

SHUTTLELIFT®

SCD09

Product Guide

ASME B30.5 Imperial 85%, Metric 85%



9 USt
(8,1 t)



33.2 ft
(10,1 m)



GVW 17,174 lbs
(7790 kg)



48 ft
(14,6 m)

SHUTTLELIFT SCD09

FEATURES

The SCD09 offers a 33.2 ft (10,12m) three section full power main boom with a max capacity of 9 USt (8,1t). Compact dimensions, multiple steering modes, and two position outriggers make it easy to maneuver on the jobsite. The SCD09 also features a three position pivoting boom nose and a deck carrying capacity of 14,000 lbs (6350 kg), making it the ideal crane for transporting loads and working in confined spaces.



Outriggers

The SCD09 outriggers are two-position (0% and 100%) beam/jack style with integral steel outrigger pads. Equipped with independent outrigger controls.

Simplified Power

The dual fuel engine offers a practical solution for indoor operations and simplifies fuel logistics across mixed fleets. The SCD09 is available with an optional EPA Tier 4 Final emissions-compliant configuration—no SCR system, UREA injection, or Diesel Exhaust Fluid (DEF) required.



Operator Cab

Simple operator cab features hydraulic joystick controls, easy-to-set up graphic RCL system, common automotive dash panel with gauges, indicator lights, and rocker switches. Fully adjustable seat and tilting steering wheel are standard features. An enclosed cab with split door is available for additional comfort.



CUSTOMIZED OPTIONS

Standard options may not always meet the job requirements. Consult your local dealer for a Lift Solution quote for customized options, such as:

- Non-marking tires
- Barge charts
- Spark arrestor

Steering Modes

The SCD09 comes standard with three steering modes: Front (two-wheel), four-wheel coordinated, and four-wheel crab steer with electronic self-alignment. Operators can choose between modes using a three-position rocker switch located on dash panel.



The world's most advanced crane service and support network

WORLDWIDE SUPPORT NETWORK

Manitowoc's customer service extends beyond any borders. Our locations span the globe, covering five continents. No matter where the job takes you, you have a business partner nearby.



PARTS

Locating the correct part quickly is vital to managing your operations. With Manitowoc Customer Support, the parts you need are just a phone call or click away.

LIFT SOLUTIONS

The Manitowoc Crane Lift Solutions Team is dedicated to helping customers with unique and customized applications for their Manitowoc cranes, regardless of product line.

TRAINING

Manitowoc Training Centers offer courses for operators and technicians across the globe to provide in-depth instruction on crane operation, maintenance, and troubleshooting procedures.

EnCORE

Manitowoc's EnCORE program maximizes your investment by rebuilding or repairing your crane to extend its life significantly. EnCORE also includes remanufactured parts.



MANITOWOC FINANCE

Manitowoc Finance gets you in the field with the right equipment by giving you access to flexible, affordable financing. With Manitowoc Finance, equipment can be acquired with virtually no cash outlay, and unlike traditional lending, our financial products don't affect bank lines of credit. Your capital resources remain intact for times when you need ready access to cash.

Competitive rates with flexible financing options and payment schedules put you in control.

Did you know? Manitowoc Finance can finance **used** Manitowoc cranes. You can also **trade-in** your used fleet for upgrade and get financed by Manitowoc Finance.





