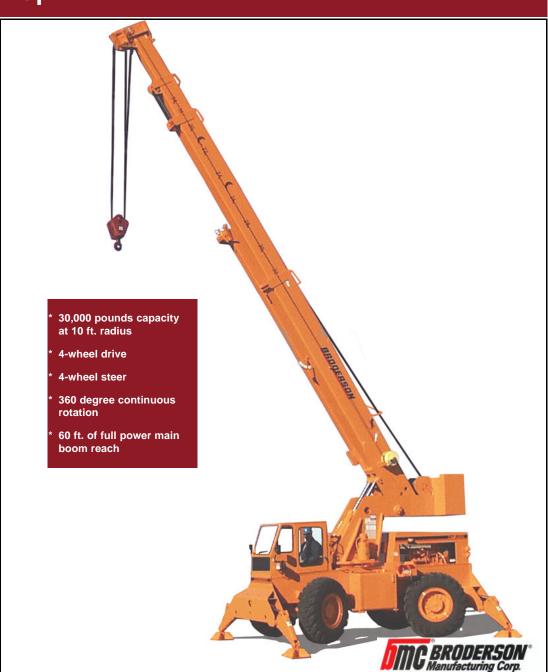


(800) 572-8100 or (248) 313-5800

www.laramiecrane.com

# Tech Preliminary Information RT-300-B



# RT-300-2B

# **Preliminary Information**

		CAPACITIES	APPLY TO OPERAT									
	LOAD											
	RADIUS	360° RC	TATION	OVER	FRONT							
	FEET	ON RUBBER	ON OUTRIGGERS	ON RUBBER	ON OUTRIGGERS							
	10	19150	30000	26300	30000							
	12	14050	28500	22500	28500							
	14	11800	25950	17950	25950							
	16	9000	22500	14500	22550							
	18	7500	19500	11850	19500							
	20	6150	17050	9900	17050							
	22	5050	14550	8100	15000							
	24	4050	12350	6750	13300							
Σ	26	3300	10550	5650	11900							
0	28	2800	9100	4750	10650							
ВО	30	2250	8000	4150	9600							
z	32	1800	7150	3550	8600							
_	34	1500	6400	3150	8050							
Σ	36	1200	5800	2850	7500							
_	38	1050	5350	2650	6950							
	40	900	4950	2400	6500							
	44	700	4250	1900	5600							
	48		3600	1600	4850							
	52		3150	1300	4150							
	56		2750	1050	3650							
	60		2300	850	3200							
	64		1950		2300							
N	68		1750		2300							
EXTENSION	72		1500		2250							
, E	76		1300		1950							
	80		1100		1700							

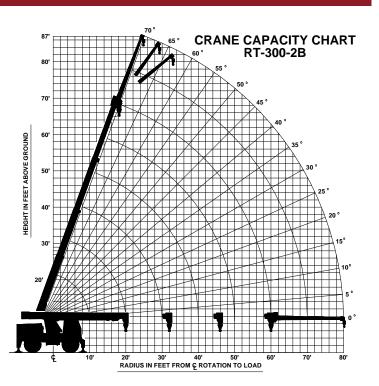
CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS — ON RUBBER 75% OF TIPPING. CAPACITIES ABOVE BOLD LINES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITIES. CAPACITIES BELOW BOLD LINES ARE LIMITED BY TIPPING. DO NOT POSITION BOOM AT LOAD RADII WHERE NO LOAD CAPACITIES ARE SHOWN.

