
| L 5000 | 5,000 | 2,266 | 3,750 | 1,704 | 28 | 8.5 | 37 | 11.3 | 1/2 | 13 | 300 | 92 | 5 | 3.7 | 774 | 351 |
| L 8000 | 8,000 | 3,625 | 6,000 | 2,727 | 24 | 7.3 | 32 | 9.8 | 5/8 | 16 | 300 | 92 | 7-1/2 | 5.5 | 1,390 | 630 |
| L 12000 | 12,000 | 5,437 | 9,000 | 4,090 | 21 | 6.4 | 28 | 8.5 | 3/4 | 19 | 360 | 110 | 10 | 7.5 | 2,060 | 936 |
| L 16000 | 16,000 | 7,256 | 12,000 | 5,755 | 21 | 6.4 | 28 | 8.5 | 7/8 | 22 | 360 | 110 | 15 | 11.2 | 3,060 | 1,390 |

Winch Drums - Drums are steel fabricated and designed to specific loading capacity. Drums are sized according to ASME B30.7.89 to provide a minimum pitch diameter of 18 times the nominal rope diameter.

Direct Drive - A simple, direct-drive design increases the efficiency of the winch and eliminates drive chains or bull gears, to maximize power output.

Any Position - An open-base design permits mounting in horizontal or vertical positions. Loads can be pulled through the base itself, which is particularly useful in limited space installations.

Ball & Roller Bearings Throughout - Friction load loss is reduced to a minimum through the use of ball and roller bearings. No bushings means higher efficiency and more power for pulling.

Power In-Power Out - For added safety, all winches are fully reversible. This gives the operator complete control of the winch load in both directions at all times.

Electric Motors - All models are equipped with high-starting-torque, 3-phase motors in any standard voltage, 50 or 60 Hz. All motors are TEFC flange mounted and conform to NEMA EEMAC or IEC specifications.

Gear Reducers - All Jeamar lifting winches utilize high-efficiency helical worm or worm reducers plus high capacity, anti-friction bearings for long life, low noise and high output torque. Totally enclosed reducers make them weatherproof.

Electromagnetic Brake - The automatic electromagnetic brake is a disc type that is activated automatically in the event of a power interruption. The brake will stop the winch and hold the load securely.

Heavy Duty Capstan Winches



| Model No. | WLL Starting | | WLL Running | | Rope Speed | | Rope Dia. | | Motor | | Wt. | |
|-------------|--------------|-------|-------------|-------|------------|-------|-----------|----|-------|-----|-------|-------|
| | lb | kg | lb | kg | ft/min | m-min | in | mm | Hp | kw | lb | kg |
| VC 2000-26 | 2,000 | 907 | 1,000 | 453 | 26 | 7.92 | 5/8 | 16 | 1.5 | 1.1 | 202 | 92 |
| VC 5000-30 | 5,000 | 2,268 | 2,500 | 1,134 | 30 | 9.14 | 1-1/8 | 29 | 3 | 2.2 | 480 | 218 |
| VC 5000-45 | 5,000 | 2,268 | 2,500 | 1,134 | 45 | 13.72 | 1-1/8 | 29 | 5 | 3.7 | 450 | 204 |
| VC 8000-13 | 8,000 | 3,628 | 4,000 | 1,814 | 13 | 3.96 | 1-1/2 | 38 | 3 | 2.2 | 530 | 240 |
| VC 8000-30 | 8,000 | 3,628 | 4,000 | 1,814 | 30 | 9.14 | 1-1/2 | 38 | 5 | 3.7 | 600 | 272 |
| VC 12000-17 | 12,000 | 5,442 | 6,000 | 2,721 | 17 | 5.18 | 1-3/4 | 44 | 5 | 3.7 | 700 | 318 |
| VC 15000-13 | 15,000 | 6,804 | 7,500 | 3,402 | 13 | 3.96 | 2 | 51 | 5 | 3.7 | 820 | 372 |
| VC 20000-17 | 20,000 | 9,091 | 10,000 | 4,545 | 17 | 5.18 | 2-1/2 | 64 | 7.5 | 5.6 | 2,277 | 1,033 |

Capstan winches are used primarily to pull railcars on a level track and to pull ships to dockside. In these applications, the working load limit "starting" is the intermittent rating for overcoming inertia and should not be used on a continuous basis. The working load limit "running" is the rating used once the load is moving at a constant speed.

