



Tech Spec

IC-250-3B

Broderon's Largest Industrial Crane

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 36,000 lbs.
- Pick and Carry Capacity ... up to 18,500 lbs.
- Height ... 7' 11"
- Width ... 7' 10"
- Boom Rotation ... 360 Degree, Continuous
- Sheave Height ... up to 79' 6"
- Horizontal Reach ... up to 70'
- Tight Turning Radius
- 4-Wheel Steer ... Standard
- 4-Wheel Drive ... Optional
- Powershift Transmission ... Standard
- Fully Hydraulic Controls for Smooth Precise Operation
- Independent Outrigger Controls
- Dual Fuel Standard, Diesel Optional



BMC[®] BRODERSON[®]
Manufacturing Corp.



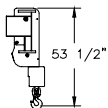
IC-250-3B

CAPACITIES ARE IN POUNDS AND APPLY TO OPERATION ON FIRM LEVEL SURFACE						
LOAD RADIUS FEET	MAIN BOOM					
	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	25050	30400	30400	
10	10800	12350	20300	25000	25000	
12	9000	10450	15600	20800	20800	
14	7550	9000	12100	18700	18700	
16	6450	7800	9700	16700	16700	
18	5600	6850	8050	14900	14900	
20	4800	6100	6800	13500	13500	
22	4150	5400	5800	12100	12100	
24	3600	4650	5000	10900	10900	
26	3100	4000	4350	9850	9850	
28	2700	3500	3800	8950	8950	
30	2350	3050	3350	8200	8200	
32	2000	2650	2850	7500	7500	
34	1750	2300	2500	6900	6900	
38	1300	1750	1950	5700	5700	
42	900	1400	1500	4800	4800	
46	600	1100	1150	4100	4100	
50	350	900	900	3500	3500	
54	---	---	---	---	3200	
58	---	---	---	---	2800	
62	---	---	---	---	2400	
66	---	---	---	---	2100	
70	---	---	---	---	1800	
BOOM EXTENSION CAPACITY - STRAIGHT OR OFFSET						
BOOM EXT. ANGLE	MAIN BOOM ANGLE					
	0°	15°	30°	40°	50°	60°
*0°	2600	2750	3000	3400	4100	5100
15°	---	2500	2600	2700	2900	3300
30°	---	---	2300	2400	2500	2700

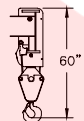
BOOM EXTENSION MAY ONLY CARRY LOADS WITH OUTRIGGERS DOWN.
BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.
CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER
ARE 75% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINE ARE LIMITED BY TIPPING.
OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.

MAIN BOOM TIP

USE SINGLE PART
LOAD LINE FOR
LOADS TO 9000
LBS. (WT. 180 LBS.)

