

# 5PT10 / 5PT20

## **COMMANDER** SERIES

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.



1200 lb and (544 / 907 kg)  
2000 lb Capacity  
Portable Davit Cranes

- Portable
- Rugged 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



Model 5PT10-M1  
Base 5BP10



HAND / POWER / HYDRAULIC / AIR WINCHES • DAVIT CRANES

Winona, MN USA | [www.thern.com](http://www.thern.com)

# COMMANDER SERIES

## NEW FEATURES

### 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 quick-connect 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 helps keep weather and debris out of the mast.

### ROTATION HANDLE

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

### BASE EXTENSION

The optional 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" (381 mm) height is required.

### BASE CAP

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

### ROLLER/BALL BEARING

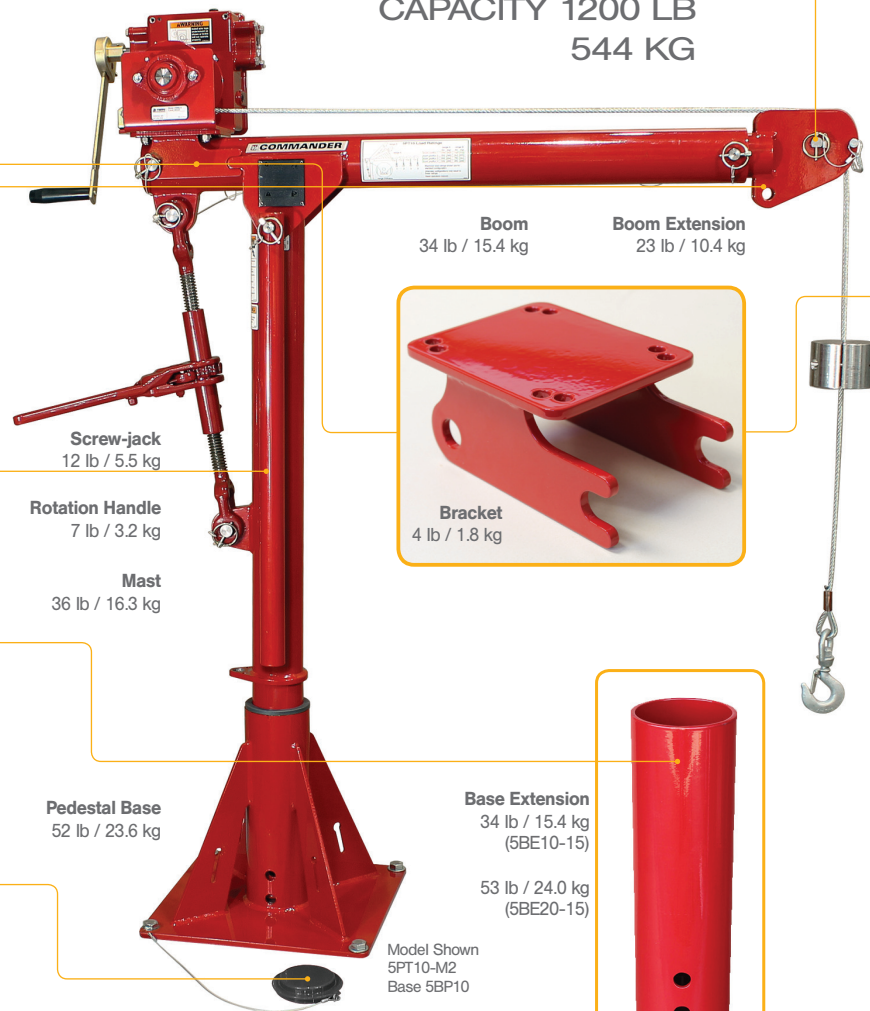
Optional on the Commander Series Davits, the specially designed roller/ball bearing at top of base requires no tools for installation. The roller/ball bearing allows smooth and easy 360° crane rotation under load.

### STAINLESS STEEL LOCK

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

## **COMMANDER** **1000**

SERIES 5PT10  
CAPACITY 1200 LB  
544 KG

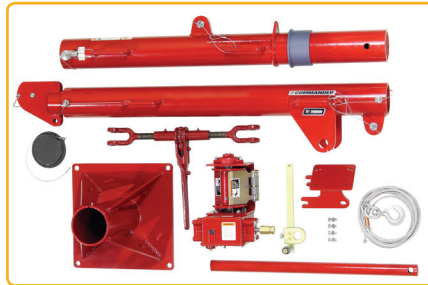


Thern products are not for lifting people or things over people.

# FEATURES AND BENEFITS

## **COMMANDER 2000**

SERIES 5PT20  
CAPACITY 2000 LB  
907 KG



Swaged Ball  
Fitting



Wire Rope  
Keeper



Wire Rope  
Cable Reel



Pedestal



Flush Mount



Wall Mount



Wheel Base

## 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 (230V) as well as pneumatic, hydraulic or DC Volt power operation.

### EASY ADJUSTABLE BOOM

Boom extends to four positions with quick-release 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. 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.



# CRANES AND WINCHES

## **COMMANDER** SERIES

### FINISHES

#### Crane Finishes for Commander Series

All cranes come standard with Electrostatic Powder Coat red finish. Four optional finishes also offered are Galvanized, 304 or 316 Stainless Steel, and corrosion-resistant Epoxy. Custom colors are available per customer request - Please contact factory.



powder coat



galvanized



3 part epoxy



304 stainless steel



316 stainless steel

| Finish              | Code | Model Number |           | Options        | Description                                                    |
|---------------------|------|--------------|-----------|----------------|----------------------------------------------------------------|
|                     |      | CMDR 1000    | CMDR 2000 |                |                                                                |
| Powder Coat (Red)   | -    | 5PT10        | 5PT20     | Standard N/C   | Red electrostatic powder coating applied to all cranes - Good  |
| Galvanized          | G    | 5PT10G       | 5PT20G    | Optional/Extra | An economical choice that provides extra protection - Better   |
| Epoxy (Gray)        | X    | 5PT10X       | 5PT20X    | Optional/Extra | 3-part epoxy is impact, fire, water, and slip-resistant - Best |
| 304 Stainless Steel | S    | 5PT10S       | 5PT20S    | Optional/Extra | Electro-polished for added protection - Premium                |
| 316 Stainless Steel | S316 | 5PT10S316    | 5PT20S316 | Optional/Extra | A higher level of corrosion protection - Ultimate              |

