GROVE®
by Manitowoc



GCD09
Product Guide

ASME B30.5
Imperial 85%; Metric 85%

Features

- 8,1 t (9 USt) capacity
- 10,12 m (33.2 ft) three-section full-power boom
- 6,4 t (7 USt) deck carrying ability
- Load sensing hydraulic proportional joystick controls
- Dual fuel and diesel engine options available
- Exclusive pivoting boom nose

GROVE GCD09

The new GCD09 is an 8,1 t (9 USt) capacity carrydeck crane, offering a three-section 10,12 m (33.2 ft) boom, two-wheel drive / four-wheel steer capability. It also has three-position pivoting boom head for low head room clearance and out and down outriggers that can be set up in multiple configurations depending on the jobsite requirements.

Features

> Outriggers

The GCD09 outriggers are two-position (0% and 100%) beam/jack style with integral steel outrigger pads. Equipped with independent outrigger controls.



> 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. The optional enclosed cab with split door design for additional comfort.



> Steering

The GCD09 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.

> Options



- Convenience package includes pintle hitches and light grilles
- Lighting package includes amber strobe light and boom-mounted work lights
- Below-deck winch
- Air-conditioning

> Customized Lift Solution 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
- Oil cooler
- Barge charts
- External light bar
- Spark arrestor

Lift Solutions™

GCD09 benefits



- User friendly powershift transmission. Simplifies switching between gears.
- Designed with the request for storage in mind. The hook block and downhaul weight can be stowed in the front deck storage compartment. A small compartment to the side of the machine is ideal for rigging equipment.
- The compact GCD09 offers two position outriggers. This feature is ideal for those confined workspaces such as narrow aisleways.
- The dual fuel engine is ideal for indoor use and single fuel sourcing for mixed fleets of cranes and other equipment on the jobsite. Optional EPA Tier 4 Final emissions compliant without the use of a SCR or UREA injected DEF system. No Diesel Exhaust Fluid (DEF) required.



Manitowoc Crane Care™

Manitowoc Crane Care when you need it.
The assurance of the world's most advanced crane service and support to get you back to work fast.

Manitowoc Finance™

Manitowoc Finance helps you get right to work generating profits for your business.
Financial tools that help you capitalize on opportunity with solutions that fit your needs.

