

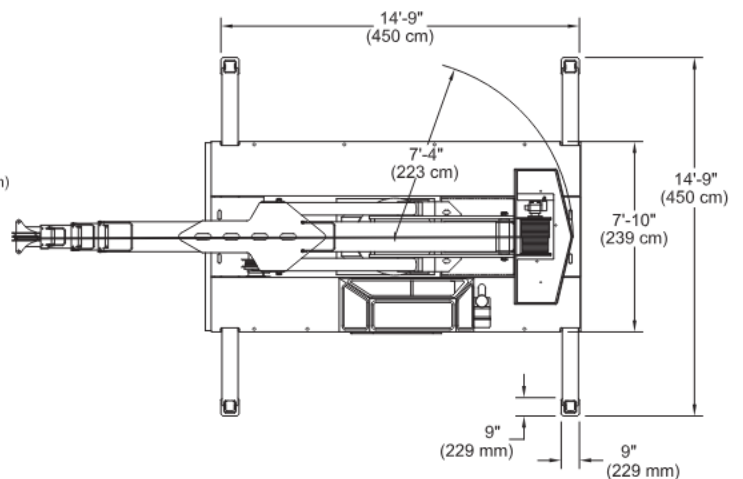
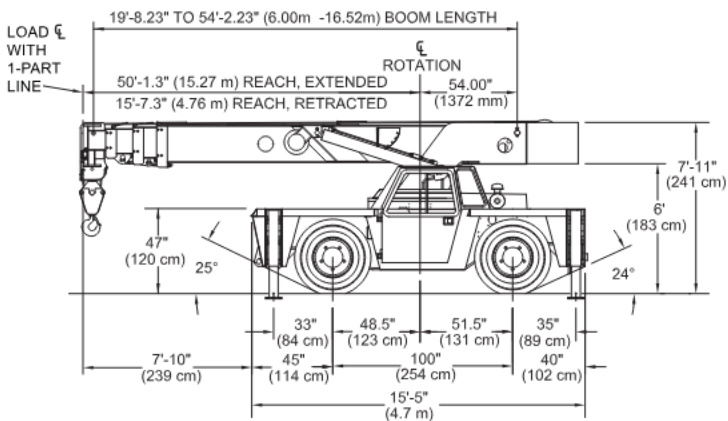
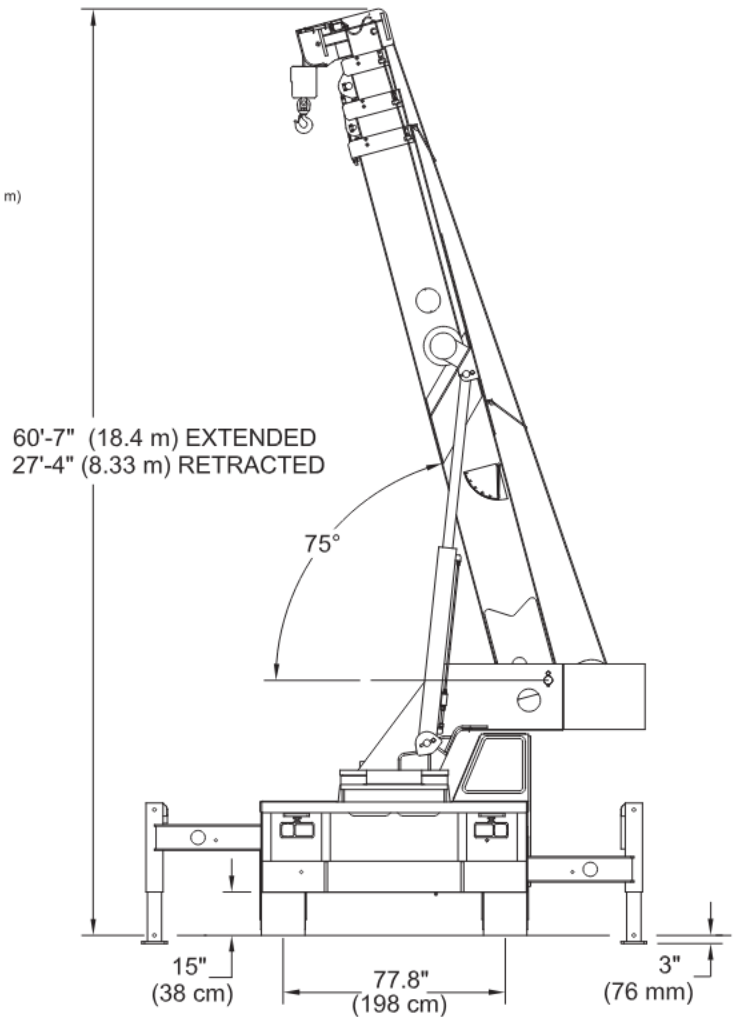
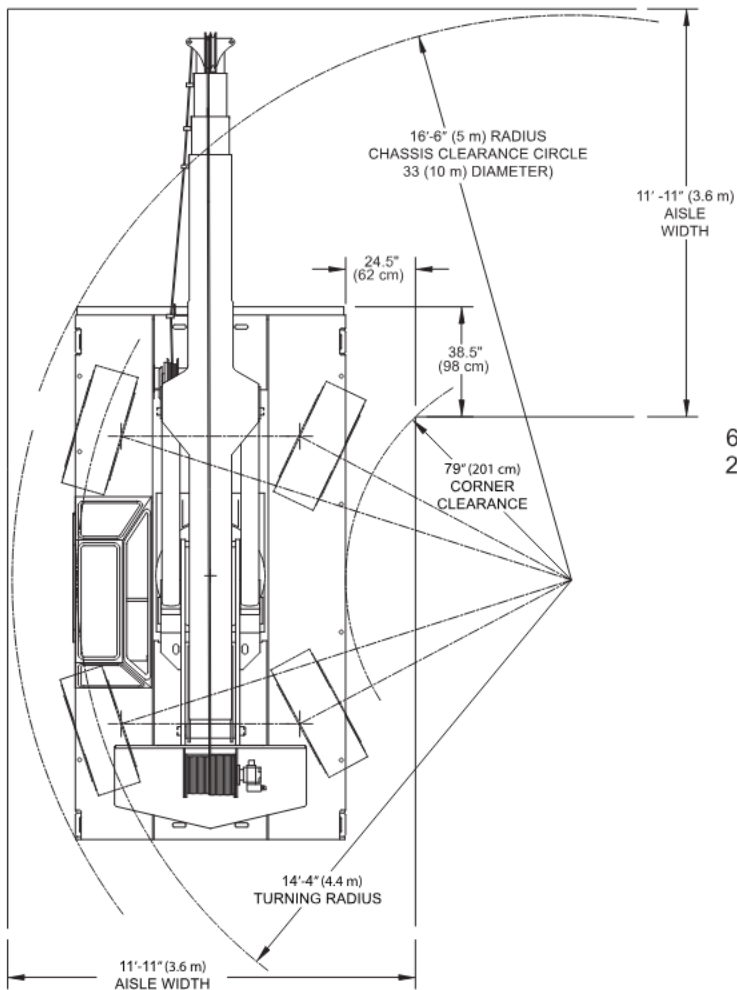
**18-Ton Max. Capacity
(16,330 kg)**



