5PT10 / 5PT20

Like a favorite tool in your toolbox, Thern Commander Series portable davit cranes are ideal for many applications. Their sturdy design makes them both affordable and easy-to-use.

> Model 5PT10-M1 Base 5BP10

ISO

9001:2008

Made in the USA

1200 lb and 2000 lb Capacity Portable Davit Cranes

- Portable
- Simple and affordable
- Quick-Mount Winch Bracket
- Roller Bearing for Easy 360° Rotation
- Manual or Power Winch Operation
- Five Corrosion-Resistant Finishes
- Easy, No-Tools Assembly/Disassembly
- Variety of Bases
- 2-Year Warranty



HAND / POWER / HYDRAULIC / AIR WINCHES • DAVIT CRANES Winona, MN USA | www.thern.com

COMMANDER SERIES

COMMANDER 1000



NEW FEATURES

D-SHAPED SHEAVE CLEVIS PIN

The sheave clevis pin is now D-Shaped to prevent the clevis pin from roating when under light loads.

QUICK-MOUNT WINCH BRACKET

A variety of Thern winches can be attached to the bracket. After a winch is attached to the bracket, the bracket is easily mounted (without tools) to the crane via quickconnect pins.

AUXILIARY ATTACHMENT HOLE

Allows for various load attachments or two part line configurations.

MAST CAP

A cap (not visible) on top of the mast now helps keep weather and debris out of mast.

ROTATION HANDLE

The new rotation handle position does not interfere with the operation of the boom angle adjustment ratchet jack.

BASE EXTENSION

The base extension is ideal for use with the flush mount or wall mount base options to maintain crane height for obstacle clearance or when additional 15" height is required.

BASE CAP

Steel base cap with lanyard, keeps water and debris out when crane is removed.

ROLLER/BALL BEARING

Optional on the Commander Series Davits, the specially designed roller/ball bearing at top of base requires no tools for installation. The roller/ball bearing allows smooth and easy 360° crane rotation under load.

STAINLESS STEEL LOCK

Stainless steel lock assembly keeps crane in position during winch operation and when not in use. Included with roller/ball bearing.

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

FEATURES AND BENEFITS

COMMANDER 2000



TRADITIONAL FEATURES

MANUAL OR POWER OPERATION

Thern davit cranes can be configured with a manual winch for short, infrequent lifts or a power winch for longer lifts or heavier loads. Choose from Thern's spur or worm gear hand winches or power winches with 115/1/60V as well as pneumatic, hydraulic or DC Volt power operation.

EASY ADJUSTABLE BOOM

Boom extends to four positions with quickrelease pin and adjusts angle with ratchet.

CORROSION RESISTANT FINISH

Electrostatic powder coated crane and stainless steel fasteners combine to resist corrosion in harsh environments. Other options available include: galvanized, stainless steel and epoxy finishes.

- EASY ASSEMBLY/DISASSEMBLY

Quick-release clevis style stainless steel pins allow for easy assembly and quick disassembly for transport or storage. No tools required.

QUICK DISCONNECT ANCHOR

For quickly attaching or removing wire rope equipped with a swaged ball fitting - Allows the operator to leave the wire rope attached to the load at all times and simply remove the rope from the winch and attach to the optional wire rope keeper or cable reel.

VARIETY OF BASES

Pedestal, flush and wall mount bases allow for a variety of mounting solutions and are easily installed to a variety of solid surfaces with anchor bolts or other fastening methods. Bases sold separately. Heavyduty base cap included with lanyard keeps water and debris out of base when crane is removed.

2 -YEAR WARRANTY

Industry-leading two-year limited warranty on all our products.



HAND AND POWER WINCHES

R COMMANDER

WINCHES

For Commander Series

SERIES



Hand Winches

Winch	Winch Model No.	Description	Finish	Approx. Ship Weight
M1	M4312PB-K	Spur gear hand winch with brake	Zinc Plated	28 lbs 12.7 kg
M2	4WM2-K	Worm gear hand winch with brake	Red Enamel	42 lbs 19.1 kg
M3	M4312PBSS-K	Stainless steel spur gear hand winch with brake	Stainless Steel	28 lbs 12.7 kg
M2X	4WM2EGRA-K	Worm gear hand winch with brake	Epoxy Paint (Gray)	42 lbs 19.1 kg

All hand winches include disc brake for load control and steel gear covers to protect gears and help prevent injuries. NOTE: Worm gear requires more turns with less effort than a spur gear winch.