Table of contents

Dimensions and weights 5

Working range imperial 7

Load charts imperial 8

Working range metric 11

Load charts metric 12

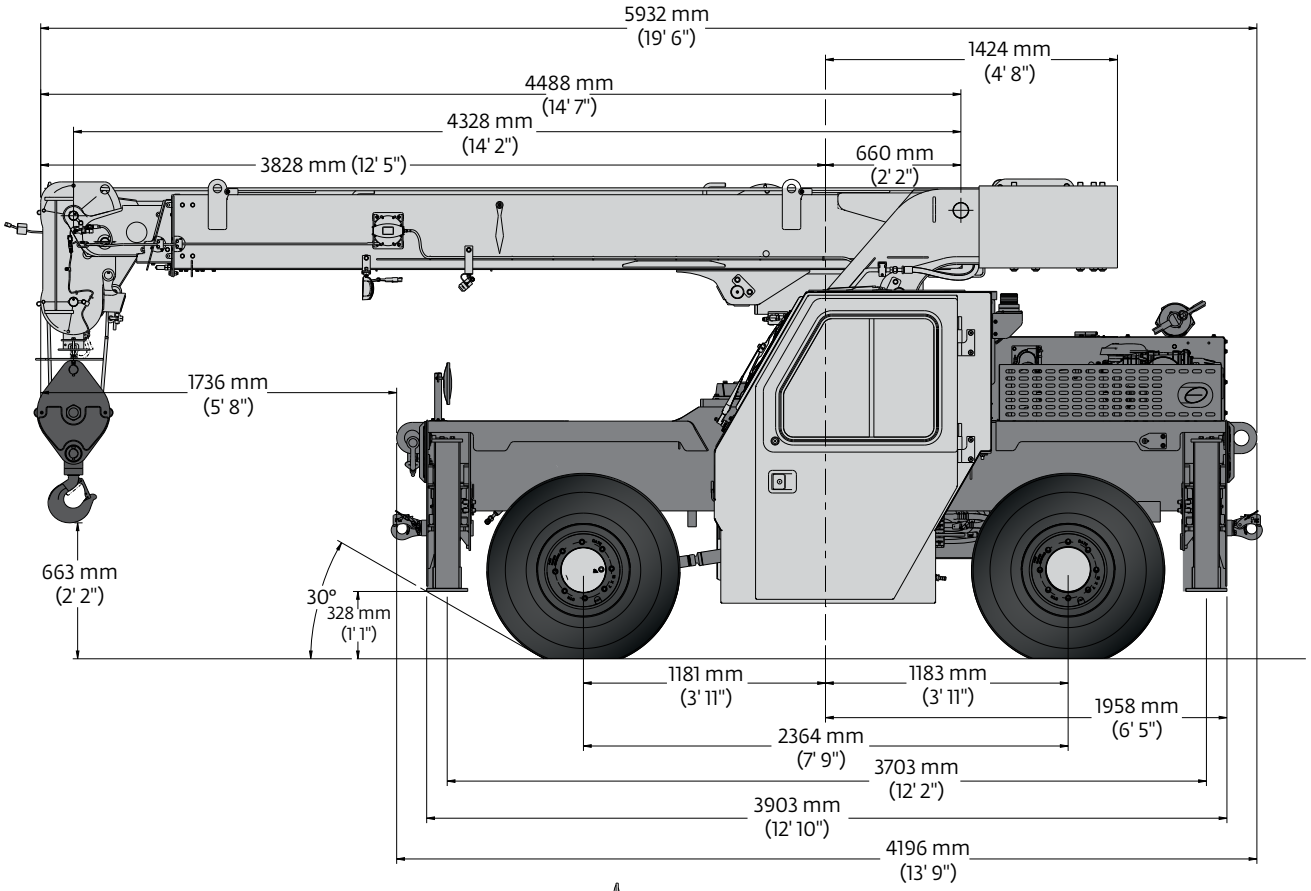
Transportation and lifting data 15

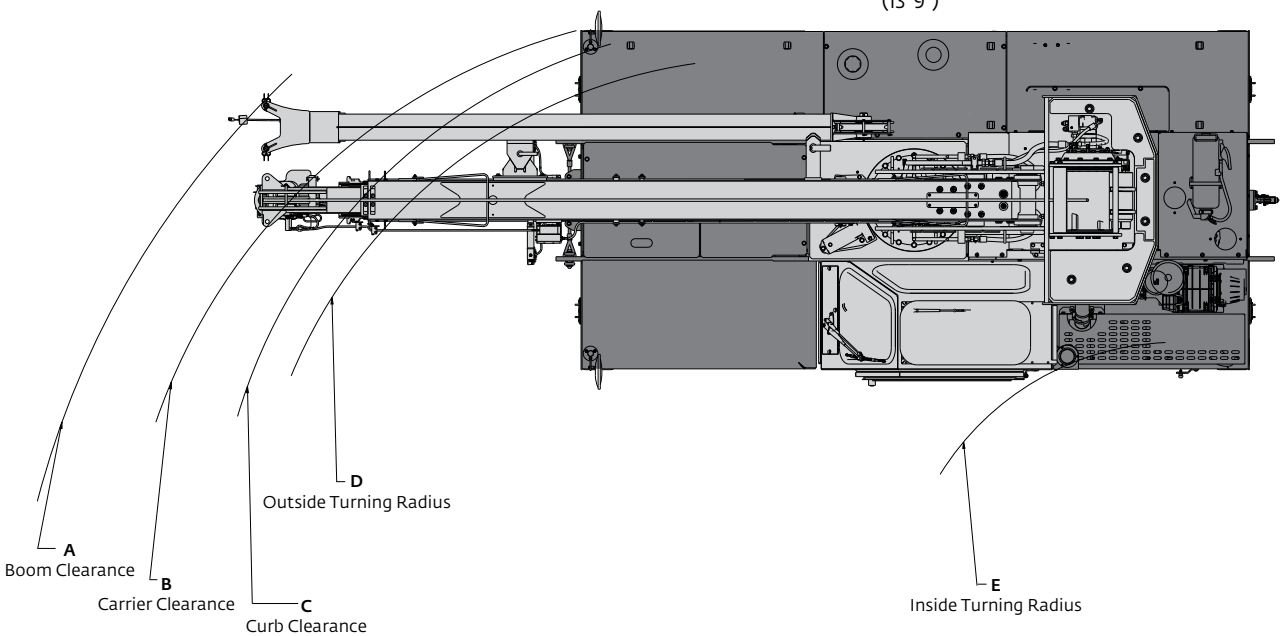
Load handling 16

Specifications 17

Symbols glossary 19

Dimensions and weights

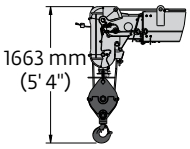




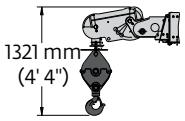
Dimensions										
Tire size	**A**	**B**	**C**	**D**	**E**	**A**	**B**	**C**	**D**	**E**
10/16	6498 mm (255.8 in)	5552 mm (218.6 in)	5191 mm (204.4 in)	5050 mm (198.8 in)	3589 mm (141.3 in)	4646 mm (182.9 in)	3648 mm (143.6 in)	3363 mm (132.4 in)	3180 mm (125.2 in)	1679 mm (66.1 in)
	Two-wheel steer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