Direct Drive - A direct-drive design increases the efficiency of the capstan puller and eliminates drive chains or bull gears to maximize power output.

Any Angle - Rope can come off the capstan at any angle, enabling the operator to stand in the most appropriate location.

Gear Reducers - All Jeamar winches utilize high efficiency worm, helical, helical-worm or helical-bevel reducers plus high-capacity, anti-friction bearings designed for long life, low noise and higher output torque.

High Starting Loads - High-starting-torque, 3-phase

motors are available in all standard voltages at 50 and 60 Hz. These motors are suited to railcar pulling where momentary overloads occur when a railcar is started in motion. Single phase motors at 115/230 volts at 50 or 60 Hz are available as an option in some cases.

Winches

Power Winches

Heavy Duty Electric Winches - Jeamar

Jeamar Winches are precision engineered to International standards. An extensive range of models and sizes are available including:

- Lifting winches • Hauling winches • Capstan winches

Numerous options are available relative to the model of the winch:

- Grooved drums • Controls
- Free spooling • Limit switches
- Explosion proof motors
- Electrics can be supplied at any standard voltage at 50 or 60 hertz.

VC Series (Capstan)



NLT Series (Lifting)



NHT Series (Hauling)

NHT Series (Hauling)

| Model No. | WLL (1st Layer) (lb) | Line Speed (1st Layer) (ft/min) | Rope Dia. (in) | Rope Cap. (4th Layer) (ft) | Motor (Hp) | Wt. (lb) |
|-----------|----------------------|---------------------------------|----------------|----------------------------|------------|----------|
| NHT 550 | 550 | 27 | 1/8 | 113 | 1/2 | 94 |
| NHT1100 | 1100 | 28 | 3/16 | 117 | 1 | 146 |
| NHT1900 | 1900 | 31 | 1/4 | 226 | 2 | 229 |

NLT Series (Lifting)

| Model No. | WLL (1st Layer) (lb) | Line Speed (1st Layer) (ft/min) | Rope Dia. (in) | Rope Cap. (4th Layer) (ft) | Motor (Hp) | Wt. (lb) |
|-----------|----------------------|---------------------------------|----------------|----------------------------|------------|----------|
| NLT 400 | 400 | 22 | 1/8 | 175 | 1/2 | 130 |
| NLT 800 | 800 | 22 | 3/16 | 220 | 1 | 212 |
| NLT 1400 | 1400 | 24 | 1/4 | 250 | 2 | 322 |

VC Series (Capstan)

| Model No. | WLL Starting (lb) | WLL Running (lb) | Rope Speed (ft/min) | Rope Dia. (Polypropylene) (in) | Motor (Hp) | Wt. (lb) |
|-----------|-------------------|------------------|---------------------|--------------------------------|------------|----------|
| VC2000-26 | 2000 | 1000 | 26 | 5/8 | 1.5 | 202 |
| VC5000-30 | 5000 | 2500 | 30 | 1-1/8 | 3 | 330 |
| VC5000-45 | 5000 | 2500 | 45 | 1-1/8 | 5 | 355 |

Larger size winches available on request

Electric Winches - Jet

EW-10

- Powerful, compact winch
- Power-in and power-out
- Locks and holds in any position
- 6' remote push button control
- Pulley block for double line operation doubles pulling capacity and cuts line speed in half
- Permanently lubricated gearbox requires no lubrication
- Dynamic brake stops and holds the load when switch is off



EW-10

EW-20A

- Most economical winch available
- Designed for mounting in almost any position
- Unit comes complete with 24 ft power harness that connects to the winch switch
- Local switch can be operated with remote lanyard
- Switch rotates in either direction for power forward and power reverse
- Self-locking gearbox
- Winch will lock and hold load in off position
- Switch is spring-loaded to return to the neutral off position
- Dynamic brake stops and holds the load when switch is off



EW-20A

EW-30A

EW-30A

- Mounted switch can be operated with remote lanyard
- Power-in and power-out
- Cable tension plate keeps cable tight on drum
- Fairlead included with the winch
- Emergency hand crank and hand saver bar
- 24 ft power harness and switch
- Pulley block for double-line operation doubles pulling capacity and cuts line speed in half
- Dynamic brake stops and holds the load when switch is off
- Self-locking gearbox
- Circuit breaker assembly protects winch and battery from overload



