

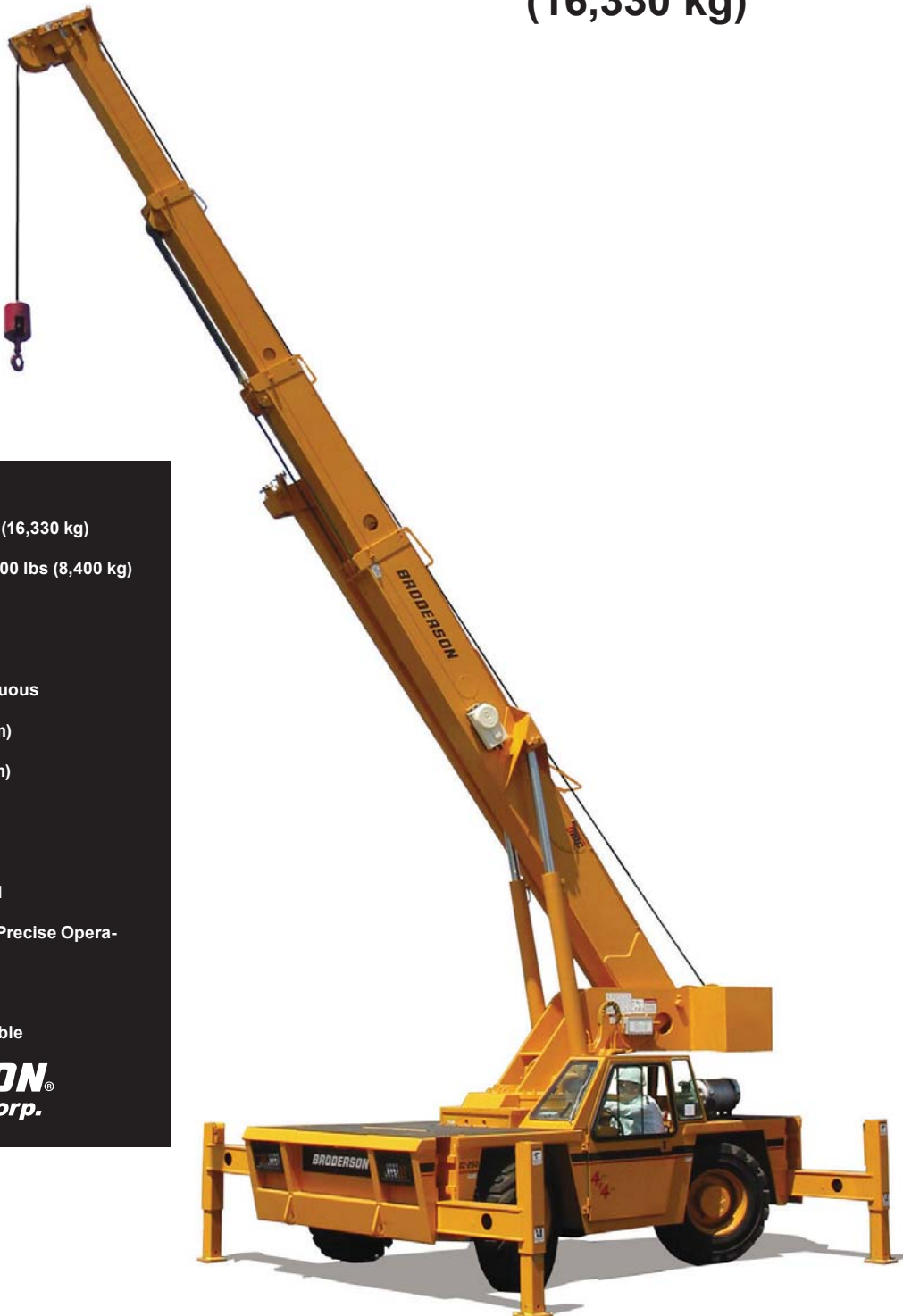


bmc
Tech Spec

IC-250-3D

Industrial Crane

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