Dimensions and weights

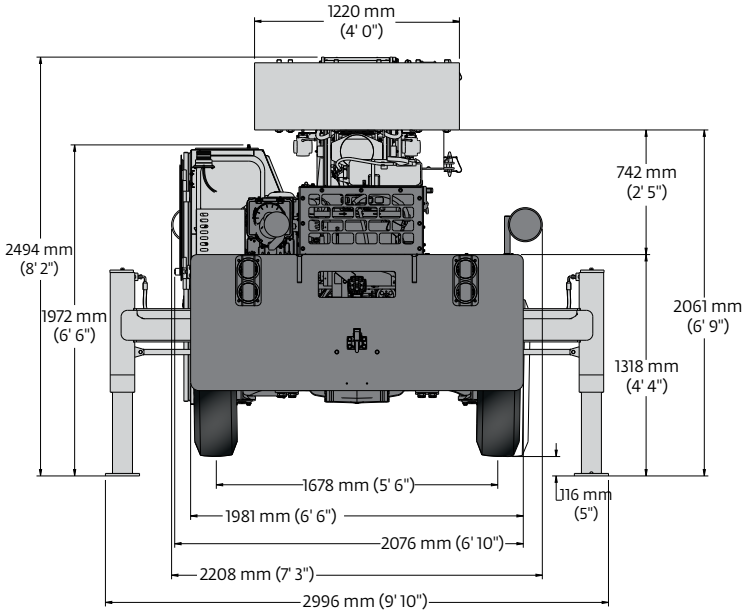
0° BOOM HEAD



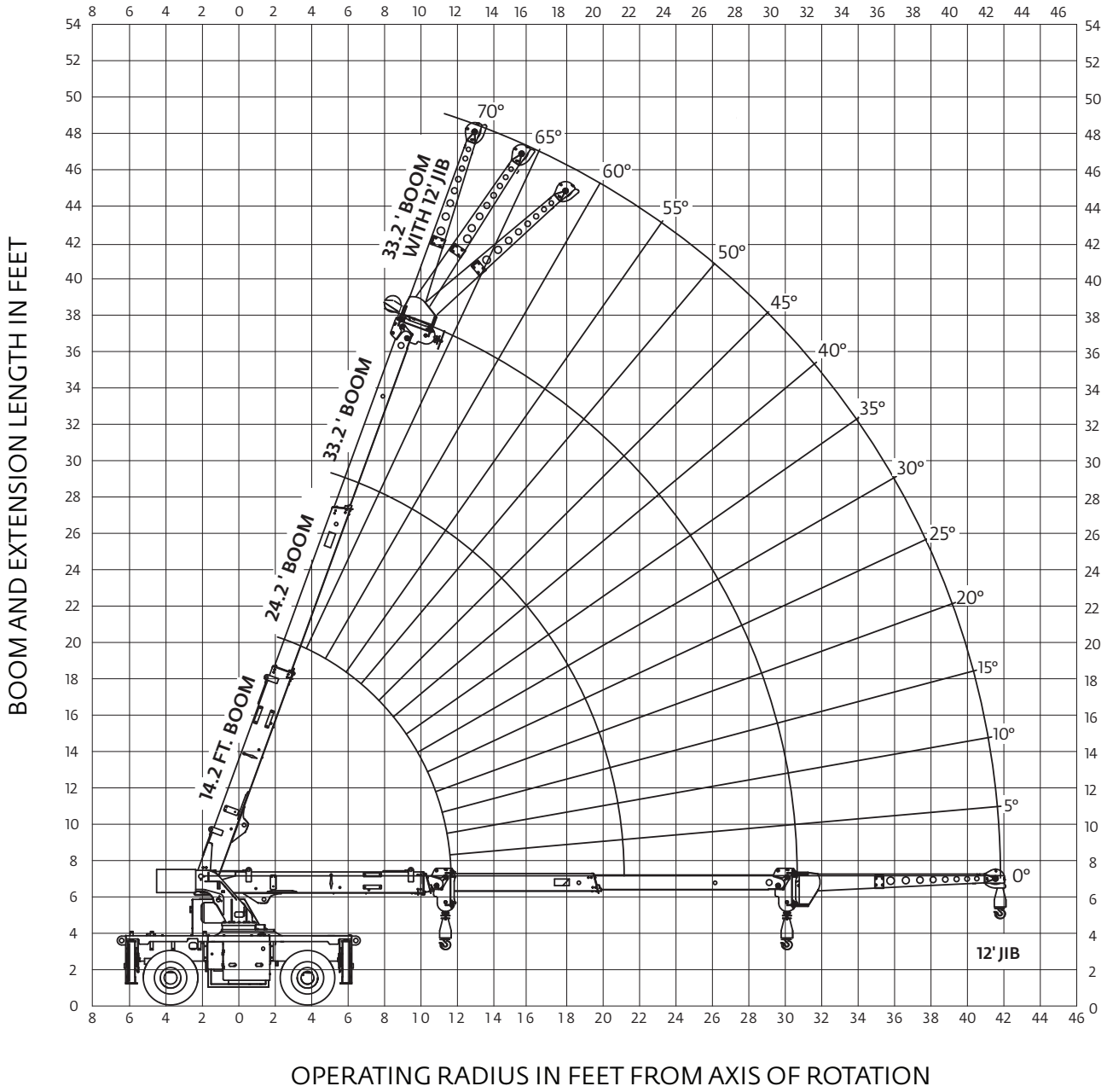
80° BOOM HEAD



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



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



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


14.2 ft - 33.2 ft


100%


360°



Pounds

Radius in 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)	9280 (69)	
10	10,350 (38)	9120 (63.5)	
12	7830 (0)	8040 (58)	7430 (68)
14		6820 (52)	6620 (64)
16		5470 (45.5)	5680 (60)
18		4510 (37.5)	4690 (55.5)
20		3800 (28)	3950 (51)
22		3250 (0)	3380 (46.5)
24			2920 (41)
26			2550 (35)
28			2240 (28)
30			1980 (17.5)
31			1870 (0)

NOTE: ( ) Boom angles are in degrees.

80089495


14.2 ft - 33.2 ft


100% or 0%


Defined arc over front



Pounds

Radius in 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)	9280 (69)	
10	10,350 (38)	9120 (63.5)	
12	7830 (0)	8040 (58)	7430 (68)
14		7200 (52)	6620 (64)
16		5980 (45.5)	5990 (60)
18		4940 (37.5)	5010 (55.5)
20		4170 (28)	4230 (51)
22		3570 (0)	3640 (46.5)
24			3160 (41)
26			2790 (35)
28			2470 (28)
30			2210 (17.5)
31			2120 (0)

NOTE: ( ) Boom angles are in degrees.