EW-60A

- Motor and solenoids protected from dust, dirt and weather with heavy-duty case
- Cable tension plate keeps cable tight a drum
- Fairlead included with the winch
- Emergency hand crank and hand saver bar
- Hand-held forward/reverse switch on 10' cord permits remote operation
- 25 ft power harness included
- Pulley block for double-line operation doubles pulling capacity and cuts line speed in half
- Dynamic brake stops and holds the load when switch is off
- Self-locking gearbox
- Circuit breaker assembly protects winch and battery from overload



EW-60A

Guide for Selecting Winches for Boat Trailers

| Boat Length | Wt (lbs) | Sugg. Model |
|-----------------------------------|-------------|-------------|
| All outboards up to 17' | up to 2,500 | EW-20A |
| All outboards and I/O's up to 22' | up to 6,000 | EW-30A |
| I/O's over 22' | up to 9,000 | EW-60A |

| Model: | EW-10 | EW-20A | EW-30A | EW-60A |
|-------------------------------|--------------------|------------------------|--------------------|------------------------|
| Stock No: | 182080 | 182010 | 182085 | 182077 |
| *Vertical Lift Capacity (lbs) | | | | |
| Single Line: | 1,000 | 1,000 | 2,500 | 3,500 |
| Double Line: | 2,000 | 2,000 | 5,000 | 7,000 |
| Boat or Vehicle Cap'y (lbs): | - | 2,500 | 6,000 | 9,000 |
| Rolling Load (lbs) | | | | |
| Max Wt @ 20% Grade**: | - | 3,400 | 8,500 | 11,900 |
| Max Wt @ 30% Grade**: | - | 2,600 | 6,500 | 9,150 |
| Max Wt @ 50% Grade**: | - | 1,850 | 4,650 | 6,500 |
| Cable Spd FPM (full-no load): | 15 - 30 | 8 - 22 | 5 - 27 | 6 - 30 |
| Motor (HP/ V): | 1/115V, 1Ph | .5/12V, DC | 1.3/12V, DC | 1.6/12V, DC |
| Amps (full-no load): | 12.5 - 1 | 80 - 15 | 175 - 25 | 230 - 27 |
| Gear Ratio: | 148:1 | 123:1 | 148:1 | 148:1 |
| Aircraft Cable Size (ODxL): | 5/32" x 45' | 5/32" x 25' | 7/32" x 40' | 7/32" x 50' |
| Dimensions (LxOxH/in): | 15 x 5-3/8 x 5-3/4 | 11-3/8 x 5-3/8 x 5-3/4 | 12 x 5-3/8 x 5-3/4 | 13-1/2 x 7-3/4 x 6-1/4 |
| Net Wt (lbs): | 18 | 15 | 25 | 39 |

* Vertical lift is equivalent to straight line pull measured at top layer of fully spooled cable for comparison only.
** A 10% grade is a rise of one foot in ten feet.

DO NOT use as an overhead hoist. Winches are not to be used for lifting, supporting or transporting people, or lifting or supporting loads over people. Before installation, see operations manual for warnings and precautions.

Air Winches

Winches

Air Winches - Ingersoll-Rand

Ingersoll-Rand offers the broadest selection of air winches in the world, including utility and personnel lifting winches. This guide will assist you in selecting the Ingersoll-Rand air winch best suited for your application.

Utility rated air winches

- Used for lifting or pulling of materials, or tensioning up to the rated capacity of the winch.
- Meets ASME B30.7
- Rated with a 5:1 design factor for lifting and lowering loads
- Special versions available to meet the European Machinery Directives
- Rated at 3.5:1 design factor for pulling loads
- Allow use of clutch with manual band brake and local throttle control for spooling off unloaded cable.
- Applications include construction, mining, offshore oil, refineries, heavy industry, utilities, shipbuilding, maintenance
- Not to be used for lifting people



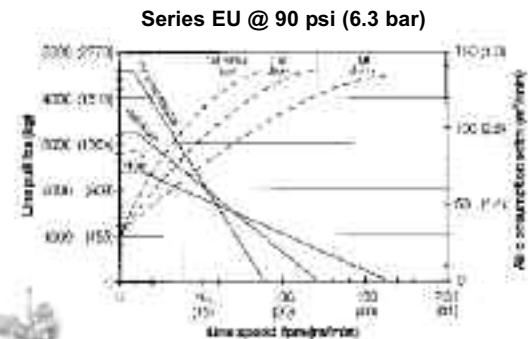
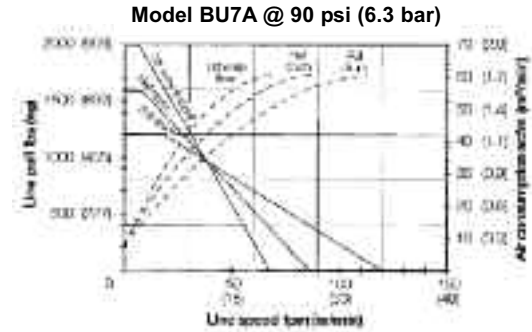
Classic™ BU7A Air Winch
1000 lb (454 kg) capacity

