

ATLAS II Portable POWER WINCHES

The 3WG4 Series power winch from Thern packs power and performance into a compact and lightweight package for pulling or lifting. Featuring rugged construction and precision machining, this winch delivers the pulling and lifting strength you need on the work site.

Fully-enclosed precision worm gearing ensures smooth, dependable, long-lasting operation, while sturdy lifting handles allow for easy transport.



Up to 4600 lb Capacity Portable Power Winch

- Industrial-Duty Induction Motor
- Worm Gearing for Precise Load Control
- Enclosed Oil Bath
- Internal Mechanical or Motor Brake
- Mount on Floor, Wall or Ceiling
- Lightweight & Rugged - Cast Aluminum
- Lifting Handles
- Dual Cable Anchor
- 2-Year Warranty



OPTIONS AND ACCESSORIES

3WG4 OPTIONS AND ACCESSORIES

- **EMERGENCY HAND CRANK** for manual operation in power loss situations.
- **ROTARY LIMIT WINCHES** provide secondary shut-off for load travel in one or two directions.
- **INTERNAL MECHANICAL BRAKE** available for motor brake models to provide dual braking.
- **SPECIAL FINISHES** for harsh or hazardous environments.
- **SPECIAL MOTORS AND CONTROLS** are available in a wide range of standard and custom configurations for single or variable speed.
- **TORQUE LIMITERS** as part of the motor controls.
- **EXTREME TEMPERATURE OPTION** available with special seals and motors for high temperature environments - up to 65° C (149° F).



Custom controls available for special applications.



Note: ■ Custom controls are available including wireless remote control, variable speed control, electronic overload, and enclosures for special environments.

Control Options and Accessories

Model	Description	115/1/60	230/1/60	230/3/60	460/3/60
10L2A1	NEMA 1	to 1.5 hp	to 2 hp	to 3 hp	to 3 hp
10L7E1	NEMA 1	to 1.5 hp	to 3 hp	to 5 hp	to 7.5 hp
10L2A4	NEMA 4 – watertight	to 1.5 hp	to 2 hp	to 3 hp	to 3 hp
10L7E4	NEMA 4 – watertight	to 1.5 hp	to 3 hp	to 5 hp	to 7.5 hp

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

Motor Codes		
A	115 volt	1 phase
B	230 volt	1 phase
C	208 volt	3 phase
D	230 volt	3 phase
E	460 volt	3 phase
F	All other voltages please contact the factory.	



PERFORMANCE

3WG4 Series Performance Characteristics

Model	Brake Style	Duty Rating ¹ (mins)	Motor Codes	Motor HP	Load Rating						Line Speed				Approx. ² Ship. Wt.	
					1st Layer		Mid Drum		Full Drum		1st Layer		Full Drum		(lb)	(kg)
					(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(fpm)	(mpm)	(fpm)	(mpm)	(lb)	(kg)
3WG4-B3500-9S6	Internal	15	B,C,D,E	1.5	3500	1587.6	2500	1134.0	1900	861.8	9	2.7	16	4.9	186	84.4
3WG4-B3500-13S6	Internal	15	B,C,D,E	2	3500	1587.6	2500	1134.0	1900	861.8	13	4.0	24	7.3	191	86.6
3WG4-B4000-9S6	Internal	15	A	1.5	4000	1814.4	2800	1270.1	2200	997.9	9	2.7	16	4.9	181	82.1
3WG4-B4600-9S6	Internal	15	B,C,D,E	2	4600	2086.5	3300	1496.9	2500	1134.0	9	2.7	16	4.9	191	86.6
3WG4-B4600-13S6	Internal	15	C,D,E	3	4600	2086.5	3300	1496.9	2500	1134.0	13	4.0	24	7.3	190	86.2
3WG4-M3500-9S6	Motor	60	D,E	1.5	3500	1587.6	2500	1134.0	1900	861.8	9	2.7	16	4.9	171	77.6
3WG4-M3500-13S6	Motor	60	B,D,E	2	3500	1587.6	2500	1134.0	1900	861.8	13	4.0	24	7.3	182	82.6
3WG4-M4000-9S6	Motor	60	A	1.5	4000	1814.4	2800	1270.1	2200	997.9	9	2.7	16	4.9	181	82.1
3WG4-M4600-9S6	Motor	60	B,D,E	2	4600	2086.5	3300	1496.9	2500	1134.0	9	2.7	16	4.9	182	82.6
3WG4-M4600-13S6	Motor	60	D,E	3	4600	2086.5	3300	1496.9	2500	1134.0	13	4.0	24	7.3	181	82.1

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¹Duty rating represents maximum operating time at full load. Rating includes lifting and lowering. Allow components to cool between cycles.