80089497

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12 ft


100%


360°




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				

80089498

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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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


14.2 ft - 33.2 ft


Stationary


Defined arc over front


Stationary


360°


Pick & Carry


Over front




Pounds

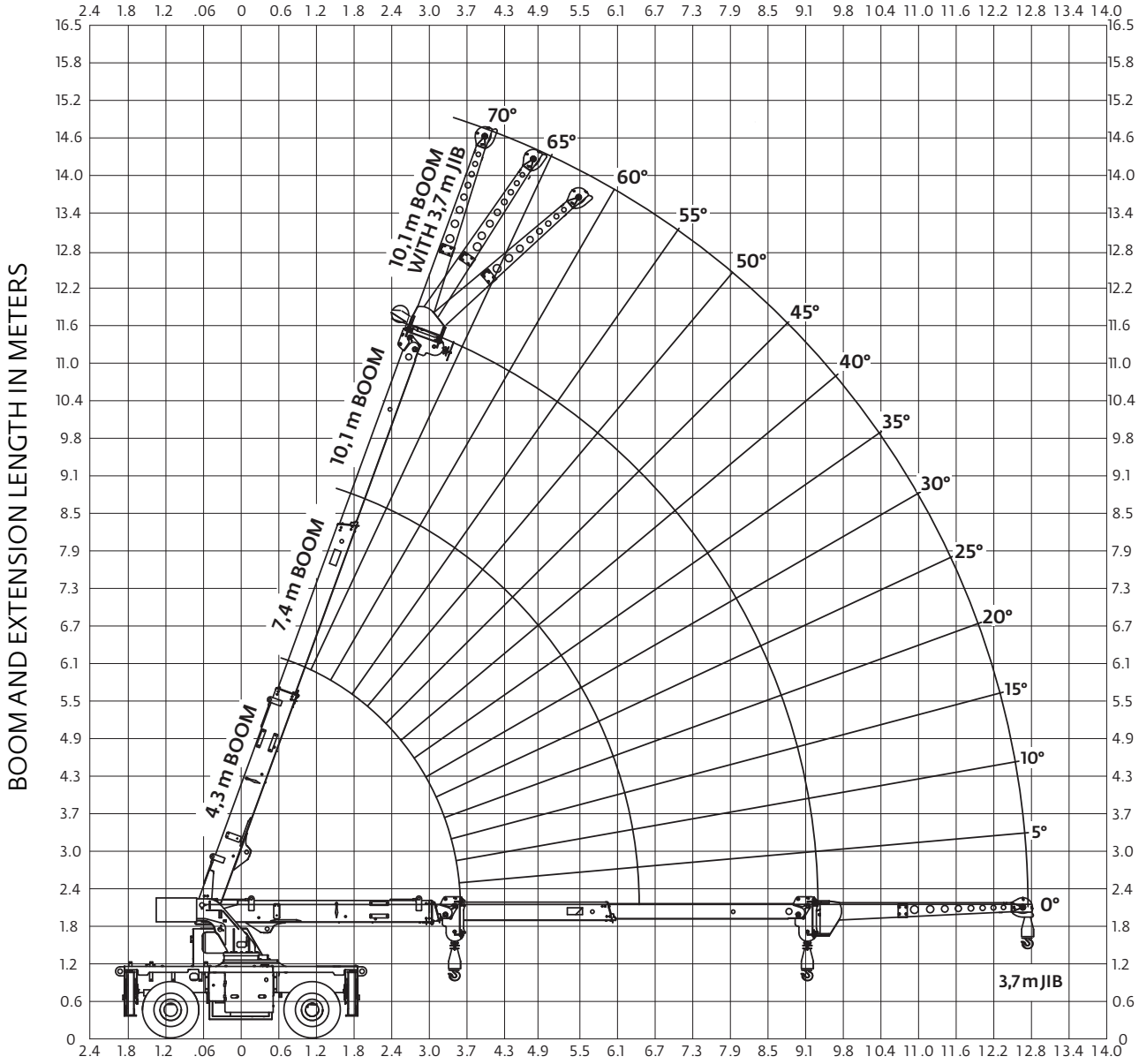
Radius in Feet	Defined Arc 8° Over Front	Stationary 360°
5	13,450	10,500
6	11,950	8610
8	9730	6540
10	8100	4570
12	5890	3350
14	4830	2720
16	3880	2210
18	3190	1840
20	2680	1500
22	2280	1220
24	1970	1150
26	1700	980
28	1470	830
30	1280	710
31	1200	660

80089499

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

4,3 m - 10,1 m | 100% | 360°

Kilograms

Radius in 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	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)

NOTE: ( ) Boom angles are in degrees.

