SPUR GEAR HAND WINCHES

MODEL M4022PB

MODEL M4312PBSS Shown with wire rope

Wire rope assemblies sold separately



Spur Gear Hand Winches

Up to 2000 lb capacity

- Machine Cut Spur Gears for accurate and long lasting service.
- Automatic Brake Models provide positive load control for lifting and lowering operations. Brake models have PB suffix.
- **Corrosion Resistant** trivalent zinc plated finish protects against corrosion in harsh environments.
- Quick Disconnect Anchor¹ for quickly attaching or removing wire rope equipped with a swaged ball fitting.
- Bronze and Radial Ball Bearings provide smooth and efficient operation.
- Large Diameter Drums minimize wear to extend wire rope life.
- **Gear Covers** protect gears and help prevent injuries.
- Stainless Steel Models Available for harsh environments, see models with SS suffix. Stainless steel models are electro-polished for added corrosion resistance.
- Two-year Limited Warranty

Spur Gear Hand Winches – Configurations and Performance Characteristics – Section 1

		load	d rating	g (lb)	wire	drum	capaci	ty (ft) ²	single	double	force ³	approx.
model number	description	1st layer	mid drum	full drum	rope dia. (in)	1st layer	mid drum	full drum	gear ratio	gear ratio	to lift 1000 lb	ship wt. (lb)
M401	500 lb – marine duty (for pulling only)	500	400	300	1/8 3/16	7 4	60 27	130 60	—	—	—	8
M4022	1000 lb – marine duty (for pulling only)	1000	700	500	1/8 3/16	4 3	52 26	130 57	2.85:1	—	40 lb	12
M4022PB	1000 lb – marine duty with brake (for lifting)	1000	700	500	1/8 3/16	4 3	52 26	130 57	2.85:1	—	41 lb	17
M4032	1000 lb – marine duty (for pulling only)	1000	700	500	1/8 3/16	11 7	110 51	250 110	2.85:1	—	40 lb	14
M4032PB	1000 lb – marine duty with brake (for lifting)	1000	700	500	1/8 3/16	11 7	110 51	250 110	2.85:1	_	41 lb	18
M4042PBSS	1000 lb – stainless steel with brake (for lifting)	1000	800	600	1/8 3/16 1/4	12 8 5	110 48 27	240 110 59	3.83:1	(\$	46 lb single gear)	24
M4312	2000 lb – marine duty (for pulling only)	2000	1600	1200	3/16 1/4 5/16	8 5 4	48 27 17	110 59 39	3.83:1	14.7:1 (c	20 lb louble gear	23
M4312PB	2000 lb – marine duty with brake (for lifting)	2000	1600	1200	3/16 1/4 5/16	8 5 4	48 27 17	110 59 39	_	14.7:1 (c	17 lb louble gear	28)
M4312PBSS	2000 lb – stainless steel with brake (for lifting)	2000	1600	1200	3/16 1/4 5/16	8 5 4	48 27 17	110 59 39	_	14.7:1 (c	17 lb louble gear	28
M4412	2000 lb – marine duty (for pulling only)	2000	1600	1200	3/16 1/4 5/16	18 14 11	97 52 35	210 120 77	3.83:1	14.7:1 (c	20 lb louble gear	25)
M4412PB	2000 lb – marine duty with brake (for lifting)	2000	1600	1200	3/16 1/4 5/16	18 14 11	97 52 35	210 120 77	_	14.7:1 (c	17 lb louble gear	30)

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

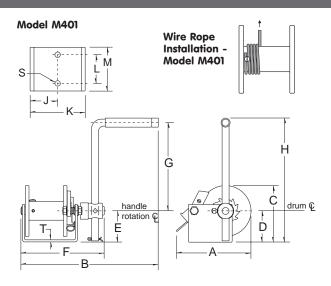
¹ For Models M4022, M4022PB, M4032, M4032PB ball end is available for 1/8 inch and 3/16 inch only.

For Models M4042PBSS, M4312, M4312PB, M4312PBSS, M4412, M4412PB ball end is available for 3/16 inch and 1/4 inch only.

