



Fuel Tank Capacity

FNERAL

ENGINE

RANSMISSION

ROTATION ELEVATION EXTENSION Boom Movement Continuous 0° to 70° 18′ 5″ (564 cm) Hyd. Boom Speeds 2 RPM. 10 sec. 21 sec. Weight Total 16,750 lbs. (7,600 kg.)

Turning Radius

C/L of outside steering wheel: 11' 2" (3.4m)
Aisle Width for 90' Turn: 9'7" (2.92m)

Gradeability

63% (32')

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.

17.6 gal. (66.6L)

Transmission Gear	Forward/Reverse	Speed	Drawbar Pull
First	5.72 : 1	4 MPH (6 km/h)	15,500 lbs. (7,031 kg.)
Second	3.23 : 1	7 MPH (11 km/h)	8,700 lbs. (3,946 kg.)
Third	1.77 : 1	13 MPH (11 km/h)	4,600 lbs. (2,087 kg.)
Fourth	1.00 : 1	22 MPH (35km/h)	2.500 lbs. (1.134 kg.)

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

XLES

Planetary drive/steer axle with 11.625:1 axle ratio. Differential is "No-Spin." Axle mounted rigidly to frame. $1-1/2^{\circ}$ oscillation in either direction.

TEERING

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.

RAKES

Four-wheel hydraulic.

Wet disc brakes are on the front and rear axles.

Parking brake is disc type.

TIRES

4-WHEEL DRIVE (ONLY)

Mining Tire.

CARGO DECK

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.

OUTRIGGERS

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

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

LIFTING RINGS

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

OPERATOR SOMPARTMEN

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, engine oil pressure and transmission temperature.

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 control.

BACK-UP ALARM

Provides pulsating sound from 97 dB alarm when transmission is in reverse. Conforms to SAE J994b.

OUTRIGGER ALARM SYSTEM

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

DRAULIC

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 driver's side of boom.

BOOM ROTATION

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

BOOM HOIST

Turret mounted planetary gear hoist hydraulically powered with a bare-drum line pull of 10,000 lbs (4,536 kg) at a speed of 110 FPM (34 m/min). Includes down-haul weight, swivel hook & sheave block for 2-part line and 125 ft (38 m) of 9/16" (14 mm) hoist rope.

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.

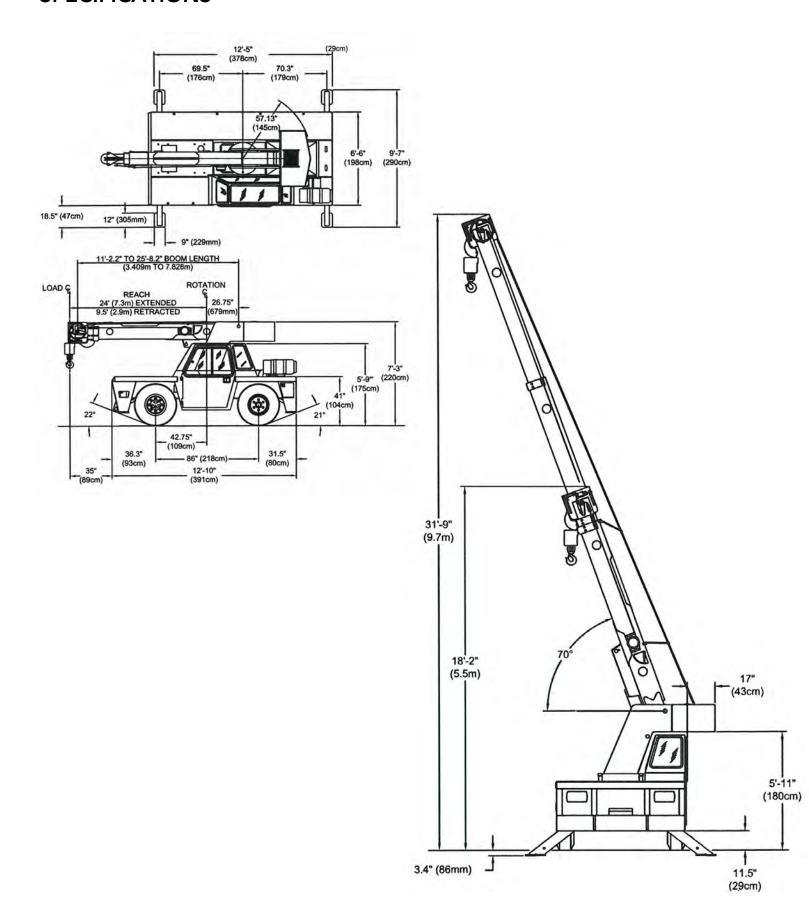
DRUM ROTATION INDICATOR

Provides tactile feedback to operator when hoist drum is rotating.

OTHER

Shorter boom models IC-80-1K, IC-80-2K available. 2-wheel Drive Available. (IC-80-J series)

IC-80-3K SPECIFICATIONS







CONSULT THE IC-80 ENGINEERING SPEC FOR ADDITIONAL INFORMATION.

Main Features

RATED CAPACITY LIMITER
Standard

CAPACITY ON OUTRIGGERS 18,000 lbs. (8,165 kg)

PICK AND CARRY CAPACITY up to 11,400 lbs. (5,170 kg)

HEIGHT 7′ 3″ (2.2 m)

WIDTH 6' 6" (2.0 m)

BOOM ROTATION 360° Continuous

SHEAVE HEIGHT up to 46' 8" (14.2 m)

HORIZONTAL REACH up to 40' (12.1 m)

4-WHEEL STEERStandard

4-WHEEL DRIVE Standard

POWERSHIFT TRANSMISSION Standard

FULLY HYDRAULIC CONTROLS FOR SMOOTH, PRECISE OPERATIONS

INDEPENDENT OUTRIGGER CONTROLS

DIESEL ONLY

ENGINE

Spark Arrester Muffler
Installed in addition to standard muffler
Catalytic Converter

Reduces engine emissions

Engine Heater

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

Cold Weather Package

TIRE

Solid Rubber Tires 8.25 x 15 Foam Filled Tires All four 900 lbs. (408 kg.) Spare Tire & Wheel Mounted

CHASSIS

Auxiliary 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. Cab Heater

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

Windshield Washer

Includes reservoir pump and nozzle.

Floor Mat

Options

Vinyl mat with foam backing.

Operator Suspension 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

Strobe Lights

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-Rear

Two work lights recessed in rear bumper.

BOOM ATTACHMENTS

Boom Extensio

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 by factory-trained technicians.

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



(913) 888-0606 www.BMCcranes.com Dimensions and values shown are for reference purposes only. Specifications subject to change.