### WINCHES

#### For Commander Series

#### Hand Winches



| Winch | Winch Model No. | Description                                     | Finish             | Approx. Ship Weight |         |
|-------|-----------------|-------------------------------------------------|--------------------|---------------------|---------|
| M1    | M4312PB-K       | Spur gear hand winch with brake                 | Zinc Plated        | 27 lbs              | 13 kg   |
| M2    | 4WM2-K          | Worm gear hand winch with brake                 | Red Enamel         | 42 lbs              | 19.1 kg |
| M2X   | 4WM2EGRA-K      | Worm gear hand winch with brake                 | Epoxy Paint (Gray) | 42 lbs              | 19.1 kg |
| M3    | M4312PBSS-K     | Stainless steel spur gear hand winch with brake | Stainless Steel    | 27 lbs              | 13 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 Winches

| Electric Winch | Model No.    | Line Speed |           | Finish       | Power                      | Control (Pendant) | Approx. Ship Weight |       |
|----------------|--------------|------------|-----------|--------------|----------------------------|-------------------|---------------------|-------|
|                |              | 1st Layer  | Full Drum |              |                            |                   |                     |       |
| 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             | 124 lbs             | 57 kg |
| E4XDC          | 4777DCEGRA-K | 13 fpm     | 22 fpm    | Epoxy Paint  | 12 Volt, DC                | 10 ft             | 124 lbs             | 57 kg |



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



# BASES AND WIRE ROPE

## **COMMANDER** SERIES

### **BASES** (sold separately) **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.



| Finish                  | Pedestal         |                  | Flush            |                  | Wall             |                  | Wheel              |                    | Extension*       |                  |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|------------------|------------------|
|                         | 5PT10            | 5PT20            | 5PT10            | 5PT20            | 5PT10            | 5PT20            | 5PT10              | 5PT20              | 5PT10            | 5PT20            |
| Powder Coat Paint       | 5BP10            | 5BP20            | 5BF10            | 5BF20            | 5BW10            | 5BW20            | 5BR10              | 5BR20              | 5BE10-15         | 5BE20-15         |
| Galvanized              | 5BP10G           | 5BP20G           | 5BF10G           | 5BF20G           | 5BW10G           | 5BW20G           | —                  | —                  | 5BE10-15G        | 5BE20-15G        |
| 304 Stainless Steel     | 5BP10S           | 5BP20S           | 5BF10S           | 5BF20S           | 5BW10S           | 5BW20S           | —                  | —                  | 5BE10-15S        | 5BE20-15S        |
| 316 Stainless Steel     | 5BP10S316        | 5BP20S316        | 5BF10S316        | 5BF20S316        | 5BW10S316        | 5BW20S316        | —                  | —                  | 5BE10-15S316     | 5BE20-15S316     |
| Epoxy Paint             | 5BP10X           | 5BP20X           | 5BF10X           | 5BF20X           | 5BW10X           | 5BW20X           | 5BR10X             | 5BR20X             | 5BE10-15X        | 5BE20-15X        |
| Approximate Ship Weight | 56 lbs (25.4 kg) | 71 lbs (32.2 kg) | 47 lbs (21.3 kg) | 62 lbs (28.1 kg) | 52 lbs (23.6 kg) | 72 lbs (32.7 kg) | 238 lbs (108.0 kg) | 351 lbs (159.2 kg) | 33 lbs (14.9 kg) | 53 lbs (24.0 kg) |

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

### **WIRE ROPE Assembly** (sold separately) **For Commander Series**



| Wire Rope Length   | Galvanized Aircraft Cable |                     | 304 Stainless Steel Rope |                     | 316 Stainless Steel Rope |                     |
|--------------------|---------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|
|                    | 3/16" (5mm) Diameter      | 1/4" (6mm) Diameter | 3/16" (5mm) Diameter     | 1/4" (6mm) Diameter | 3/16" (5mm) Diameter     | 1/4" (6mm) Diameter |
| Wire Rope Ratings* | 1200 lbs (544 kg)         | 2000 lbs (907 kg)   | 1000 lbs (454 kg)        | 1800 lbs (816 kg)   | 800 lbs (363 kg)         | 1400 lbs (635 kg)   |
| 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                 | WA25-75NS           | WS19-75NS                | WS25-75NS           | WSS19-75NS               | WSS25-75NS          |
| 90 ft - 27.4 m     | WA19-90NS                 | -                   | WS19-90NS                | -                   | WSS19-90NS               | -                   |

Thorn 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)

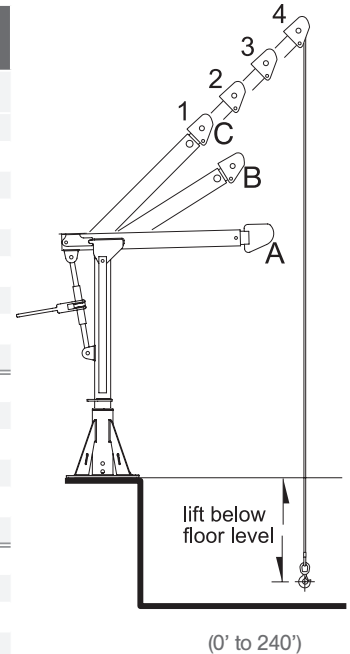
\*Based on 3.5:1 design factor

NOTE: 1/8" (3mm) wire rope is available with a reduced load rating. Please contact the factory.