Electric	Model No.	Line S	Speed	Finish	Power	Control	Арр	Approx.	
Winch	Model NO.	1st Layer	Full Drum	FilliSit	Fower	(Pendant)	Ship Weight		
E2	4WP2-K	8 fpm	13 fpm	Enamel Paint	115 Volt, AC, Single Phase	6 ft	85 lbs	39 kg	
E2X	4WP2EGRA-K	8 fpm	13 fpm	Epoxy Paint	115 Volt, AC, Single Phase	6 ft	85 lbs	39 kg	
E4	4777-K	13 fpm	22 fpm	Enamel Paint	115 Volt, AC Single Phase	6 ft	110 lbs	50 kg	
E4X	4777EGRA-K	13 fpm	22 fpm	Epoxy Paint	115 Volt, AC Single Phase	6 ft	110 lbs	50 kg	
E4DC	4777DC-K	13 fpm	22 fpm	Enamel Paint	12 Volt, DC	10 ft	105 lbs	48 kg	
E4DCX	4777DCEGRA-K	13 fpm	22 fpm	Epoxy Paint	12 Volt, DC	10 ft	105 lbs	48 kg	

All electric winches mount on boom via quick mount bracket and are equipped with internal break for load control.

BASES AND WIRE ROPE

R COMMANDER

SERIES

SS

BASES (sold separately) For Commander Series

For Commander Series

Select the appropriate base(s) for your application from the chart below. Matching your crane with multiple bases provides optimal worksite flexibility and an economical solution for servicing multiple lift stations.



*Ideal for use with flush or wall mount bases to retain crane mast height. (Use with other bases where additional height is needed.)

GAL WIRE ROPE Assembly (sold separately)

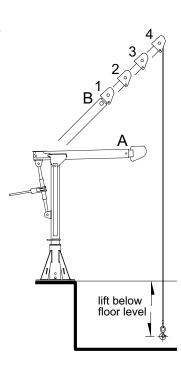
Wire Rope	Galvanized Ai	r Craft Cable	304 Stainles	s Steel Rope	316 Stainles	s Steel Rope
Length	3/16" Dia	1/4" Dia.	3/16" Dia.	1/4" Dia.	3/16" Dia.	1/4" Dia.
20 ft - 6 m	WA19-20NS	WA25-20NS	WS19-20NS	WS25-20NS	WSS19-20NS	WSS25-20NS
28 ft - 8.5 m	WA19-28NS	WA25-28NS	WS19-28NS	WS25-28NS	WSS19-28NS	WSS25-28NS
36 ft - 10.9 m	WA19-36NS	WA25-36NS	WS19-36NS	WS25-36NS	WSS19-36NS	WSS25-36NS
45 ft - 13.7 m	WA19-45NS	WA25-45NS	WS19-45NS	WS25-45NS	WSS19-45NS	WSS25-45NS
60 ft - 18.2 m	WA19-60NS	WA25-60NS	WS19-60NS	WS25-60NS	WSS19-60NS	WSS25-60NS
75 ft - 22.8 m	WA19-75NS	-	WS19-75NS	-	WSS19-75NS	-
90 ft - 27.4 m	WA19-90NS	-	WS19-90NS	-	WSS19-90NS	-

Thern winches and cranes are sold without wire rope. However, we carry top quality wire rope assemblies optimally designed for use with our winches and cranes. The assemblies above are equipped with a swaged ball fitting and swivel hook (Enamel w/Galvanized rope or Stainless Steel with SS rope)

COMMANDER 1000

Commander 1000 Lift Below Floor² Leve

	Lift E	Belov	v Flo	or ² Le	evel			M2					
			elow ¹ por			Rope eteter		Rope gth ³		Co	Winch nfiguratio	ons	
	Minimu	ım (B4)	Maxim	um (A1)					M1	M2	M3	E2	E4
	(ft)	(m)	(ft)	(m)	(in)	(mm)	(ft)	(m)					
	2	0.6	7	2.1	3/16	5	20	6.0	х	-	х	-	х
	10	3.0	15	4.5	3/16	5	28	8.5	х	-	Х	-	х
	18	5.4	23	7.0	3/16	5	36	10.9	х	-	х	-	х
	27	8.2	32	9.7	3/16	5	45	13.7	х	-	Х	-	х
	42	12.8	47	14.3	3/16	5	60	18.2	Х	-	Х	-	Х
	57	17.3	62	18.8	3/16	5	75	22.8	х	-	Х	-	х
	72	21.9	77	23.4	3/16	5	90	27.4	-	-	-	-	Х
ļ	2	0.6	7	2.1	1/4	6	20	6.0	Х	Х	Х	Х	Х
	10	3.0	15	4.5	1/4	6	28	8.5	х	х	х	Х	х
	18	5.4	23	7.0	1/4	6	36	10.9	х	х	х	Х	х
	27	8.2	32	9.7	1/4	6	45	13.7	х	х	х	Х	х
	42	12.8	47	14.3	1/4	6	60	18.2	-	х	-	Х	х
	2	0.6	7	2.1	5/16	8	20	6.0	Х	-	Х	-	Х
	10	3.0	15	4.5	5/16	8	28	8.5	Х	-	Х	-	Х
	18	5.4	23	7.0	5/16	8	36	10.9	Х	-	Х	-	Х
	27	8.2	32	9.7	5/16	8	45	13.7	-	-	-	-	Х



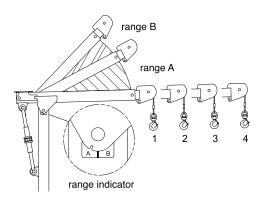
¹ Lift below floor level varies depending on boom position and base configuration. For longer lifts (Up to 350 ft), please contact factory.