- 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.

IC-250-3D



IC-250-3D

Specifications

GENERAL:

Boom Movement:	Rotation	Elevation	Extension*
	Continuous	0° to 75°	34.5" (10.52m)
Boom Speeds:	1.3 RPM	22sec	41sec
Weight:			
Total	37,700lbs (17100kg)		
Front Axle	17,100 (7800 kg)		
Rear Axle	20,600 (9300 kg)		
Gradeability:	64 percent (33°)		
Turning Radius:	14.3" (4.37m)		

ENGINE:

Make	Cummins	GM
Model	QSB3.3L Tier 4i	5.7 L V-8
Type	Turbocharged 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

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

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.

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

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

Rear Axle:

Standard (2-Wheel Drive):

Steering axle with 1½° 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. 1½° 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 12½" (32 cm) long x 36 ½" (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.

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

IC-250-3D Industrial Crane

Installed in addition to std. muffler.

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

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

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

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

Tubular steel weldment with heavy expanded steel mesh top section.

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.

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

Includes reservoir, pump and nozzle.

Vinyl mat with foam backing.

Small suspension built in to provide additional operator comfort.

Deluxe seat upholstery springs provide additional operator comfort.

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

Air Conditioner with R134A coolant.

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

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

Two work lights recessed in rear bumper.

Boom stowable. Boom extension is offsettable to 3 different positions; 0 degree (in line), 15 degree and 30 degree offset.