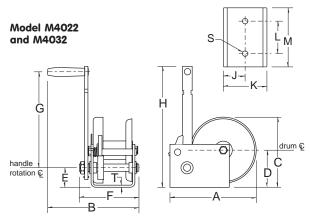
² Actual drum capacities may be 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.

³ Approximate handle force required to lift 1000 lb with an empty drum, and maximum handle length.

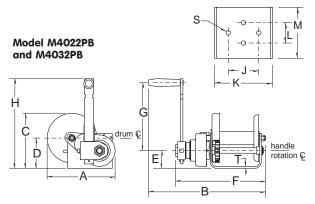
DIMENSIONS



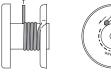
Model M4022 and M4022PB Base



Model M4032 and M4032PB Base



Wire Rope Installation -Models M4022, M4022PB, M4032 and M4032PB

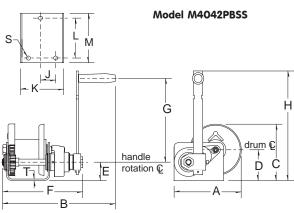




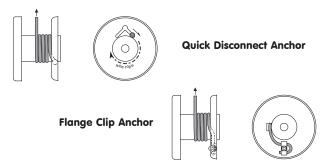


Quick Disconnect Anchor

Flange Clip Anchor



Wire Rope Installation - Models M4042PBSS



Spur Gear Hand Winches – Dimensions (in)

	M401	M4022	M4022PB	M4032	M4032PB	M4042PBSS				
drum dia.	1.50	1.50	1.50	1.50	1.50	2.50				
flange dia.	4.06	4.56	4.56	4.56	4.56	5.50				
drum width	2.75	2.00	2.00	4.00	4.00	3.00				
А	6.56	7.27	7.27	7.27	7.27	8.21				
В	10.56	9.00	12.12	11.00	14.12	13.77				
С	4.56	6.12	6.12	6.12	6.12	6.90				
D	2.50	3.31	3.31	3.31	3.31	3.75				
E	2.50	2.00	2.00	2.00	2.00	2.25				
F	5.81	5.25	8.12	7.25	10.12	9.76				
G ¹	8.50	11.03	10.59	11.03	10.59	10.59				
H^1	11.28	13.56	13.12	13.56	13.12	13.50				
J	2.19	1.84	1.84	3.00	3.00	1.44				
К	4.38	3.68	3.68	5.68	5.68	5.26				
L	2.50	2.82	2.82	2.00	2.00	5.00				
Μ	3.50	5.00	5.00	5.00	5.00	6.00				
S(hole dia.)) .40	.43	.43	.43	.43	.41				
Т	.18	.18	.18	.18	.18	.18				

Dimensions are for reference only and subject to change without notice. ¹ Models M401, M4022PB, M4032PB and M4042PBSS handles are adjustable, dimension shown is for maximum handle length.

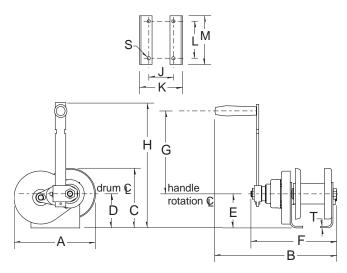
Important:

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.

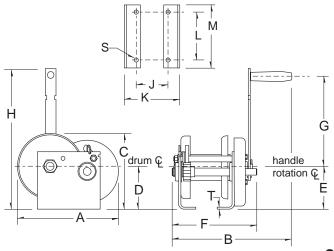
See Additional Dimensions on Next Page

DIMENSIONS

Models M4312PB, M4412PB and M4312PBSS



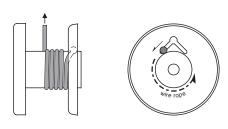
Models M4312 and M4412



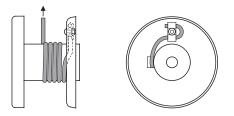


Important:

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. Wire Rope Installation - Models M4312, M4312PB, M4312PBSS, M4412 and M4412PB



