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#### Effective Date: February 17, 2014

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| H           | Engine   |   | ) <b>O</b> | Mechanical transmission            |
|-------------|--|---|------------|------------------------------------|
| H           | Steering   |   | 0          | Tires                              |
|             | Gross vehicle weight                                     | ( | HYDR       | Hydraulics                         |
|             | Weight on rear axle                                      | 1 |            | Weight on front axle               |
|             | Standard (without hook block)                            |   |            | Lifting on wheels / Pick & Carry   |
|             | Operator aids  |   |            | Maximum gradeability               |
|             | Operator's station                                       |   | *          | Hook block                         |
| <u> </u>    | Heating / Air conditioning                               |   |            | Hook and ball                      |
|             | Controls   |   | <b>I</b>   | Boom elevation angle               |
|             | Hoist speed  | 4 | 1355 P     | Max. boom length with extension    |
|             | 1 - Main hoist 2 - Auxiliary winch<br>3 - Recovery winch |   | 100 5 F    | Boom with extension retracted      |
|             | Rope length  |   |            | Telescoping mode                   |
| 7//////     | Rope - standard/optional                                 |   |            | Working radius                     |
| ***         | Rope diameter  |   |            | Boom length                        |
| ₩ P         | Maximum line pull  |   |            | Hydraulic actuated boom            |
| <b>①</b>    | Slewing / Allowable slewing range                        |   |            | Full power mechanical synchronized |
| •           | Slewing gears  |   |            | Tip height                         |
| <b>(</b> •) | Slewing brake  |   | <b>■</b> D | Lights                             |
| 1-1         | Outriggers / Lifting on outriggers                       |   | <u> </u>   | Electrical system                  |
|             | Frame  | ( | <b>7</b>   | Maximum speed                      |



### THE CD1001 CARRY DECK CRANE

### Tight space? No problem!

The Manitex CD1001 is our new industrial crane designed to lift loads that can't easily be reached by a traditional crane or forklift. The 10-ton, cab-down crane maneuvers smoothly through cramped machine shops or shipyards and, with its unique outrigger system, can be positioned close to the load. It offers:

- Multiple steering modes (2 Wheel, Crab, Coordinated)
- Powershift transmission with 4 forward 3 reverse speeds
- Maximum travel speed of 17.9 mph (28.8 kph)

#### Other features include:

- Rated capacity: 10-ton (8,2 mt) at 5 ft. (1,5 m) working radius
- Max. boom length: 25.4 ft. (7,7 m)
- Max. tip height: 40 ft. (10,1 m)
- Load Indicator System

#### **OUTRIGGERS**

Lift confidently. Out-and-down outriggers extend adding stability, letting you inch closer to the load.



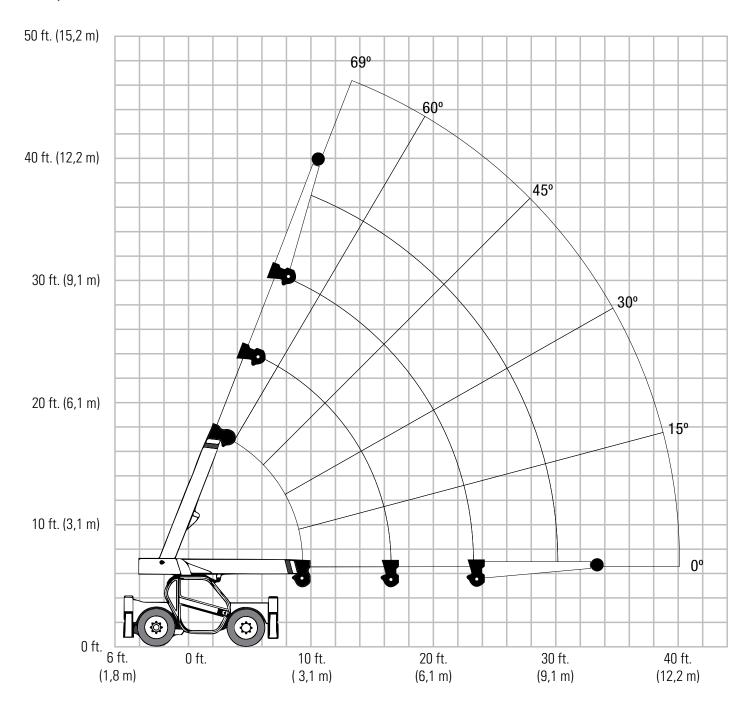
#### **OPERATOR AIDS**

Work smarter. Greer's Insight LMI system allows the operator quick access to critical data in high-resolution VGA graphics.