Classic™ EU Air Winch
2000 lb (909 kg) capacity

Utility Air Winch Series Quick Selection Guide*

| Utility Models | ASME B30.7 Allowable Rated Line Pulls w/Design Factor (DF) | | | | Rated Lift Capacity at | Clutch | Standard Cable Pay Out | European Union Version |
|------------------------|--|--------|--------------------|--------|------------------------|----------|------------------------|------------------------|
| | Lifting (5:1 DF) | | Pulling (3.5:1 DF) | | | | | |
| | lbs | kg | lbs | kg | | | | |
| BU7A | 1,000 | 454 | 1,425 | 648 | Mid layer | Standard | Overwound | Yes |
| LS600R ⁴ | 1,320 | 600 | 2,200 | 1,000 | Top layer | N/A | Overwound | Yes |
| PS1000R ^{3,4} | - | - | 2,200 | 1,000 | First layer | Standard | Overwound | Yes |
| EU | 2,000 | 909 | 2,855 | 1,298 | Mid layer | Standard | Overwound | N/A |
| LS1500R ⁴ | 3,300 | 1,500 | 5,280 | 2,400 | Top layer | N/A | Underwound | Yes |
| PS2400R ^{3,4} | - | - | 5,280 | 2,400 | First layer | Standard | Underwound | Yes |
| FA2A | 4,000 | 1,818 | 5,715 | 2,598 | Mid layer | Option | Overwound | Yes |
| FA2 | 4,400 | 2,000 | 6,285 | 2,857 | Top layer | N/A | Overwound | Yes |
| FA2.5 | 5,000 | 2,273 | 7,140 | 3,245 | Top layer | N/A | Overwound | Yes |
| FA2.5A | 5,000 | 2,273 | 7,140 | 3,245 | Mid layer | Option | Overwound | Yes |
| FA5T | 8,400 | 3,818 | 12,000 | 5,454 | Top layer | N/A | Overwound | Yes |
| FA5A | 10,000 | 4,545 | 14,285 | 6,493 | Mid layer | Option | Overwound | Yes |
| FA5 | 11,000 | 5,000 | 15,715 | 7,143 | Top layer | N/A | Overwound | Yes |
| FA7T | 12,600 | 5,727 | 18,000 | 8,182 | Top layer | N/A | Overwound | Yes |
| FA7 | 15,400 | 7,000 | 22,000 | 10,000 | Top layer | N/A | Overwound | Yes |
| FA10 | 22,000 | 10,000 | 31,425 | 14,284 | Top layer | N/A | Overwound | Yes |

*Please call for complete technical information.



Force 5® "Third Generation" Air Winch Series
4000 to 10000 lb
(181 to 4545 kg) capacity



