

RT-300-2G

Rough Terrain Crane



cranelistings.com

RT-300-2G

Specifications

WEIGHTS

Operating Weight

44,800 pounds (20,320 kg)

Empty Weight

23,730 pounds (10,310 kg)

Counterweight Weight

22,070 pounds (10010 kg)

Maximum Boom Angle

24 degrees

Maximum Boom Angle

22 degrees

Maximum Grade

70% grade (35 degrees)

Minimum Boom Extension (Min.)

15' 7" (4.75 m)

35' 2" (10.72 m)

Maximum Capacity

30,000 pounds (13,600 kg)

Maximum Speed

23 miles per hour (37 km/h)

ENGINE

Brand

Cummins

Model

QSB4.5L Tier 4i

Configuration

Turbo Diesel, Charge Air Cooled

Displacement

4.5L

Maximum Torque

468 ft lbs (635 Nm) @ 1500 rpm

Maximum Power

163 hp (125 kW) @ 2500 rpm

Capacity

50 Gallon (190L) Capacity

TRANSMISSION

6-Speed Powershift with Torque Converter, Oil Cooler and Oil Filter

GEARBOX

Gear Ratio

16.42:1

STEERING

4-Wheel Hydraulic Disc Brakes

Disc-type spring-applied and hydraulically-released

STEERING UNIT

Hydraulic steering unit with two 3.5 inch (8.9 cm) cylinders attached to each axle. Allows limited steering when engine is not running. A switch on the control panel is used to select front-wheel steering, 4-wheel steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

TIRES

17.5 x 25, 20-ply rating, Mud Lug.

OUTRIGGERS

Configuration

Four independently controlled outriggers of swing-down design. Hydraulic cylinders are equipped with direct connected holding valves.

OPERATOR STATION

Operator control station provides one-position access to all chassis and crane controls.

Configuration

Consists of rigid-mounted canopy section and two removable hinged doors with safety glass. Includes heater with two-speed fan, 12-volt power outlet and defroster fan.

INSTRUMENTS

Configuration

Fuel, transmission oil temperature, voltmeter, engine oil pressure, water & hydraulic oil temperature gauges, & hourmeter.

Configuration

Includes dual-beam headlights with turn signal lights. Taillights with brake & turn signal light. Back-up lights.

Configuration

102 dB alarm with alternating two-tone sound is activated when "outrigger down".

HYDRAULIC PUMP

Triple gear pump, mounted on and driven by the main transmission, delivers 14, 28 and 40 gpm (53, 106 and 151 L/min) at 3,000 psi (207 bar) and 2,500 rpm engine speed. Hydraulic oil tank capacity of 70 gallons (265L).

HYDRAULIC CYLINDERS

Configuration	Continuous	3.5 RPM
0-70 Degrees	22 Seconds	
40 ft (12.19 m)	25 Seconds	

BOOM ASSEMBLY

Boom assembly equipped with bearing pads. Double-acting hydraulic cylinders, equipped with a holding valve, extend & retract the second and third boom sections. Double runs of high strength leaf chain extend & retract the fourth section. Boom angle indicator included on left side of boom. Twin, double-acting hydraulic cylinders control the boom elevation & are equipped with direct-connected holding valves.

ROTATION

Heavy-duty ball bearing with external teeth rotation gear. Rotation is by hydraulic motor and compound planetary gear drive. A spring-applied hydraulically released brake and an over-running load valve are provided. Hydraulic centerpost and electric slip rings allow continuous rotation.

DRUMS

Configuration

Configuration

Configuration

13,100 lbs (5,940 kg)

Configuration

350 ft (107 m) of 9/16 in (14 mm) dia

Configuration

Configuration

185 fpm (56 m/min)

Configuration

240 fpm (73 m/min)

DOWNHAUL

Double sheave block for four-part-line requirement. Downhaul weight and hook also included.

ROPE PROTECTION

Prevents damage to hoist rope and/or machine components from accidentally pulling load hook against boom tip.

OVERLOAD PROTECTION

Warns operator of impending overload with audible & visual signals. In the event of overload, stops boom functions that increase overloads. Displays boom length, angle, load radius, load & capacity.

