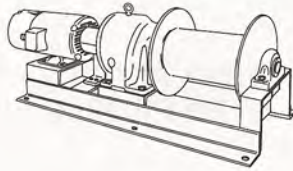


**Direct Drive Electric Winches and Hoists**

The direct drive design of the 4D Series winches results in quick line speeds, making these units ideal for long distance hauling. Winches are powered by 230/460 volt three phase, TEFC, reversible, continuous duty brakemotors. The enclosed nature of the motor and reducer make 4D winches suitable for heavy-duty use in dirty conditions.



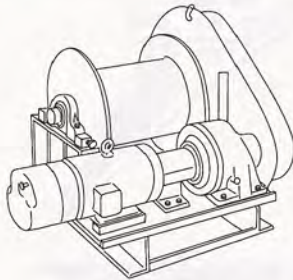
**Model 4D10**

model	motor HP	load rating 2nd layer	load rating full drum	wire rope diameter	full drum capacity	2nd layer line speed	approx. weight	options (see below)
4D3	3	1500 lbs	875 lbs	3/8 in	790 ft	55 fpm	500 lbs	A C D E F G P R S T X
4D7	7.5	3500 lbs	2100 lbs	7/16 in	850 ft	60 fpm	700 lbs	A C D E F G P R S T X
4D10	10	5000 lbs	2900 lbs	9/16 in	540 ft	55 fpm	850 lbs	A C D E F G P R S T X
4D15	15	7000 lbs	4400 lbs	5/8 in	625 ft	55 fpm	1150 lbs	A C D E F G P R S T X

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

**Chain Drive Electric Winches and Hoists**

4C Series winches use two stages of speed reduction to maximize torque, resulting in large load ratings which make these winches a natural choice for pulling and lifting heavy loads. The winches are driven by 230/460 volt three phase, TEFC, reversible, continuous duty brakemotors. Their clean design insures simplified operation and maintenance.



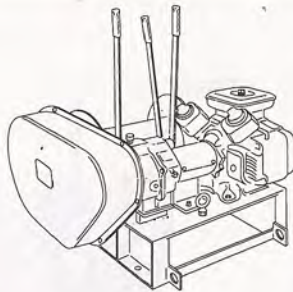
**Model 4C102**

model	motor HP	load rating 2nd layer	load rating full drum	wire rope diameter	full drum capacity	2nd layer line speed	approx. weight	options (see below)
4C51	5	5000 lbs	3100 lbs	9/16 in	540 ft	26 fpm	725 lbs	A C D E F G P R S T X
4C52	7.5	7500 lbs	5250 lbs	5/8 in	625 ft	26 fpm	850 lbs	A C D E F G P R S T X
4C102	10	10000 lbs	6750 lbs	3/4 in	800 ft	26 fpm	1550 lbs	A C D E F G P R S T X
4C152	15	15000 lbs	11600 lbs	1 in	600 ft	26 fpm	2800 lbs	A C D E F G P R S T X
4C202	20	25000 lbs	17000 lbs	1-1/4 in	650 ft	20 fpm	4240 lbs	A C D E F G P R S T X

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

**Gasoline Power Winches and Hoists**

4G Series winches are powered by internal combustion engines making them suitable for use in areas where electric power is unavailable. Large capacity drums and fast line speeds give them the ability to move loads quickly through long distances. A reversible transmission drive permits smooth shifting between forward, neutral, and reverse; and allows loads to be "powered down" for better control during lowering. The hand operated transmission lever, brake lever, and ratchet lever provide straightforward operation.



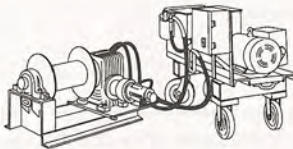
**Model 4G18**

model	motor HP	load rating 2nd layer	load rating full drum	wire rope diameter	full drum capacity	2nd layer line speed	approx. weight	options (see below)
4G9	10	1000 lbs	406 lbs	1/4 in	2303 ft	125 fpm	510 lbs	A D F G S
4G18	18	2000 lbs	1053 lbs	5/16 in	2534 ft	125 fpm	1050 lbs	A D F G S

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

**Electric/Hydraulic Winch/Hoist**

The 4W50 with its 4W50PP power pack is ideal for use in construction work. The 4W50PP, driven by a 230 volt single phase electric motor, provides hydraulic power to the winch. The winch is controlled by a hydraulic system that provides two stages of variable speed control: a low speed range for accurate load positioning, and a high speed range for quick transport of loads. A motor brake suspends the load when the winch is stopped. Both units can be wheeled through standard size doorways.



**Model 4W50/4W50PP**

speed range	drum rpm	load rating 2nd layer	load rating full drum	wire rope diameter	full drum capacity	2nd layer line speed	approx. weight 4W50	approx. weight 4W50PP	options (see below)
low spd	0-13	6100 lbs	3200 lbs	9/16 in	555 ft	0-27 fpm	770 lbs	550 lbs	A D F G R S X
high spd	0-23	845 lbs	440 lbs			0-48 fpm			

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

**Options and Modifications Available for Thern Power Winches and Hoists**

- A Additional Cable Anchors** - for attaching more than one wire rope to the drum.
- C Clutches** - allow wire rope to be rapidly unwound for hook-up to load. Units with clutches must not be used to lift loads.
- D Drum Length Modifications** - to alter the capacity of the drum.
- E Electrical Control Packages** - magnetic reversing controls available for operating the motor in different environments.
- F Additional Drum Flanges** - create separate drum compartments to accommodate multiple wire ropes.
- G Grooved Drums** - help wire rope to wind uniformly onto the drum.
- P Pressure Bars** - help prevent wire rope from becoming slack on drum.
- R Rotary Limit Switches** - limit the distance load can travel in one or two directions.
- S Drum Diameter Modifications** - to alter wire rope line speed.
- T Torque Limiter Couplings** - help protect equipment from overload damage.
- X Special Motors** - Explosion Proof, Corrosion Resistant, or Dirty Duty motors, for use in harsh environments.