



30,000 lbs. (13,600) at 10 ft. (3.05) Radius

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 30,000 lbs (13,600 kg)
- Pick and Carry Capacity ... up to 18,300 lbs (8,300 kg)
- Height ... 11' 2" (3.4 m)
- Width ... 8' 4" (2.54 m)
- Boom Rotation ... 360 Degree Continuous
- Sheave Height ... up to 87' 11" (26.8 m)
- Horizontal Reach ... up to 80' (24.38 m)
- 4-Wheel Steer ... Standard
- 4-Wheel Drive ... Standard
- Powershift Transmission ... Standard
- Fully Hydraulic Controls for Smooth Precise Operations
- Independent Outrigger Controls
- Diesel Engine... Standard

BRODERSON Manufacturing Corp.



GENERAL:

Woight

weight		
Total	44,800 pounds (20,320 kg)	
Front Axle	23,730 pounds (10,310 kg)	
Rear Axle	22,070 pounds (10010 kg)	
Angle of Approach	24 degrees	
Angle of Departure	22 degrees	
Gradeability	70% grade (35 degrees)	
Turning Radius: 4-Wheel	Steer: (Min.)	
Outside Tire C/L Radiu	s 15' 7" (4.75 m)	
Vehicle Clearance Circle (Dia.) 35' 2" (10.72 m)		
Drawbar Pull	30,000 pounds (13,600 kg)	
Road Speed	23 miles per hour (37 km/h)	

ENGINE:

Make	Cummins
Model	QSB4.5L Tier 4i
Туре	Turbo Diesel, Charge Air Cooled
C.I.D.	4.5L
Max. Torque	468 ft lbs (635 Nm) @ 1500 rpm
Rated HP	163 hp (125 kW) @ 2500 rpm
Fuel Tank	50 Gallon (190L) Capacity

TRANSMISSION:

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

AXLES:

Front and Rear Axles:

Gear Ratio 16.42:1

BRAKES:

Service - 4-Wheel Hydraulic Disc Brakes

Parking - Disc-type spring-applied and hydraulically-released

STEERING:

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:

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

CHASSIS:

Outriggers:

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

OPERATOR COMPARTMENT:

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

All Weather Cab:

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.

ELECTRICAL SYSTEM:

12-VOLT DC SYSTEM

Instrument Group:

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

Lighting Kit

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

Outrigger Alarm System:

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

HYDRAULIC SYSTEM:

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).

BOOM ASSEMBLY:

	Boom Movement	Boom Speeds
Rotation	Continuous	3.5 RPM
Elevation	0-70 Degrees	22 Seconds
Extension	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 directconnected holding valves.

Boom 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.

Boom Hoist:

Turret	Moun	ted
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Hydraulic Powered

Bare Drum Line Pull	13,100 lbs (5,940 kg)
Wire Rope	350 ft (107 m) of 9/16 in (14 mm) dia
Line Speed:	
Bare Drum	185 fpm (56 m/min)
Full Drum	240 fpm (73 m/min)

4-Part-Line Sheave Block:

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

Anti-Two-Block Device:

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

Rated Capacity Limiter:

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.



Listed below are brief descriptions of options available for this product. Consult the RT-300-G Engineering Spec for additional information.

TIRE OPTIONS:

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

CHASSIS OPTIONS:

Fenders:

Four bolt on steel fenders over tires

Auxiliary Front Winch:

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

Lifting Eyes

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

Towing Eyes

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

Pintle Hook, Front

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

Pintle Hook, Rear

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

OPERATOR COMPARTMENT OPTIONS:

Window Wiper - Top Window

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

Operator Guard

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

Operator Suspension Seats

Seats Inc. - Cloth

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

Seats Inc. - Vinyl

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

Floor Mat

Vinyl mat with foam backing

Air Conditioning

Air Conditioning with R134 coolant.

ELECTRICAL OPTIONS:

Strobe Light

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

Boom Work Lights

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

BOOM ATTACHMENT OPTIONS:

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

Should you require an option or special equipment not listed please consult your dealer salesperson or BMC®.

BRODERSON®

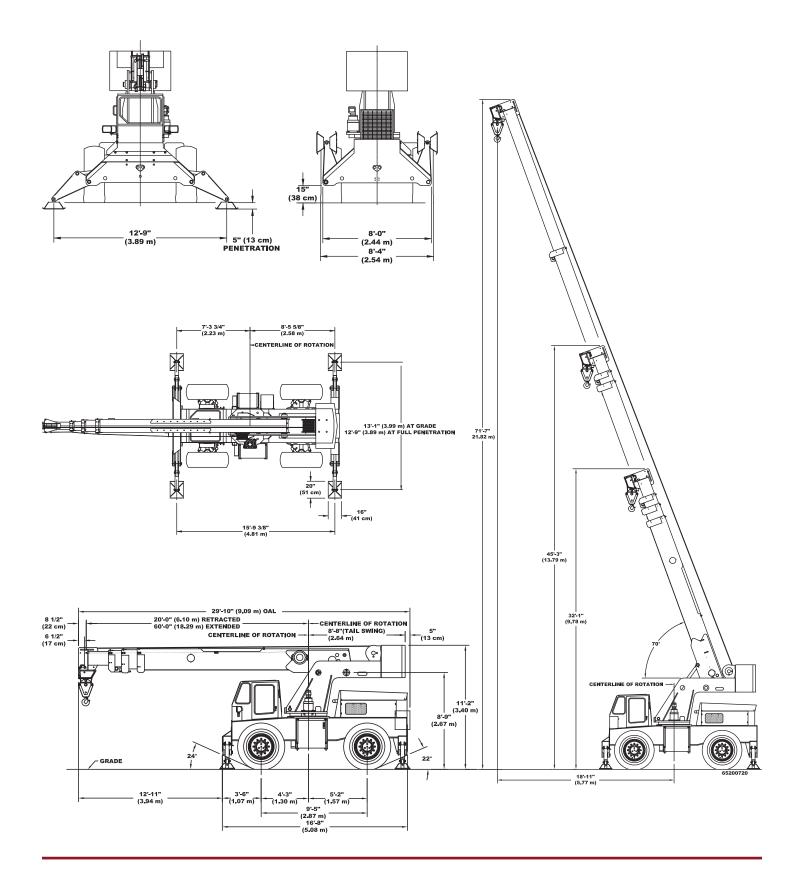
Manufacturing Corp. 14741 West 106th Street Lenexa, KS 66215 USA Tel (913) 888-0606 Fax (913) 888-8431 www.bmccranes.com Dimensions and values shown are for reference purposes only. Specifications subject to change.