Force 5® Air Winch Series
4400 to 22000 lb
(2000 to 10000 kg) capacity



Force 5® "Offshore" Man Rider® Series
3180 to 6875 lb
(1445 to 3125 kg) capacity

INGERSOLL-RAND
MATERIAL HANDLING

Specifications

| Air Winch Series | Lifting capacity | | Line speed | | Recommended Rope Size ² | | | | Drum Root Diameter | | Motor hp | Average required | | Pipe Inlet Size | Hose Size Dia. | Rope Anchor Hole | Maximum Stall Pull | | | | |
|------------------------|------------------|-----------------|------------|-------|------------------------------------|-----|-------|-----|--------------------|-----|----------|------------------|---------------------|-----------------|----------------|------------------|--------------------|--------|----|-----|----|
| | lbs ¹ | kg ¹ | fpm | m/min | 15:1 | | 18:1 | | in | mm | | scfm | m ³ /min | | | | in | in. | in | lbs | kg |
| | | | | | in | mm | in | mm | | | | | | | | | | | | | |
| BU7A | 1,000 | 455 | 45 | 14 | 1/4 | 6.5 | 1/4 | 6.5 | 4-1/2 | 114 | 1.6 | 42 | 1.2 | 1/2 | 3/4 | 3/8 | 1,950 | 886 | | | |
| LS600R ⁴ | 1,320 | 600 | 34 | 10 | 1/4 | 6.5 | 5/16 | 6.5 | 5-1/2 | 140 | 2 | 78 | 2.2 | 1/2 | 3/4 | 3/8 | 2,475 | 1,125 | | | |
| PS1000R ^{3,4} | - | - | 15 | 4.6 | 1/4 | 6.5 | 5/16 | 8 | 5-1/2 | 140 | 2 | 78 | 2.2 | 1/2 | 3/4 | 3/8 | 2,475 | 1,125 | | | |
| EU | 2,000 | 909 | 55 | 17 | 3/8 | 10 | 3/8 | 10 | 6 | 152 | 4.4 | 100 | 2.8 | 3/4 | 1 | 9/16 | 4,500 | 2,045 | | | |
| LS1500R ⁴ | 3,300 | 1,500 | 22 | 7 | 3/8 | 10 | 3/8 | 10 | 7-3/32 | 180 | 3.3 | 125 | 3.5 | 3/4 | 3/4 | 10mm | 7,000 | 3,182 | | | |
| PS2400R ^{3,4} | - | - | 12 | 3.7 | 3/8 | 10 | 3/8 | 10 | 7-3/32 | 180 | 3.3 | 125 | 3.5 | 3/4 | 3/4 | 10mm | 7,000 | 3,182 | | | |
| FA2A | 4,000 | 1,818 | 118 | 36 | 5/8 | 16 | 1/2 | 13 | 9-1/4 | 235 | 15 | 270 | 7.7 | 1 | 1-1/4 | 5/8 | 7,000 | 3,182 | | | |
| FA2 | 4,400 | 2,000 | 55 | 17 | 3/4 | 19 | 5/8 | 16 | 10-3/4 | 273 | 9.4 | 335 | 9.4 | 1 | 1-1/4 | 3/4 | 9,000 | 4,091 | | | |
| FA2.5A | 5,000 | 2,273 | 135 | 41 | 5/8 | 16 | 1/2 | 13 | 9-1/4 | 235 | 15 | 560 | 15.9 | 1-1/2 | 1-1/2 | 5/8 | 10,400 | 4,727 | | | |
| FA2.5 | 5,000 | 2,273 | 140 | 43 | 3/4 | 19 | 5/8 | 16 | 10-3/4 | 273 | 25 | 700 | 19.9 | 1-1/4 | 1-1/2 | 3/4 | 10,000 | 4,545 | | | |
| FA5T | 8,400 | 3,818 | 80 | 24 | 1 | 25 | 3/4 | 19 | 15 | 381 | 25 | 700 | 19.9 | 1-1/4 | 1 1/2 | 1 | 24,000 | 10,909 | | | |
| FA5A | 10,000 | 4,545 | 60 | 18 | 7/8 | 22 | 3/4 | 19 | 12-3/4 | 324 | 25 | 600 | 17.0 | 1-1/2 | 1-1/2 | 3/4 | 17,000 | 7,727 | | | |
| FA5 | 11,000 | 5,000 | 65 | 20 | 1 | 25 | 3/4 | 19 | 15 | 381 | 25 | 700 | 19.9 | 1-1/4 | 1-1/2 | 1 | 24,000 | 10,909 | | | |
| FA7T | 12,600 | 5,727 | 50 | 15 | 1-1/8 | 29 | 7/8 | 22 | 16 | 406 | 25 | 750 | 21.3 | 1-1/4 | 1-1/2 | 1-1/8 | 36,000 | 16,364 | | | |
| FA7 | 15,400 | 7,000 | 45 | 14 | 1-1/8 | 29 | 7/8 | 22 | 16 | 406 | 25 | 750 | 21.3 | 1-1/4 | 1-1/2 | 1-1/8 | 36,000 | 16,364 | | | |
| FA10 | 22,000 | 10,000 | 30 | 9 | 1-3/8 | 35 | 1-1/8 | 29 | 20 | 508 | 31 | 800 | 22.7 | 1-1/4 | 1-1/2 | 1-3/8 | 38,000 | 17,273 | | | |

¹ Lifting capacity rating complies with ASME B30.7 for base mounted drum hoists. Provides 5:1 design factor based on the rated line pull for lifting. ² Extra improved plow steel IWRC wire rope ³ The PS1000R and PS2400R are fitted as standard with a free spool clutch. These winches can be used for lifting at reduced capacity to maintain 5:1 DF only in those countries that allow it, eg, USA where PS1000R and PS2400R have same lift rating as LS600 and 1500 respectively. ⁴ Call for Liftstar and Pullstar specifications
Note: Adding "-E" to model states compliance with European Machinery Directive.