RT-300-2G

Options

RT-300-2G is a 300,000 lb capacity crawler crane with a 200 ft boom. It is designed for use in the construction industry. The crane is equipped with a 1000 hp engine and a 1000 ft/min boom speed. It is also equipped with a 1000 ft/min boom speed. The crane is also equipped with a 1000 ft/min boom speed.

Options

Spare Wheel & Tire:
17.5 x 25, 20-Ply Tire

Options

Options

Four bolt on steel fenders over tires

Options

Planetary gear winch mounted on front outrigger frame, with single-lever control on the operator console. Operator Guard required.

Options

Lifting eyes on corners of the chassis and the turntable so slings can be attached for lifting crane.

Options

Consists of four eyes, two on the front and two on the rear for towing.

Options

Pintle hook mounted on the front outrigger housing, 24-ton capacity.

Options

Pintle hook mounted on the rear outrigger housing, 24-ton capacity.

Options

Options

12-volt electric wiper on top window operated with its own switch.

Options

Tubular steel weldment with heavy expanded steel mesh top & grille front section

Options

Options

Full-suspension with adjustments for height, tilt, fore/aft, operator weight with armrest adjustment.

Options

Full-suspension with adjustments for height, tilt, fore/aft, operator weight with armrest adjustment.

Options

Vinyl mat with foam backing

Options

Air Conditioning with R134 coolant.

Options

Options

Yellow strobe light mounted on top of engine hood for high visibility.

Options

One halogen work light mounted to boom to light boom tip and one work light mounted to turret to light ground under boom tip.

Options

20-Ft Offsettable Boom Extension. Boom stowable. Offsets include 0 (in-line), 15 or 30 degree

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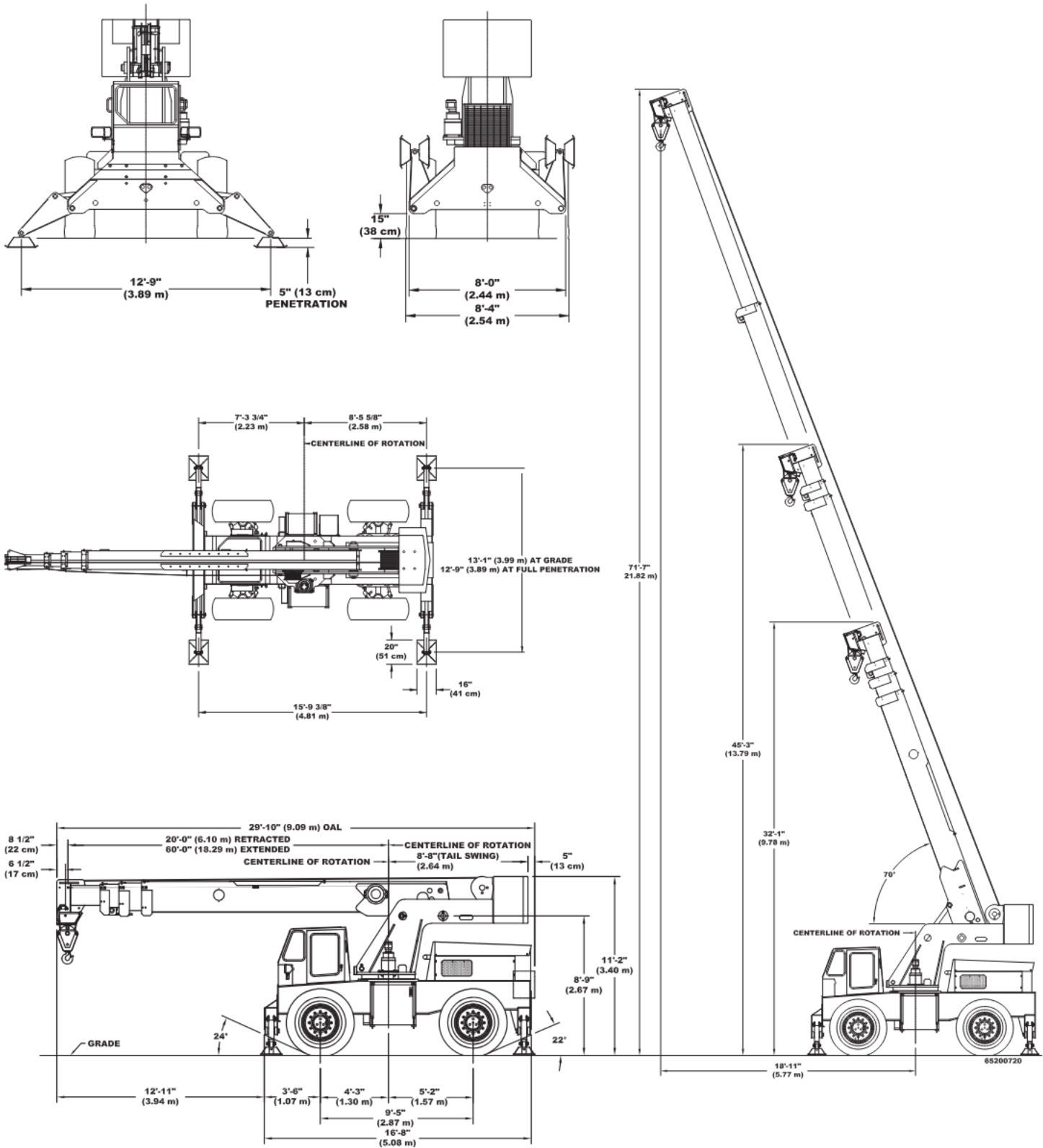
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Lenexa, KS 66215 USA