#### Imperial & Metric Units



# **CRANE WEIGHT**

Standard (without hook block):

16,535 lbs. (7,500 kg)

Lifting Capacities 3 Section Boom 11.6 ft. - 25.4 ft. 9.9 ft. (3 m) Fixed Jib

11.3 ft. (3,5 m) (100%)

On Rubber - 2.5 mph

Front

Lbs.

Max. 69° Min 12°

15,657

13,589

10,536

8,173

6,247

4,765

3,706

2,965

2,329

2,012

1,747



360º Continuous

On Retracted Outriggers

360° Rotation

Lbs.

Max. 69° Min 12°

13,712

11,980

9,145

6.981

5,329

4,068

3,106

2,371

1,810 1,382

|  |                 | , ,   |                  |                  |  |                    |      |  |
|--|-----------------|---|------------------|------------------|--|--------------------|------|--|
|  |                 | CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURF. |                  |                  |  |                    |      |  |
|  |                 |   | On Outi          | riggers          | On Rubb                                      | On Rub             |      |  |
|  |                 |   | 360° Rotation    | 40° Front        | 360° Rotation                                | 6° Front           |      |  |
|  |                 | <b>↔</b> °  | Lbs.             | Lbs.             | Lbs.   | Lbs.               |      |  |
|  |                 | ft.   | Max. 69° Min 12° | Max. 69° Min 12° | Max. 69° Min 12°                             | Max. 69° Min 12°   | Max. |  |
|  |                 | 5   | 20,000           | 20,000           | 12,083                                       | 16,835             |      |  |
|  |                 | 6   | 17,153           | 17,153           | 10,464                                       | 14,612             |      |  |
|  |                 | 8   | 14,082           | 14,082           | 6,851  | 11,329             |      |  |
|  | 5               | 10  | 11,700           | 11,700           | 4,609  | 8,788              |      |  |
|  | MAIN BOOM       | 12  | 9,529            | 9,825            | 3,363  | 6,247              |      |  |
|  | N B             | 14  | 7,094            | 8,050            | 2,491  | 4,765              |      |  |
|  | MA              | 16  | 5,718            | 7,200            | 1,993  | 3,706              |      |  |
|  |                 | 18  | 4,765            | 6,400            | 1,619  | 2,965              |      |  |
|  |                 | 20  | 3,918            | 5,506            | 1,246  | 2,329              |      |  |
|  |                 | 22  | 3,388            | 4,659            | 997  | 2,012              |      |  |
|  |                 | 23  |                  | 4,024            | 810  | 1,747              |      |  |
|  |                 | 13  | 8,047            | 8,047            |  |                    |      |  |
|  |                 | 14  | 7,200            | 8,047            |  |                    |      |  |
|  |                 | 16  | 5,824            | 7,518            |  |                    |      |  |
|  | <u>B</u>        | 18  | 4,976            | 6,565            |  |                    |      |  |
|  | ر<br>+          | 20  | 4,024            | 5,506            |  |                    |      |  |
|  | MOC             | 22  | 3,494            | 4,659            |  |                    |      |  |
|  | N B(            | 24  | 2,965            | 4,024            |  |                    |      |  |
|  | MAIN BOOM + JIB | 26  | 2,541            | 3,388            |  |                    |      |  |
|  |                 | 28  | 2,224            | 3,071            |  | ON TIRES           |      |  |
|  |                 | 30  | 2,012            | 2,647            |  | The tabulated load |      |  |
|  |                 | 32  | 1,800            | 2,329            | guarantees. The rated given in pounds and in |                    |      |  |
|  |                 |   |                  |                  |  |                    |      |  |

#### **ON OUTRIGGERS**

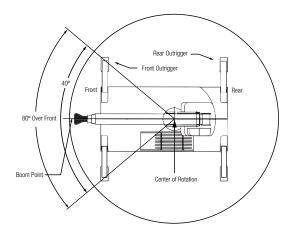
- The tabulated loads are the maximum loads covered by the manufacturer's guarantees. Rated loads for retracted outrigger chart never exceeds 80%. They are given in pounds and include the weight of hook blocks and other hoisting equipment. Their weight must be subtracted from the listed rated lifting capacity to obtain the net load that can be lifted (Also see page 7 for rated load deductions).
- The tires shall be raised clear of the ground and free of crane weight before operating boom or lifting loads.
- All outrigger beams must be extended to the same length; fully extended.
- The crane should be raised and positioned horizontally on outriggers.
- Operating at outrigger positions other than the above is neither intended nor approved.

