

## Series 4WP2D High Speed Worm Gear Power Winches

Up to 1500 lb capacity

- **Direct Drive Design** delivers high speed operation in both directions, even under full load.
- **Machine Cut Bronze 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.
- **Internal Mechanical Brake** provides positive load control for lifting and lowering operations.
- **Ball Bearings** and self-aligning bronze bearings provide smooth and efficient operation.
- **Pressure Plate** applies pressure to drum and wire rope to help maintain uniform winding. Not available on clutch models.
- **Dual Function Cable Anchor** for quick disconnect of wire rope with swaged ball fitting, or recessed cable anchor with set screw for wire rope with unfinished end.
- **Mounting Options** include floor, wall, or ceiling.
- **Two-year Limited Warranty**
- **Cast Aluminum** construction, for lightweight strength.
- **Corrosion Resistant** durable paint finish protects against corrosion in harsh environments.

Model 4WP2D8-1500-40  
shown with wire rope



Wire rope assemblies and controls sold separately

- **Large Diameter Drums** minimize wear to the wire rope and help extend its life.
- **Clutch Model** allows operator to manually disengage the drum to rapidly unwind wire rope. **Clutch models do not include pressure plates.**

### Series 4WP2D – Performance Characteristics – Section 2

When ordering, please indicate Model Number and Extensions

Examples: 4WP2D8-800-26-A (without clutch); 4WP2DC-800-40-A (with clutch)

model number	model number extensions			motor hp	load rating (lb)			wire rope dia.(in) <sup>1</sup>	line speed (fpm)		drum capacity(ft) <sup>2</sup>			approx. <sup>3</sup> 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	
High Speed Atlas winches for lifting or pulling														
4WP2D8	800	26	A,B,D,E	1	800	460	330	1/4	26	65	19	130	280	100
4WP2D8	800	40	D,E	1.5	800	460	330	1/4	40	97	19	130	280	100
4WP2D8	1500	26	D,E	2	1500	900	600	1/4	26	65	19	130	280	100
4WP2D8	1500	40	B,D,E	3	1500	900	600	1/4	40	97	19	130	280	100
High Speed Clutch Models for HORIZONTAL PULLING ONLY														
4WP2DC	800	26	A,B,D,E	1	800	460	330	1/4	26	65	12	87	190	100
4WP2DC	800	40	D,E	1.5	800	460	330	1/4	40	97	12	87	190	100
4WP2DC	1500	26	D,E	2	1500	900	600	1/4	26	65	12	87	190	100
4WP2DC	1500	40	B,D,E	3	1500	900	600	1/4	40	97	12	87	190	100

#### Motor Codes

A	115 volt	1 phase
B	230 volt	1 phase
D	230 volt	3 phase
E	460 volt	3 phase
F	All other voltages – please contact factory	
PN	please contact factory	

- For more information and other control options, please see pages 46-47.
- Custom controls are available including wireless remote control, variable speed control, electronic overload, and enclosures for special environments.

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

<sup>1</sup> Minimum wire rope diameter is 1/4 inch.

<sup>2</sup> Actual drum capacities 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.

<sup>3</sup> Weight may vary with motor.

#### Control Options and Accessories – Section 2

model	description	115/1/60 <sup>4</sup>	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
10P1A46	6 ft pendant control	to 1 hp	—	—	—
TPL-4WP2T8	Two Part Line Kit				

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

<sup>4</sup> Controls for 115V single phase motors up to 1 hp, include an 8 ft power cord with grounded plug.

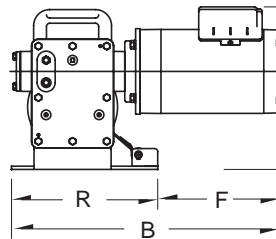
See Dimensions on Next Page

## Options and Accessories

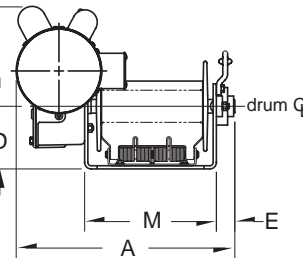
- **Emergency Hand Crank** for manual operation in case of power failure. Does not include handle.
- **Two Part Line Kit** to convert to double line rigging.
- **Rotary Limit Switches** for secondary shut-off to limit load travel in one or two directions. **Not available on clutch models.**
- **Special Motors and Controls** including severe duty and explosion proof.
- **Special Finishes** for hazardous environments.
- **Torque Limiters** as part of the motor controls on electric models.

## Side View

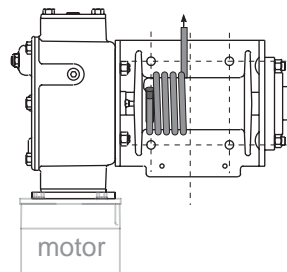
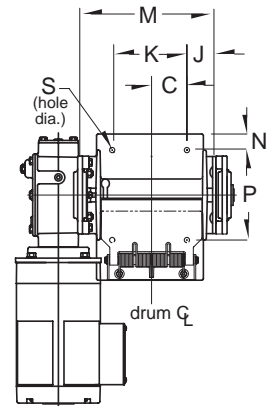
Series 4WP2D8



## Rear View

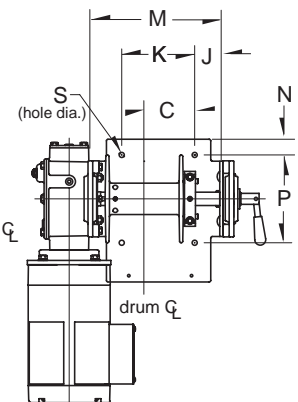
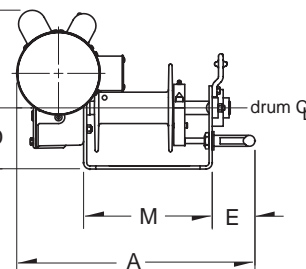
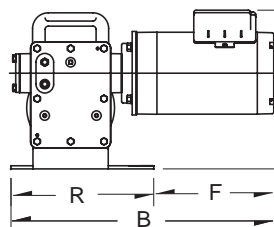


## Top View



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

Series 4WP2DC



### Important:

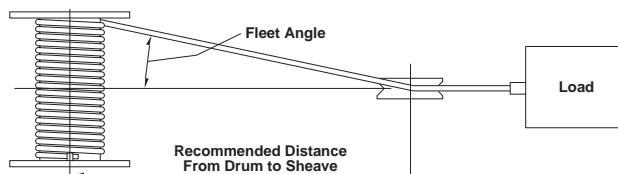
It is the owner's or operator's responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals, and regulations. Be sure to read the Owner's Manual supplied with the equipment before operating it.

## Series 4WP2D – Dimensions (in)

series	A <sup>1</sup>	B <sup>1</sup>	C	D	E	F	H <sup>1</sup>	J	K	M	N	P	R	S (hole dia.)
4WP2D8	17.50	21.00	2.75	5.00	1.50	9.50	12.75	2.25	5.81	10.25	1.25	7.00	11.50	.41
4WP2DC	19.00	21.00	4.00	5.00	3.50	9.50	12.75	2.25	5.81	10.25	1.25	7.00	11.50	.41

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

<sup>1</sup> Dimensions A, B and H may vary with motor selection.



## Series 4WP2D – Drum Dimensions

model extension	drum diameter	flange diameter	drum width	fleet angle distance <sup>2</sup>
4WP2D8	2.50 in	7.00 in	8.00 in	13 ft
4WP2DC	2.50 in	7.00 in	5.50 in	9 ft

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

<sup>2</sup> Recommended minimum distance between drum and lead sheave for smooth drum.