² Performance Characteristics are for standard products referred to in this manual. Non-standard products may vary from the original design. Contact Them, Inc. for this information.

³ Wire rope assemblies include a hood and a swaged ball fitting to work with quick disconnect anchor on winches and 316SS wire rope is also available. Please contact the factory.

Commander 1000 Performance Ratings²

Boom	Load I	Rating	Hook	Reach	Hook Height		
Position A/B Range	(lb)	(kg)	(in)	(mm)	(in)	(mm)	
A-1	1000	453	36	914	42	1066	
A-2	800	362	46	1168	42	1066	
A-3	650	294	56	1422	42	1066	
A-4	550	249	66	1676	42	1066	
B-1	1200	544	22	558	64	1625	
B-2	950	430	29	736	71	1803	
B-3	750	340	36	914	78	1981	
B-4	650	294	43	1092	85	2159	



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

IMPORTANT:

1000

- **(**A)

(4)

72 in 1829 84 in

2134 mm mm

8

3

1000 lbs 800 lbs 650 lbs 550 lbs 453 kg 362 kg 294 kg 249 kg

B

650 lbs

8 750 lbs

8 950 lbs

kg 54

> 8 8

(1)(2)

hook reach

24 in 610 mm 36 in 914 mm 48 in 1219 mm 60 in 1524 mm

12 in

305 mm

MAST CENTER

LINE

1200 lbs

108 in 2743 mm

96 in 2438 mm

84 in 2134 mm

72 in

1829 mm

60 in

1524 mm

48 in

1219 mm

36 in

914 mm

24 in

610 mm

12 in

305 mm

hook

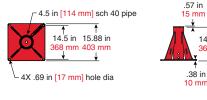
height

COMMANDER

Commander 1000 On Pedestal Base Upright Reach & Height Above Floor

Boom Position	Hook	Reach	Hook	Height
	(in)	(mm)	(in)	(mm)
A-1	36	914	42	1066
A-2	46	1168	42	1066
A-3	56	1422	42	1066
A-4	66	1676	42	1066
B-1	22	558	64	1625
B-2	20	736	71	1803
B-3	36	914	78	1981
B-4	43	1092	85	2159

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



Commander 1000 Pedestal Base 5BP10

5BP10	
5BP10G	

5BP10S 5BP10X 5BP10S316

14 38 in

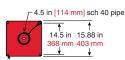
365 mm

¥

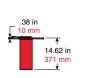
Commander 1000 on Flush or Wall-Mount Base **Reach & Height Above Floor**

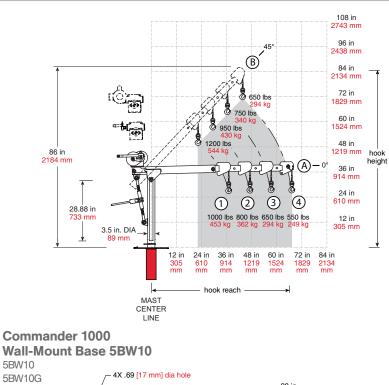
Boom Position	Hook	Reach	Hook Height			
	(in)	(mm)	(in)	(mm)		
A-1	36	914	28	711		
A-2	46	1168	28	711		
A-3	56	1422	28	711		
A-4	66	1676	28	711		
B-1	22	558	50	1270		
B-2	29	736	57	1447		
B-3	36	914	64	1625		
B-4	43	1092	71	1803		

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



└- 4X .69 in [17 mm] hole dia





14.5 in 15.88 in

368 mm 403 mm ¥

5BW10

100 in

2540 mm

28.88 in

733 mm

3.5 in. DIA

89 mm







Commander 1000

Flush Base 5BF10

5BF10

5BF10G

5BF10S

5BF10X

5BF10S316

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.

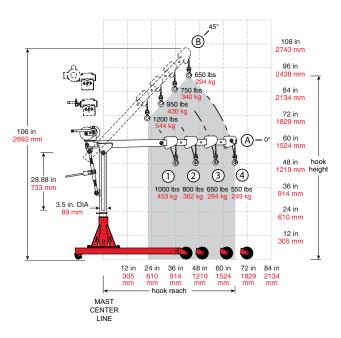
5BW10S

5BW10X

Commander 1000 on Wheel Base

COMMANDER 1000

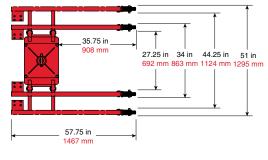




Commander 1000 Wheel Base Reach & Height Above Floor

in 5BR wheel base.