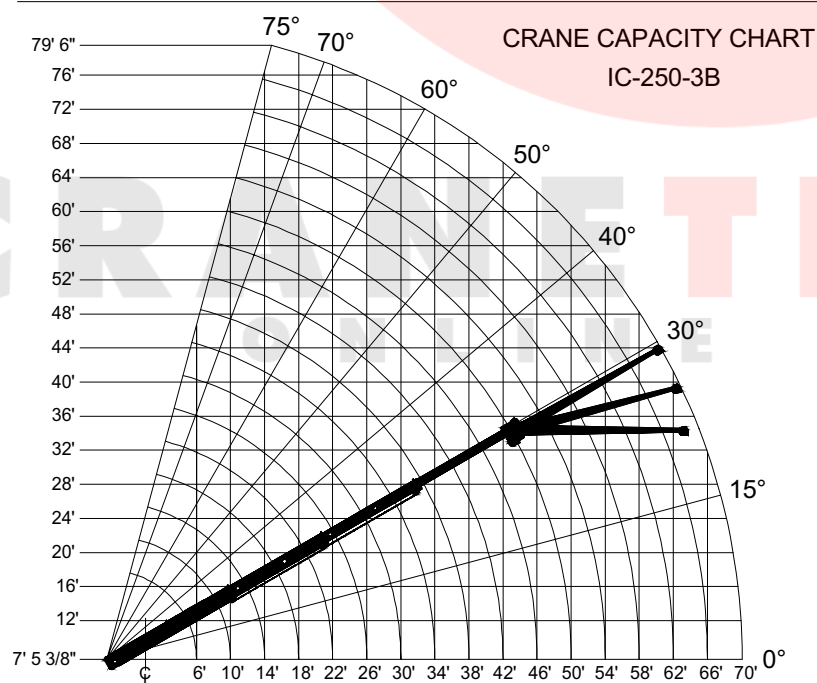
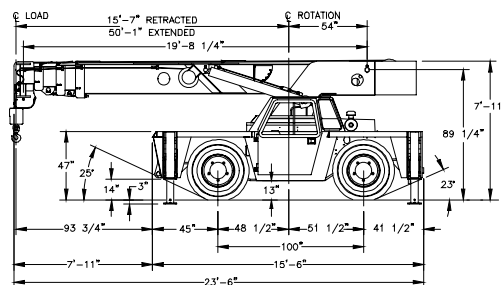
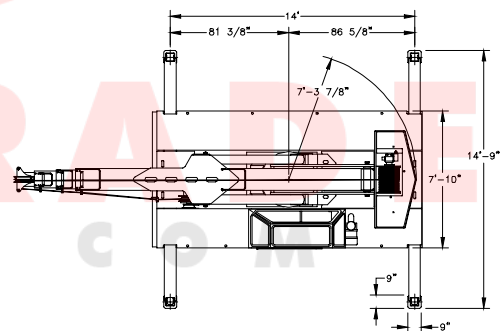
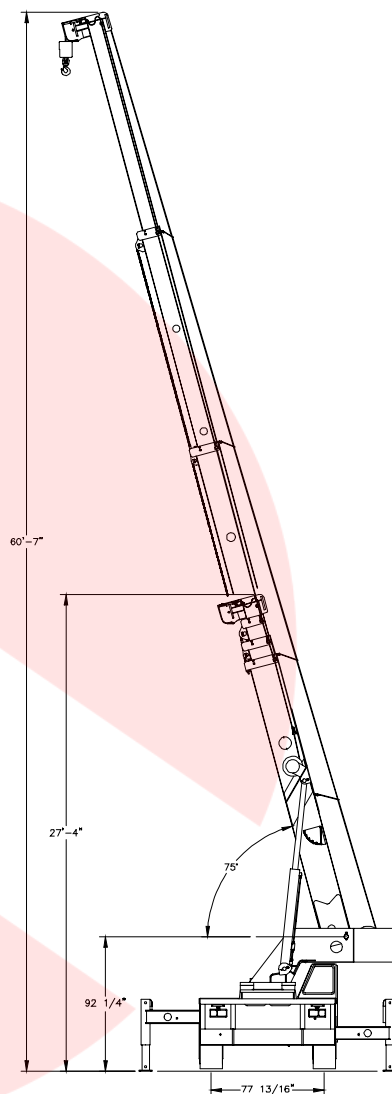
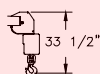


USE FOUR PART
LOAD LINE FOR
LOADS TO 36000
LBS. (WT. 300 LBS.)



BOOM EXT. TIP

LOADS TO 7000
LBS. (WT. 180 LBS.)





Tech Spec

GENERAL:

Boom Movement:	Rotation	Elevation	Extension*
	Continuous	0° to 75°	34' 6"
Boom Speeds:	2.0 RPM	24 sec.	53 sec.
	*(with synchronized hoist cable)		

Weight:

Total	37,700 lbs.
Front Axle	17,400 lbs.
Rear Axle	20,300 lbs.
Gradeability:	62%
Turning Radius:	14' 9"

ENGINE:

	<u>Standard</u>	<u>Optional</u>
Make	GM*	Cummins**
Model	5.7L V-8	B4.5-C
Type	EFI*	Turbo-Diesel
No. Cyl.	8	4
Displacement	5.7L	4.5L
HP @ Gov.		
Speed	126 H.P.	99 H.P.

* Electronic Fuel Injection with Dual Fuel, Tier II CARB & US EPA Tier I Emissions Certified

**Tier II CARB & US EPA Tier II Emissions Certified

Fuel Tank Capacity 30 Gallons

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. Equipped with torque convertor & transmission oil cooler. Torque convertor has stall ratio of 2.2:1.