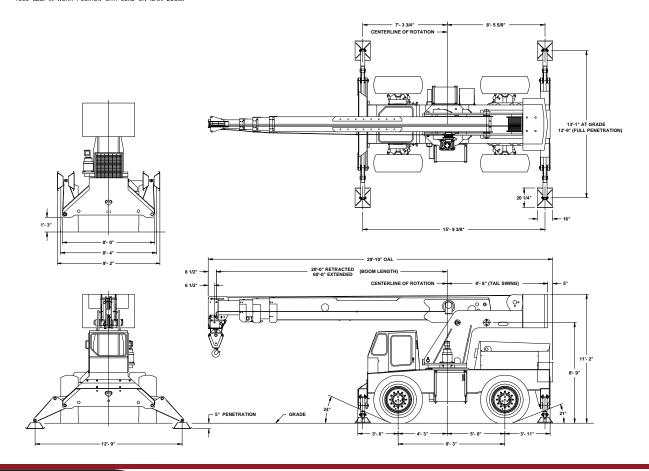
20 FOOT - BOOM EXTENSION CAPACITIES													
BOOM EXTENSION	MAIN BOOM ANGLE												
OFFSET ANGLE	0,	15°	30°	40°	50°	60*	70°						
0,	2300	2400	2700	3100	3700	4800	6200						
15*	0	2300	2400	2600	2900	3400	4100						
30°	0	0	2300	2400	2500	2700	3100						

CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.

BOOM EXTENSION DEDUCT: 500 LBS. WHEN STOWED ON BASE BOOM.

1000 LBS. IN WORK POSITION WITH LOAD ON MAIN BOOM.





# RT-300-2BO

# **Preliminary Information**

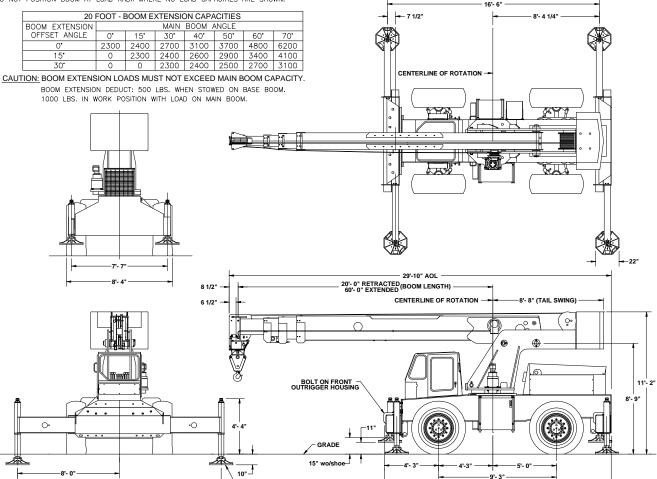
	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE												
		LOAD MAIN BOOM CAPACITIES IN POUNDS											
	RADIUS 360° ROTATION OVER FRONT												
	FEET												
	10	18800	25500	30000	24900	30000							
	12	15200	20800	28500	21400	28500							
	14	11000	16000	25950	18100	25950							
	16	8800	12600	22500	14300	22500							
	18	7200	10300	19500	11800	19500							
	20	5900	8500	17050	9700	17050							
	22	4900	7100	15000	8200	15000							
	24	4050	5900	13300	7000	13300							
Σ	26	3300	4900	11900	6000	11900							
0	28	2800	4100	10650	5100	10650							
0	30	2250	3500	9600	4400	9600							
ω	32	1800	3000	8600	3800	8600							
z	34	1500	2600	8050	3400	8050							
₹	36	1300	2200	7500	3000	7500							
Σ	38	1100	2000	6950	2700	6950							
	40	1000	1800	6500	2500	6500							
	44	700	1400	5700	2100	5700							
	48		1100	5000	1700	5000							
	52		900	4400	1400	4400							
	56		700	4000	1150	4000							
	60		500	3500	900	3500							
7	64			2700		2700							
NOIS	68			2500		2500							
NOOM N S I C	72			2400		2400							
BOC	76			2100		2100							
i ii	80			1900		1900							

OUTRIGGERS MUST BE FULLY EXTENDED OUTWARD TO USE THE O/R'S OUT & DOWN CAPACITIES

OUTRIGGERS MOST BE FULLY EXTENDED OUTWARD TO USE THE OVER'S OUT & DOWN CAPAL OVER FRONT, ON RUBBER CAPACITIES ARE FOR SMOOTH PAYED SURFACE.
FOR UNPAYED SURFACE REDUCE CAPACITY BY 25%.
CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS — ON RUBBER 75% OF TIPPING.
CAPACITIES ABOVE BOLD LINES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITIES.
CAPACITIES BELOW BOLD LINES ARE LIMITED BY TIPPING.