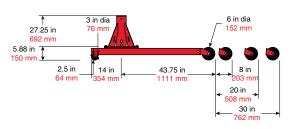
Boom Position	Hook	Reach	Hook	Height
	(in)	(mm)	(in)	(mm)
A-1	36	914	49	1244
A-2	46	1168	49	1244
A-3	56	1422	49	1244
A-4	66	1676	49	1244
B-1	22	558	71	1803
B-2	29	736	78	1981
B-3	36	914	85	2159
B-4	43	1092	92	2336



Commander 1000 Wheel Base Load Ratings

Boom Position	Leg Pos 1		Leg Pos 2		Leg Pos 3		Leg Pos 4	
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)
A/B-1								
A/B-2				SEE LO) Ad rati	NGS ON C	RANE	
A/B-3	DO NO	DT USE						
A/B-4	DO NO)T USE						

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



Commander 2000

5PT20 Lift Below Floor²Level

SF120 LIT DEIOW I												
Lift Below ¹ Floor			Wire Rope Wire Rope Diameteter Length ³				Winch Configurations					
n (B4)	Maximu	m (A1)					M1	M2	M3	E2	E4	
(m)	(ft)	(m)	(in)	(mm)	(ft)	(m)						
0.0	5	1.5	3/16	5	20	6.0	х	-	х	-	х	
2.4	13	3.9	3/16	5	28	8.5	Х	-	х	-	х	
4.8	21	6.4	3/16	5	36	10.9	х	-	х	-	х	
7.6	30	9.1	3/16	5	45	13.7	х	-	х	-	х	
12.1	45	13.7	3/16	5	60	18.2	Х	-	х	-	х	
16.7	60	18.2	3/16	5	75	22.8	Х	-	х	-	х	
21.3	75	22.8	3/16	5	90	27.4	Х	-	Х	-	Х	
0.0	5	1.5	1/4	6	20	6.0	Х	х	х	Х	х	
2.4	13	3.9	1/4	6	28	8.5	Х	Х	Х	Х	Х	
4.8	21	6.4	1/4	6	36	10.9	Х	х	х	Х	х	
7.6	30	9.1	1/4	6	45	13.7	Х	х	х	Х	х	
12.1	45	13.7	1/4	6	60	18.2	-	х	-	Х	х	
0.0	5	1.5	5/16	8	20	6.0	Х	-	х	-	х	
3.0	15	4.5	5/16	8	30	9.1	Х	-	Х	-	Х	
4.8	21	6.4	5/16	8	36	10.9	Х	-	Х	-	Х	
7.6	30	9.1	5/16	8	45	13.7	-	-	-	-	Х	
	Lift Be (m) 0.0 2.4 4.8 7.6 12.1 16.7 21.3 0.0 2.4 4.8 7.6 12.1 16.7 21.3 0.0 2.4 4.8 7.6 12.1 0.0 2.4 4.8 7.6 12.1 1.5 0.0 2.4 4.8 7.6 12.1 1.5 0.0 2.4 4.8 7.6 12.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	Lift BUN 1 (M) Maximu (M) (ft) 0.0 5 2.4 13 4.8 21 7.6 30 12.1 45 16.7 60 21.3 75 0.0 5 2.4 13 4.8 21 0.0 5 12.1 45 0.0 15 3.0 5 3.0 15 4.8 21	Lift Below 1 Floor Maximum (A1) (m) (m) (m) (ft) (m) 0.0 5 1.5 2.4 13 3.9 4.8 21 6.4 7.6 30 9.1 12.1 45 13.7 16.7 60 18.2 21.3 75 22.8 0.0 5 1.5 2.4 13 3.9 4.8 21 6.4 7.6 30 9.1 12.1 45 13.7 0.0 5 1.5 2.4 13 3.9 4.8 21 6.4 7.6 30 9.1 12.1 45 13.7 0.0 5 1.5 3.0 15 4.5 3.0 15 4.5 4.8 21 6.4	Lift Below 1 Floor Wire Diam (B4) Maximum (A1) (m) (ft) (m) (in) 0.0 5 1.5 3/16 2.4 13 3.9 3/16 2.4 13 3.9 3/16 2.4 13 3.9 3/16 4.8 21 6.4 3/16 12.1 45 13.7 3/16 16.7 60 18.2 3/16 21.3 75 22.8 3/16 21.3 75 22.8 3/16 0.0 5 1.5 1/4 2.4 13 3.9 1/4 2.4 13 3.9 1/4 4.8 21 6.4 1/4 12.1 45 13.7 1/4 12.1 45 13.7 1/4 0.0 5 1.5 5/16 3.0 15 4.5 5/16 3.0	Wire $\mbox{Pieper 1}$ Wire $\mbox{Pieper 2}$ (B4) Maximum (A1) (mm) (m) (ft) (m) (in) (mm) 0.0 5 1.5 3/16 5 2.4 13 3.9 3/16 5 2.4 13 3.9 3/16 5 4.8 21 6.4 3/16 5 7.6 30 9.1 3/16 5 12.1 45 13.7 3/16 5 16.7 