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 MPH	20,000*
Second	5 MPH	11,000*
Third	10 MPH	6,000*
Fourth	18 MPH	3,500*

*Drawbar pull is calculated for GM 5.7L engine.

Rear Axle:**Standard (2-Wheel Drive):**

Steering axle with 1-1/2 degree 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. 1-1/2 degree oscillation in either direction. Axle ratio compatible with 4-wheel drive transmission output for front axle match. Transmission equipped with electro-hydraulic control for shifting between 2-wheel drive & 4-wheel drive.

STEERING:

Hydraulic steering unit with two cylinders attached to each axle. Rear axle is the primary steer. An electric switch on the operators compartment is used to select rear-wheel steering, four-wheel steering round steer or crab steering. Electronic sensors & control box automatically align the steering when a new mode is selected.

BRAKES:

Service:	Split-system, 4-wheel hydraulic-boosted multiple-plate wet disc brakes.
Parking:	Hand lever actuated disc-type parking brake on transmission.

TIRES:

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

CHASSIS:**CARGO DECK:**

80 sq. ft. of deck area. 17,000 lbs. 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" x 9".

ACCESSORY STORAGE BOX:

Storage box is 14" deep x 12-1/2" long x 36-1/2" 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 & crane functions. Includes adjustable operator's seat, retracting seat belts, fire extinguisher & bubble level.

ELECTRICAL:**12 Volt System****Lighting Package:**

One pair headlights with high & low beams, tail, brake & turn signal lights & back-up lights in rear, turn signals & emergency flasher switch at operator's station.

Instrument Package:

Fuel, ammeter, oil pressure, water temperature, transmission oil temperature gauges. All gauges are lighted. Hourmeter records hours only during actual engine operation. Also included are warning lights for low transmission pressure, turn signals, high beams, hazard lights, park brake & four-wheel drive.

Back-Up Alarm:

Provides pulsating sound when transmission is in reverse.

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 crankshaft, rated at 29 & 34 GPM at rated RPM. Hydraulic oil tank capacity of 54 gallons.

BOOM ASSEMBLY:

Four-section boom assembly equipped with bearing pads, double-acting hydraulic cylinder & chain system telescopes booms proportionally. Telescope & boom elevation cylinders equipped with cylinder-mounted holding valves. Boom angle indicator on 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 hydraulically powered with a bare drum line pull of 12,000 lbs. & a line speed of 100 FPM. Includes downhaul weight, swivel hook & sheave block for 4-part line & 320 ft. of 9/16" hoist rope.

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-250-3B

Listed below are brief descriptions of each option available for the IC-250-3B Industrial Crane.
Consult the IC-250-3B Engineering Spec for additional information on each option.

MODEL:

IC-250-3B Industrial Crane
with 15' 7"-50' 1" Boom

ENGINE OPTIONS:

Diesel Engine

Cummins Turbo-B4.5-C

Spark Arrester Muffler

Installed in addition to std. muffler.

Catalytic Converter

Reduces engine emissions.

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 compartment and injects ether directly into intake manifold.

Engine Shut Down Gauges

Shuts engine off when high water temperature or low engine oil pressure occurs. (Diesel Only)

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 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 x 18 in. octagonal shape with storage posts on rear bumper.

OPERATOR COMPARTMENT

OPTIONS:

Operator Guard

Tubular steel weldment with heavy expanded steel mesh top section.

Operator Guard Cover

Clear vinyl cover over Operator Guard, for inclement weather.

Operator Guard Door

Hinged door covers operator compartment side opening.

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

Provides 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 R 134 coolant.

ELECTRICAL OPTIONS:

Strobe Lights

Yellow strobe light mounted on each side of turret weight box.

Amber Rotating Beacons

Amber rotating beacon mounted on each side of turret weight box.

Boom Work Lights

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

BOOM ATTACHMENTS:

Boom Extension, 20 Ft., Offset

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

Searcher Hook:

Nose Mount

Should you, as an end user, require an option or special equipment on your IC-250-3B that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.

BMC[®] BRODERSON[®]
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