Tel (913) 888-0606
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Dimensions and values shown are
for reference purposes only.
Specifications subject to change.



RT-300-2G

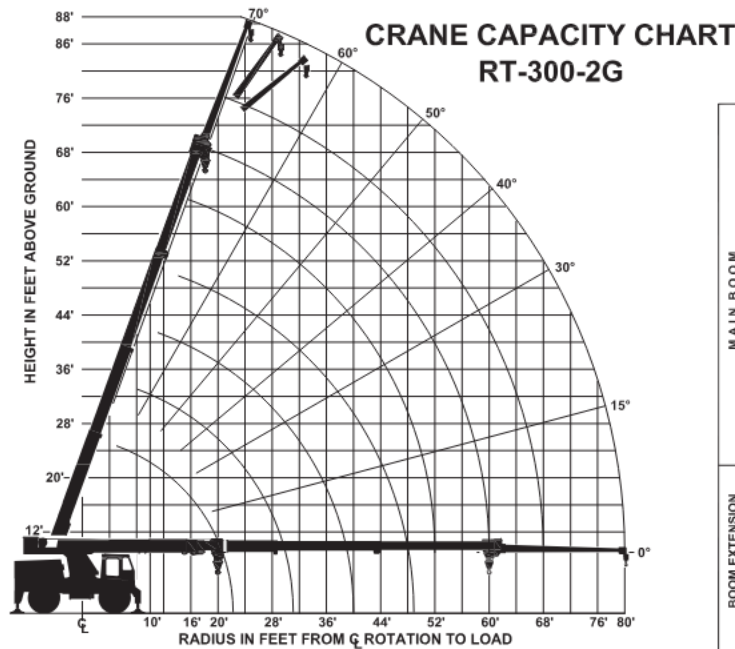


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Load Chart

RT-300-2G

Rough Terrain Crane



LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED PART OF THE LOAD EXCEPT FOR HOIST ROPE.