# PERFORMANCE

## COMMANDER 1000

### Commander 1000 Lift Below Floor<sup>2</sup> Level



| Lift Below <sup>1</sup><br>Floor                          |      |              |      | Wire Rope<br>Diameter |      | Wire Rope<br>Length <sup>3</sup> |      | Winch<br>Configurations |    |    |    |    |
|-----------------------------------------------------------|------|--------------|------|-----------------------|------|----------------------------------|------|-------------------------|----|----|----|----|
| Minimum (C4)                                              |      | Maximum (C1) |      |                       |      |                                  |      | 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  | x                       | -  | x  | -  | x  |
| 10                                                        | 3.0  | 15           | 4.5  | 3/16                  | 5    | 28                               | 8.5  | x                       | -  | x  | -  | x  |
| 18                                                        | 5.4  | 23           | 7.0  | 3/16                  | 5    | 36                               | 10.9 | x                       | -  | x  | -  | x  |
| 27                                                        | 8.2  | 32           | 9.7  | 3/16                  | 5    | 45                               | 13.7 | x                       | -  | x  | -  | x  |
| 42                                                        | 12.8 | 47           | 14.3 | 3/16                  | 5    | 60                               | 18.2 | x                       | -  | x  | -  | x  |
| 57                                                        | 17.3 | 62           | 18.8 | 3/16                  | 5    | 75                               | 22.8 | x                       | -  | x  | -  | x  |
| 72                                                        | 21.9 | 77           | 23.4 | 3/16                  | 5    | 90                               | 27.4 | x                       | -  | x  | -  | x  |
| For long lifts (Up to 240' (73 m)) please contact factory |      |              |      |                       |      |                                  |      |                         |    |    |    |    |
| 2                                                         | 0.6  | 7            | 2.1  | 1/4                   | 6    | 20                               | 6.0  | x                       | x  | x  | x  | x  |
| 10                                                        | 3.0  | 15           | 4.5  | 1/4                   | 6    | 28                               | 8.5  | x                       | x  | x  | x  | x  |
| 18                                                        | 5.4  | 23           | 7.0  | 1/4                   | 6    | 36                               | 10.9 | x                       | x  | x  | x  | x  |
| 27                                                        | 8.2  | 32           | 9.7  | 1/4                   | 6    | 45                               | 13.7 | x                       | x  | x  | x  | x  |
| 42                                                        | 12.8 | 47           | 14.3 | 1/4                   | 6    | 60                               | 18.2 | x                       | x  | x  | x  | x  |
| 57                                                        | 17.3 | 62           | 18.8 | 1/4                   | 6    | 75                               | 22.8 | -                       | x  | -  | x  | x  |
| 2                                                         | 0.6  | 7            | 2.1  | 5/16                  | 8    | 20                               | 6.0  | -                       | -  | -  | -  | x  |
| 10                                                        | 3.0  | 15           | 4.5  | 5/16                  | 8    | 28                               | 8.5  | -                       | -  | -  | -  | x  |
| 18                                                        | 5.4  | 23           | 7.0  | 5/16                  | 8    | 36                               | 10.9 | -                       | -  | -  | -  | x  |
| 27                                                        | 8.2  | 32           | 9.7  | 5/16                  | 8    | 45                               | 13.7 | -                       | -  | -  | -  | x  |
| 42                                                        | 12.8 | 47           | 14.3 | 5/16                  | 8    | 60                               | 18.2 | -                       | -  | -  | -  | x  |

<sup>1</sup> Lift below floor level varies depending on boom position and base configuration. For long lifts (Up to 240 ft (73 m)), please contact factory.

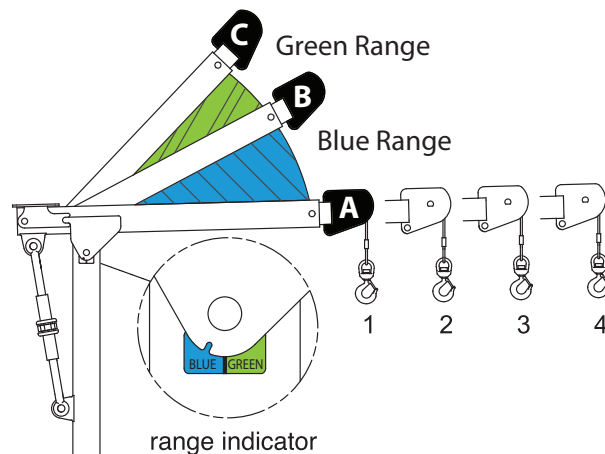
<sup>2</sup> Performance Characteristics are for standard products referred to in this manual. Non-standard products may vary from the original design.

Contact Them, Inc. for this information.

<sup>3</sup> Wire rope assemblies include a hook 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 Ratings<sup>2</sup>

|             | Boom<br>Position | Load Rating |      |
|-------------|------------------|-------------|------|
|             |                  | (lb)        | (kg) |
| BLUE RANGE  | A-1              | 1000        | 453  |
|             | A-2              | 800         | 362  |
|             | A-3              | 650         | 294  |
|             | A-4              | 550         | 249  |
| GREEN RANGE | B-1              | 1200        | 544  |
|             | B-2              | 950         | 430  |
|             | B-3              | 750         | 340  |
|             | B-4              | 650         | 294  |
|             | C-1              | 1200        | 544  |
|             | C-2              | 950         | 430  |
|             | C-3              | 750         | 340  |
|             | C-4              | 650         | 294  |



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

#### IMPORTANT:

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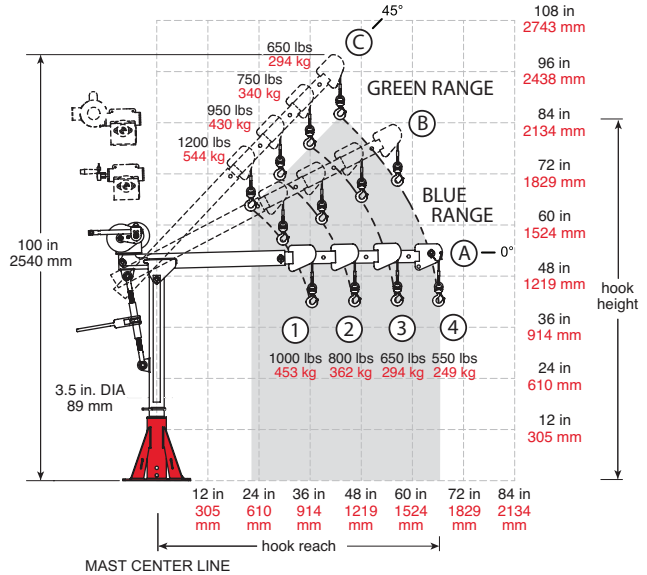
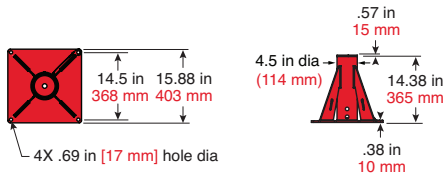
# PERFORMANCE