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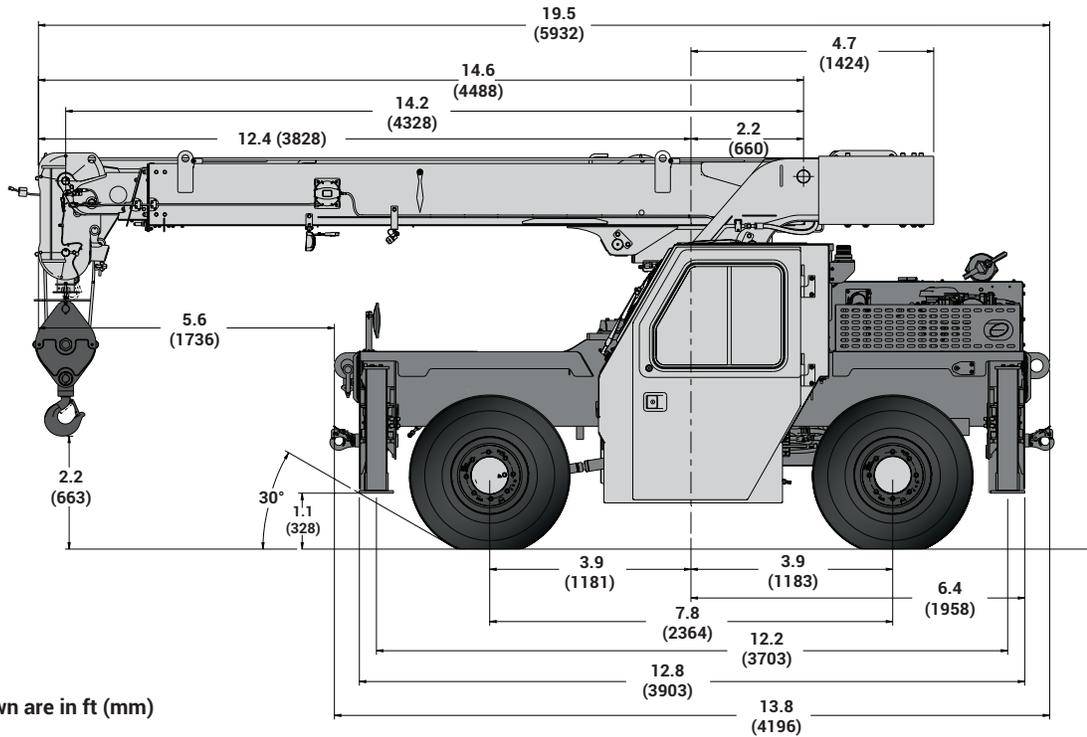
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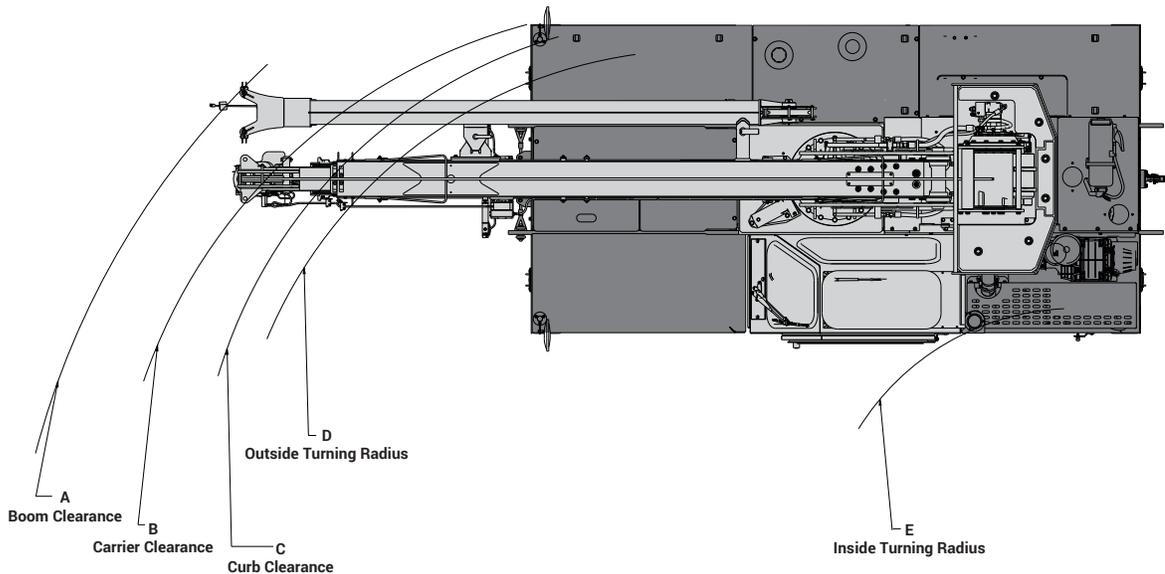
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Symbols Glossary

DIMENSIONS AND WEIGHTS

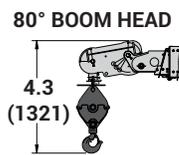
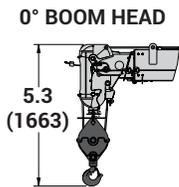


Dimensions shown are in ft (mm)

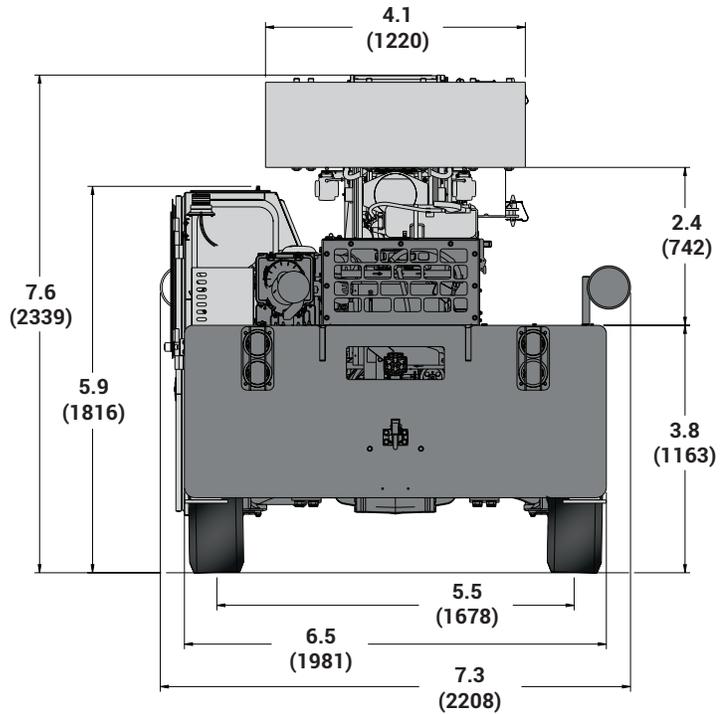


Tire size	A	B	C	D	E	A	B	C	D	E
10/16	255.8 in (6498 mm)	218.6 in (5552 mm)	204.4 in (5191 mm)	198.8 in (5050 mm)	141.3 in (3589 mm)	182.9 in (4646 mm)	143.6 in (3648 mm)	132.4 in (3363 mm)	125.2 in (3180 mm)	66.1 in (1679 mm)
	Two-wheel steer (radius)					Four-wheel steer (radius)				

DIMENSIONS AND WEIGHTS



Dimensions are with the boom horizontal and the anti-two block bottomed.