600 18.2 3/16 5 21.3 75 22.8 3/16 5 0.0 5 1.5 1/4 6 2.4 13 3.9 1/4 6 2.4 13 3.9 1/4 6 2.4 13 3.9 1/4 6 4.8 21 6.4 1/4 6 12.1 45 13.7 1/4	Wire Diameter Wire Lense If the low 1 Wire Diameter Wire Lense (G84) Maximum (A1) (in) (mm) (ft) (m) (in) (mm) (ft) 0.0 5 1.5 3/16 5 20 2.4 13 3.9 3/16 5 28 4.8 21 6.4 3/16 5 36 7.6 30 9.1 3/16 5 60 12.1 45 13.7 3/16 5 90 0.0 5 1.5 1/4 6 28 13.7 3/16 5 90 90 0.0 5 1.5 1/4 6 28 4.8 21 6.4 1/4 6 36 7.6 30 9.1 1/4 6 36 12.1 45 13.7 1/4 6 60 2.1 45 </td <td>Wire $\operatorname{Cope}_{\operatorname{Lenyth}^3}$Wire $\operatorname{Rope}_{\operatorname{Lenyth}^3}$Lift BelovMaximum (A1)Wire (m)$\operatorname{(Im)}^{(mm)}(mm)\operatorname{(Im)}^{(mm)}$$\operatorname{(Im)}^{(mm)}$$\operatorname{(Im)}^{(mm)}$(m)(ft)(m)(in)(mm)(ft)(m)0.051.53/165206.02.4133.93/165288.54.8216.43/1653610.97.6309.13/1656018.216.76018.23/1656018.216.76018.23/1659027.40.051.51/46288.54.8216.41/463610.97.6309.11/463610.97.6309.11/46288.54.8216.41/463610.97.6309.11/463610.97.6309.11/463610.97.6309.11/463610.97.6309.11/463610.97.6309.11/463018.20.051.55/168309.14.8216.45/1683610.9</td> <td>Wire Rope DiameterWire Rope Length 3If the Rope IcovMaximum (A1)Wire (A1)Maximum (A1)M1(m)(ft)(m)(in)(mm)(ft)(m)0.051.53/165206.0x2.4133.93/165288.5x4.8216.43/1653610.9x7.6309.13/1656018.2x12.14513.73/1656018.2x16.76018.23/1659027.4x0.051.51/46288.5x4.8216.41/463610.9x7.6309.11/463610.9x21.37522.83/1659027.4x0.051.51/46288.5x4.8216.41/463610.9x12.14513.71/464513.7x12.14513.71/466018.2-0.051.55/168206.0x3.0154.55/168309.1x4.8216.45/1683610.9x</td> <td>Wire Rope Diameter Wire Rope Length 3 Contrastic (m) (Maximum (A1) (m) (in) (mm) (ff) (m) M2 (m) (ff) (m) (in) (mm) (ff) (m) M2 0.0 5 1.5 3/16 5 20 6.0 x - 2.4 13 3.9 3/16 5 28 8.5 x - 4.8 21 6.4 3/16 5 36 10.9 x - 7.6 30 9.1 3/16 5 60 18.2 x - 12.1 45 13.7 3/16 5 60 18.2 x - 12.1 45 13.7 3/16 5 90 27.4 x - 12.1 45 1.5 1/4 6 28 8.5 x x 0.0 5 1.5 1/4</td> <td>Lift Below 1 FloorWire Rope DiameteterWire Rope Length 3Wire Rope Length 3Wire Rope Configuration(R4)Maximum (A1)(m)(m)(m)(m)(m)(m)M1M2M3(m)(ft)(m)(m)(m)(ft)(m)(m)M1M2M3(m)(ft)(m)(m)(ft)(m)(m)$M1$M2M3(m)(ft)(m)(ft)(m)(ft)(m)$M1$M2M3(m)(ft)(m)(ft)(m)(ft)(m)$M1$M2M3(0.051.53/165206.0x$-$x4.8216.43/1653610.9x$-$x12.14513.73/1656018.2x$-$x16.76018.23/1659027.4x$-$x16.76018.23/1659027.4x$-$x21.37522.83/1659027.4x$-$xx24.4133.91/46288.5xxxx24.4133.91/463610.9xxxx24.4133.91/463610.9xxxx12.145<td>Wire Rope Diameter Wire Rope Length³ Wire Rope Configurations Wire Kope Configurations $M4x$ Maximum (A1) M M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 2.4 13 3.9 3/16 5 20 6.0 