## COMMANDER 1000

### Commander 1000 On Pedestal Base 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           | 29         | 736  | 56          | 1422 |
| B-2           | 38         | 965  | 60          | 1524 |
| B-3           | 47         | 1193 | 65          | 1651 |
| B-4           | 56         | 1422 | 69          | 1752 |
| C-1           | 22         | 558  | 64          | 1625 |
| C-2           | 29         | 736  | 71          | 1803 |
| C-3           | 36         | 914  | 78          | 1981 |
| C-4           | 43         | 1092 | 85          | 2159 |

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



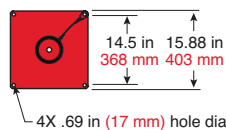
### Commander 1000 Pedestal Base 5BP10

5BP10      5BP10S      5BP10X  
5BP10G      5BP10S316

### Commander 1000 On Flush or Wall-Mount Base - Reach & Height Above Floor

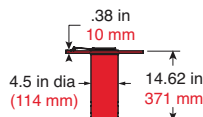
| Boom Position | Hook Reach |      | Hook Height |      |
|---------------|------------|------|-------------|------|
|               | (in)       | (mm) | (in)        | (mm) |
| A-1           | 36         | 914  | 28          | 711  |
| A-2           | 46         | 1168 | 28          | 711  |
| A-3           | 56         | 1422 | 28          | 711  |
| A-4           | 66         | 1676 | 28          | 711  |
| B-1           | 29         | 736  | 42          | 1066 |
| B-2           | 38         | 965  | 46          | 1168 |
| B-3           | 47         | 1193 | 51          | 1295 |
| B-4           | 56         | 1422 | 55          | 1397 |
| C-1           | 22         | 558  | 50          | 1270 |
| C-2           | 29         | 736  | 57          | 1447 |
| C-3           | 36         | 914  | 64          | 1625 |
| C-4           | 43         | 1092 | 71          | 1803 |

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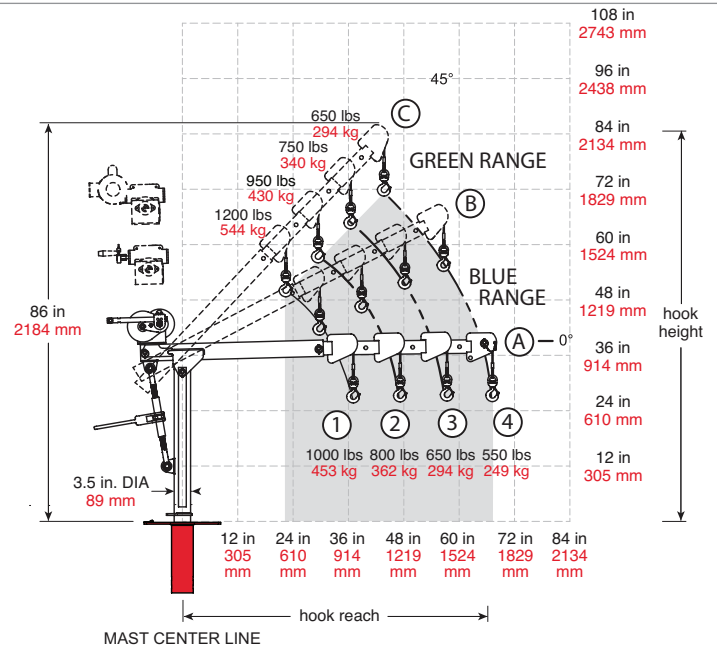
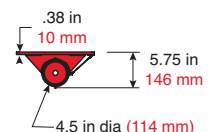
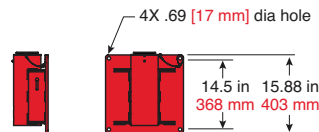
### Commander 1000 Flush Base 5BF10

5BF10  
5BF10G  
5BF10S  
5BF10S316  
5BF10X



### Commander 1000 Wall-Mount Base 5BW10

5BW10  
5BW10G  
5BW10S  
5BW10S316  
5BW10X



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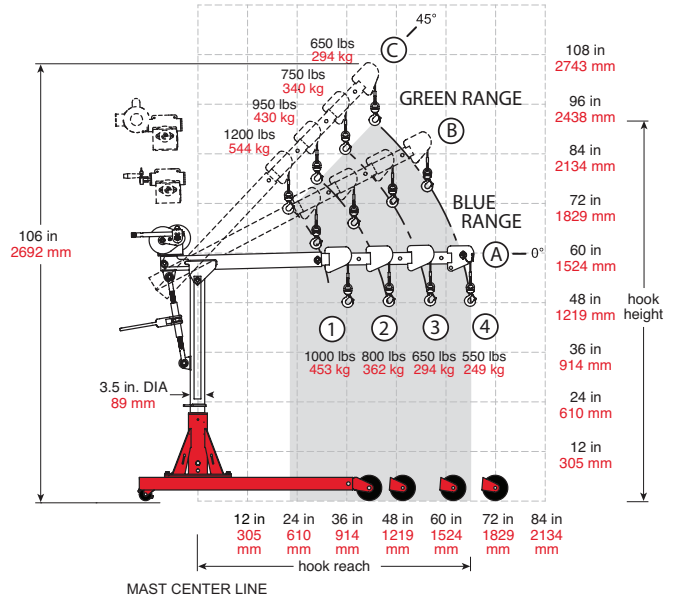
# PERFORMANCE

## Commander 1000 on Wheel Base

# COMMANDER 1000



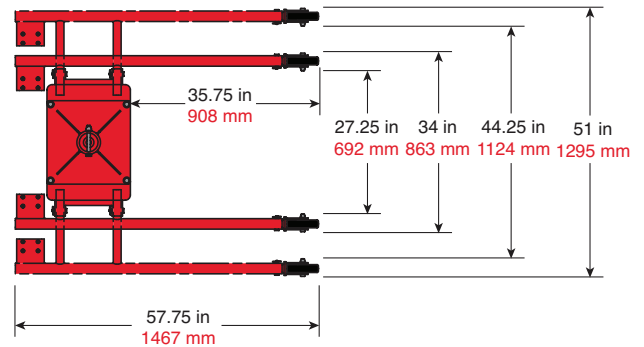
**IMPORTANT:**  
Crane DOES NOT rotate when assembled  
in 5BR wheel base.