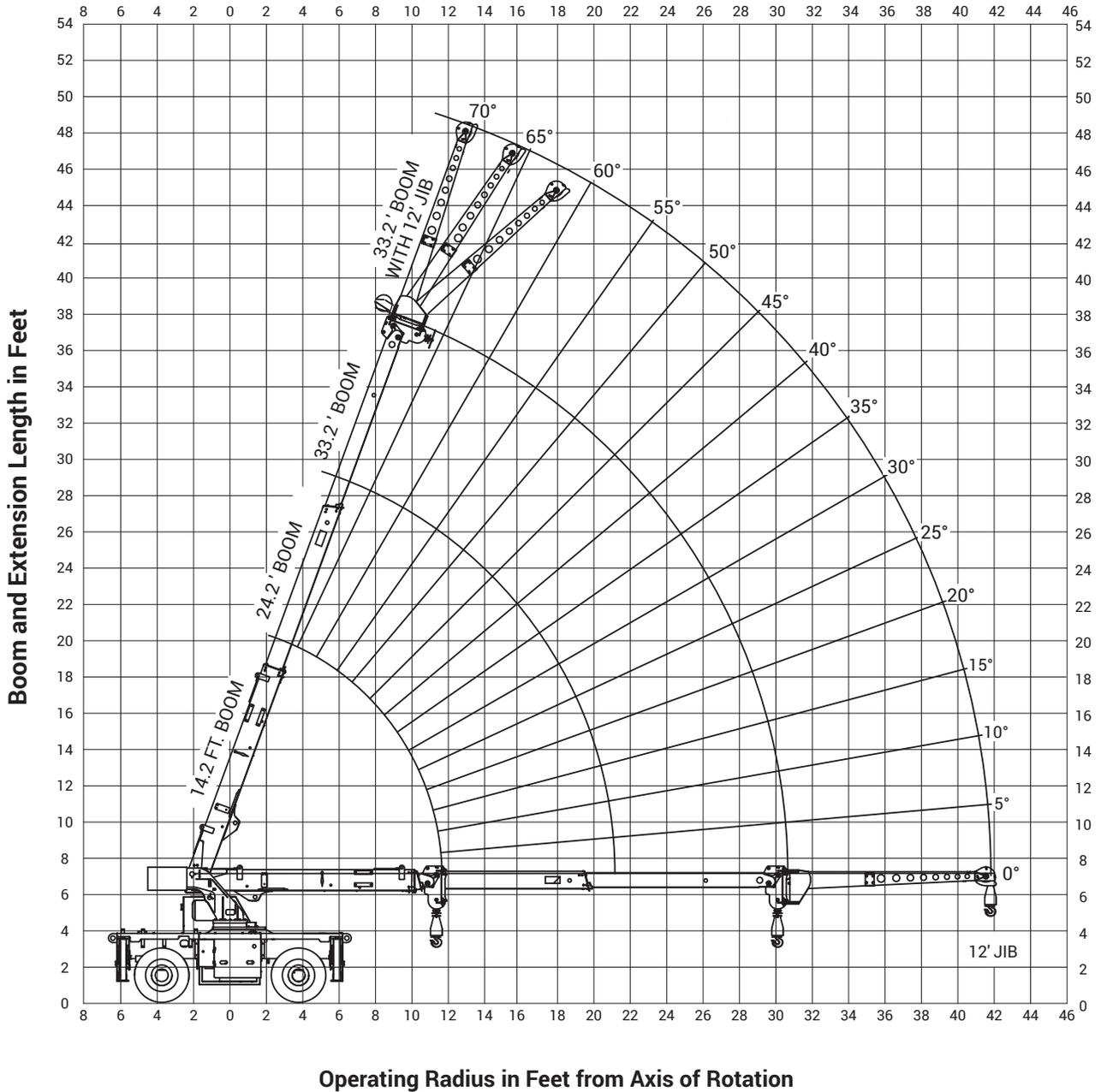


Dimensions shown are in ft (mm)

Weights	GVW		Front		Rear	
	lb	kg	lb	kg	lb	kg
Basic machine: including 33.2 ft (10,12 m) main boom, main hoist with 120 ft (36,6 m) of wire rope, 12.5 USt (11.3 t) hook block, full counterweight, dual fuel engine and driver.	17,174	7790	8534	3871	8640	3919
Add: 12 ft (3,66 m) fixed swingaway extension and extension carrier brackets and downhaul weight.	487	221	684	310	-197	-89
Crane Weight	17,661	8011	9218	4181	8443	3830
Basic machine: including 33.2 ft (10,12 m) main boom, main hoist with 120 ft (36,6 m) of wire rope, 12.5 USt (11.3 t) hook block, full counterweight, dual fuel engine and driver.	17,174	7790	8534	3871	8640	3919
Add: Enclosed cab with heater and defroster.	203	92	96	43	107	49
Crane Weight	17,377	7882	8630	3914	8747	3968