#### **ON TIRES**

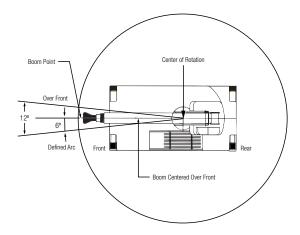
- The tabulated loads are the maximum loads covered by the manufacturer's guarantees. The rated loads never exceed 75% of the tipping load. They are given in pounds and include the weight of hook blocks and other hoisting equipment. Their weight must be subtracted from the listed rated lifting capacity to obtain the net load that can be lifted (also see page 7 for rated load deductions).
- Crane lifting capacities require lifting from main boom head only on a smooth and level surface.
- Crane lifting capacities on tires depend on tire capacity, condition of the tires and tire air pressure. Tires must be inflated to the recommended pressure before lifting (see operator's manual). The recommended pressures are indicated either in the cab or next to the wheels. When handling loads in the structural range with capacities close to maximum ratings, travel should be limited to "creep speed." 2.5 mph capacities are permissible on main boom only, NOT on boom extension.
- For pick and carry operations, the boom must be centered over the front of the machine, the mechanical swing lock engaged and the load must be restrained from swing.
- Do not travel with boom extension erected. Creep: motion less than 200 feet in a 30 minute period and not exceeding 1 mph.

Data published herein is intended as a guide only. Crane operation is subject to the computer charts and operation manual supplied with the crane.

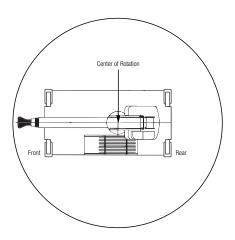
### On Outriggers



#### On Tires



### Outrigger retracted 360°

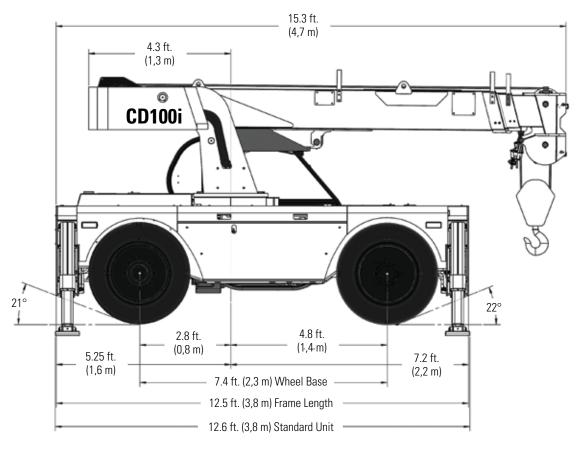


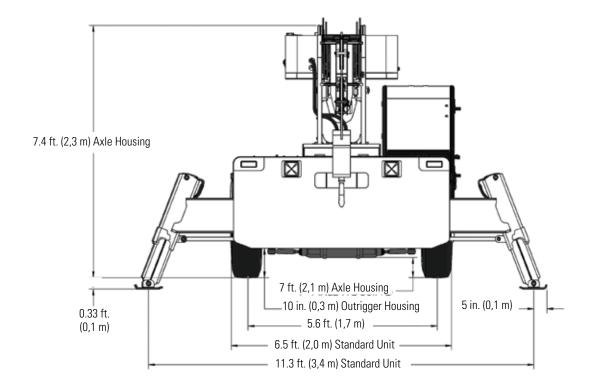
# Deductions from rated loads for load handling devices supplied by Manitex

| Downhaul weight & swivel hook (use with single part line) | 110 lbs. (49.9 kg)  |
|---|---------------------|
| Sheave block  | 145 lbs. (65.7 kg)  |
| 9.9 ft. (3 m) extension                                   | 432 lbs. (195.9 kg) |

WARNING: Lifting off the main boom point while the jib is erected is not intended or approved.