Quick Disconnect Anchor



Flange Clip Anchor

				(,
	M4312	M4312PB	M4312PBSS	M4412	M4412PB
drum dia.	2.50	2.50	2.50	2.50	2.50
flange dia.	5.50	5.50	5.50	5.50	5.50
drum width	3.00	3.00	3.00	6.00	6.00
A	10.00	10.00	10.00	10.00	10.00
В	12.70	14.50	14.50	15.70	17.50
С	7.15	7.15	7.15	7.15	7.15
D	4.00	4.00	4.00	4.00	4.00
E	4.00	4.00	4.00	4.00	4.00
F	8.00	10.78	10.78	11.00	13.78
G ¹	8.75	10.59	10.59	8.75	10.59
H ¹	13.35	15.19	15.19	13.35	15.19
J	3.34	3.34	3.34	6.34	6.34
К	5.31	5.31	5.31	8.31	8.31
L	5.00	5.00	5.00	5.00	5.00
М	6.00	6.00	6.00	6.00	6.00
S (hole dia.)	.40	.40	.41	.40	.40
Τ́	.18	.18	.18	.18	.18

Dimensions are for reference only and subject to change without notice. ¹ Models M4312PB, M4312PBSS and M4412PB handles are adjustable, dimension shown is for maximum handle length.

M452 / M492 SERIES SPECS



Spur Gear Hand Winches Double Reduction

Up to 10,000 lb capacity

- Machine Cut Spur Gears for accurate and long lasting service.
- Automatic Brake Models provide positive load control for lifting and lowering operations.
 Brake models have B suffix.
- **Corrosion Resistant** durable paint finish combined with trivalent zinc plating protects against corrosion.
- Bronze and Radial Ball Bearings provide smooth and efficient operation.
- Large Diameter Drums minimize wear to extend wire rope life.
- Spring Loaded Ratchets for positive engagement with gear.
- Steel Gear Covers protect gears and help prevent injuries.
- Handles Adjust in length to change force required to move load.
- Two-year Limited Warranty

Spur Gear Hand Winches – Configurations and Performance Characteristics – Section 1

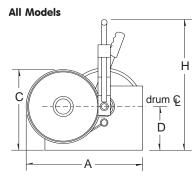
		loa	d ratin	g (lb)	wire	drum	capac	ity (ft) ¹	single	double	force ²	approx.
model number	description	1st layer		full drum	rope dia. (in)	1st layer	mid drum	full drum	gear ratio	gear ratio	to lift 1000 lb	ship wt. (lb)
M452	4000 lb – marine duty (for pulling only)	4000	3300	2500	1/4 5/16 3/8	23 18 14	130 89 64	300 200 140	4.42:1	19.54:1	10 lb (double gear)	83
M452B	4000 lb – marine duty with brake (for lifting)	4000	3300	2500	1/4 5/16 3/8	23 18 14	130 89 64	300 200 140	_	19.54:1	10 lb (double gear)	91
M452B-A	4000 lb – marine duty with brake (for lifting) 4 inch drum width	4000	3300	2500	1/4 5/16 3/8	13 9 7	83 56 40	190 120 89	—	19.54:1	10 lb (double gear)	83
M492	10,000 lb – marine duty (for pulling only)	10,000	7400	5400	5/16 3/8 1/2	27 21 15	240 170 100	540 390 230	5.00:1	25.00:1	8 lb (double gear)	166
M492B	10,000 lb – marine duty with brake (for lifting)	10,000	7400	5400	5/16 3/8 1/2	27 21 15	240 170 100	540 390 230	—	25.00:1	8 lb (double gear)	173
M492-12	10,000 lb – marine duty (for pulling only) 12 inch drum width	10,000	7400	5400	5/16 3/8 1/2	46 37 27	380 270 160	850 610 360	5.00:1	25.00:1	8 lb (double gear)	175
M492B-12	10,000 lb – marine duty with brake (for lifting) 12 inch drum width	10,000	7400	5400	5/16 3/8 1/2	46 37 27	380 270 160	850 610 360	_	25.00:1	8 lb (double gear)	190
MB451 MB491	disc brake only for M452 disc brake only for M492			or lifting	g)							13 15
HW452 HW492		hand wheel only for M452 (for pulling only) hand wheel only for M492 and M492-12 (for pulling only)										19 20

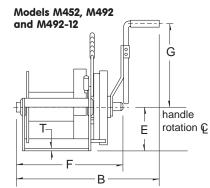
Please contact factory or nearest Thern Distributor for firm fixed price and delivery.