WORKING RANGE

Imperial



THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

LOAD CHART

Imperial



Feet	Main Boom Length in Feet		
	14.2	24.2	33.2
5	18,000 (66)		
6	14,300 (61,5)		
8	12,000 (51)	9,280 (69)	
10	10,350 (38)	9,120 (63,5)	
12	7,830 (0)	8,040 (58)	7,430 (68)
14		6,820 (52)	6,620 (64)
16		5,470 (45,5)	5,680 (60)
18		4,510 (37,5)	4,690 (55,5)
20		3,800 (28)	3,950 (51)
22		3,250 (0)	3,380 (46,5)
24			2,920 (41)
26			2,550 (35)
28			2,240 (28)
30			1,980 (17,5)
31			1,870 (0)

Feet	Main Boom Length in Feet		
	14.2	24.2	33.2
5	18,000 (66)		
6	14,300 (61,5)		
8	12,000 (51)	9,280 (69)	
10	10,350 (38)	9,120 (63,5)	
12	7,830 (0)	8,040 (58)	7,430 (68)
14		7,200 (52)	6,620 (64)
16		5,980 (45,5)	5,990 (60)
18		4,940 (37,5)	5,010 (55,5)
20		4,170 (28)	4,230 (51)
22		3,570 (0)	3,640 (46,5)
24			3,160 (41)
26			2,790 (35)
28			2,470 (28)
30			2,210 (17,5)
31			2,120 (0)

*NOTE: () Boom angles are in degrees.

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LOAD CHART

Imperial



Pounds

Main Boom Angle (°)	0° OFFSET		15° OFFSET		30° OFFSET	
	Up to 24.2' boom length	Up to 33.2' boom length	Up to 24.2' boom length	Up to 33.2' boom length	Up to 24.2' boom length	Up to 33.2' boom length
70	7590	5220	5420	4280	4370	3630
65	5850	4290	4500	3590	3800	3160
60	4720	3300	3860	2880	3370	2660
55	3980	2750	3390	2460	3040	2310
50	3300	2280	2950	2090	2730	1970
45	2860	1920	2600	1800	2450	1730
40	2540	1690	2370	1600	2270	1550
35	2320	1500	2190	1460	2150	1430
30	2130	1380	2050	1360	2050	1330
25	1960	1280	1930	1260		
20	1870	1200	1870	1200		
15	1810	1130	1840	1150		
10	1770	1110				
5	1740	1080				
0	1720	1080				

NOTES:

1. 12 ft boom extension may be used for single line lifting service only.
2. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

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LOAD CHART

Imperial



Radius in Feet	Defined Arc 8° Over Front	Stationary 360°
5	13,450	10,500
6	11,950	8610
8	9730	6540
10	8100	4570
12	5890	3350
14	4830	2720
16	3880	2210
18	3190	1840
20	2680	1500
22	2280	1220
24	1970	1150
26	1700	980
28	1470	830
30	1280	710
31	1200	660

NOTES:

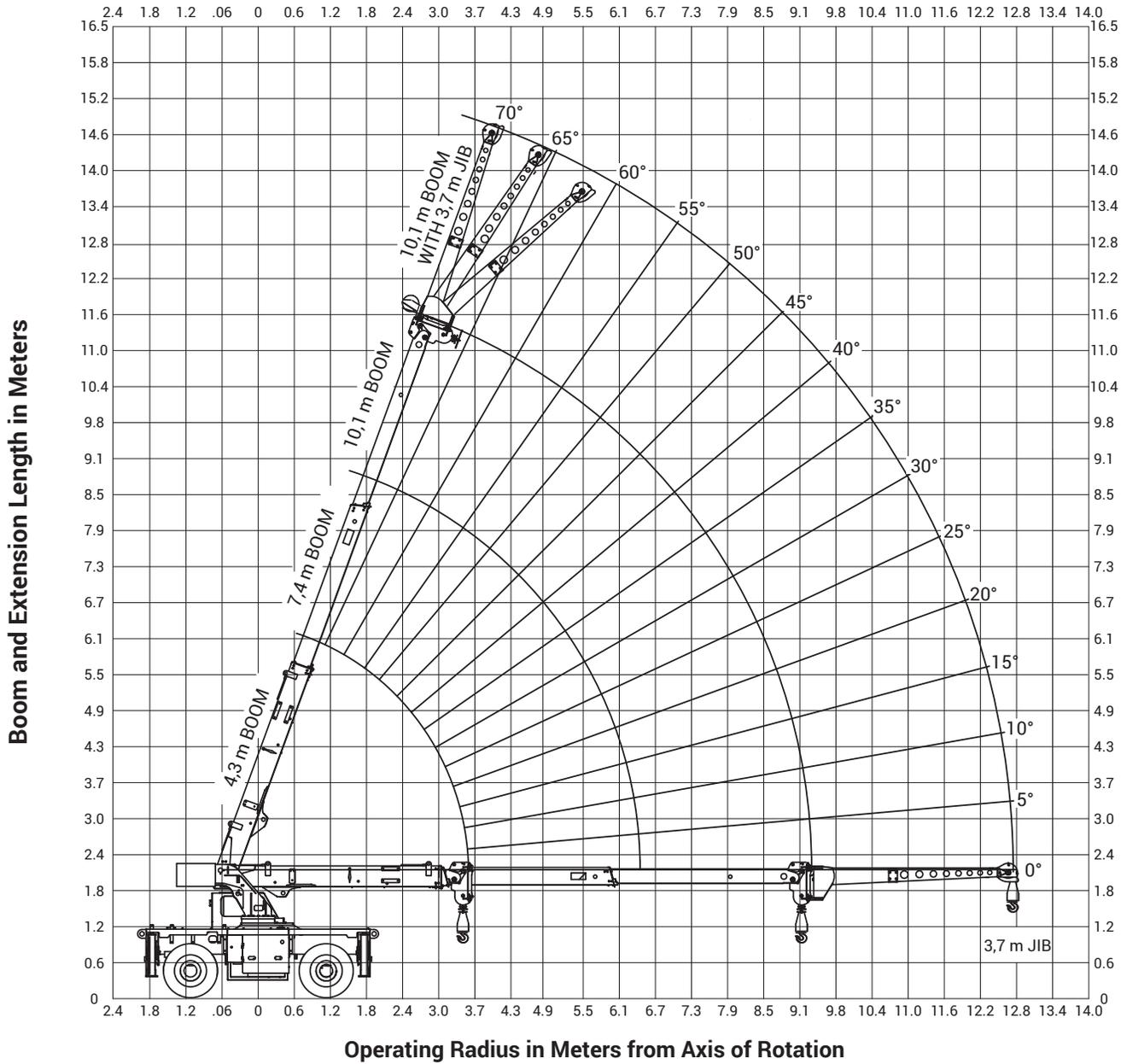
1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with 10.00x15 (16 ply) at 125 psi cold inflation pressure.
3. Capacities are applicable only with machine on a smooth, level and firm surface.
4. Defined Arc - Over front includes 8° on either side of longitudinal centerline of machine.
5. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. Maximum speed is 2.5 mph.
7. On rubber lifting with boom extension not permitted.

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WORKING RANGE

Metric

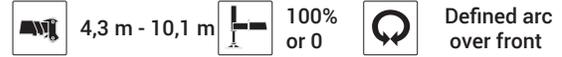


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LOAD CHART

Metric



Meters	Main Boom Length in Meters		
	4,3	7,4	10,1
1,5	8100 (66,5)		
1,8	6485 (62)		
2,4	5440 (51,5)	4205 (69,5)	
3,0	4695 (39)	4135 (64)	
3,6	3550 (0)	3645 (58,5)	3370 (68)
4,3		3055 (51,5)	3000 (63,5)
4,9		2460 (45)	2555 (59,5)
5,5		2035 (37,5)	2115 (55,5)
6,1		1720 (27,5)	1790 (51)
6,7		1475 (0)	1535 (46,5)
7,3			1330 (41)
7,9			1165 (35,5)
8,5			1025 (28,5)
9,1			910 (18,5)
9,4			855 (0)

Meters	Main Boom Length in Meters		
	4,3	7,4	10,1
1,5	8100 (66,5)		
1,8	6485 (62)		
2,4	5440 (51,5)	4205 (69,5)	
3,0	4695 (39)	4135 (64)	
3,6	3550 (0)	3645 (58,5)	3370 (68)
4,3		3265 (51,5)	3000 (63,5)
4,9		2710 (45)	2715 (59,5)
5,5		2240 (37,5)	2270 (55,5)
6,1		1890 (27,5)	1915 (51)
6,7		1615 (0)	1650 (46,5)
7,3			1430 (41)
7,9			1265 (35,5)
8,5			1120 (28,5)
9,1			1000 (18,5)
9,4			960 (0)

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LOAD CHART

Metric



3,7 m



100%



360°



Kilograms

Main Boom Angle (°)	0° OFFSET		15° OFFSET		30° OFFSET	
	Up to 7,4 m boom length	Up to 10,1 m boom length	Up to 7,4 m boom length	Up to 10,1 m boom length	Up to 7,4 m boom length	Up to 10,1 m boom length
70	3440	2365	2455	1940	1980	1645
65	2650	1945	2040	1625	1720	1430
60	2140	1495	1750	1305	1525	1205
55	1805	1250	1535	1115	1375	1050
50	1495	1030	1325	945	1240	890
45	1295	870	1180	815	1105	785
40	1150	765	1075	725	1025	700
35	1050	680	990	660	970	650
30	965	625	930	615	930	600
25	890	580	875	570		
20	850	540	845	540		
15	820	510	835	520		
10	800	500				
5	790					
0	775					

NOTES:

1. 3,7 m boom extension may be used for single line lifting service only.
2. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

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LOAD CHART

Metric

 4,3 m - 10,1 m
  Stationary
  Defined Arc Over Front
 /
  Stationary
  360°
 /
  Pick & Carry
  Over Front

 —————  Kilograms —————

Radius in Meters	Defined Arc 8° Over Front	Stationary 360°
1,5	6115	4760
1,8	5435	3905
2,4	4415	3045
3,0	3675	2125
3,6	2755	1570
4,3	2165	1220
4,9	1750	995
5,5	1445	830
6,1	1220	705
6,7	1040	600
7,3	900	530
7,9	780	450
8,5	675	385
9,1	590	330
9,4	555	305

NOTES:

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with 10.00x15 (16 ply) at 8.6 bar cold inflation pressure.
3. Capacities are applicable only with machine on a smooth, level and firm surface.
4. Defined Arc - Over front includes 8° on either side of longitudinal centerline of machine.
5. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. Maximum speed is 4 km/h.
7. On rubber lifting with boom extension not permitted.