x - x - 4.8 21 6.4 3/16 5 36 10.9 x - x - 12.1 45 13.7 3/16 5 90 27.4 x x x - 13</td></td>	Wire $\operatorname{Cope}_{\operatorname{Lenyth}^3}$ Wire $\operatorname{Rope}_{\operatorname{Lenyth}^3}$ Lift Belov Maximum (A1)Wire (m) $\operatorname{(Im)}^{(mm)}$ (mm) $\operatorname{(Im)}^{(mm)}$ $\operatorname{(Im)}^{(mm)}$ $\operatorname{(Im)}^{(mm)}$ (m)(ft)(m)(in)(mm)(ft)(m)0.051.53/165206.02.4133.93/165288.54.8216.43/1653610.97.6309.13/1656018.216.76018.23/1656018.216.76018.23/1659027.40.051.51/46288.54.8216.41/463610.97.6309.11/463610.97.6309.11/46288.54.8216.41/463610.97.6309.11/463610.97.6309.11/463610.97.6309.11/463610.97.6309.11/463610.97.6309.11/463018.20.051.55/168309.14.8216.45/1683610.9	Wire Rope DiameterWire Rope Length 3If the Rope IcovMaximum (A1)Wire (A1)Maximum (A1)M1(m)(ft)(m)(in)(mm)(ft)(m)0.051.53/165206.0x2.4133.93/165288.5x4.8216.43/1653610.9x7.6309.13/1656018.2x12.14513.73/1656018.2x16.76018.23/1659027.4x0.051.51/46288.5x4.8216.41/463610.9x7.6309.11/463610.9x21.37522.83/1659027.4x0.051.51/46288.5x4.8216.41/463610.9x12.14513.71/464513.7x12.14513.71/466018.2-0.051.55/168206.0x3.0154.55/168309.1x4.8216.45/1683610.9x	Wire Rope Diameter Wire Rope Length 3 Contrastic (m) (Maximum (A1) (m) (in) (mm) (ff) (m) M2 (m) (ff) (m) (in) (mm) (ff) (m) M2 0.0 5 1.5 3/16 5 20 6.0 x - 2.4 13 3.9 3/16 5 28 8.5 x - 4.8 21 6.4 3/16 5 36 10.9 x - 7.6 30 9.1 3/16 5 60 18.2 x - 12.1 45 13.7 3/16 5 60 18.2 x - 12.1 45 13.7 3/16 5 90 27.4 x - 12.1 45 1.5 1/4 6 28 8.5 x x 0.0 5 1.5 1/4	Lift Below 1 FloorWire Rope DiameteterWire Rope Length 3Wire Rope Length 3Wire Rope Configuration(R4)Maximum (A1)(m)(m)(m)(m)(m)(m)M1M2M3(m)(ft)(m)(m)(m)(ft)(m)(m)M1M2M3(m)(ft)(m)(m)(ft)(m)(m) $M1$ M2M3(m)(ft)(m)(ft)(m)(ft)(m) $M1$ M2M3(m)(ft)(m)(ft)(m)(ft)(m) $M1$ M2M3(0.051.53/165206.0x $-$ x4.8216.43/1653610.9x $-$ x12.14513.73/1656018.2x $-$ x16.76018.23/1659027.4x $-$ x16.76018.23/1659027.4x $-$ x21.37522.83/1659027.4x $-$ xx24.4133.91/46288.5xxxx24.4133.91/463610.9xxxx24.4133.91/463610.9xxxx12.145 <td>Wire Rope Diameter Wire Rope Length³ Wire Rope Configurations Wire Kope Configurations $M4x$ Maximum (A1) M M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 2.4 13 3.9 3/16 5 20 6.0 x - x - 4.8 21 6.4 3/16 5 36 10.9 x - x - 12.1 45 13.7 3/16 5 90 27.4 x x x - 13</td>	Wire Rope Diameter Wire Rope Length ³ Wire Rope Configurations Wire Kope Configurations $M4x$ Maximum (A1) M M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 (m) (ft) (m) (in) (mm) (ft) (m) M1 M2 M3 E2 2.4 13 3.9 3/16 5 20 6.0 x - x - 4.8 21 6.4 3/16 5 36 10.9 x - x - 12.1 45 13.7 3/16 5 90 27.4 x x x - 13	