## Commander 1000 On Wheel Base Reach & Height Above Floor

| Boom Position | Hook Reach |      | Hook Height |      |
|---------------|------------|------|-------------|------|
|               | (in)       | (mm) | (in)        | (mm) |
| A-1           | 36         | 914  | 48          | 1219 |
| A-2           | 46         | 1168 | 48          | 1219 |
| A-3           | 56         | 1422 | 48          | 1219 |
| A-4           | 66         | 1676 | 48          | 1219 |
| B-1           | 29         | 736  | 62          | 1574 |
| B-2           | 38         | 965  | 66          | 1676 |
| B-3           | 47         | 1193 | 71          | 1803 |
| B-4           | 56         | 1422 | 75          | 1905 |
| C-1           | 22         | 558  | 70          | 1778 |
| C-2           | 29         | 736  | 77          | 1955 |
| C-3           | 36         | 914  | 84          | 2133 |
| C-4           | 43         | 1092 | 91          | 2311 |

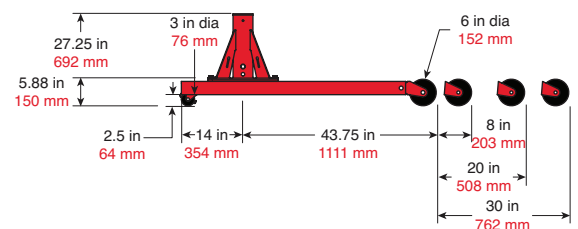
Dimensions are for reference only and subject to change without notice.



## 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/C-1         | SEE LOAD RATINGS ON CRANE |      |           |      |           |      |           |      |
| A/C-2         |                           |      |           |      |           |      |           |      |
| A/C-3         |                           |      |           |      |           |      |           |      |
| A/C-4         |                           |      |           |      |           |      |           |      |

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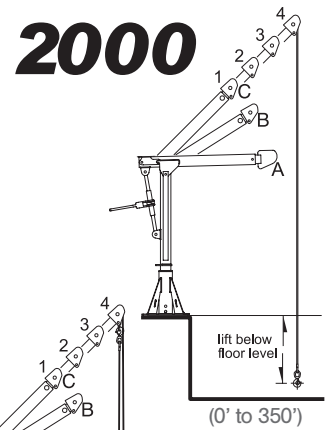


# PERFORMANCE

## COMMANDER 2000

### Commander 2000

#### 5PT20 Lift Below Floor<sup>2</sup> Level



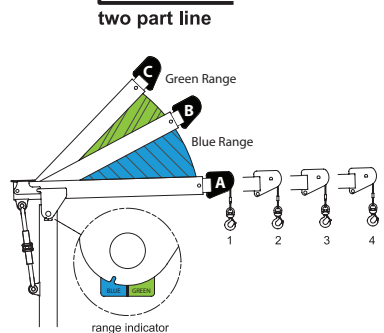
| Lift Below <sup>1</sup> Floor                              |      |              |      | Wire Rope Diameter |      | Wire Rope Length <sup>3</sup> |      | Winch Configurations |                |                |                |    |
|------------------------------------------------------------|------|--------------|------|--------------------|------|-------------------------------|------|----------------------|----------------|----------------|----------------|----|
| Minimum (C4)                                               |      | Maximum (C1) |      |                    |      |                               |      | M1                   | M2             | M3             | E2             | E4 |
| (ft)                                                       | (m)  | (ft)         | (m)  | (in)               | (mm) | (ft)                          | (m)  |                      |                |                |                |    |
| 0                                                          | 0.0  | 5            | 1.5  | 3/16               | 5    | 20                            | 6.0  | x                    | -              | x              | -              | x  |
| 8                                                          | 2.4  | 13           | 3.9  | 3/16               | 5    | 28                            | 8.5  | x                    | -              | x              | -              | x  |
| 16                                                         | 4.8  | 21           | 6.4  | 3/16               | 5    | 36                            | 10.9 | x                    | -              | x              | -              | x  |
| 25                                                         | 7.6  | 30           | 9.1  | 3/16               | 5    | 45                            | 13.7 | x                    | -              | x              | -              | x  |
| 40                                                         | 12.1 | 45           | 13.7 | 3/16               | 5    | 60                            | 18.2 | x                    | -              | x              | -              | x  |
| 55                                                         | 16.7 | 60           | 18.2 | 3/16               | 5    | 75                            | 22.8 | x                    | -              | x              | -              | x  |
| 70                                                         | 21.3 | 75           | 22.8 | 3/16               | 5    | 90                            | 27.4 | x                    | -              | x              | -              | x  |
| 0                                                          | 0.0  | 5            | 1.5  | 1/4                | 6    | 20                            | 6.0  | x                    | x              | x              | x              | x  |
| 8                                                          | 2.4  | 13           | 3.9  | 1/4                | 6    | 28                            | 8.5  | x                    | x              | x              | x              | x  |
| 16                                                         | 4.8  | 21           | 6.4  | 1/4                | 6    | 36                            | 10.9 | x                    | x              | x              | x              | x  |
| 25                                                         | 7.6  | 30           | 9.1  | 1/4                | 6    | 45                            | 13.7 | x                    | x              | x              | x              | x  |
| 40                                                         | 12.1 | 45           | 13.7 | 1/4                | 6    | 60                            | 18.2 | x                    | x              | x              | x              | x  |
| 55                                                         | 16.7 | 60           | 18.2 | 1/4                | 6    | 75                            | 22.8 | -                    | x              | -              | x              | x  |
| For long lifts (Up to 350' (106 m)) please contact factory |      |              |      |                    |      |                               |      |                      |                |                |                |    |
| 0                                                          | 0.0  | 5            | 1.5  | 5/16               | 8    | 20                            | 6.0  | x <sup>4</sup>       | x <sup>4</sup> | x <sup>4</sup> | x <sup>4</sup> | x  |
| 8                                                          | 2.4  | 13           | 3.9  | 5/16               | 8    | 28                            | 8.5  | x <sup>4</sup>       | x <sup>4</sup> | x <sup>4</sup> | x <sup>4</sup> | x  |
| 16                                                         | 4.8  | 21           | 6.4  | 5/16               | 8    | 36                            | 10.9 | x <sup>4</sup>       | x <sup>4</sup> | x <sup>4</sup> | x <sup>4</sup> | x  |
| 25                                                         | 7.6  | 30           | 9.1  | 5/16               | 8    | 45                            | 13.7 | x <sup>4</sup>       | x <sup>4</sup> | x <sup>4</sup> | x <sup>4</sup> | x  |
| 40                                                         | 12.1 | 45           | 13.7 | 5/16               | 8    | 60                            | 18.2 | -                    | -              | -              | -              | x  |

<sup>1</sup> Lift below floor level varies depending on boom position and base configuration. For long lifts (up to 350' 106 m) please contact factory.