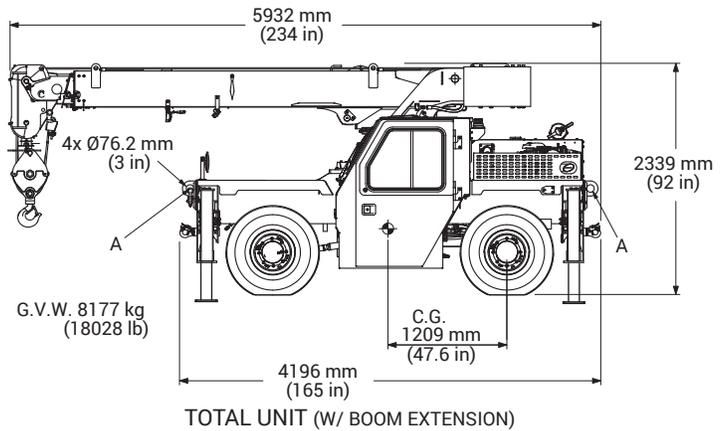
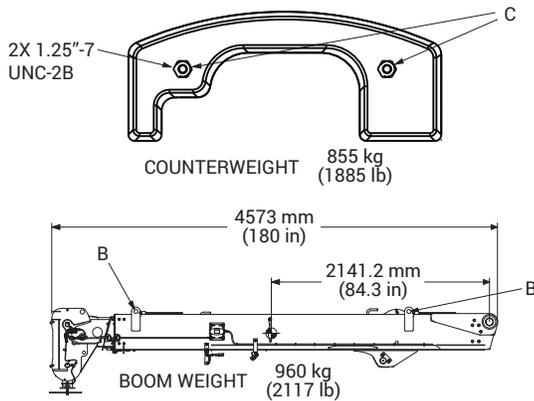
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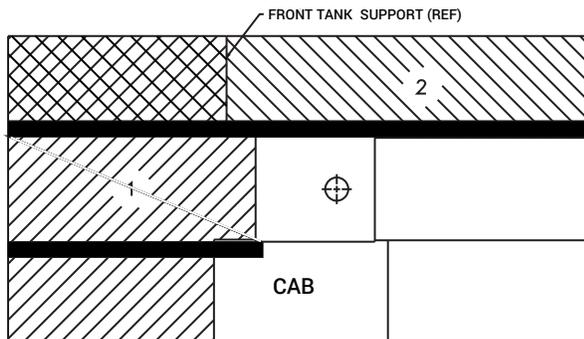
TRANSPORTATION & LIFTING

1. Lifting of entire crane or major crane assemblies must be accomplished by utilizing specific fittings indicated on adjacent chart. Use of fittings for purposes other than those designated on chart is prohibited. Fitting capacities are maximum allowable loads per individual fitting.
2. Rigging personnel shall be responsible for proper selection and placement of all slings and load handling devices.
3. Dimensions and weights shown are estimated for largest configuration available. Weights do not include boom extension and/or jib, unless otherwise indicated.
4. Rigging personnel shall verify dimensions as required for clearance.
5. Do not use counterweight lift locations or boom sling point for lifting or tie down of entire crane.
6. Lifting of the counterweight to be accomplished with a properly rated 1.25" - 7 UNC fitting.

FITTING	NO. / UNIT	LIFT	TOW	TIE DOWN	BOOM LIFT	CWT LIFT	CAPACITY TONS				
							LIFT	TOW	TIE DOWN		
									FORE & AFT	SIDE	DOWN
A	4	X	X	X			18.1 (20)	52.6 (58)	52.6 (58)	6.4 (7)	12.7 (14)
B	4				X		7.3 (8)				
C	2					X	1.6 (1.7)				



Load Distribution For Carrydeck



Maximum Allowable Uniformly Distributed Load

AREA 1
14,000 lb (6350 kg)

OR

AREA 2
9500 lb (4309 kg)

1. Maximum travel speed with any or all loads - 2.5 mph (4 kmh)
2. Loads to be transported on smooth level firm surfaces only.
3. Boom must be retracted and in center forward position, and lowered as much as the load allows.
4. Pick and carry loads may be transported on either Deck Area 1 or Deck Area 2; combined loading of Deck Area 1 and Deck Area 2 not permitted.
5. Lifting is not permitted when carry deck is loaded except for loading and unloading carry deck.
6. The maximum pick and carry loads may be transported on deck area 1 provided the load is centered over the front axle and cribbed directly on the frame rails.

