





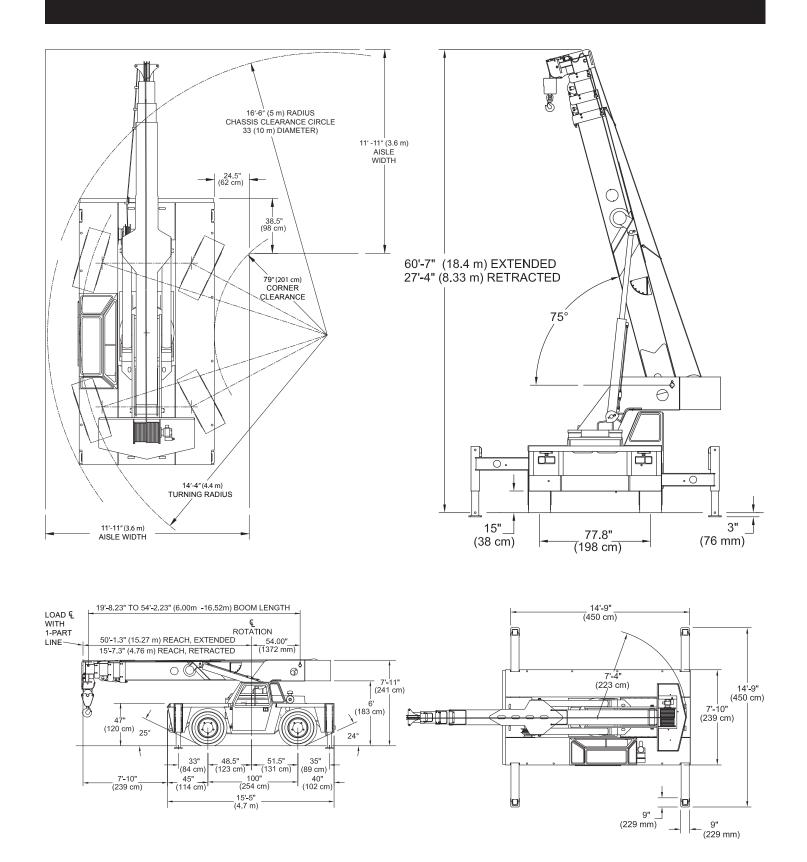
18-Ton Max. Capacity (16,330 kg)

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 36,000 lbs (16,330 kg)
- Pick and Carry Capacity ... up to 18,500 lbs (8,400 kg)
- Height ... 7' 11" (2.41 m)
- Width ... 7' 10" (2.39 m)
- Boom Rotation ... 360 Degree Continuous
- Sheave Height ... up to 79' 6" (24.23 m)
- Horizontal Reach ... up to 70' (21.36 m)
- 4-Wheel Steer ... Standard
- 4-Wheel Drive ... Optional
- Powershift Transmission ... Standard
- Fully Hydraulic Controls for Smooth Precise Operations
- Independent Outrigger Controls
- Diesel or LPG Fueled Engines Available

BRODERSON Manufacturing Corp.







Specification

GENERAL ·

GENERAL.			
Boom Movement:	Rotation	Elevatio	n Extension*
	Continuous	0° to 75°	34.5" (10.52m)
Boom Speeds:	1.3 RPM	22sec	41sec
Weight:			
Total	37,700lbs (17	100kg)	
Front Axle	17,100 (7800	kg)	
Rear Axle	20,600 (9300) kg)	
Gradeability:	64 percent (3	3°)	
Turning Radius:	14.3" (4.37m)		
ENGINE:			
Make	Cummins		GM
Model	QSB3.3L Tie	r 4i	5.7 L V-8
Туре	Turbocharge	d Diesel	LPG
No. Cyl.	4		8
Displacement	3.3L		5.7L
HP @ Gov. Speed	100 H.P. (75	kW)	135 H.P. (101 kW)
Fuel Tank Capacity	30 Gal (114 L	.)	Dual 43lb. (19.5 kW)

TRANSMISSION:

Powershift transmission with 4-speeds forward & reverse. Provides power shifts at any engine speed in any gear. All shifting is done with a single lever electrical control mounted on the steering column. Multiple-disc clutch packs operated by solenoid valves provide reverse, neutral, forward and speed selection. Equipped with torque converter and transmission oil cooler.