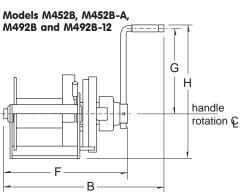
¹ Actual drum capacities may be 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.

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

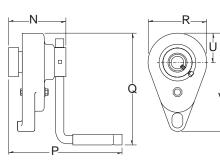
M452 / M492 DIMENSIONS



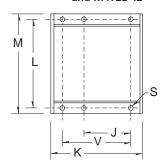


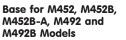


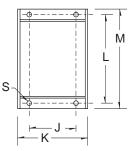
Models MB451 and MB491



Base for M492-12 and M492B-12







set screw

tions. Be sure to read the Owner's Manual supplied with the equipment

before operating it.

V

Wire Rope Installation - All Models



12.38

12.38

Spur Gear Hand Winches – Dimensions (in)

D!	Dualas Dias			Opur Gear Hand Whiches – Dimensions (in)									
DISC	Brakes – Dim	ensions (in)		M452	M452B	M452B-A	M492	M492B	M492-12	M492B-12			
	MB451	MB491	drum dia.	4.00	4.00	4.00	5.00	5.00	5.00	5.00			
N	4.97	5.15	flange dia.	8.50	8.50	8.50	12.38	12.38	12.38	12.38			
Ρ	10.44	10.62	drum width	6.38	6.38	4.00	7.62	7.62	12.00	12.00			
Q ¹	21.25	21.38	A	15.25	15.25	15.25	20.38	20.38	20.38	20.38			
R	4.87	4.87	В	22.00	21.90	19.62	25.12	25.00	29.50	29.38			
U	2.44	2.44	С	10.69	10.69	10.83	14.00	14.00	14.00	14.00			
V	8.62	10.56	D	5.81	5.81	5.81	7.50	7.50	7.50	7.50			
Dimens	ions are for reference	e only and are	E	5.81	5.81	5.81	7.50	7.50	7.50	7.50			
	to change without n		F	14.81	16.43	14.06	18.44	19.53	22.82	23.90			
¹ Handle	es are adjustable, di	mension shown is	G ¹	18.62	18.38	18.38	22.50	18.50	22.50	18.50			
for ma	ximum handle lengt	h.	H ¹	24.44	24.19	24.19	30.00	26.00	30.00	26.00			
			J	6.75	6.75	4.50	8.00	8.00	8.00	8.00			
Imp	ortant:		K	9.50	9.50	7.12	12.00	12.00	16.38	16.38			
			L	11.25	11.25	11.25	15.50	15.50	15.50	15.50			
	he owner's or operate		Μ	12.50	12.50	12.50	17.00	17.00	17.00	17.00			
	to determine the su ment to its intende		S (hole dia.)	.56	.56	.56	.81	.81	.81	.81			
	able codes, manua		T	.25	.25	.25	.38	.38	.38	.38			
applic	able coues, manue	ais, and regula-	N/						10.00	10.00			

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

¹ Handles are adjustable, dimension shown is for maximum handle length.

