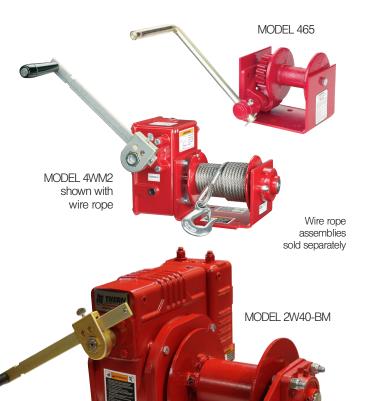
HAND WINCHES WORM GEAR

Worm Gear Hand Winches

Up to 4000 lb Capacity

- Machine Cut Worm Gears provide accurate operation and long lasting service.
- Enclosed Oil Bath provides continuous lubrication of gears to minimize wear, except on Model 465. On Models 4WM2 and 2W40, oil seals keep oil in and dirt out.
- **Hex Drive** and handle are included. Models 4WM2 and 2W40* can be power driven with a maximum 300 rpm drill-motor
- Automatic Brake Models provide positive load control for lifting. Brake models have a PB or B suffix. Models 4WM2 and 2W40-B feature an internal mechanical brake.
- Corrosion Resistant durable paint finish protects against corrosion in harsh environments.
- **Bronze Bearings** on most models for smooth operation.
- Large Diameter Drums minimize wire rope wear.
- Handles Adjust in length to change force required to move the load.
- **Mounting Options** include floor, wall, or ceiling. Adapter plate may be required, contact factory.
- Two-year Limited Warranty

*See Drill Drive performance chart on page 11.



Worm Gear Hand Winches — Configurations and Performance Characteristics

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

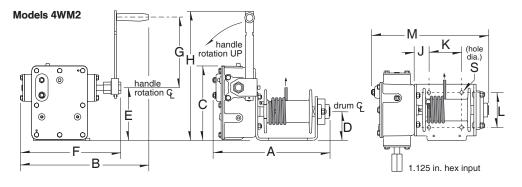
Please contact factory or nearest Thern Distributor for firm fixed price and delivery.



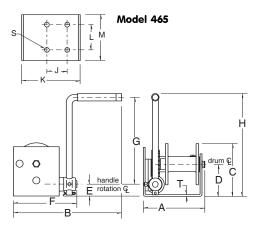
¹ Actual drum capacities may be 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.

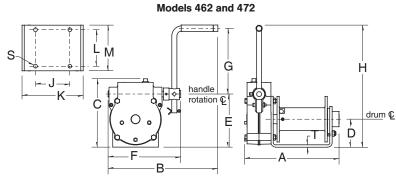
² Approximate handle force required to lift 1000 lb with an empty drum, and maximum handle length.

EAR HAND WINCHES



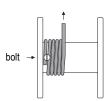
Install wire rope correctly as shown, or brake will not operate properly.