<sup>2</sup> 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.

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

<sup>4</sup> 5/16" (8 mm) wire rope assemblies with swaged ball fitting do not fit the winch quick disconnect anchor. - Contact the factory to specify wire rope with an unfinished end.



### Commander 2000

#### 5PT20 Performance Ratings<sup>2</sup>

|             | Boom Position | 1st Layer Load Rating |      | Mid-Drum Load Rating |      | Full Drum Load Rating |      |
|-------------|---------------|-----------------------|------|----------------------|------|-----------------------|------|
|             |               | (lb)                  | (kg) | (lb)                 | (kg) | (lb)                  | (kg) |
| BLUE RANGE  | A-1           | 2000                  | 907  | 1500                 | 680  | 1200                  | 544  |
|             | A-2           | 1600                  | 725  | 1500                 | 680  | 1200                  | 544  |
|             | A-3           | 1300                  | 589  | 1300                 | 589  | 1200                  | 544  |
|             | A-4           | 1100                  | 498  | 1100                 | 498  | 1100                  | 498  |
| GREEN RANGE | B-1           | 2000                  | 907  | 1500                 | 680  | 1200                  | 544  |
|             | B-2           | 1900                  | 861  | 1500                 | 680  | 1200                  | 544  |
|             | B-3           | 1500                  | 680  | 1500                 | 680  | 1200                  | 544  |
|             | B-4           | 1300                  | 589  | 1300                 | 589  | 1200                  | 544  |
|             | C-1           | 2000                  | 907  | 1500                 | 680  | 1200                  | 544  |
|             | C-2           | 1900                  | 861  | 1500                 | 680  | 1200                  | 544  |
|             | C-3           | 1500                  | 680  | 1500                 | 680  | 1200                  | 544  |
|             | C-4           | 1300                  | 589  | 1300                 | 589  | 1200                  | 544  |

### Commander 2000

#### 5PT20 Ratings<sup>2</sup> with 2-Part Line Kit

|             | Boom Position | 1st Layer Load Rating |      | Mid-Drum Load Rating |      | Full Drum Load Rating |      |
|-------------|---------------|-----------------------|------|----------------------|------|-----------------------|------|
|             |               | (lb)                  | (kg) | (lb)                 | (kg) | (lb)                  | (kg) |
| BLUE RANGE  | A-1           | 2000                  | 907  | 2000                 | 907  | 2000                  | 907  |
|             | A-2           | 1600                  | 725  | 1600                 | 725  | 1600                  | 725  |
|             | A-3           | 1300                  | 589  | 1300                 | 589  | 1300                  | 589  |
|             | A-4           | 1100                  | 498  | 1100                 | 498  | 1100                  | 498  |
| GREEN RANGE | B-1           | 2400                  | 1088 | 2400                 | 1088 | 2400                  | 1088 |
|             | B-2           | 1900                  | 861  | 1900                 | 861  | 1900                  | 861  |
|             | B-3           | 1500                  | 680  | 1500                 | 680  | 1500                  | 680  |
|             | B-4           | 1300                  | 589  | 1300                 | 589  | 1300                  | 589  |
|             | C-1           | 2400                  | 1088 | 2400                 | 1088 | 2400                  | 1088 |
|             | C-2           | 1900                  | 861  | 1900                 | 861  | 1900                  | 861  |
|             | C-3           | 1500                  | 680  | 1500                 | 680  | 1500                  | 680  |
|             | C-4           | 1300                  | 589  | 1300                 | 589  | 1300                  | 589  |

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

#### IMPORTANT:

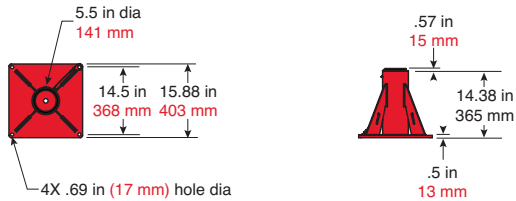
It is the owner or operator's responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals and regulations. Be sure to read the Owner's Manual supplied with the equipment before operating it.

# PERFORMANCE

## 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           | 37         | 939  | 61          | 1549 |
| B-2           | 48         | 1219 | 67          | 1701 |
| B-3           | 58         | 1473 | 72          | 1828 |
| B-4           | 69         | 1752 | 78          | 1981 |
| C-1           | 28         | 711  | 71          | 1803 |
| C-2           | 36         | 914  | 80          | 2032 |
| C-3           | 45         | 1143 | 88          | 2235 |
| C-4           | 53         | 1346 | 97          | 2463 |

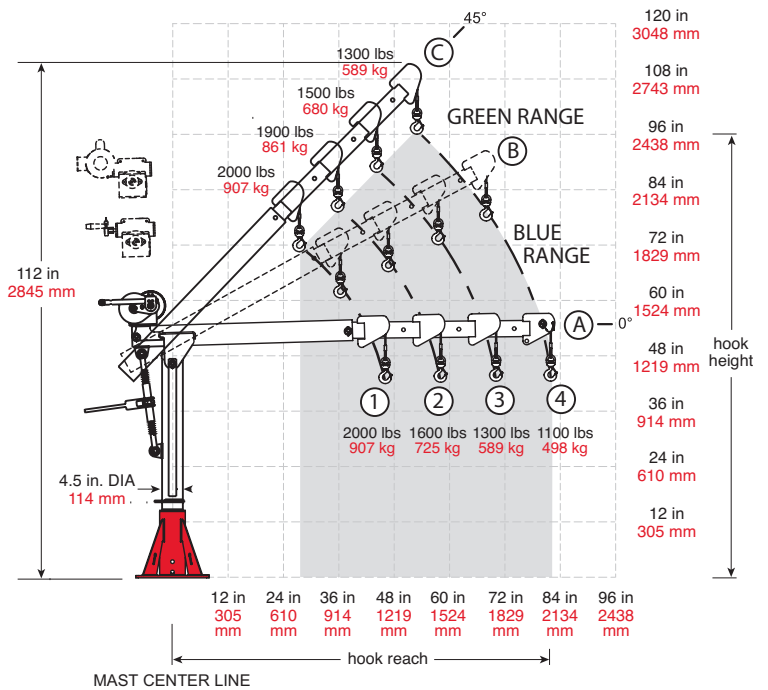
Dimensions are for reference only and subject to change without notice.



