

SPECIFICATIONS

	ROTATION	ELEVATION	EXTENSION		
Boom Movement	Continuous	0° to 70°	20' (6.1 m)		
Boom Speeds	2 RPM.	10 sec.	30 sec.		
Weight Total	17,520 lbs. (7,950 kg.)				
Turning Radius	C/L of outside steering wheel: 11' 2" (3.4m) Aisle Width for 90° Turn: 9'7" (2.92m)				
Gradeability	57% (32°)				
Make	GM	Cumr	mins		

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Make	GM	Cummins
Model	3.0 EFI* EPA (Tier 2)	B 3.3L EPA (Tier 4i)
Туре	Gas, Fuel Dual	Diesel
Cylinder	4	4
Displacement	181 CID (3L)	199 CID (3.3L)
HP @ Gov. Speed	59HP (44 kW)	74HP (55 kW)
Fuel Tank Capacity	17.6 gal. (66.6L)	17.6 gal. (66.6L)

POWERSHIFT TRANSMISSION with 4-speeds in forward & reverse. Provides powershifts 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 valve provide forward, neutral, reverse and speed selection. Equipped with oil cooler and filter. Torque converter has stall ratio of 2.2 : 1.

Transmission Gear	Forward/Reverse	Speed	Drawbar Pull
First	5.72 : 1	4 MPH (6 km/h)	9,500 lbs. (4,300 kg.)
Second	3.23 : 1	7 MPH (11 km/h)	5,500 lbs. (2,500 kg.)
Third	1.77 : 1	12 MPH (19 km/h)	3,000 lbs. (1,300 kg.)
Fourth	1.00 : 1	19 MPH (31 km/h)	1,800 lbs. (800 kg.)

Drawbar pull is calculated based on GM 3.0L gasoline engine.

Planetary drive/steer axle with 11.625 : 1 axle ratio. Differential is "No-Spin." Axle mounted rigidly to frame.

2-Wheel Drive:

Axle with 1-1/2° oscillation in either direction.

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

Four-wheel hydraulic.

Wet disc brakes are on the front and rear axles.

Parking brake is disc type.

10.00 x 15, 16-ply rating, Highway Type Tread.

53 square feet (5 m²) of deck area. A maximum of 14,000 lb. (6,350 kg) capacity on deck when load is centered over or between axles. A storage box is located in front cargo deck. Steps located on front corners. Heavy deck loads allowed at creep speed below 2 MPH (3.2 km/h) and less than 200 feet (61 m) in 30 minutes.

Four hydraulic outriggers of box beam construction. Independent controls for each outrigger. Each cylinder equipped with directconnected holding valves.

Outrigger pad dimension: 9 inches (23 cm.) x 12 inches (30 cm.)

Lifting rings at each corner of cargo deck so sling can be attached

OPERATOR'S CONTROL STATION provides one-position access to all operating functions. Includes adjustable operator's seat, retracting seat belt, fire extinguisher and bubble level.

INSTRUMENT PACKAGE

Includes fuel gauge and hourmeter. Also included are warning lights for low oil and transmission pressure, turn signal, high beams, hazard lights, parking brake, hydraulic oil temperature, battery, check engine, stop engine, coolant temperature, outriggers.

LIGHTING PACKAGE

Headlights with Hi and Low beams, back-up lights, integral tail, brake, front and rear turn signals and emergency flasher switch at operator's station. 12V horn actuated by button on shifting

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" controls

TANDEM PUMP, direct-driven by engine crankshaft, rated at 16 & 32 GPM at rated RPM (61 L/min & 121 L/min). Hydraulic oil tank capacity of 25 gallons (95 L).

THREE-SECTION BOOM ASSEMBLY equipped with bearing pads, double-acting hydraulic cylinders with direct-connected holding valves & boom angle indicator on each side of boom.

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

Turret mounted planetary gear hoist hydraulically powered with a bare-drum line pull of 11,500 lbs (5,200 kg) at a speed of 100 FPM (30.5` m/min). Includes down-haul weight, swivel hook & sheave block for 2-part line and 140 ft (43 m) of 9/16" (14 mm)

ANTI-TWO-BLOCK DEVICE

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

SHEAVE BLOCK, TWO-PART

Single sheave block for 2-part line requirements.