LOAD HANDLING

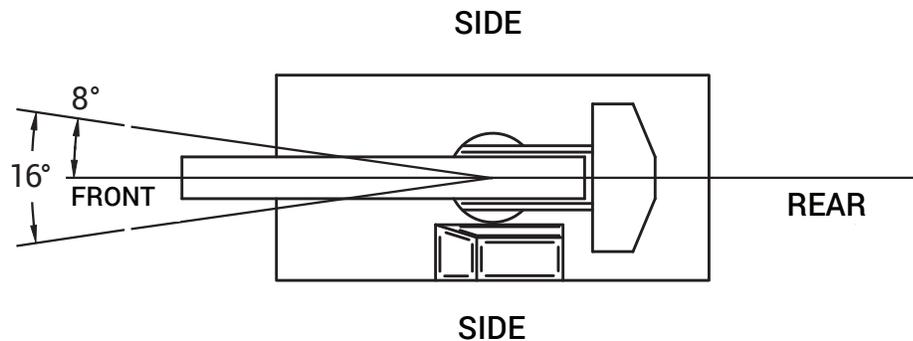
Weight Reductions for Load Handling Devices

12 ft Fixed Offsettable Extension	
*Stowed	N/A
*Erected	740 lb
*Reduction of main boom capacities	
When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.	

Hook Blocks And Headache Balls	
12.5 USt, one-sheave hook block	187 lb+
6.25 USt downhaul weight	135 lb+
+Refer to rating plate for actual weight	
NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.	

Tire Inflation - Bar (PSI)		
Size (Front & Rear)	Ply Rating	Lifting Service, General Travel & Extended Travel
		Static & 2.5 MPH
Deestone 10.00-15 LPT	16	125

Lifting Area Diagram



Line Pulls and Reeving Information

Hoists	Cable Specs.	Permissible Line Pulls	Nominal Cable Length
Main	9/16" 6x19 class Bridon EEIPS (XXIPS) Min. breaking strength 37,000 lb	9000 lb*	120 ft
Main	9/16" 8x25 Galv. Min. breaking strength 43,800 lb	9000 lb*	120 ft
Main	9/16" 35x7 class Python Dynamiq Bright EEIPS+ Min. breaking strength 50,000 lb	9000 lb*	120 ft

The approximate weight of 9/16" wire rope is 0.59 lb/ft.

*With certain boom and hoist tackle combinations, the allowable line pull may be limited by hoist performance. Refer to hoist performance table for lift planning to ensure adequate hoist performance on drum rope layer required.

SPECIFICATIONS

Superstructure



Boom

14.2 ft - 33.2 ft (4,3 m – 10,1 m) full-power main boom. Three-section, full-power, proportional boom.
Maximum tip height: 37 ft (11,3 m)



*Optional Swingaway Extension

12 ft (3,6 m) offsettable swingaway extension. Offsets 0°, 15° and 30° via pivoting boom nose. Stows alongside base boom section.
Maximum tip height: 48 ft (14,6 m)



Boom Nose

Nylatron sheaves mounted on heavy-duty needle roller bearings with removable pin type rope guards. Quick reeve type boom nose with three positions (0°, +40° and +80°) pivoting to minimize head height requirements. Lowers head height by 1.3 ft (0,4 m).



Boom Elevation

Single double acting hydraulic cylinders with integral holding valves provides elevation from 0° to +70°.



Anti-two Block Device

Standard anti-two block device, which, when activated, provides an audible warning to the operator and “locks-out” all functions whose movement can cause two-blocking.



Rated Capacity Limiter (RCL)

Full-color, graphical display of boom angle, boom length, boom radius, rated load and calculated load. Allows for operator inputs to set the crane configuration. RCL system is hardwired and calculates load via pressure transducers in the lift cylinder. Display includes a color-coded light bar and audible alarm with function cut-out if load exceeds the load chart parameters.



Swing

Ball bearing swing circle with 360° continuous rotation. Worm gear and pinion driven by hydraulic motor.
Maximum speed: 2.05 rpm



Hydraulic System

One pressure compensated variable displacement axial piston pump with load sensing.
Maximum output of: 40 gpm (151 lpm).
Maximum operating pressure: 2500 psi (172 bar).
Four-section valve bank, chassis mounted, operated via dash mounted, hydraulic pilot controls. 22.5 gal (85 L) hydraulic reservoir with sight level gauge.
3 micron return line filter with full flow by-pass protection and service indicator.



Hoist Specifications

Geroler motor driven with automatic spring-applied / hydraulically released wet brake. Drum rotation indicator in the hoist joystick control and hoist direction indicator light on dashboard.

Maximum hoist pull (first layer): 10,769 lb (4885 kg)

Maximum permissible single line pull: 9000 lb (4082 kg) (3.5:1 design factor)

Maximum single line speed: 112 fpm (34 m/mm)

Rope construction: 35x7 EEIPS+/WSC

Rope diameter: 9/16 in (14 mm)

Rope length: Main hoist: 120 ft (36.6 m)

Maximum usable rope: Main hoist: 125 ft (38 m)

**Denotes optional equipment*

SPECIFICATIONS

Carrier



Chassis

High-strength alloy frame constructed with integral outrigger housings; front and rear lifting, tie-down , and towing lugs. 25.2 ft² (2,34 m²) carrydeck size with 14,000 lb (6350 kg) deck only carrying capacity. Deck coated with anti-skid treatment.