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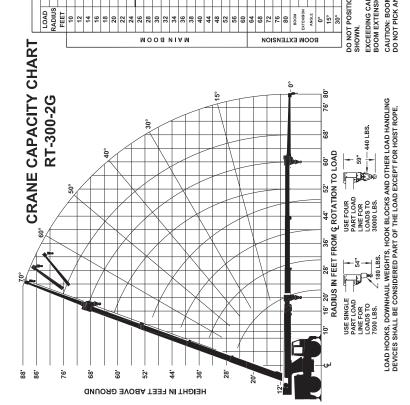
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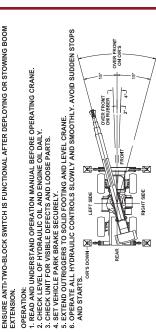
DMC Load Chart





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GENERATION STATE ATTINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZARDOUS, AND YOIDS WARRANTY. CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK AND CARRY WITH LOADS ON BOOM EXTENSION.



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

LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED. PICK AND CARRY WITH THE SHORTEST PRACTICAL BOOM, CENTERED OVER THE FRONT. DEPERATE WITH BOOM AS LOW AS POSIBLE, WITH THE LOAD CLOSE TO THE ROUND. PICK AND CARRY CAPACITIES ARE FOR SMOOTH, LEVEL PAVED SUBFACE. FOR UNPAVED SUFFACE REDUCE CAPACITY BY AT LEAST 25%. SPEED MUST BE LESS THAN 3 MH.

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

BOOM EXTENSION DEDUCT 500 LBS WHEN STOWED ON BASE BOOM

MAXIMUM HYDRAULIC PRESSURE: 3000 PSI

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

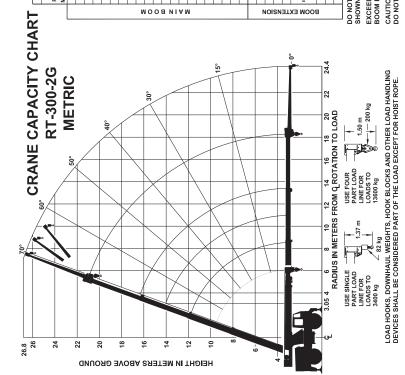
APPROVED TIRES: 17.5-25 20 PR - 100 PSI TORQUE WHEEL NUTS TO 475 FT. LBS. (THESE CON

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

RT-300-2G SERIAL NO. DATE OF MFR. BRODERSON MANUFACTURING CORP.

Load Chari





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SHOWN.

CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK AND CARRY WITH LOADS ON BOOM EXTENSION. EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZARDOUS, AND VOIDS WARRANTY.

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 BELLON 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 HE LOAD CLOSE TO THE ROBUND. PICK AND CARTY CAPACITYES ARE FOR SMOOTH. LEVEL PAVED SUFFACE. FOR UNPAVED SURFACE REDUCE CAPACITY BY AT LEAST 25%. SPEED MUST BE LESS THAN 5 km.

THE BOOMS ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING - NO

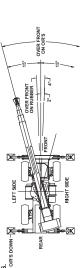
MAXIMUM HYDRAULIC PRESSURE: 207 bar ELECTRICAL INSULATION VALUE.

BOOM EXTENSION DEDUCT: 230 kg WHEN STOWED ON BASE BOOM

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

OPERATION:

 READ AND UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.
 CHECK LEVEL OF HYDRAULC OIL AND ENGING OIL DALIY.
 CHECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.
 HECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.
 SET VEHICLE PARK BRAKE SECURELY.
 SETTED OUTRIGGERS TO SOLID FOOTING AND LEVEL CRANE.
 DEPEATE ALL HYDRAULC CONIFICIS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS



THE LOAD HOIST LINE ON THIS UNIT MUST BE 14 mm DIA. 6X36-EIP-RRL-IWRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 149 kN.

TORQUE WHEEL NUTS TO 645 $\mbox{ Nm}$ (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE.) APPROVED TIRES: 17.5-25 20 PR - 690 kPa

DATE OF MFR. SERIAL NO. MODEL NO.

RT-300-2G	BRODERSON MANUFACTURING CORP.
RT	B

65400942 LENEXA, KANSAS