LOAD RADIUS FEET	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE			
	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS			
	360° ROTATION		OVER FRONT	
	ON RUBBER	ON OUTRIGGERS	ON RUBBER	ON OUTRIGGERS
10	18300	30000	26300	30000
12	13500	28500	22500	28500
14	10400	25900	17600	25900
16	8300	22500	14000	22500
18	6700	19500	11400	19500
20	5500	16900	9400	17000
22	4500	14200	7900	15000
24	3700	12100	6800	13300
26	3100	10500	5700	11900
28	2500	9100	4800	10600
30	2000	7900	4200	9600
32	1600	6900	3600	8600
34	1400	6300	3200	8000
36	1200	5700	2900	7500
38	900	5200	2600	6900
40	800	4800	2400	6500
44	600	4100	1900	5600
48	----	3500	1600	4900
52	----	3100	1300	4200
56	----	2700	1000	3700
60	----	2300	800	3200
64	----	1950	----	2300
68	----	1750	----	2300
72	----	1500	----	2250
76	----	1300	----	1950
80	----	1000	----	1600

BOOM EXTENSION	20-FOOT BOOM EXTENSION CAPACITIES						
	MAIN BOOM ANGLE						
	0°	15°	30°	40°	50°	60°	70°
0°	2300	2400	2700	3100	3700	4800	6200
15°	----	2300	2400	2600	2900	3400	4100
30°	----	----	2300	2400	2500	2700	3100

DO NOT POSITION BOOM AT LOAD RADII WHERE NO LOAD CAPACITIES ARE SHOWN.

EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZARDOUS, AND VOIDS WARRANTY.

CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK AND CARRY WITH LOADS ON BOOM EXTENSION.

LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED.

CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINES ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPACITY.

PICK AND CARRY WITH THE SHORTEST PRACTICAL BOOM, CENTERED OVER THE FRONT. OPERATE WITH BOOM AS LOW AS POSSIBLE, WITH THE LOAD CLOSE TO THE GROUND. PICK AND CARRY CAPACITIES ARE FOR SMOOTH, LEVEL PAVED SURFACE. FOR UNPAVED SURFACE REDUCE CAPACITY BY AT LEAST 25%. SPEED MUST BE LESS THAN 3 MPH.

THE BOOMS ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING - NO ELECTRICAL INSULATION VALUE.

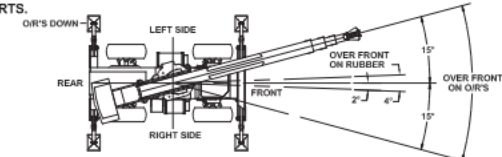
MAXIMUM HYDRAULIC PRESSURE: 3000 PSI

BOOM EXTENSION DEDUCT: 500 LBS WHEN STOWED ON BASE BOOM

ENSURE ANTI-TWO-BLOCK SWITCH IS FUNCTIONAL AFTER DEPLOYING OR STOWING BOOM EXTENSION.

OPERATION:

1. READ AND UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.
2. CHECK LEVEL OF HYDRAULIC OIL AND ENGINE OIL DAILY.
3. CHECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.
4. SET VEHICLE PARK BRAKE SECURELY.
5. EXTEND OUTRIGGERS TO SOLID FOOTING AND LEVEL CRANE.
6. OPERATE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS.



THE LOAD HOIST LINE ON THIS UNIT MUST BE 9/16" DIA. 6X36-EIP-RLL-JWRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 33,600 LBS.

APPROVED TIRES: 17.5-25 20 PR - 100 PSI

TORQUE WHEEL NUTS TO 475 FT. LBS. (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE.)

MODEL NO.	SERIAL NO.	DATE OF MFR.
RT-300-2G		

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LENEXA, KANSAS

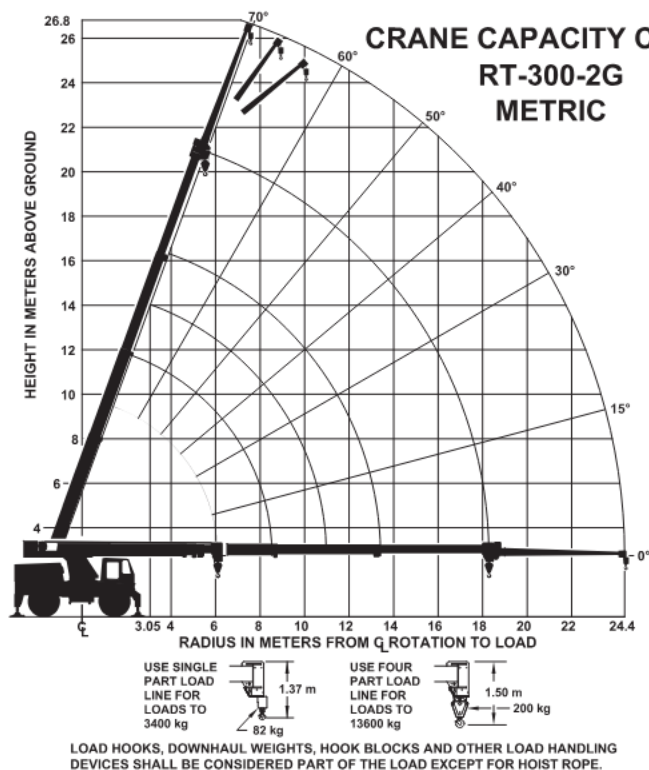
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Load Chart