HAND WINCHES WORN 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												Gear		'ce²	Ann	TOY		
Description															Ratio				orox. o Wt.
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(in)	(mm)	(ft)	(m)	(ft)	(m)	(ft)	(m)		(lb)	(kg)	(lb)	(kg)
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					
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					
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					
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					
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 red	comme	ended f	or this	winch)							
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					
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					
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					
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					
	750 lb - open gears (recommended for pulling only) 1000 lb - enclosed gearing (recommended for pulling only) 1000 lb - enclosed gearing with brake (for lifting) 2000 lb - enclosed gearing (recommended for pulling only) 2000 lb - enclosed gearing (recommended for pulling only) 2000 lb - enclosed gearing with brake (for lifting) Drill Driveable 4000 lb - enclosed gearing (recommended for pulling only) 4000 lb - enclosed gearing with brake (for lifting) 4600 lb - enclosed gearing (for lifting) 4600 lb - enclosed gearing (recommended for pulling only) Up - enclosed gearing (for lifting) 4600 lb - enclosed gearing (recommended for pulling only) Up - enclosed gearing (for lifting) 4600 lb - enclosed gearing with brake (for lifting) 4600 lb - enclosed gearing with brake	Lat(b)750 lb - open gears(recommended for pulling only)1000 lb - enclosed gearing1000 lb - enclosed gearing with brake1000 lb - enclosed gearing with brake1000 lb - enclosed gearing2000 lb - enclosed gearing2000 lb - enclosed gearing of (recommended for pulling only)2000 lb - enclosed gearing with brake2000 lb - enclosed gearing with brake2000 lb - enclosed gearing with brake2000 lb - enclosed gearing with brake4000 lb - enclosed gearing4000 lb - enclosed gearing with brake4000 lb - enclosed gearing with brake4000 lb - enclosed gearing with brake4000 lb - enclosed gearing4600 lb - enclosed gearing4600 lb - enclosed gearing with brake4600 lb - enclosed gearing with brake	Layer(b)(kg)750 lb - open gears7501000 lb - enclosed gearing1000453453(recommended for pulling only)10001000 lb - enclosed gearing with brake1000453453(for lifting)20002000 lb - enclosed gearing20002000 lb - enclosed gearing with brake2000907(recommended for pulling only)2000 lb - enclosed gearing with brake2000907(recommended for pulling only)2000 lb - enclosed gearing with brake2000907(for lifting) Drill Driveable4000 lb - enclosed gearing with brake40004000 lb - enclosed gearing with brake40004600 lb - enclosed gearing46004600 lb - enclosed gearing46004600 lb - enclosed gearing with brake46004600 lb - enclosed gearing with brake46004600 lb - enclosed gearing with brake4600	LayerDr(lb)(kg)(lb)750 lb – open gears750340600(recommended for pulling only)1000 lb – enclosed gearing1000453700(recommended for pulling only)1000 lb – enclosed gearing with brake1000453700(for lifting)2000 lb – enclosed gearing only)2000 lb – enclosed gearing20009071700(recommended for pulling only)2000 lb – enclosed gearing with brake20009071500(for lifting)2000 lb – enclosed gearing with brake20009071500(for lifting) Drill Driveable400018142800(for lifting)4000 lb – enclosed gearing with brake400018142800(for lifting)4600 lb – enclosed gearing with brake460020863300(for lifting)4600 lb – enclosed gearing with brake460020863300(for lifting)4600 lb – enclosed gearing with brake460020863300	Layer Drum (lb) (kg) (kg) (kg) 750 lb - open gears 750 340 600 272 (recommended for pulling only) 1000 453 700 317 (recommended for pulling only) 1000 453 700 317 (recommended for pulling only) 1000 453 700 317 (for lifting) 2000 lb - enclosed gearing with brake 1000 453 700 317 (recommended for pulling only) 2000 b) - enclosed gearing 2000 907 1700 711 (recommended for pulling only) 2000 b) - enclosed gearing 4000 1814 2800 1270 (for lifting) Drill Driveable 4000 1814 2800 1270 4000 lb - enclosed gearing with brake 4000 1814 2800 1270 (for lifting) 4000 lb - enclosed gearing 4000 1814 2800 1270 (for lifting) 4600 0 1814 2800 1270	Layer Drum Dr (lb) (kg) (lb) (kg) (lb) (kg) (lb) 750 lb - open gears 750 340 600 272 400 (recommended for pulling only) 1000 453 700 317 500 1000 lb - enclosed gearing with brake 1000 453 700 317 500 (recommended for pulling only) 2000 lb - enclosed gearing 1000 453 700 317 500 (for lifting) 2000 lb - enclosed gearing with brake 2000 907 1700 771 1300 (recommended for pulling only) 2000 lb - enclosed gearing with brake 2000 907 1500 680 1200 2000 lb - enclosed gearing with brake 2000 907 1500 680 1200 (for lifting) Drill Driveable 4000 1814 2800 1270 2200 4000 lb - enclosed gearing with brake 4000 1814 2800 1270 2200 (for lifting) 4000 lb - enclosed	Layer Drum Drum (lb) (kg) (lb) (kg) (lb) (kg) 750 lb - open gears 750 340 600 272 400 181 (recommended for pulling only) 1000 453 700 317 500 226 (recommended for pulling only) 1000 453 700 317 500 226 (for lifting) 2000 lb - enclosed gearing 1000 453 700 317 500 226 (for lifting) 2000 lb - enclosed gearing 2000 907 1700 771 1300 589 (recommended for pulling only) 2000 907 1500 680 1200 544 (for lifting) Drill Driveable 4000 1814 2800 1270 2200 977 4000 lb - enclosed gearing with brake 4000 1814 2800 1270 2200 977 (for lifting) 1010 enclosed gearing with brake 4000 1814 2800 1270 200 9	Layer Drum D (lb) (kg) (ln) 1181 178 1000 lb - enclosed gearing 1000 453 700 317 500 226 178 1000 lb - enclosed gearing with brake 1000 453 700 317 500 226 178 1000 lb - enclosed gearing with brake 1000 453 700 317 500 226 178 2000 lb - enclosed gearing with brake 1000 453 700 317 500 226 178 2000 lb - enclosed gearing with brake 2000 907 1700 771 1300 589 3/16 2000 lb - enclosed gearing with brake 2000 907 1500 680 120 544 <td< td=""><td>Image: Layer Drum Drum Drum Dial 750 lb - 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Please contact factory or nearest Thern Distributor for firm fixed price and delivery.