4,3 m - 10,1 m | 100% or 0% | Defined arc over front

Kilograms

Radius in 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	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)

NOTE: ( ) Boom angles are in degrees.

80094033

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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					

80094034

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.

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

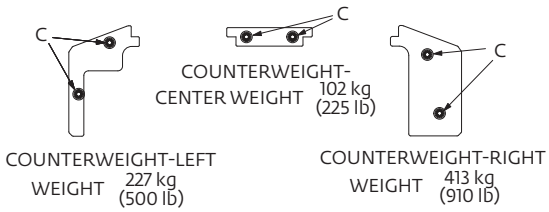
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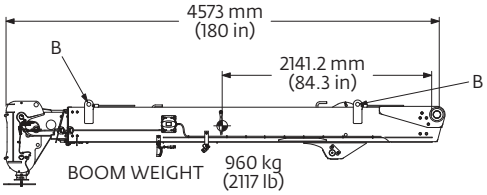
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2. Capacities are applicable to machines equipped with 10.00x15 (16 ply) at 8.6 bar cold inflation pressure.
3. Capacities are applicable only with machine on a smooth, level and firm surface.
4. Defined Arc - Over front includes 8° on either side 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.

TRANSPORTATION AND LIFTING DATA

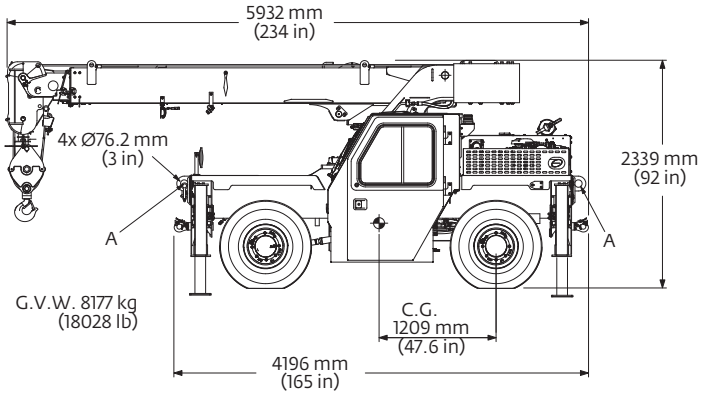
1. LIFTING OF ENTIRE CRANE OR MAJOR CRANE ASSEMBLIES MUST BE ACCOMPLISHED BY UTILIZING SPECIFIC FITTINGS INDICATED ON ADJACENT CHART. USE OF FITTINGS FOR PURPOSES OTHER THAN THOSE DESIGNATED ON CHART IS PROHIBITED. FITTING CAPACITIES ARE MAXIMUM ALLOWABLE LOADS PER INDIVIDUAL FITTING.
2. RIGGING PERSONNEL 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"-8 UNC FITTING.

FITTING	NO. / UNIT	LIFT	TOW	TIE DOWN	BOOM LIFT	CWT LIFT	CAPACITY-TONNES [TONS] LIFT	TOW	TIE DOWN FORE & AFT	TIE DOWN SIDE	TIE DOWN 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]				



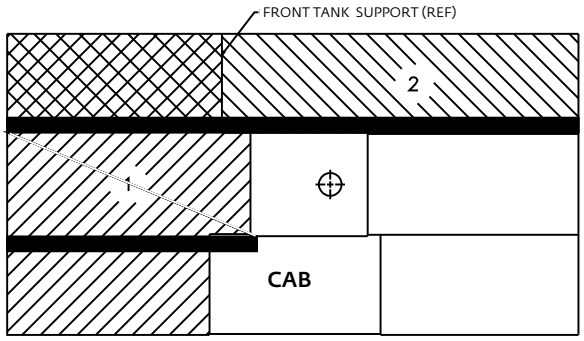


G7



TOTAL UNIT (W/ BOOM EXTENSION)