Gear Ratio

Second	3.23:1	Fourth	1.00:1
First	5.72:1	Third	1:77:1

AXLES:

Front Axle:

Planetary drive/steer front axle with 15.78 to 1.0 ratio. Differential equipped with "limited slip" feature. Front axle mounted rigidly to frame.

Travel Speed	Drawbar & Pull*
3	18,100lbs (8200 kg)
5	10,600lbs (4800 kg)
10	6,000lbs (2700 kg)
18	3,200lbs (1450 kg)
	3 5 10

*Drawbar pull is calculated for QSB3.3L Tier 4i Diesel Engine

Rear Axle:

Standard (2-Wheel Drive):

Steering axle with 11/2° oscillation in either direction.

Optional (4-Wheel Drive):

Planetary drive/steer axle with 24.98 to 1.0 ratio. Differential is not "limited slip" in rear axle. 11/2° oscillation in either direction. Axle ratio compatible with 4WD transmission rear output ratio to match front axle speed.

STEERING:

Hydraulic steering unit with two cylinders attached to each axle. Allows limited steering when engine is not running. A switch on the control panel is used to select rear-wheel steering or four-wheel (round) steering or crab steering.

BRAKES:

Service: Split-system, 4-wheel hydraulic-boosted multiple-plate wet disc brakes.

Parking: Hand lever actuated disc-type parking brake on transmission. TIRES

Standard - 385/65 D22.5, 16-ply high traction on/off road tread.

CHASSIS:

CARGO DECK:

80 Square feet (7.4 m2) of deck area. 17,000 lbs. (7,700 kg) capacity on deck when load is centered over or between axles. Headlight & Taillight Grilles

Steel protective grilles for headlights & taillights. Easily removable for replacing bulbs.

OUTRIGGERS:

Four hydraulic out & down outriggers of box beam construction with direct-connected holding valves. Independent controls for each outrigger. Outrigger pad dimension 9" (23 cm) x 9" (23 cm)

ACCESSORY STORAGE BOX:

Storage box is 14" (35 cm) deep x 121/2" (32 cm) long x 36 1/2" (93 cm) wide, located in front cargo deck.

Lifting Rings

Lifting rings at each corner of cargo deck so sling can be attached for lifting crane.

OPERATOR COMPARTMENT:

Provides one-position access to all chassis and crane controls. Includes adjustable operator's seat, retracting seat belt, fire extinguisher, and bubble level.

ELECTRICAL:

12 Volt System

Lighting Package:

Consists of two 12V-lamps, with high and low beams for driving; tail, brake and turn signal lights and backup lights in rear; front turn signals and emergency flasher switch at operator's station.

Instrument Package

Fuel gauge and hourmeter which records hours only during actual engine operation. Also included are warning lights for low oil and transmission pressure, check engine, high coolant and transmission temperature, turn signals, high beams, hazard lights, parking brake and four-wheel drive.

Back-Up Alarm

Provides pulsating sound from 102 dB alarm when transmission is in reverse. Conforms to SAE J994B.

Outrigger Alarm System:

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

HYDRAULIC SYSTEM:

Tandem pump, direct-driven by engine, delivers 30 GPM (113L/min) at rated RPM. 54-gallon capacity.

BOOM ASSEMBLY:

Four-section boom assembly equipped with bearing pads, doubleacting hydraulic cylinder & chain system telescopes booms proportionally. Telescope & boom elevation cylinders equipped with cylinder-mounted holding valves. Boom angle indicator on each side of boom.

Boom Rotation:

Heavy-duty ball bearing rotation gear with external teeth. Rotation is powered by hydraulic motor & worm gear drive.

Boom Hoist:

Turret-mounted planetary gear hoist, is hydraulically powered to provide a bare-drum line pull of 12,000 lbs (5440 kg) and a speed of 100 fpm (30 m/min), includes 320 feet (97 m) of 9/16 inch (14 mm) wire rope, 170 pound (77 kg) downhaul weight, swivel hook, sheave block for 4-part line.

Anti-Two-Block Device:

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

Rated Capacity Limiter:

Warns operator of impending overload with audible & visual signals. Prevents overload by stopping boom functions that cause overloads.