RT-300-2G

Rough Terrain Crane



CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE				
LOAD RADIUS METERS	MAIN BOOM OR EXTENSION CAPACITIES IN KILOGRAMS			
	360° ROTATION		OVER FRONT	
	ON RUBBER	ON OUTRIGGERS	ON RUBBER	ON OUTRIGGERS
3.05	8300	13600	11900	13600
3.5	6540	13160	10700	13160
4	5310	12290	8940	12290
4.5	4320	11160	7290	11160
5	3660	9920	6080	9920
5.5	3020	8820	5150	8820
6	2570	7850	4390	7870
7	1850	5930	3340	6410
8	1370	4680	2520	5320
9	960	3700	1970	4460
10	690	3020	1540	3770
11	540	2570	1310	3390
12	370	2230	1120	3000
13	300	1960	930	2670
13.41	270	1860	860	2540
14	---	1720	790	2380
15	---	1530	680	2120
16	---	1380	570	1870
17	---	1230	460	1690
18	---	1080	380	1500
18.29	---	1040	360	1450
19	---	940	---	1190
20	---	840	---	1040
22	---	670	---	1010
24	---	500	---	770
24.38	---	450	---	720

6.1 METER BOOM EXTENSION CAPACITIES							
BOOM EXTENSION ANGLE	MAIN BOOM ANGLE						
	0°	15°	30°	40°	50°	60°	70°
0°	1040	1090	1220	1400	1680	2170	2810
15°	---	1040	1090	1180	1310	1540	1860
30°	---	---	1040	1090	1130	1220	1400

DO NOT POSITION BOOM AT LOAD RADII WHERE NO LOAD CAPACITIES ARE SHOWN.

EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZARDOUS, AND Voids WARRANTY.

CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK AND CARRY WITH LOADS ON BOOM EXTENSION.

LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED.

CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINES ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPACITY.

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THE BOOMS ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING - NO ELECTRICAL INSULATION VALUE.

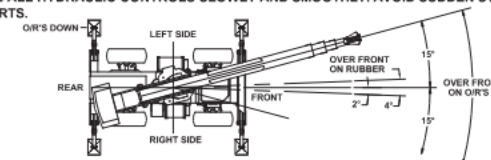
MAXIMUM HYDRAULIC PRESSURE: 207 bar

BOOM EXTENSION DEDUCT: 230 kg WHEN STOWED ON BASE BOOM

ENSURE ANTI-TWO-BLOCK SWITCH IS FUNCTIONAL AFTER DEPLOYING OR STOWING BOOM EXTENSION.

OPERATION:

1. READ AND UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.
2. CHECK LEVEL OF HYDRAULIC OIL AND ENGINE OIL DAILY.
3. CHECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.
4. SET VEHICLE PARK BRAKE SECURELY.
5. EXTEND OUTRIGGERS TO SOLID FOOTING AND LEVEL CRANE.
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THE LOAD HOIST LINE ON THIS UNIT MUST BE 14 mm DIA. 6X36-EIP-RR-L-IWRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 149 kN.

APPROVED TIRES: 17.5-25 20 PR - 690 kPa

TORQUE WHEEL NUTS TO 645 Nm (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE.)

MODEL NO.	SERIAL NO.	DATE OF MFR.
RT-300-2G		

BRODERSON MANUFACTURING CORP.
LENEXA, KANSAS

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