²Weight may vary with motor selection.



Drum features a set screw slot (left) and keyhole slot (right).

3WG4 Series Drum Capacities⁴

Model	Wire Rope Diameter		Breaking Strength		Drum Layer					
	(in)	(mm)	(lb)	(kg)	1st Layer		Mid Drum		Full Drum	
					(ft)	(m)	(ft)	(m)	(ft)	(m)
3WG4-B/M	5/16	1.9	9800 ⁵	4445.2	18	5.4	91	27.7	200	60.9
3WG4-B/M	3/8	9.5	15,100 ⁶	6849.0	14	4.2	65	19.8	140	42.6

⁴Actual drum capacities may be 25-30% less, due to nonuniform winding. Tension in wire rope will also affect drum capacity.

⁵Values based on 7x19 Galvanized Aircraft cable.

⁶Values based on 6x37 EIPS wire rope



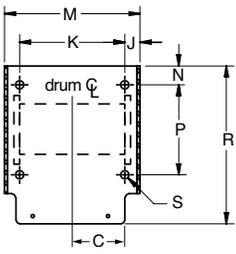
These products are not for lifting people, or things over people.

Complete, downloadable details on line
www.thern.com

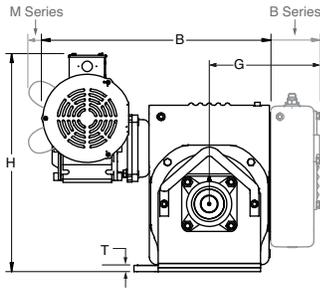


DIMENSIONS

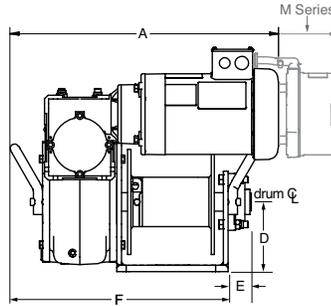
Mounting - Top View



Side View



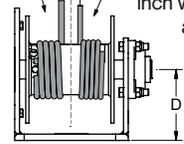
Back View



Cable Install

Set screw anchor for 1/4 to 1/2 inch wire rope.

Quick disconnect anchor for 1/4 to 3/8 inch wire rope with anchor fitting.



3WG4 Series Winch Dimensions (in)

Model	Approx. Ship Wt.	A ³	B ³	C	D	E	F	G	H ³	J	K	M	N	P	R	S	T
3WG4-B3500-9S6	240	22.50	24.50	3.63	5.63	1.88	17.75	9.50	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-B3500-13S6	245	23.50	24.50	3.63	5.63	1.88	17.75	9.50	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-B4000-9S6	235	23.00	24.50	3.63	5.63	1.88	17.75	9.50	18.00	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-B4600-9S6	245	23.50	24.50	3.63	5.63	1.88	17.75	9.50	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-B4600-13S6	245	22.00	23.50	3.63	5.63	1.88	17.75	9.50	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-M3500-9S6	225	26.50	19.50	3.63	5.63	1.88	17.75	5.75	18.00	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-M3500-13S6	235	28.00	21.00	3.63	5.63	1.88	17.75	5.75	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-M4000-9S6	235	28.00	20.50	3.63	5.63	1.88	17.75	5.75	18.00	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-M4600-9S6	235	28.00	21.00	3.63	5.63	1.88	17.75	5.75	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50
3WG4-M4600-13S6	235	27.50	19.50	3.63	5.63	1.88	17.75	5.75	18.50	1.00	7.00	9.00	1.25	6.00	10.50	9/16	0.50

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

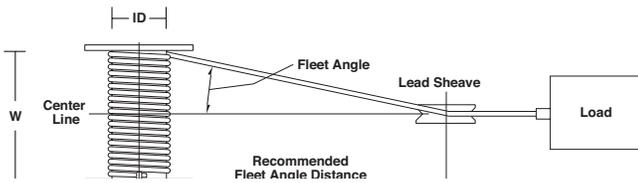
³ Dimensions A, B and H may vary with motor selection.

3WG Series Drum Dimensions

Model	Drum Dia. (in)	Drum Dia. (mm)	Flange Dia. (in)	Flange Dia. (mm)	Drum Width (in)	Drum Width (mm)	Fleet Angle Distance ⁷ (ft)	Fleet Angle Distance ⁷ (m)
3WG4-M	4.00	102	8.50	216	6.50	166	10.5	3.2

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

⁷ Recommended minimum distance between drum and lead sheave for smooth drum.



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.



These products are not for lifting people or things over people.



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