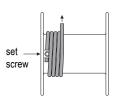




Wire Rope Installation Model 465



Wire Rope Installation Models 462 and 4622PB



Wire Rope Installation Model 472

Model 4622PB handle S rotation UP drum © Ď

Worm Gear Hand Winches - Dimensions

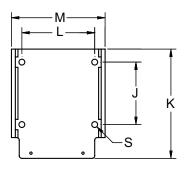
	465		40	62	462	2PB	47	72	4WM2	
	(in)	(mm)								
Drum Diameter	1.50	38.1	1.50	38.1	1.50	38.1	2.50	63.5	2.50	63.5
Flange Diameter	4.00	101.6	4.06	103.1	4.06	103.1	5.00	127	5.00	127
Drum Width	2.81	71.3	2.81	71.3	2.81	71.3	5.00	127	5.00	127
A	6.50	165.1	7.75	196.8	7.50	190.5	10.12	257.0	13.50	342.9
В	10.50	266.7	10.25	260.3	11.81	299.9	12.00	304.8	15.56	395.2
C	5.44	138.1	5.63	143.0	5.62	142.7	7.12	180.8	8.56	217.4
D	3.40	86.3	2.38	60.4	2.40	60.9	3.06	77.7	3.31	84.0
Е	1.40	35.5	4.38	111.2	4.38	111.2	5.81	147.5	6.04	153.4
F	6.38	162.0	5.88	149.3	7.60	193.0	7.94	201.6	11.56	293.6
G	8.75	222.2	9.00	228.6	10.59	268.9	7.25	184.1	10.59	268.9
Н	10.59	268.9	13.38	339.8	15.59	395.9	13.38	339.8	17.30	439.4
J	2.00	50.8	2.00	50.8	2.00	50.8	3.75	95.2	1.75	44.4
K	5.75	146.0	4.44	112.7	4.44	112.7	6.69	169.9	3.75	95.2
L	2.50	63.5	2.50	63.5	2.50	63.5	4.00	101.6	4.00	101.6
M	4.50	114.3	3.50	88.90	3.50	88.90	5.00	127	13.50	342.9
S (hole diameter)	.40	10.1	.40	10.1	.40	10.1	.40	10.1	.41	10.4
T	.19	4.8	.19	4.8	.19	4.8	.25	6.3	-	_

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

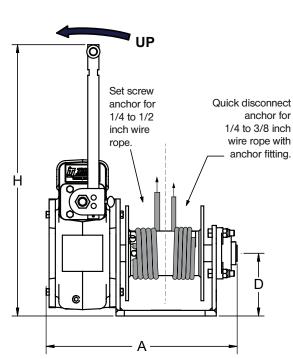
IMPORTANT:

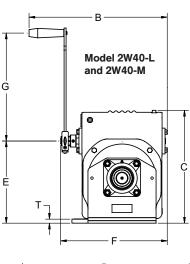
It is the owner or operator's responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals and regulations. Be sure to read the Owner's Manual supplied with the equipment before operating it.

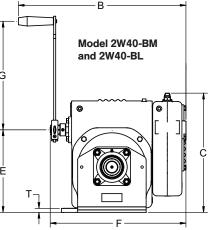
HAND WINCHES WORM GEAR



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







2W40 Series Worm Gear Hand Winches - Dimensions

Model	A	В	С	D	E	F	G	н	J	К	L	М	S (hole dia)	т	Flange Dia	Drum Width	Drum Dia
	(in)	(in)	(in)	(in)	(in)	(in)	in)	(in)	(in)	(in)	in)	(in)	(in)	(in)	(in)	(in)	(in)
2W40-L	17.25	19.75	14.25	5.63	10.25	14.5	18.5	29.25	6	10.5	7	9	9/16	.5	8.5	6.5	4
2W40-M	17.25	17.25	14.25	5.63	10.25	13.5	13.5	24.50	6	10.5	7	9	9/16	.5	8.5	6.5	4
2W40-BL	17.25	23.5	15	5.63	10.25	18.25	18.5	29.25	6	10.5	7	9	9/16	.5	8.5	6.5	4
2W40-BM	17.25	21	15	5.63	10.25	17	13.5	24.50	6	10.5	7	9	9/16	.5	8.5	6.5	4

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

2W40 Series Performance Characteristics - Drill Drive¹

	Load Rating								ill Model: ED300-DW11
Model	1st L	_ayer	Mid I	Mid Drum F		Full Drum		Volts	Duty Cycle ²
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)			Maximum
2W40-M	2300	1043	1650	748	1250	566	300	120	40 ft of life or 5 min of operation
2W40-BM	2300	1043	1650	748	1250	566	300	120	40 ft of life or 5 min of operation

¹ Performance Characteristics refer to standard products. Non-standard products may vary from the original design. Contact Thern for this information.

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





² Duty cycle includes lifting and lowering and may vary depending on load or application. Allow components to cool between cycles.