Outriggers

Hydraulic telescoping beam with oblique type jack provides extended and down retracted and down lifting capacities. Integral holding valves on both beam and jack.

Outrigger pad size: 8 in x 7.87 in (203,2 mm x 200 mm) rectangular steel fabrication

Maximum outrigger pad load: 14,980 lb (6795 kg)



Outrigger Controls

Independent outrigger controls. 360° bubble level located inside cab.



Engine (EPA Tier 4F)

Cummins QSF 2.8 L, four-cylinder / turbo charged water cooled diesel rated at 74 hp (55.1 kW) at 2,500 rpm, includes Cummins catalyst, hour meter, cold start aid (grid heater), 120V engine block heater, and air filter service indicator. Engine shut down feature. Meets EPA emissions. Requires maximum 15 ppm "Ultra Low Sulfur Diesel."

Note: Required for USA and Canada.



Engine (EPA Tier 3)

Cummins QSF EPA, CARB (Tier III) off-highway certified; 4 cylinder turbo charged water cooled diesel; 72 hp @ 2400 RPM. Engine hour meter located in dash display.

Note: Required for sale outside the USA, Canada and European Union; good for up to 5000 ppm sulfur diesel fuel.



Engine (Dual Fuel)

KEM3.0L EFI gasoline /LP gas engine, 07 EPA and CARB certified, 78 hp at 2500 RPM (gasoline) and 63 hp at 2500 RPM (LPG), with engine shutdown feature. (LP tank not included.)



Fuel Tank Capacity

17.7 gal (67 L)



Transmission

Powershift with four speeds forward and three speeds reverse. Stalk mounted direction shifter with rotary gear selection.



Operators Control Station

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls, and overhead safety glass. Other standard equipment includes a deluxe seat with seat belt, hour meter sight level bubble and 2.5 lb (1,13 kg) fire extinguisher.

The dash panel includes a multi-cluster gauge showing fuel, water temperature, battery voltage and engine fault codes. An engine monitoring indicator lamp shows engine warning, stop engine, wait to start, transmission high temperature, low brake system pressure, and hydraulic oil temperature. The RCL display is mounted to the top of the front dash.



*Operators Control Station-Enclosed

Includes the standard cab shell with the addition of front, rear and right side glass, a split (2 piece) hinged door with sliding glass, front windshield wiper and washer, hot water heater and defroster with fan and cab dome light are included.



Electrical system

One 12 V maintenance-free battery, 730 CCA each at 0°.

105 amp alternator Dual fuel

120 amp alternator T3 and T4



Drive

Front-wheel drive as standard

SPECIFICATIONS

Carrier (cont.)



Steering

Standard three steering modes. Front two-wheel, four-wheel coordinated, and four-wheel crab steer with electronic self-alignment, three-position rocker selector on dash panel.

Outside turning radius:

- Two-wheel steer: 5050 mm 198.8 in
- Four-wheel steer: 3180 mm 125.2 in



Axles

- Front: Drive/steer
- Rear: Non-drive/steer
- Front and rear axle are rigid mounted to frame.



Brakes

Hydraulic actuated internal wet-disc service brakes acting on front wheels. Dash mounted toggle switch with light for activating or release of the dry disc parking brake mounted on the axle input.



Tires

Standard: 10.00 x 15, 16 ply, bias type tires



Lights

Full lighting including turn indicators, head, tail brake and hazard warning light recessed mounted.



Maximum Speed

19.2 mph (30.9 km/h)



Gradeability (theoretical)

Gas 84.8% with 14,000 lb (9072 kg) load

LP 69.2% with 14,000 lb (9072 kg) load

Diesel 90.3% with 14,000 lb (9072 kg) load



Gross Vehicle Weight (GVW)

Tier 4 Final Diesel engine with enclosed cab and hookblock: 17,355 lb (7872 kg)

Dual Fuel engine with enclosed cab and hookblock: 17,127 lb (7769 kg)

Miscellaneous Standard Equipment

- Back-up motion alarm
- Outrigger motion alarm
- Hoist drum rotation indicator

* Optional equipment

- Auxiliary lighting package: includes amber strobe light and boom mounted work lights
- Convenience package: includes front and rear pintle hitch and headlight/taillight grille covers
- Enclosed cab package: includes heater and defroster, cab dome light, all window glass, and two-piece split door
- Offsettable swing away boom extension includes bottom swivel hook block for single part usage
- Air conditioning
- 6000 lb (2721,6 kg) capacity hydraulic below-deck mounted tow winch
- Searcher hook
- Vertical light tower
- Hoist drum rotation and rear view camera system

SYMBOLS GLOSSARY



Axles



Chassis



Gross Vehicle Weight (GVW)



Rotation



Anti-Two Block Device



Counterweight



Hoist



Speed



Boom



Drive



Hydraulic System



Steering



Boom Elevation



Electrical System



Lights



Swing



Boom Extension



Engine



Outriggers



Tires



Boom Nose



Extension



Outrigger Controls



Transmission



Brakes



Fuel Tank Capacity



Radius



Cab



Gradeability



Rated Capacity Limiter (RCL)

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