RATED CAPACITY LIMITER

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

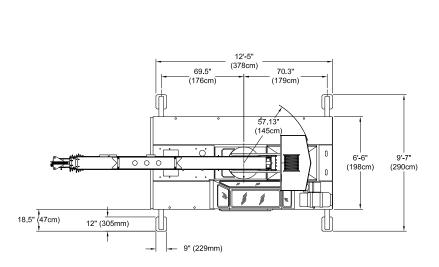
DRUM ROTATION INDICATOR

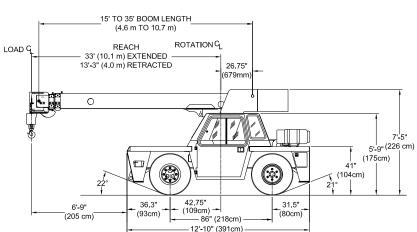
Provides visible feedback to operator when hoist drum is

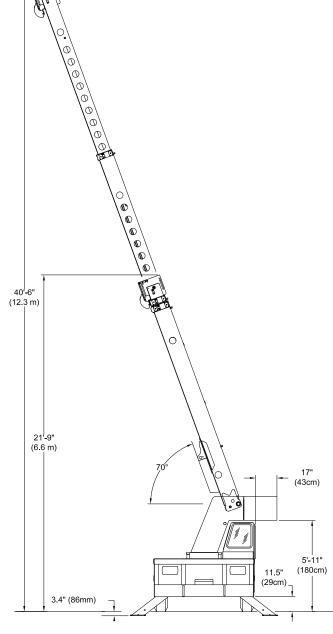


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CONSULT THE IC-100-A ENGINEERING SPEC FOR ADDITIONAL INFORMATION.

Main Features

RATED CAPACITY LIMITER
Standard

CAPACITY ON OUTRIGGERS 20,000 lbs. (9,000 kg)

PICK AND CARRY CAPACITY up to 11,200 lbs. (5,091 kg)

HEIGHT 7' 5" (2.26 m

6' 6" (2.0 m)

BOOM ROTATION 360° Continuous

SHEAVE HEIGHT up to 49' 4" (15 m)

HORIZONTAL REACH up to 39' 8" (12.1 m)

4-WHEEL STEER Standard

4-WHEEL DRIVE Optional

POWERSHIFT TRANSMISSIONStandard

FULLY HYDRAULIC CONTROLS FOR SMOOTH, PRECISE OPERATIONS

INDEPENDENT OUTRIGGER

MODEL

IC-100-A Industrial Crane

ENGINE OPTIONS

Installed in addition to standard muffler

Reduces engine emissions

Engine Heater

Coolant heater installed to circulate warm water through engine. Plugs into 120 volt AC, 1,500 watts

TIRE OPTIONS

10 x 15 , 193 lbs. (88 kg.)

Mining & Industrial Non-Marking 10 x 15, 193 lbs. (88 kg.)

Solid Rubber Tires 8.25 x 15

Foam Filled Tires

All four 900 lbs. (408 kg.) Spare Tire & Wheel Mounted

CHASSIS OPTIONS

uxiliary Winch

Mounted behind front bumper, hydraulically driven with controls.

Pintle Hook:

Pintle Hook, Rear Pintle Hook, Front

Rearview Mirrors

One mounted on right & left-hand deck stake

OPERATOR COMPARTMENT

Operator Guard

Tubular steel weldment with heavy expanded steel mesh top section.

All-Weather Cab

Rigid-mounted canopy section & 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.

ab Heater

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

Windshield Washe

Includes reservoir pump and nozzle.

loor Mat

Vinyl mat with foam backing.

eiuxe Seat

Provides additional operator comfort.

Noise Reduction Kit

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

Air Conditioning

Air Conditioner with R134 coolant.

ELECTRICAL OPTIONS

trobe Liahts

Yellow strobe light 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.

Work Lights-Roar

Two work lights recessed in rear bumper.

BOOM ATTACHMENTS:

Boom Extension

10ft. (3m), Boom stowable.

Boom Extension

10ft. (3m). Offsettable.

Same as above item, except boom extension is offsettable to 3 different positions; 0° (inline),

15° and 30° offset. Searcher Hook

Nose Mount

Broderson Cranes are designed and built to ISO 9001:2008 certified standards and have a market leading reputation for quality and reliability. Broderson Cranes are engineered for operating efficiency and are easy to operate and maintain.

An extensive network of full-service dealers offer parts and service support

For additional options or special equipment not listed, please consult your dealer salesperson or contact Broderson Manufacturing Corp.



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