#### Imperial & Metric Units





Data published herein is intended as a guide only. Crane operation is subject to the computer charts and operation manual supplied with the crane.

#### Boom



Boom length: 3-section 25.4 ft. (7,7 m) 2-sheave quick reeve boom point Full power mechanically synchronized



Boom max. tip height: 33 ft. (10,1 m)



Boom angle (min/max): 0° / 69°

#### Rotation



Hydraulic driven worm gear and pinion



Slewing brake: Spring-applied hydraulic released brake



Boom rotation: 360° continuous Slewing speed: 1.6 - 2 rpm

### Outriggers



Outriggers: Front and rear, all four corners

Style: Out-and-down, integral holding valve, outrigger pads

outrigger pads

Controls: Five (5) 3-position direct

hydraulic levers

Outrigger position sensors

Fully extended:

 Front and rear Center of pad: 11.3 ft. (3,5 m)

### **Electrical System**



State-of-the-art, weather-resistant components throughout

IP67 rated components

### Hoist, Rope and Hook



Maximum theoretical single line speed: (without load)

Appx: 60 FPM



Maximum line pull\*:

- Single line: 10,000 lbs. (4,082 kg)
- Double line: 20,000 lbs. (8,164 kg)



Line diameter: .625 in. (15.8 mm)



Line length: 3-section boom: 120 ft. (36,5 m)



Line type: 6 x 19 EIPS, right regular lay



Main winch: Gear motor drive with spring applied /hydraulic released brake

Drum diameter: 10.675 in. (0,3 m)



Downhaul weight & swivel hook:

110 lbs. (49.9 kg) - use with single part line

#### Vehicle Performance



Maximum speed: 17.9 mph (28.8 kph)



Maximum gradability: Vehicle may move on 25% slope at 0.4 mph (0,7 kph)

#### Tires



H16 Pneumatic 255/70 R22.5

### **Control System**



Includes all crane functions and driving controls

### **Operator's Station**



Frame mounted non-vibrating open style operator's control station

Standard features:

- Weather resistant seat
- Hour meter

Dash panel includes:

- Engine water temperature gauge
- Fuel gauge
- Tachometer, Check engine light, Engine Stop Light, Outrigger position indicator, wheels centered indicator

### Hydraulics



Winch section 29 gpm, Auxiliary section 16 gpm @ 2500 rpm.

Hydraulic oil reservoir capacity: 50 gal. (189 L) Maximum system operation pressure: 2000 psi

Return line filter with full flow by-pass protection and service indicator

### Operator aids



Graphic interface for load indicator

Load Moment Indicator (LMI)

Anti-Two Block Device (ATB)

Rated Capacity Limiter (RCL)

### **Engine**



PSI 3.0L Dual Fuel

Rated power: 70 hp (52.1 kW) @ 2500 rpm

Fuel type: Gas / LP

Fuel tank capacity: 16 gal. (60.6 L)

#### **Drive-line**



DANA syncromesh 4-speeds forward and 3 reverse with electrical steer model 1102FT12410

#### Steering



2-wheel, 4-wheel and crab steer with manual alignment

4x2-Front axle drive with planetary hubs and limited slip differential

Front: DANA 212 planetary steer with internal multi-wet-disc brakes and limited slip differential

Rear: Fabricated non-drive steer with disc brakes

#### Frame



High strength alloy steel constructed with integral outrigger housings: front and rear lifting, towing, and tie-down lugs.

Carry decks:

- Front: 23.2 ft<sup>2</sup> (2,2 m) with 6,620 lbs. (3,003 kg) carrying capacity
- Side right: 21.8 ft<sup>2</sup> (2 m) with 2,200 lbs. (998 kg) carrying capacity

Deck includes adhesive anti-skid treatment.



# Options Engine Cummins® QSF 2.8L Tier IV Final Rated power: 65 hp (48.5 kW) @ 2500 rpm Fuel type: Diesel Fuel tank capacity: 16 gal. (60.6 L) Extension 4th-section: 9.9 ft. (3 m) Manual section fixed pin Hoist, Rope and Hook Sheave block: 1-sheave: 145 lbs. (65.7 kg) Operator's Station Enclosed cab Heater / Defroster Front windshield wiper Air conditioning

| NOTES: |  |  |  |  |  |  |
|--------|--|--|--|--|--|--|
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#### **MANITEX**

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