Winches

Air Winches

Heavy Duty Air Winches - Jeamar

Jeamar Air Winches are designed and manufactured for continuous, heavy duty operation with minimum service factor of 1. Both tugger and lifting winches are offered in a wide variety of sizes. Jeamar air motors are fully reversible vane type. Positive starting and precise control are

central features of the motors, which have been designed for long life and low-cost operation. Control valves feature proportional flow with spring return to neutral for 'deadman' operation. Valves control the winch speed by varying air flow to the motor.



HA Series (Tugger)

LA Series (Lifting)

| Model No. | WLL 1st layer (lbs) | Line Speed 1st layer (ft/mni) | Rope Dia. (in) | Rope Cap. 4th layer (ft) | Air Consumption (cfm) | Wt. (lbs) |
|-----------|---------------------|-------------------------------|----------------|--------------------------|-----------------------|-----------|
| HA 550 | 550 | 25 | 1/8 | 125 | 58 | 92 |
| HA 1100 | 1100 | 28 | 3/16 | 160 | 110 | 130 |
| HA 1900 | 1900 | 27 | 1/4 | 215 | 110 | 190 |

| Model No. | WLL 1st layer (lbs) | Line Speed 1st layer (ft/mni) | Rope Dia. (in) | Rope Cap. 4th layer (ft) | Air Consumption (cfm) | Wt. (lbs) |
|-----------|---------------------|-------------------------------|----------------|--------------------------|-----------------------|-----------|
| LA 400 | 400 | 24 | 1/8 | 125 | 58 | 128 |
| LA 900 | 900 | 24 | 3/16 | 187 | 110 | 196 |
| LA 1400 | 1400 | 24 | 1/4 | 250 | 110 | 289 |

gripwinch Information

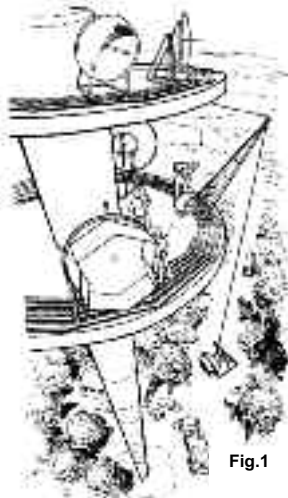


Fig. 1

GRIPWINCH is a motorized hoist with a self-reveeing wire rope, specially designed for MATERIAL hoisting and pulling. Due to the originality and reliability of its rope driving system, this portable hoist can easily replace drum winches in a majority of applications. Rated capacity up to 2000 lbs.

Low Maintenance Saves Money

The simplicity and the reliability of its design make the GRIPWINCH a low maintenance cost machine. Gentle treatment of the wire rope give it a long life. The GRIPWINCH has an efficient gear drive that reduces the motor load and reduces current draw.

Thanks to its outstanding features, the GRIPWINCH can be used as a winch as well as material hoist. It can operate conveyor belts or large hangar doors, move stage settings and arrangements, position railroad cars and rolling loads, pull underground power lines, etc.

It can also be used for numerous hoisting and pulling applications in plants and workshops, as well as for various maintenance or repair services.

Its universality cannot be disputed!

applications, the GRIPWINCH is fixed permanently and the traction wire rope lead over reversing pulleys and attached at both end to the load (Fig. 6).

The GRIPWINCH can also be fixed to the load to be moved (f. ex. conveyor belts).

It moves then with the load along the rope that has been fixed at both ends of the distance to be covered (Fig. 7).

NOTE: In case of need, for lifting as well as pulling, the rated capacity of the GRIPWINCH can always be increased by reeving the traction rope.

Characteristics

Unlimited pulling and lifting distance

Provided the wire rope is long enough (Fig. 1). Not stored in the machine, the wire rope is driven by a patented wire rope drive system (Fig. 2).

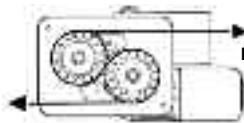


Fig. 2

Symmetrical Configuration

Allows pulling in both directions - at full capacity. One GRIPWINCH can replace two counteracting winches.