IC-250-3D Options

Listed below are brief descriptions of options available for this product. Consult the IC-250-3D Engineering Spec for additional information.

MODEL:

IC-250-3D Industrial Crane

ENGINE OPTIONS:

Spark Arrester Muffler Installed in addition to std. muffler.

Engine Heater for LPG Engine

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

AXLE & STEERING OPTIONS:

4-Wheel Steer & 2-Wheel Drive

4-Wheel Steer & 4-Wheel Drive

TIRE OPTIONS:

Non-Marking Tires Foam Filling of Tires Spare Tire & Wheel

CHASSIS OPTIONS:

Auxiliary Winch

Mounted behind the front bumper, hydraulically driven with control in operator's console.

Pintle Hook:

Pintle Hook, Rear

Pintle Hook, Front

Rearview Mirrors

One mounted on right-hand deck stake and one mounted on left-hand deck stake.

Outrigger Shoes

Steel outrigger shoes, 18" (46 cm) x 18" (46 cm) octagonal shape with storage posts on rear bumper.

OPERATOR COMPARTMENT OPTIONS: Operator Guard

Tubular steel weldment with heavy expanded steel mesh top section.

All Weather Cab

Rigid-mounted canopy section and removable hinged door. Includes heater, electric windshield wiper, one sliding glass window in the door & one in the right side of canopy. Defroster fan & dome light included.

Cab Heater Only

Heater with two-speed fan for units without All Weather Cab.

Windshield Washer

Includes reservoir, pump and nozzle.

Floor Mat

Vinyl mat with foam backing.

Operator Suspension Seat

Small suspension built in to provide additional operator comfort.

Deluxe seat upholstery springs provide additional operator comfort.

Noise Reduction Kit

Includes floor mat, control valve cover and side panels of foam backed vinyl for noise reduction.

Air Conditioning

Air Conditioner with R134A coolant.

ELECTRICAL OPTIONS:

Strobe Lights

Two yellow strobe lights mounted on each side of turret weight box.

Boom Work Lights

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

Work Lights - Rear

Two work lights recessed in rear bumper.

BOOM ATTACHMENTS:

Boom Extension, 20 ft. (6.1 m) Offset Boom stowable. Boom extension is offsettable to 3 different positions; 0 degree (in line), 15 degree and 30 degree offset.

Sheave Block - Two Part Line Searcher Hook: Nose Mount

Nose Mount

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.

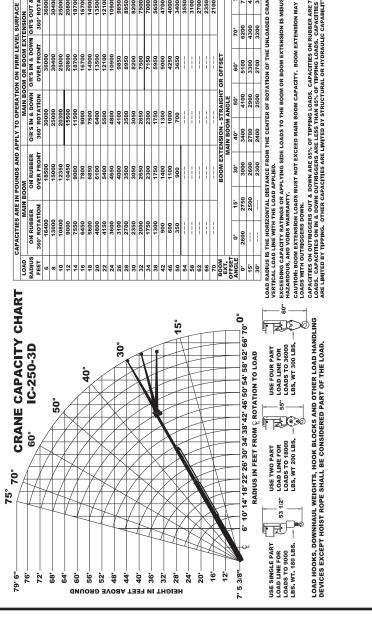


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Form #IC113D (07/13)