### Commander 2000 Pedestal Base 5BP20

5BP20      5BP20S      5BP20EGRA  
5BP20G      5BP20S316

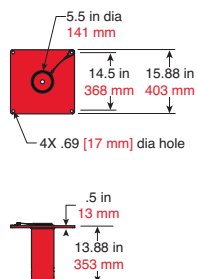
## COMMANDER 2000



## 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           | 37         | 939  | 47          | 1193 |
| B-2           | 48         | 1219 | 53          | 1346 |
| B-3           | 58         | 1473 | 58          | 1473 |
| B-4           | 69         | 1752 | 64          | 1625 |
| C-1           | 28         | 711  | 57          | 1447 |
| C-2           | 36         | 914  | 66          | 1676 |
| C-3           | 45         | 1143 | 74          | 1879 |
| C-4           | 53         | 1346 | 83          | 2108 |

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

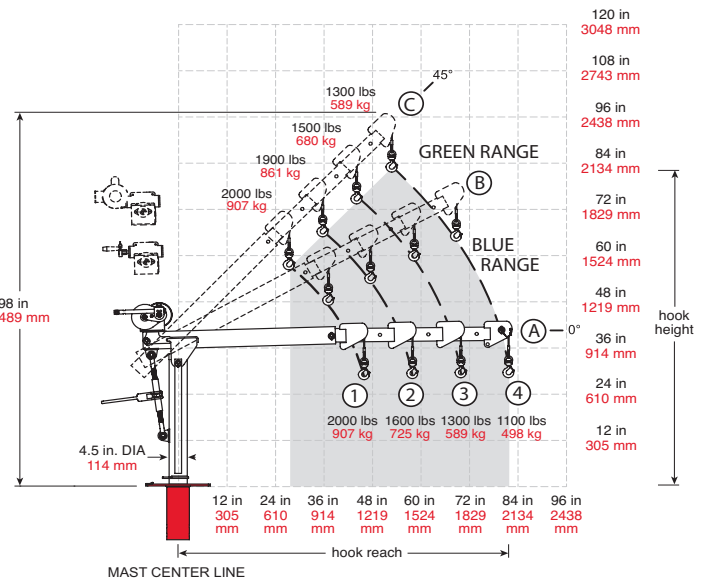
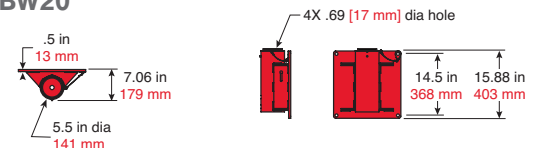


### Commander 2000 Flush Base 5BF20

5BF20  
5BF20G  
5BF20S  
5BF20S316  
5BF20EGRA

### Commander 2000 Wall-Mount Base 5BW20

5BW20  
5BW20G  
5BW20S  
5BW20S316  
5BW20EGRA



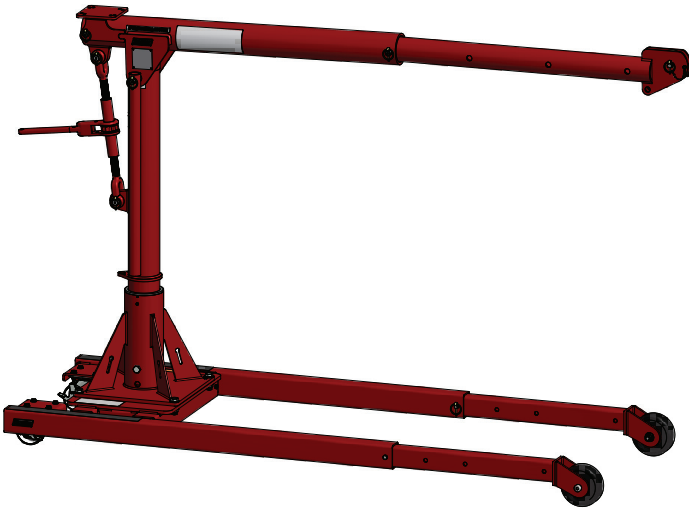
### IMPORTANT:

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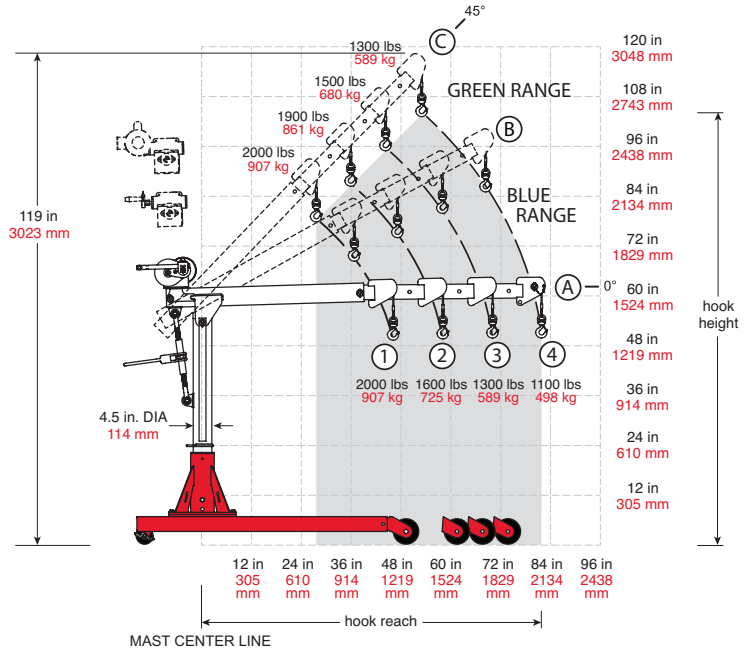
# PERFORMANCE