LOAD DISTRIBUTION FOR CARRYDECK



Maximum Allowable Uniformly Distributed Load

AREA 1
6350 kg (14,000 lb)

OR

AREA 2
4309 kg (9500 lb)

1. Maximum travel speed with any or all loads - 4 kmh (2.5 mph)
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+

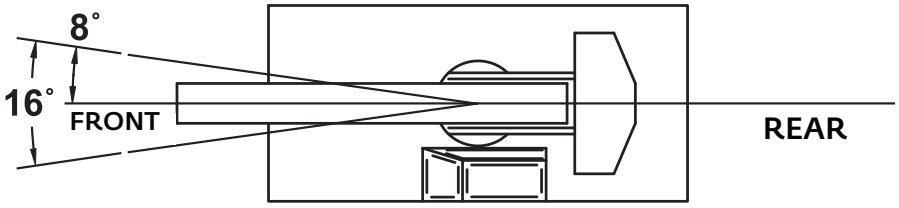
+Refer to rating plate for actual weight

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
SAMSON 10.00x15 LPT	16	125

LIFTING AREA DIAGRAM

SIDE



SIDE

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

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
4,3 m – 10,1 m (14.2 ft - 33.2 ft) full-power main boom. Three-section, full-power, proportional boom.

Maximum tip height: 11,3 m (37 ft)

Optional swingaway extension
3,6 m (12 ft) offsettable swingaway extension. Offsets 0°, 15° and 30° via pivoting boom nose. Stows alongside base boom section.

Maximum tip height: 14,6 m (48 ft)

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 0,4 m (1.3 ft).

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: 151 lpm (40 gpm).

Maximum operating pressure: 172 bar (2500 psi).

Four-section valve bank, chassis mounted, operated via dash mounted, hydraulic pilot controls. 85 L (22.5 gal) 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): 4885 kg (10,769 lb)

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

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

Rope construction: 6X19 XXIPS IWRC

Rope diameter: 14 mm (9/16 in)

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

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

Carrier

Chassis
High-strength alloy frame constructed with integral outrigger housings; front and rear lifting, tie-down , and towing lugs. 2,34 m² (25.2 ft²) carrydeck size with 6350 kg (14,000 lb) 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:
203,2 mm x 200 mm (8 in x 7.87 in) rectangular steel fabrication
Maximum outrigger pad load: 6795 kg (14,980 lb)

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 55.1 kW (74 hp) 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)
GM3.0L 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.)

**Denotes optional equipment*

Specifications

Fuel tank capacity
67 L (17.7 gal)

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 1,13 kg (2.5 lb) 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

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

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

Maximum speed
30.9 km/h (19.2 mph)

Gradeability (theoretical)
Gas 84.8% with 9072 kg (14,000 lb) load
LP 69.2% with 9072 kg (14,000 lb) load
Diesel 90.3% with 9072 kg (14,000 lb) load

Gross vehicle weight (GVW)
Tier 4 Final Diesel engine with enclosed cab and hookblock: 7872 kg (17,355 lb)
Dual Fuel engine with enclosed cab and hookblock: 7769 kg(17,127 lb)

Miscellaneous standard equipment
- Back-up motion alarm
- Outrigger motion alarm
- Hoist drum rotation indicator

*Optional equipment
- Auxiliary lighting: 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 with hook and downhaul weight
- Air conditioner
- 3401,9 kg (7500 lb) capacity hydraulic below-deck mounted tow winch
- Searcher hook

**Denotes optional equipment*

Specifications


Axles


Drive


Hoist


Rated Capacity Limiter (RCL)


Boom


Electrical system


Hook block


Rotation

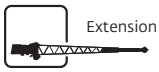

Boom elevation


Engine


Hydraulic system


Speed


Boom extension


Extension


Insert


Steering


Boom length


Frame


Lights


Suspension


Boom nose


Fuel tank capacity


Oil


Swing


Brakes


Gear


Outrigger controls


Tires


Cab


Grade


Outriggers


Transmission


Counterweight


Heavy-duty jib


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