Lightweight and Compact

The crane in the suit case! Two men can carry the GRIPWINCH to any place, where it is needed. Try this with a 1-ton drum winch! And the installation for driving applications is no problem, thanks to the compact design.



Applications

Lifting

Of course, the GRIPWINCH can be fixed above the load, the most usual method for great heights (Fig. 1 & 3). But why not anchor it within reach, on the ground, anywhere - for small heights, in particular - and use a reversing pulley (Fig. 4)! This is the most common method, generally recommended for this type of job and the operator's safety.

Pulling

The most common method for pulling applications is to fix the GRIPWINCH and to pull the load toward it (Fig. 5). When pulling, do not confuse the weight of the load with the effort required to move it which can greatly vary depending on the contact surface, the amount of friction, the degree of the slope, etc. It is a well-known fact that the effort required to move anything on wheels is much bellow the weight of the item to be moved.

Moving To-and-Fro

Since the GRIPWINCH can pull in both directions, it can move a load to-and-fro (f. ex. position rolling loads, open and close hangar doors, etc.). For these

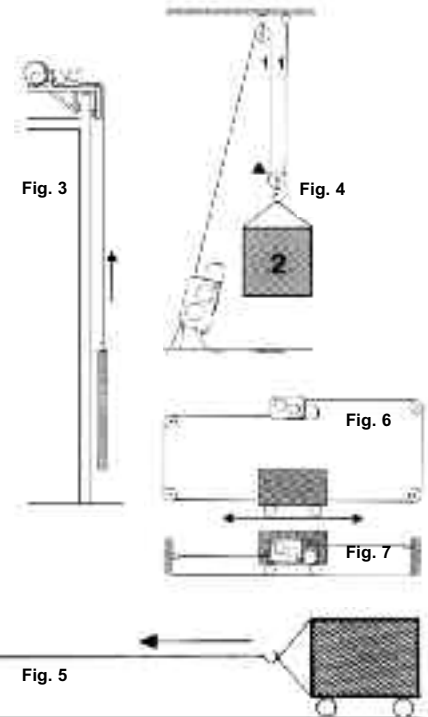


Fig. 3

Fig. 4

Fig. 6

Fig. 7

Fig. 5

- Gripwinch Information continues -

Air Winches

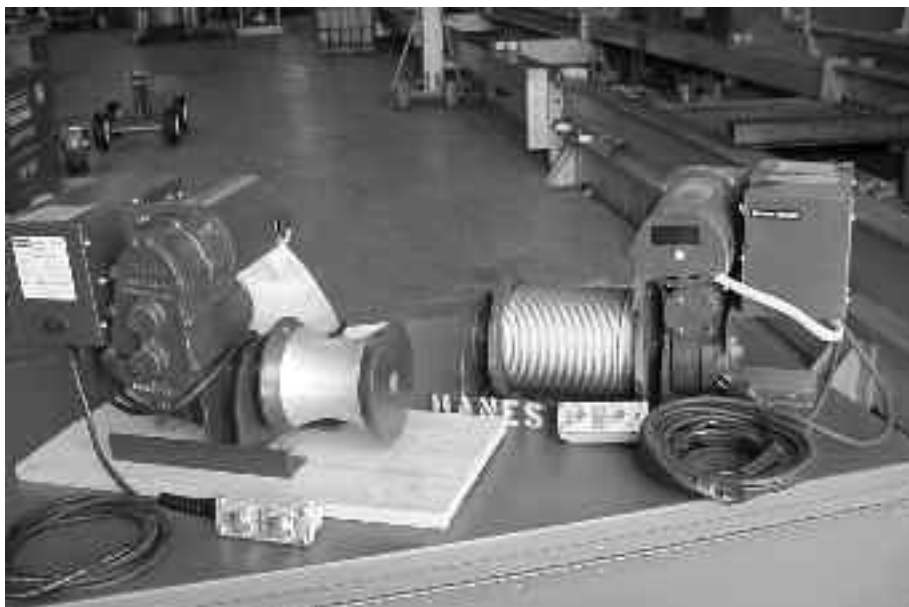
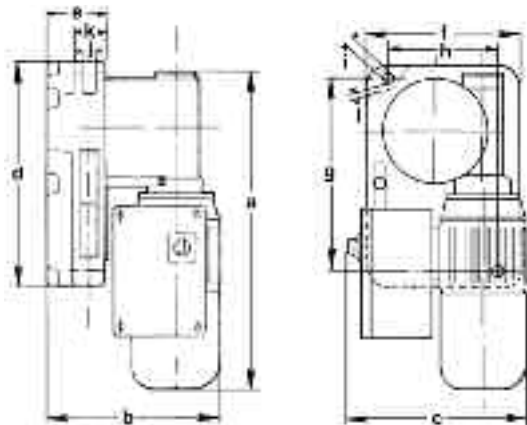
Gripwinch Information (continued)