## COMMANDER 2000

### Commander 2000 on Wheel Base



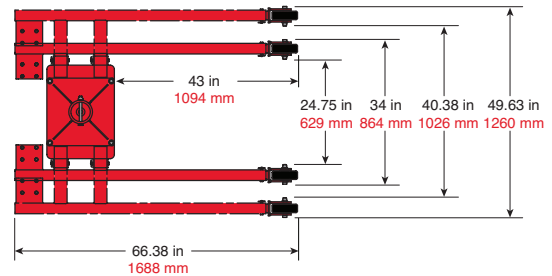
**IMPORTANT:**  
Crane DOES NOT rotate when assembled  
in 5BR20 wheel base.



### Commander 2000 On Wheel Base 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           | 37         | 939  | 68          | 1727 |
| B-2           | 48         | 1219 | 74          | 1879 |
| B-3           | 58         | 1473 | 79          | 2006 |
| B-4           | 69         | 1752 | 85          | 2159 |
| C-1           | 28         | 711  | 78          | 1981 |
| C-2           | 36         | 914  | 87          | 2209 |
| C-3           | 45         | 1143 | 95          | 2413 |
| C-4           | 53         | 1346 | 104         | 2641 |

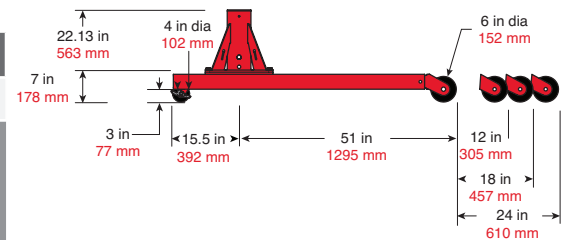
Dimensions are for reference only and subject to change without notice.



### Commander 2000 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/C-1         | SEE LOAD RATINGS ON CRANE |      |           |      |           |      |           |      |
| A/C-2         |                           |      |           |      |           |      |           |      |
| A/C-3         |                           |      |           |      |           |      |           |      |
| A/C-4         |                           |      |           |      |           |      |           |      |

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



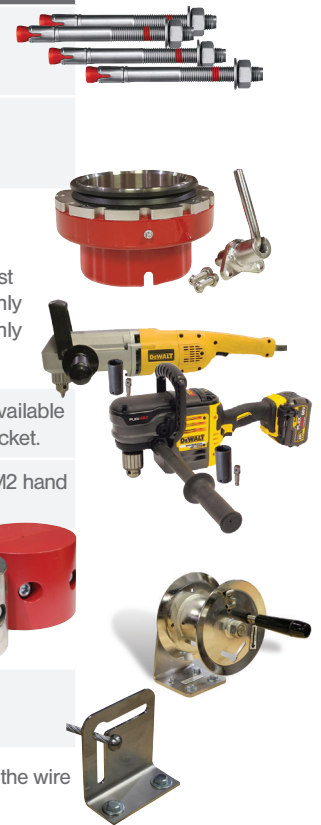
### IMPORTANT:

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# ACCESSORIES AND OPTIONS

## Accessories for Commander Series

| Item                | Part Number             | Description                                                                                                                                                           |
|---------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base Anchor Kit     | AN50A-5                 | 4 Hilti® Zinc Plated Steel fasteners 1/2 X 5.50 STL KB-TZ                                                                                                             |
|                     | AN50A-5S                | 4 Hilti® 304 Stainless Steel fasteners 1/2 X 5.50 SST304 KB-TZ                                                                                                        |
|                     | AN50A-5S316             | 4 Hilti® 316 Stainless Steel fasteners 1/2 X 5.50 SST316 KB-TZ                                                                                                        |
|                     | AN62A-6                 | 4 Hilti® Zinc Plated Steel fasteners 5/8 X 6.00 STL KB-TZ                                                                                                             |
|                     | AN62A-6S                | 4 Hilti® 304 Stainless Steel fasteners 5/8 X 6.00 SST304 KB-TZ                                                                                                        |
|                     | AN62A-6S316             | 4 Hilti® 316 Stainless Steel fasteners 5/8 X 6.00 SST316 KB-TZ                                                                                                        |
| Roller/Ball Bearing | 5PT10BRG                | Red electrostatic powder coat paint finish - Good                                                                                                                     |
|                     | 5PT10BRG-S              | 304 Stainless steel electro-polished finish for added protection -Better                                                                                              |
|                     | 5PT10BRG-S316           | 316 Stainless steel electro-polished finish for a higher level of protection - Best                                                                                   |
|                     | 5PT10BRG-SS             | 304 Stainless steel electro-polished finish for use with Stainless Steel Base only                                                                                    |
|                     | 5PT10BRG-SS316          | 316 Stainless steel electro-polished finish for use with Stainless Steel Base only                                                                                    |
|                     | 5PT10BRG-X              | 3-part epoxy paint (gray) finish for higher level of protection - Premium                                                                                             |
| 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. |
|                     | ED300-DW06              | Cordless drill kit, 60 V Brushless Motor, 300rpm drill-motor to power drive the M2 hand winch option. Includes 1-1/8" hex drive socket.                               |
| Headache Ball       | HB10-12-25              | Red Painted 10lb fits 3/16" to 1/4" Rope                                                                                                                              |
|                     | HB10-25-38              | Red Painted 10lb fits 1/4" to 3/8" Rope                                                                                                                               |
|                     | HB10S-12-25             | Stainless Steel 10lb fits 3/16" to 1/4" Rope                                                                                                                          |
|                     | HB10S-25-38             | Stainless Steel 10lb fits 1/4" to 3/8" Rope                                                                                                                           |
| Cable Spooler       | RW50                    | 316 stainless steel reel winds up wire rope when detached from crane.                                                                                                 |
| Wire Rope Keeper    | RK19-25S<br>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, hydraulic 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.



ATEX

## 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

Thern 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



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