¹ Lift below floor level varies depending on boom position and base configuration. For longer lifts, please contact factory.

² Performance Characteristics are for standard products referred to in this manual. Non-standard products may vary from the original design. Contact Thern, Inc. for this information.

³ Wire rope assemblies include a hood and a swaged ball fitting to work with quick disconnect anchor on winches and 316SS wire rope is also available. Please contact the factory.

Commander 2000

5PT20 Performance Ratings²

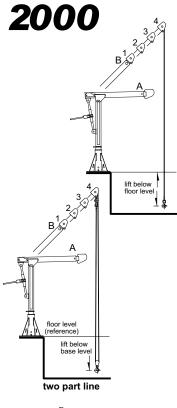
			0							
Boom Position A/B	1st Layer Load Rating		Mid-Drum Load Rating		Full Drum Load Rating		Hook Reach		Hook Height	
Range	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(in)	(mm)	(in)	(mm)
A-1	2000	907	1500	680	1200	544	46	1168	43	1092
A-2	1600	725	1500	680	1200	544	58	1473	43	1092
A-3	1300	589	1300	589	1200	544	70	1778	43	1092
A-4	1100	498	1100	498	1100	498	82	2082	43	1092
B-1	2000	907	1500	680	1200	544	28	711	71	1803
B-2	1900	861	1500	680	1200	544	36	914	80	2032
B-3	1500	680	1500	680	1200	544	45	1143	88	2235
B-4	1300	589	1300	589	1200	544	53	1346	97	2463

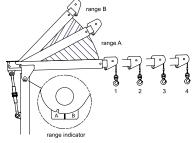
Commander 2000 5PT20 Ratings² with 2-Part Line Kit

3										
Boom Position	1st Layer Load Rating		Mid-Drum Load Rating		Full Drum Load Rating		Hook Reach		Hook Height	
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(in)	(mm)	(in)	(mm)
A-1	2000	907	2000	907	2000	907	43	1092	31	787
A-2	1600	725	1600	725	1600	725	55	1397	31	787
A-3	1300	589	1300	589	1300	589	67	1701	31	787
A-4	1100	498	1100	498	1100	498	79	2006	31	787
B-1	2400	1088	2400	1088	2400	1088	27	685	59	1498
B-2	1900	861	1900	861	1900	861	35	889	68	1727
B-3	1500	680	1500	680	1500	680	44	1117	76	1930
B-4	1300	589	1300	589	1300	589	52	1320	85	2159

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







2000

120 in 3048 mm

108 in

14

Commander 2000 On Pedestal Base Upright Reach & Height Above Floor

Boom Position	Hook	Reach	Hook Height		
	(in)	(mm)	(in)	(mm)	
A-1	46	1168	43	1092	
A-2	58	1473	43	1092	
A-3	70	1778	43	1092	
A-4	82	2082	43	1092	
B-1	28	711	71	1803	
B-2	36	914	80	2032	
B-3	45	1143	88	2235	
B-4	53	1346	97	2463	

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





5BP20FGRA

Commander 2000 Pedestal Base 5BP20

5BP20	5BP20S
5BP20G	5BP20S316

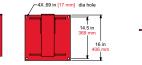
Commander 2000 on Flush or Wall-Mount Base **Reach & Height Above Floor**

Boom Position	Hook Reach		Hook	Height
	(in)	(mm)	(in)	(mm)
A-1	46	1168	29	736
A-2	58	1473	29	736
A-3	70	1778	29	736
A-4	82	2082	29	736
B-1	28	711	57	1447
B-2	36	914	66	1676
B-3	45	1143	74	1879
B-4	53	1346	83	2108

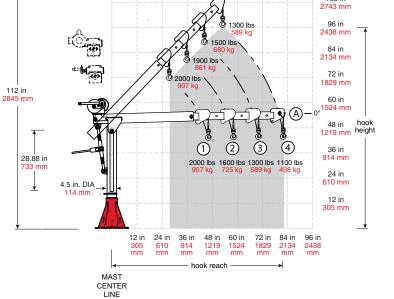
Dimensions are for reference only and subject to change without notice.

Commander 2000 Wall-Mount Base 5BW20 5BW20 5BW20G 5BW20S 5BW20S316 5BW20EGRA

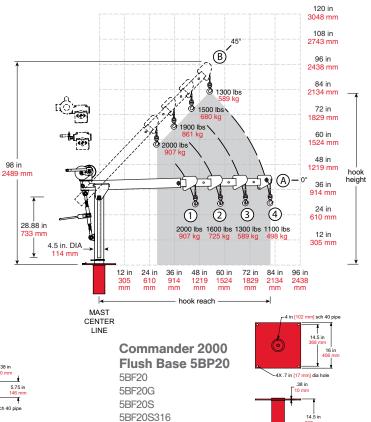
IMPORTANT:







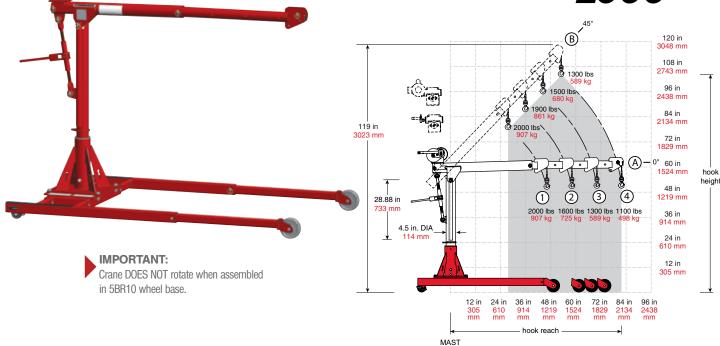
(B)