Load Char

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	22	4150		5400	5500		12100	-	12100	EXTENSIO
	24	3600		4650	4800		10900	÷	10900	OPERATI
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	28	2700		3500	3500		8950		8950	2. CHECK
	30	2350		3050	3050		8200		8200	4 SET VE
	32	2000		2650	2650		7500	-	7500	5. EXTEND
	34	1750		2300	2300	•	7150	-	7000	6. OPERAT
	38	1300		1750	1750		5950	47	5650	
	42	006		1400	1300		5000	4	4700	
	46	600		1100	1000	0	4250	4	4000	
	50	350		900	700		3650		3400	
	54					1	1		3550	
	58							"	3100	
	62								2700	
	99			-			-	~	2350	
	70							~	2100	
	BOOM			ROOM EXTENSION - STRAIGHT OR DEFSET	LS - NOISN:	FRAIGHT	OR OFFSET			
	EXT.			MA	MAIN BOOM ANGLE	ANGLE				THE LOAI
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	ô	2600	2750	3000	3400	4100	5100	6200	7000	APPROVE
	15°		2500	2600	2700	2900	3300	4300	4800	TORQUE
	30°		1	2300	2400	2500	2700	3200	3400	RATED LO
LOAD	RADIUS I CAL LOAD	LOAD RADIUS IS THE HORIZONTAL DISTANCE F VERTICAL LOAD LINE WITH THE LOAD APPLIED.	NTAL DIS HE LOAD	APPLIED.	THE CENTE	R OF ROT/	.OAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO TH Vertical load line with the load Applied.	ILOADED C	RANE TO THE	
· EXCEE	EDING CA.	EXCEEDING CAPACITY RATINGS OR A	IGS OR AF	PLYING SIDE I	-OADS TO T	HE BOOM	EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS	ASION IS M	ISUSE, IS	
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CAPAC	CITIES ON	COADS WITH OUTRIGGERS DOWN- CAPACITIES ON OUTBIGGERS OUT	WN.	OWN ARE 85%	OF TIPPING	5 LOADS	LOADS WITH OUTRIGGERS DOWN. Cadagittes on dittriggers dut & Down are 85% of TIPPING LOADS CAPACITIES ON BUBBER Are 75% of TIPPING	RURRFR AI	RE 75% OF TI	PPING
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AREL	MITED B	Y TIPPING. 01	HER CAP	AGITIES ARE L	MITED BY 2	STRUCTUR	ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.	LIC CAPAB	LITY.	

DECK CAPACITY 17000 LBS, WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOAD MUST BE CENTERED BEHNOP FRONT AALE. SPEED MUST BE LESS THAN 2 MPH. MAXIMUM TRAVEL 200 FT. IN 30 MINUTES ON SMOTT PAREMENT. PICK AND CARRY WITH THE SUPPORTS FRANCT CAL BOOK, CENTERED OVER THE FRONT, OPERATE WITH BOOM SLOW AS POSSIBLE WITH THE LOAD CLOSE TO THE GROUND. PICK AND CARRY CAPACITIES ARE FOR SMOOTH, LEVEL PAVED SURFACE.

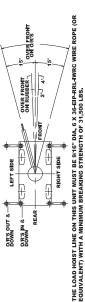
MAXIMUM HYDRAULIC PRESSURE 3000 PSI.

BOOM EXTENSION DEDUCTI 500 LBS. WHEN STOWED ON BASE BOOM.

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

OPERATION

CHENATION UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.
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CHECK LIVEL OF HYDDRULG OIA MANUAL DALY.
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A SET VUELCLE PARK BRAKE SECURELY.
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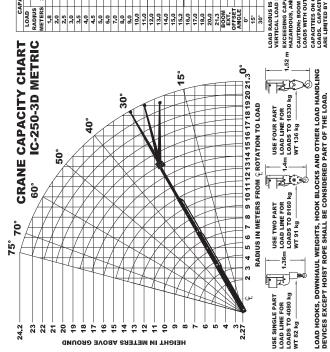
APPROVED TIRESI OTR 385/65D22.5, 16 PLY - 120 PSI TORQUE MHEEL NUTS 70 500 FT, LBS, (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RTORED LOADS ON THIS (FAMRE) SERIAL NO.