Nose Mount

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

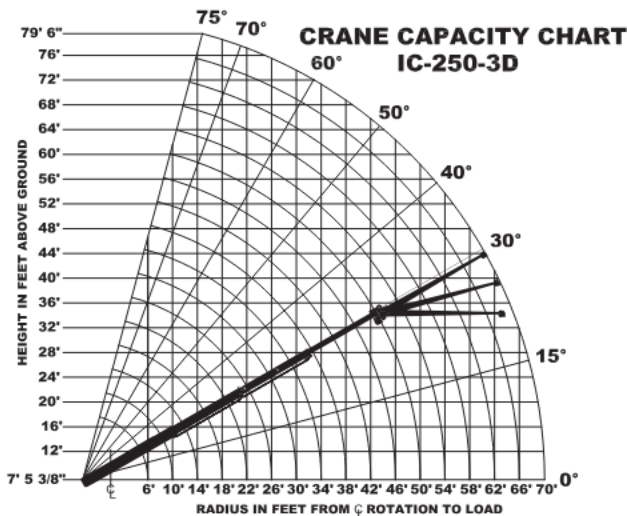
BRODERSON®
A L L I E D P R O D U C T S

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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.





CAPACITIES ARE IN POUNDS AND APPLY TO OPERATION ON FIRM LEVEL SURFACE

LOAD RADIUS FEET	MAIN BOOM		MAIN BOOM OR BOOM EXTENSION		
	ON RUBBER 360° ROTATION	ON RUBBER OVER FRONT	O/R'S IN & DOWN 360° ROTATION	O/R'S IN & DOWN OVER FRONT	O/R'S OUT & DOWN 360° ROTATION
6	16400	18500	30000	36000	36000
8	13000	15000	25000	30400	30400
10	10800	12350	20300	25000	25000
12	9000	10450	15500	20800	20800
14	7550	9000	11500	18700	18700
16	6450	7800	9000	16700	16700
18	5600	6850	7500	14900	14900
20	4800	6100	6400	13500	13500
22	4150	5400	5500	12100	12100
24	3600	4650	4800	10900	10900
26	3100	4000	4100	9850	9850
28	2700	3500	3500	8950	8950
30	2350	3050	3050	8200	8200
32	2000	2650	2650	7500	7500
34	1750	2300	2300	7150	7000
36	1500	2000	2000	6650	6650
38	1300	1750	1750	5950	5650
40	1100	1500	1500	5000	4700
42	900	1300	1300	4250	4000
44	750	1100	1100	3650	3400
46	600	900	900	3100	2900
48	500	750	750	2700	2500
50	400	600	600	2350	2100
52	300	450	450	2000	1800
54	250	350	350	1700	1500
56	200	250	250	1400	1200
58	150	150	150	1100	900
60	100	100	100	800	600
62	50	50	50	400	300
64	25	25	25	200	150
66	10	10	10	100	75
68	5	5	5	50	37
70	2	2	2	25	18

BOOM EXT. OFFSET ANGLE

BOOM EXT. OFFSET ANGLE	MAIN BOOM ANGLE						
	0°	15°	30°	40°	50°	60°	75°
0°	2600	2750	3000	3400	4100	5100	7000
15°	2500	2600	2700	2900	3300	4300	4800
30°	2300	2400	2500	2700	3200	3400	3600

DECK CAPACITY 17000 LBS. WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOAD MUST BE CENTERED BEHIND FRONT AXLE. SPEED MUST BE LESS THAN 2 MPH. MAXIMUM TRAVEL 200 FT. IN 30 MINUTES ON SMOOTH PAVEMENT.

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.

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

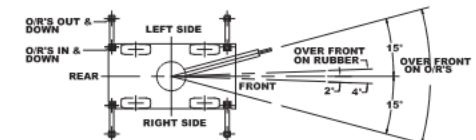
MAXIMUM HYDRAULIC PRESSURE 3000 PSI.

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. 6 X 36-EP-RR-LI-WRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 31,500 LBS.

APPROVED TIRES: OTR 385/65D22.5, 16 PLY - 120 PSI
TORQUE WHEEL NUTS TO 500 FT. LBS. (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE.)

MODEL NO. SERIAL NO. DATE OF MFR.