| Models | Dimensions | | | | | |
|------------------|------------|------|-----|-----|-----|-----|
| | g | h | i | j | k | l |
| T-400/500 Series | 13.4 | 7.3 | 0.6 | 1.0 | 2.2 | 0.6 |
| T-1000 Series | 17.7 | 10.0 | 0.6 | 1.0 | 2.2 | 0.5 |

Technical Specifications Standard Models

| Model | | G411M | G510M | G412M | G 1000M | G 1002M | GA 410M | GA 1000M | GH ¹ 510M | GHB ² 510M | GH ¹ 1000M | GHB ² 1000M |
|----------------------------------|----------------------|---------------------------------|-------|-------|---------|---------|------------------|----------|------------------------|-----------------------|-----------------------|------------------------|
| Admissible load ³ | lbs | 1,000 | 1,000 | 1,000 | 2,000 | 2,000 | 1,000 | 2,000 | 1,000 | 1,000 | 2,000 | 2,000 |
| Lifting speed | ft/min | 35 | 35 | 70 | 35 | 70 | 35 | 35 | up to 60 | | | |
| Weight | lbs | 140 | 114 | 117 | 161 | 167 | 100 | 187 | 88 | 97 | 134 | 165 |
| Dimensions overall | a | 24.3 | 20.9 | 20.9 | 24.3 | 24.3 | 17 | 20 | 16.71 | 20.3 | 26 | 26.6 |
| | b | 13.6 | 13.2 | 13.2 | 12.2 | 12.2 | 12 | 12.4 | 12 | 10 | 11.4 | 12.6 |
| c | 12.8 | 9.8 | 9.8 | 10.7 | 10.7 | 10.2 | 12.6 | 19.9 | 15.1 | 3.7 | 19.9 | 3.7 |
| Wire Rope Mechanism | d | 15.1 | 15.1 | 15.1 | 19.9 | 19.9 | 15.1 | 19.9 | 15.1 | 3.7 | 19.9 | 3.7 |
| e | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| f | 10.2 | 10.2 | 10.2 | 12.6 | 12.6 | 12.6 | 10.2 | 12.6 | 10.2 | 10.2 | 12.6 | 12.6 |
| Motor specifications: | | electrical motor | | | | | air motor | | hydraulic motor | | | |
| 3-phase 220 or 440V 60 cycles | kw | - | 0.9 | 1.8 | 2.2 | 3 | - | - | - | - | - | - |
| single ph. 100 or 200V 60 cycles | kw | 1.1 | - | - | - | - | - | - | - | - | - | - |
| compressed air pressure | psi | - | - | - | - | - | 85 | 85 | - | - | - | - |
| min. air consumption | ft ³ /min | - | - | - | - | - | 53 | 78 | - | - | - | - |
| max. work pressure | psi | - | - | - | - | - | - | - | 2,200 | - | 2,200 | - |
| motor cubic cap. | cu/in. | - | - | - | - | - | - | - | 0.24 | - | 0.72 | - |
| Wire rope specifications: | type | A6 | A6 | A6 | C8 | C8 | A6 | C8 | A6 | A6 | C8 | C8 |
| diameter | in. | 1/4 | 1/4 | 1/4 | 5/16 | 5/16 | 1/4 | 5/16 | 1/4 | 1/4 | 5/16 | 5/16 |
| min. breaking strength | lbs | 6,600 | 6,600 | 6,600 | 10,600 | 10,600 | 6,600 | 110,600 | 6,600 | 6,600 | 10,600 | 10,600 |
| construction | | 4 x 26 or 6 x 19 IWCR galv. IPS | | | | | | | | | | |

1 Model without brake, only for horizontal traction 2 Model with brake; for hoisting and pulling on a slope
 3 If the rated capacity of the hoist is not sufficient in direct traction, it can be easily increased by reeving the traction wire rope.



**WE
 SPECIALIZE
 IN LIFTING
 AND RIGGING
 SOLUTIONS!!!**