5BF20EGRA

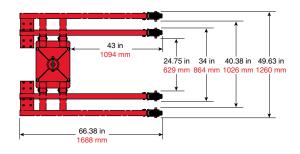
Commander 2000 on Wheel Base

COMMANDER 2000



Commander 2000 Wheel Base Reach & Height Above Floor

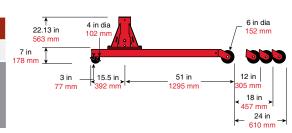
Boom Position	Hook	Reach	Hook Height		
	(in)	(mm)	(in)	(mm)	
A-1	46	1168	50	1270	
A-2	58	1473	50	1270	
A-3	70	1778	50	1270	
A-4	82	2082	50	1270	
B-1	28	711	78	1981	
B-2	36	914	87	2209	
B-3	45	1143	95	2413	
B-4	53	1346	104	2641	



CENTER

Commander 2000 Wheel Base Load Ratings

Boom Position	Leg I	Pos 1	Leg l	Pos 2	Leg	Pos 3	Leg F	Pos 4
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)
A/B-1								
A/B-2	DO NO	T USE	SEE LOAD RATINGS ON CRANE					
A/B-3	DO NO	T USE		SEE LI		NUS UN L	ANE	
A/B-4		DO NO	T USE					



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



ACCESSORIES AND OPTIONS

Accessories for Commander Series

Item	Part Number		Description
Roller/Ball Bearing	5PT10BRG 5PT10BRG-G 5PT10BRG-S 5PT10BRG-S316	5PT20BRG 5PT20BRG-G 5PT20BRG-S 5PT20BRG-S316	Red electrostatic powder coat paint finish - Good Galvanized finish provides extra corrosion protection - Better 304 Stainless steel electro-polished finish for added protection - Best 316 Stainless steel electro-polished finish for a higher level of protection - Premium
Base Anchor Kit	AN50A-5S AN50A-5S316 AN62A-6 AN62A-6S AN62A-6S316		 4 Hilti 304 Stainless Steel fasteners .500 X 5.50 SST304 KB-TZ 4 Hilti 316 Stainless Steel fasteners .500 X 5.50 SST316 KB-TZ 4 Hilti Steel fasteners .625 X 6.00 STL KB-TZ 4 Hilti 304 Stainless Steel fasteners .625 X 6.00 SST304 KB-TZ 4 Hilti 316 Stainless Steel fasteners .625 X 6.00 SST316 KB-TZ
Drill-Drive Kit	ED300-DW11		120 VAC, 11.5 amp, 300rpm drill-motor to power drive the hand winch. Only available for cranes configured with the M2 winch option. Includes $1-1/8$ " hex drive socket.
Cable Spooler	RW50		316 stainless steel reel winds up wire rope when detached from crane.
Headache Ball	HB10-12-25 HB10-25-38 HB10S-12-25 HB10S-25-38		Red Painted 10lb fits 3/16" to 1/4" Rope Red Painted 10lb fits 1/4" to 3/8" Rope Stainless Steel 10lb fits 3/16" to 1/4" Rope Stainless Steel 10lb fits 1/4" to 3/8" Rope
Wire Rope Keeper	RK19-25S RK19-25S316		Stainless steel bracket attaches to base or other structure to hold free end of the wire rope when detached from the crane.

Additional Options for Commander Series

Thern offers a variety of additional options you can choose to enhance your davit crane.

FACTORY LOAD TEST

Upon request, Thern can test your crane prior to shipping, up to 125% of rated load.

• EXTENDED 5-YEAR WARRANTY

Extend our standard 2-year warranty to 5 years .

- **PE STAMP PROFESSIONAL ENGINEER STAMP** Available upon request at time of order.
- CE MARK

Available upon request at time of order, CE mark for products sold into the European union.

ATEX CLASSIFICATION

Specially rated for use in explosive settings. Available upon request at time of order.

POWER WINCH OPERATION

AC electric in any voltage. DC electric, hydrualic and pneumatic power winches available.

CUSTOM ELECTRIC CONTROLS

Thern can build the high quality controls you need to operate your equipment.

- DRILL-DRIVEABLE WINCH
- A worm gear hand winch is also available for operation with a 400 rpm max drill motor option.
- LIMIT SWITCH

Add an emergency safety shut-off to ensure safe operation.

Customization

Customization is available for almost all Thern products and should always be performed by our engineers to assure the changes meet our stringent quality standards. Below are some of our more common customization requests. Only factory modifications are covered under warranty.

- LONGER LIFT DISTANCES
 Customized winch and crane configurations to accommodate longer lifts.
- CUSTOM COLORS & FINISHES
 Custom colors and finishes are available to match your unique application
- EXTENDED BOOM AND MASTS Them can extend mast heights and boom lengths to fit your needs
- **RELOCATE THE WINCH** The winch can be relocated to fit confined spaces or height restrictions
- SPECIAL BASES

Custom bases or mounting requirements can be manufactured to meet your unique situation

Thern, Incorporated Corporate Headquarters 5712 Industrial Park Road Winona, MN USA 1-800-843-7648 Phone: 1-507-454-2996 www.thern.com Thern Europe Windmolen 22 7609 NN Almelo Netherlands Phone: +31-548-659-052 europe@therneurope.eu