IC-250-3D

BRODERSON MANUFACTURING CORP.
LENEXA, KANSAS

65400924

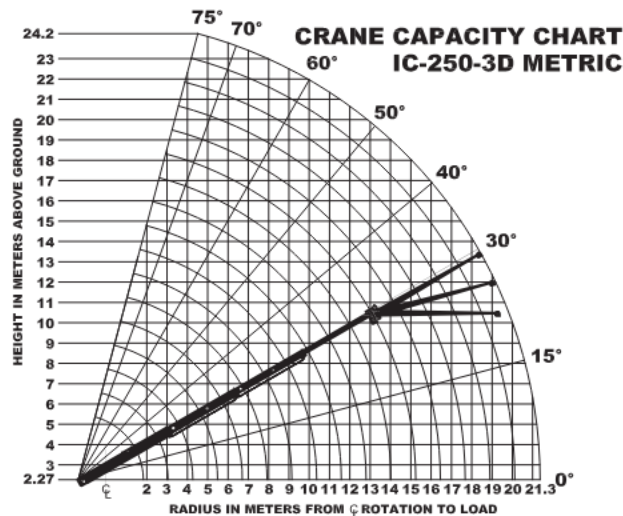
LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES EXCEPT HOIST ROPE SHALL BE CONSIDERED PART OF THE LOAD.

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.

CAPACITIES ON OUTRIGGERS OUT & DOWN ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75% OF TIPPING LOADS. CAPACITIES ON IN & DOWN OUTRIGGERS ARE LESS THAN 85% OF TIPPING LOADS. CAPACITIES BELOW SOLID LINE ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.



CAPACITIES ARE IN KILOGRAMS AND APPLY TO OPERATION ON FIRM LEVEL SURFACE

LOAD RADIUS METERS	MAIN BOOM		MAIN BOOM OR BOOM EXTENSION		
	ON RUBBER 360° ROTATION	ON RUBBER OVER FRONT	O/R'S IN & DOWN 360° ROTATION	O/R'S IN & DOWN OVER FRONT	O/R'S OUT & DOWN 360° ROTATION
1.8	7440	8400	13600	16330	16330
2.0	6900	7860	12950	15660	15660
2.5	5790	6680	11120	13540	13540
3.0	4970	5680	9370	11530	11530
3.5	4280	4930	7590	9770	9770
4.0	3690	4350	5940	8890	8890
4.5	3210	3860	4690	8130	8130
5.0	2840	3440	3920	7400	7400
6.0	2230	2820	2970	6220	6220
7.0	1760	2280	2340	5210	5210
8.0	1380	1780	1820	4410	4410
9.0	1100	1430	1420	3800	3800
10.0	860	1130	1130	3330	3300
11.0	680	900	900	2960	2850
12.0	520	730	710	2540	2400
13.0	380	610	560	2210	2080
14.0	270	500	450	1930	1820
15.0	190	420	340	1700	1590
15.2	160	410	310	1650	1540
16.0					1610
17.0					1520
18.0					1360
20.0					1080
21.3					950

BOOM EXT. OFFSET ANGLE	BOOM EXTENSION CAPACITIES- STRAIGHT OR OFFSET MAIN BOOM ANGLE						
	0°	15°	30°	40°	50°	60°	75°
0°	1180	1250	1360	1540	1860	2310	3170
15°		1130	1180	1220	1310	1490	1950
30°			1040	1090	1130	1220	1450

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.

CAPACITIES ON OUTRIGGERS OUT & DOWN ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75% OF TIPPING LOADS. CAPACITIES ON IN & DOWN OUTRIGGERS ARE LESS THAN 85% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINE ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.

DECK CAPACITY 7700kg WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOAD MUST BE CENTERED BEHIND FRONT AXLE. SPEED MUST BE LESS THAN 3.2 km/h. MAXIMUM TRAVEL 60 m IN 30 MINUTES ON SMOOTH PAVEMENT.

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.

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

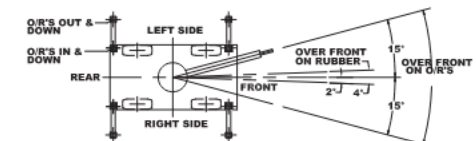
MAXIMUM HYDRAULIC PRESSURE 207 BAR

BOOM EXTENSION DEDUCT: 220 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.
6. OPERATE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS.



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

APPROVED TIRES: OTR 385/65D22.5, 16 PLY - 825 kPa
TORQUE WHEEL NUTS TO 680 Nm (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE.)

MODEL NO. SERIAL NO. DATE OF MFR.

IC-250-3D

BRODERSON MANUFACTURING CORP.
LENEXA, KANSAS

65400930