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

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REMOVABLE OUTRIGGER SHOES



# **Preliminary Information**

#### **GENERAL:**

Weight: RT-300-2B RT-300-2B0 44.100 lbs 46.500 lbs. Total Front Axle 21,500 lbs. 23,210 lbs. 22,600 lbs. Rear Axle 23,290 lbs. 26 Degrees 20 Degrees **Angle of Approach Angle of Departure** 24 Degrees 20 Degrees Gradeability 70 Percent on Concrete

Turning Radius: 4-Wheel Steer: (Min.)

Outside Tire C/L Radius 14 Feet 11 Inches Vehicle Clearance Circle (Dia.) 34 Feet 0 Inches

Drawbar Pull 23,400 pounds

Road Speed 26 Miles Per Hour (Max.)

**ENGINE: Standard Optional** Make John Deere Cummins 6068D Model 6BT5.9 Diesel Turbo Diesel Type C.I.D. 414 359 Max. Torque 335 @ 1200 RPM 410 @ 1600 RPM Rated HP 130 @ 2500 RPM 152 @ 2500 RPM

FUEL TANK: 50 Gallon Capacity

## **TRANSMISSION**

Make Funk Model 2000

**Type** 6-Speed Powershift With Torque Converter, Oil

Cooler and Filter

occioi ana i iitoi								
Forward	Reverse							
8.20:1	8.20:1							
4.64:1	3.53:1							
3.53:1	1.41:1							
2.00:1								
1.41:1								
.80:1								
	8.20:1 4.64:1 3.53:1 2.00:1 1.41:1							

# **AXLES:**

# Front and Rear Axles:

Make Rockwell Gear Ratio 16.67:1

# **BRAKES:**

Service - 4-Wheel Drum Type with Hydraulic Booster Parking - Spring-Applied and Hydraulically-Released Mounted On Transmission

## STEERING:

Hydraulic steering unit with two 3.5 inch cylinders attached to each axle. Allows limited steering when engine is not running. Steering wheel and selector valve control 3-mode steering: Two-Wheel Front Axle Steer, Crab and Round.

# TIRES:

Standard - 17.5 x 25, 20-Ply Rating Mud Lug.

# **CHASSIS:**

# Outriggers:

# RT-300-2B:

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

# CHASSIS: (Cont'd) Outriggers:

RT-300-2BO:

Four independently controlled outriggers of out and down design. All cylinders are equipped with direct-connected holding valves. Foot pad dimensions are 22" octagon. Pads are removable and stow on chassis when roading crane.

#### **OPERATOR'S COMPARTMENT:**

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

#### **ELECTRICAL SYSTEM:**

# 12 Volt DC System

### **Instrument Group:**

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

#### **HYDRAULIC SYSTEM:**

Triple vane pump, mounted and driven by main transmission. Rated 9, 26 and 44 GPM at 3,000 PSI at 2,500 RPM engine speed. Hydraulic oil tank capacity of 70 gallons.

## **BOOM ASSEMBLY:**

	Boom Movement	Boom Speeds
Rotation	Continuous	3.5 RPM
Elevation	0 - 70 Degrees	15 Seconds
Extension	40 Feet	22 Seconds
D A	In In 11	

# **Boom Assembly:**

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

# Boom Rotation:

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

#### **Boom Hoist:**

Turret Mounted Hydraulic Powered

Bare Drum Line Pull 10,000 Pounds

Wire Rope 375 Feet of 1/2 inch dia.

Line Speed:

Bare Drum 320 FPM Full Drum 412 FPM

## 4-Part-Line Sheave Block:

Double sheave block for four-part-line requirements.