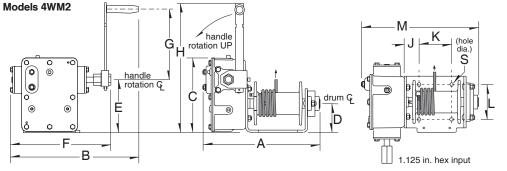
¹ Actual drum capacities may be 25-30% less, due to nonuniform winding. Wire rope tension will also affect drum capacity.

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



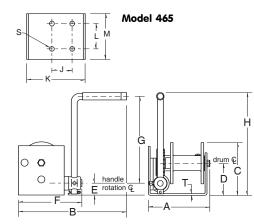


WORM GEAR HAND WINCHES



S

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



Wire Rope Installation

Wire Rope Installation Models 462 and 4622PB

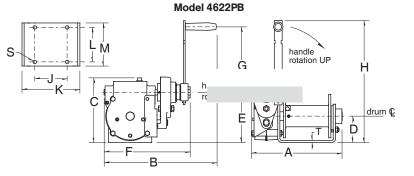
Wire Rope Installation

Model 472

Model 465

Models 462 and 472 L M G н ل بم handle K ♦ rotation C Ċ drum 🕻 Ο Е 0 b F

B



Worm Gear Hand Winches - Dimensions

	46	65	46	62	462	2PB	47	72	4W	M2
	(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
С	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
E	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
Μ	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
Т	.19	4.8	.19	4.8	.19	4.8	.25	6.3	-	-

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



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bolt

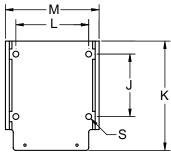
set

screw

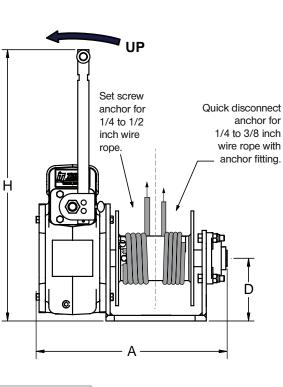
It is the owner or operator's responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals and regulations. Be sure to read the Owner's Manual supplied with the equipment before operating it.

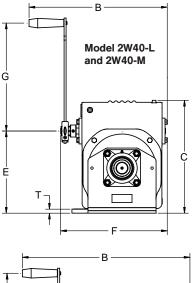


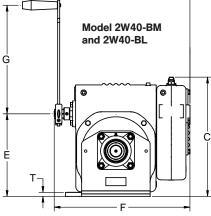
HAND WINCHES WORM GEAR



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







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

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								Drill Model: ED300-DW11					
Model	1st L	.ayer	Mid I	Drum	rum Full Drum		RPM	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 Them for this information.

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

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



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