65400924 **LENEXA, KANSAS**

Load Char

idustrial Crane K



CA	VPACITIES AR	E IN KILO	GRAMS AND	CAPACITIES ARE IN KILOGRAMS AND APPLY TO OPERATION ON FIRM LEVEL SURFACE	RATION ON FI	RM LEVE	IL SURFACE
LOAD	-	MAIN BOOM	M	MAIN	MAIN BOOM OR BOOM EXTENSION	DOM EXT	ENSION
RADIUS	ON RUBBER		ON RUBBER	O/R'S IN & DOWN	<u> </u>	8. DOWN	O/R'S IN & DOWN O/R'S OUT & DOWN
METERS	360° ROTATION		OVER FRONT	360° ROTATION	DN OVER FRONT	RONT	360° ROTATION
1.8	7440		8400	13600	16330	30	16330
2.0	6900		7880	12950	15600	00	15600
2.5	5790		6680	11120	13540	40	13540
3,0	4970		5680	9370	11530	30	11530
3.5	4280		4930	7590	9770	10	9770
4,0	3690		4350	5940	8890	90	8890
4.5	3210		3860	4690	8130	00	8130
5.0	2840		3440	3920	7400	0	7400
6.0	2230		2820	2970	6220	00	6220
7.0	1760		2280	2340	5210	0	5210
8.0	1380		1780	1820	4410	0	4410
9.0	1100		1430	1420	3800	0	3800
10.0	860		1130	1130	3330	g	3300
11.0	680		006	906	2960	00	2850
12.0	520		730	710	2540	01	2400
13.0	380		610	560	2210	0	2080
14.0	270		500	450	1930	0	1820
15.0	190		420	340	1700	0	1590
15.2	160		410	310	1650	00	1540
16.0						1	1610
17.0						1	1520
18.0						1	1360
20.0						-	1080
21.3					-	1	950
BOOM		BOO	M EXTENSION	BOOM EXTENSION CAPACITIES- STRAIGHT OR OFFSET	STRAIGHT OR	OFFSET	
DFFSET			MA	MAIN BOOM ANGLE			
ANGLE	°	15°	30°	40° 51	50° 60°		70° 75°
•0	1180	1250	1360	1540 18	1860 2310		2810 3170
15°		1130	1180	1220 13	1310 1490		1950 2180
30°	1	1	1040	1090 11	1130 1220		1450 1540

LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED. 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. BOOM EXTENSION MAY ONLY CARRY LOADS WITH OUTRIGGERS DOWN. CAPACITES ON OUTRIGGERS OUT & DOWN ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE F3% OF TIPPING LOADS. CAPACITIES ON IN & DOWN OUTRIGGERS ARE LEAST HAN 85% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINE ARE LIMITED BY TIPPING. OFHER CAACITIES ARE LISH 35%, OF TIPPING LOADS. CAPACITIES BUL BELOW BOLD LINE ARE LIMITED BY TIPPING. OFHER CAACITIES ARE LISH 35% OF TIPPING LOADS. CAPACITIES BUL BULOW BOLD LINE ARE LIMITED BY TIPPING. OFHER CAACITIES ARE LISH 35% OF TUPPING LOADS.

DECK CAPACITY 77004g WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOAD MUST BE CENTERED BEHIND FRONT AXLE. SPEED MUST BE LESS THAN 3.2 Kmh. MAXIMUM TRAVEL 60 m IN 30 MINUTES ON SIMOTH PAVEMENT.

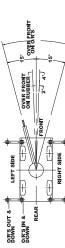
PICK AND CARY WITH THE SHORTEST FRACTICAL BOOM, CENTERED OVER THE FRONT, OPERATE WITH BOOM SLOW AS POSSIBLE WITH THE LOAD CLOSE TO THE GROUND. FICK AND CARRY CAPACITIES ARE FOR SMOOTH, LEVEL PAVED SURFACE. THE BOOMS ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING - NO ELECTRICAL INSULATION VALUE.

MAXIMUM HYDRAULIC PRESSURE 207 BAR

BOOM EXTENSION DEDUCTI 220 kg WHEN STOWED ON BASE BOOM.

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

OPERATION OPERATION CHEDA AND CHORRAYIND OPERATION MANUAL BEFORE OPERATING CRANE. 2. CHEDA AND CHO OFFANDLE ON AND RANKE BELLIT. 3. CHECK MATE TO NYABILE DEFECTS AND 100SE PATTORI. 4. SET VHOLLE PARK BASKE SECUREJ. 4. SET VHOLLE PARK BASKE SECUREJ. 5. CHERALE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS. 6. OPERATE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS.



APPROVED TIRES OTR 385/65D225, 16 PLY - 825 kPa TORQUE MHEEL NUTS TO 680 hm (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LORDS OT THIS GRAME.)

THE LOAD HOIST LINE ON THIS UNIT MUST BE 14.3 mm DIA. 6 X 36-EIP-RRL-IWRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 140 kN.

DATE OF MFR. SERIAL NO. IC-250-3D MODEL NO.

BRODERSON MANUFACTURING CORP. 65400930 **LENEXA, KANSAS**