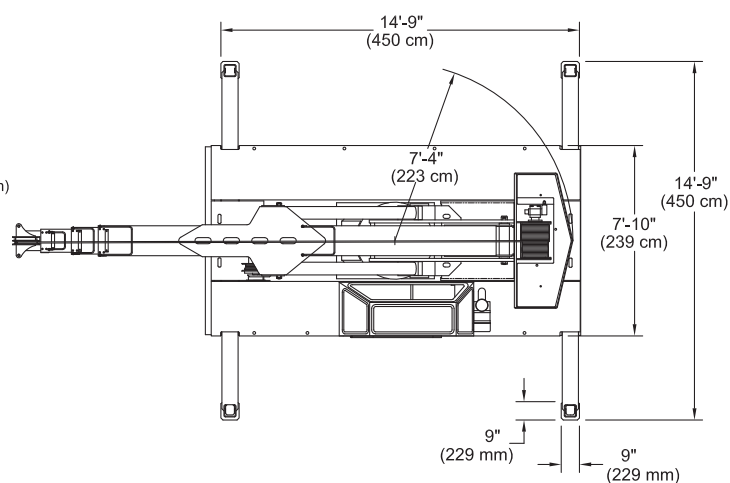
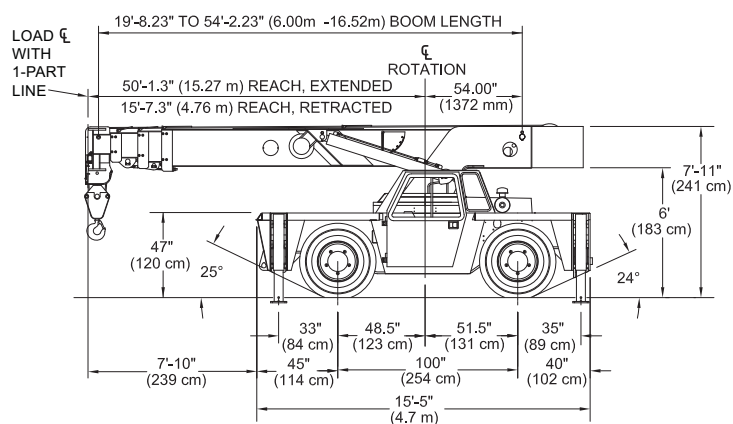
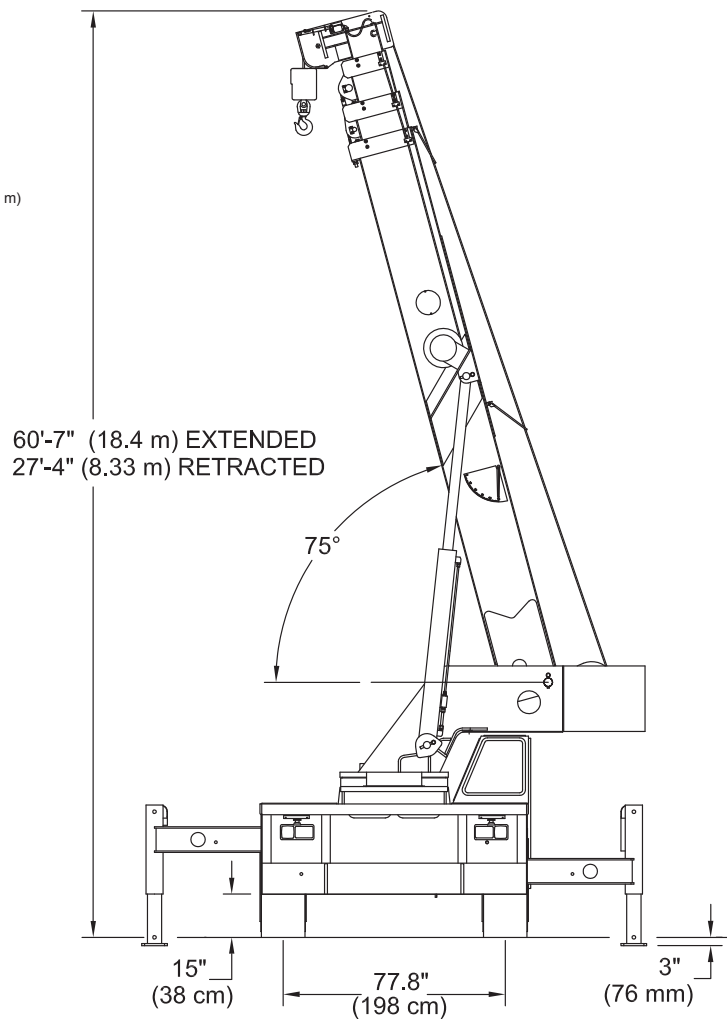
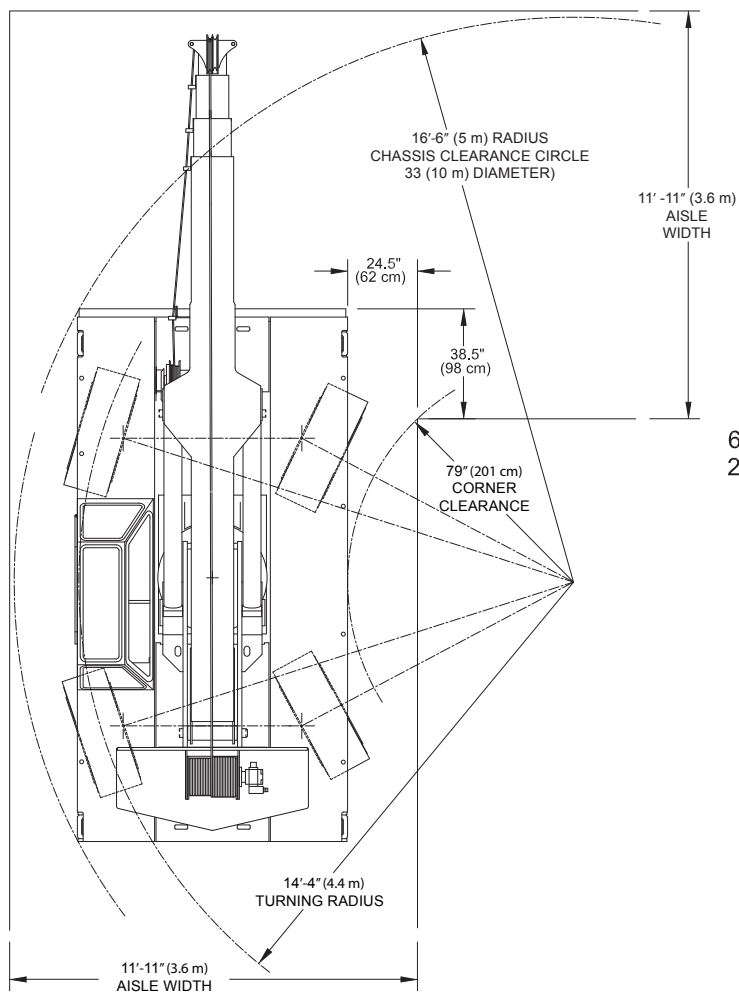


- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 36,000 lbs (16,330 kg)
- Pick and Carry Capacity ... up to 18,500 lbs (8,400 kg)
- Height ... 7' 11" (2.41 m)
- Width ... 7' 10" (2.39 m)
- Boom Rotation ... 360 Degree Continuous
- Sheave Height ... up to 79' 6" (24.23 m)
- Horizontal 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.

<u>Gear</u>	<u>Travel Speed</u>	<u>Drawbar & Pull*</u>
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.



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

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

BRODERSON®

Manufacturing Corp.

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Dimensions and values shown are for reference purposes only.

Specifications subject to change.

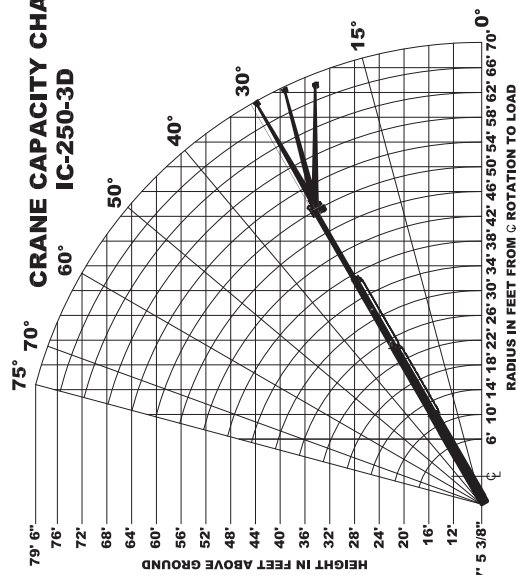




bmc®
Load Chart

IC-250-3D
Industrial Crane

CRANE CAPACITY CHART
IC-250-3D



USE SINGLE PART
LOAD LINE FOR
LOADS TO 9000
LBS. WT. 160 LBS.

USE TWO PART
LOAD LINE FOR
LOADS TO 18000
LBS. WT. 200 LBS.

USE FOUR PART
LOAD LINE FOR
LOADS TO 36000
LBS. WT. 300 LBS.

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

LOAD RADIUS FEET	CAPACITIES ARE IN POUNDS AND APPLY TO OPERATION ON FIRM LEVEL SURFACE			
	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
6	16400	18500	30000	36000
8	13000	15000	25000	30400
10	10800	12350	20300	25000
12	9000	10450	15500	20800
14	7550	9000	11500	18700
16	6450	7800	9000	16700
18	5600	6850	7500	14900
20	4800	6100	6400	13500
22	4150	5400	5500	12100
24	3600	4650	4800	10900
26	3100	4000	4100	9850
28	2700	3500	3500	8950
30	2350	3050	3050	8200
32	2000	2650	2650	7500
34	1750	2300	2300	7000
36	1500	1950	2000	6550
38	1300	1750	1750	6000
40	1100	1400	1300	5000
42	900	1100	1000	4250
44	750	900	700	3650
46	600	750	550	3100
48	500	650	450	2600
50	450	550	350	2200
52	400	450	250	1900
54	350	350	150	1600
56	300	250	50	1300
58	250	150	0	1000
60	200	50	0	700
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