## **Anti-Two-Block Device:**

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

# **Preliminary Information**

Listed below are brief descriptions of each option available for the RT-300-2B Rough Terrain Crane.

Consult the RT-300-2B Engineering Spec for additional information on each option.

# RT-300-2B - Rough Terrain Crane with Fold Down Outriggers.

RT-300-2BO - Rough Terrain Crane with Out and Down Outriggers.

### **ENGINE OPTIONS:**

# **Cummins Diesel Engine**

Model 6BT5.9 Turbocharged diesel engine.

#### **Engine Heater**

Engine coolant heater installed to circulate warm water through engine, plugs into 120 volt AC.

### **Ether Injection System**

Ether starting aid controlled by switch in operator's compartment and injects ether directly into intake manifold.

#### **Engine Shutdown Gauges**

Shuts engine off when high water temperature or low engine oil pressure occurs.

## **Engine Side Covers**

Quick detach, to fit fixed hood and grille.

# TIRE OPTIONS:

# Spare Wheel & Tire:

17.5 x 25, 20-Ply Tire

# **CHASSIS OPTIONS:**

## **Auxiliary Front Winch**

Mounted on front outrigger housing, hydraulically driven with control in operator's compartment. Requires Overhead Guard Option.

# **Auxiliary Front Winch Plumbing**

Control valve and all plumbing to quick connect fitting at front of chassis for auxiliary front winch. Requires Overhead Guard Option.

## **Lifting Eyes**

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

#### **Towing Eyes**

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

#### Spreader Bar & Sling Assembly:

Spreader bar with four wire rope assemblies to allow balanced lifting of crane. Must be used with lifting eyes (ordered separately).

#### Pintle Hook, Front

Pintle hook mounted on front outrigger housing, 24 ton capacity. Not available with front winch option.

# CHASSIS OPTIONS: (Cont'd) Pintle Hook, Rear

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

# OPERATOR'S COMPARTMENT OPTIONS:

#### **All Weather Cab**

Consists of rigid-mounted canopy section and two removable hinged doors. Includes heater with twospeed fan, 12-volt electric windshield wiper. Defroster fan included.

## 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's Suspension Seat Seats Inc. - Cloth

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

# Operator's Suspension Seat Seats Inc. - Vinyl

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

# Operator's Suspension Seat Grammer

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

# Noise Reduction Kit

Consists of noise reduction panel over control valves and grille on front of unit to vent heat from valve area.

# Air Conditioning

Air Conditioning with R134 coolant.

#### **ELECTRICAL OPTIONS:**

## **Outrigger Alarm System**

Two-tone alarm is activated when "outrigger down" controls are operated.

## Strobe Light

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

#### Lighting Kit

Includes two modular, dual-beam headlights with turn signal lights. Taillights with brake & turn signal lights. Back-up lights & lights installed in back of insturment gauges.

# ELECTRICAL OPTIONS: (Cont'd) Amber Rotating Beacon

Amber rotating beacon 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:**

## **Angle Indicator**

Large pointer and quadrant located under boom, in addition to standard indicators.

#### 20 Ft. Offsettable Boom Extension

Boom stowable. Offsets include 0 (in-line), 15 or 30 degree. Downhaul weight & hook option required.

## **Downhaul Weight & Hook**

Downhaul weight & 5-ton swivel hook to use with existing wedge socket on 1/2 inch or 9/16 inch load line.

# Wire Rope - Spin Resistant

9/16 inch dia., rotation-resistant load line, 450 feet long. Includes 5-part adapter for existing 4-part sheave block.

## **Load Moment Indicator**

Warns operator of impending overload with audible and visual signals. Prevents overload by stopping boom functions that cause overloads. Readouts for load, boom angle, boom length and load radius.

#### **Load Indicator**

Includes 3-sheave load sensor on top of boom and readout box on top of instrument panel.

Should you, as the end user, require an option or special equipment on your RT-300-2B or RT-300-2BO that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.

# RT-300-B

# **Preliminary Information**



**IC-20** 



IC-35



**IC-80** 



IC-200-3D



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