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# IC-400-A Industrial Crane

Broderson's long reach 25 US ton capacity carry deck crane, the IC-400 provides heavy duty capacity to take care of all your long reach light and heavy duty lifting needs.

*Capacity* 50,000 lbs. (22,700 kg)

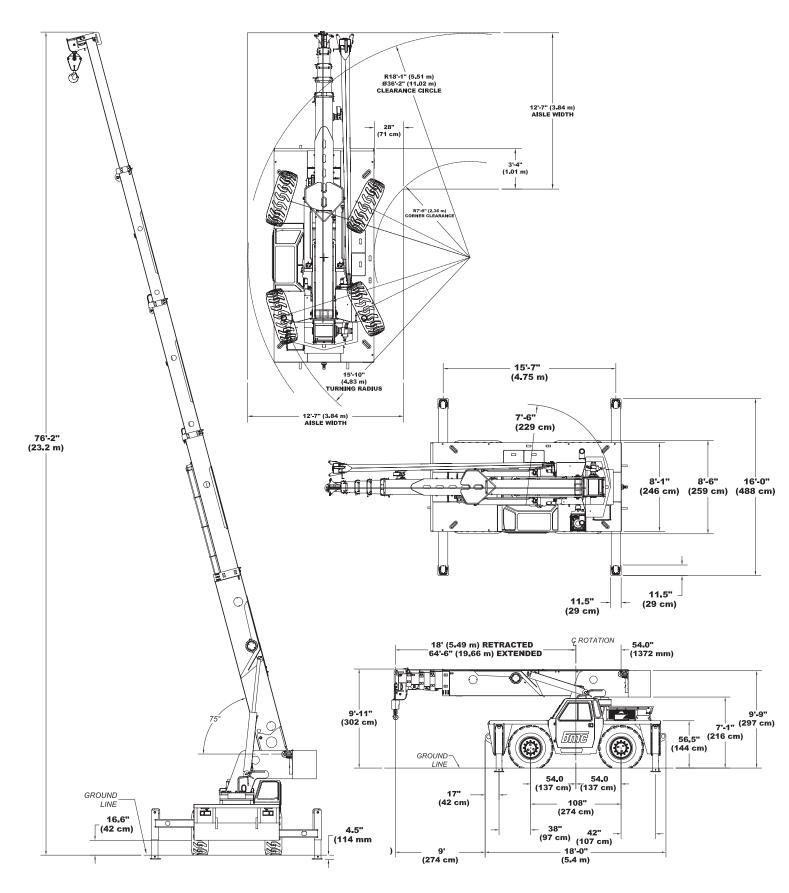
*Sheave Height* 95' (28.96 m)

*Horizontal Reach* 84' 6" (25.76 m)

> *Height* 9′ 11″ (2.96 m)

*Width* 8' 6" (2.59 m)









## CONSULT THE IC-400-A ENGINEERING SPEC FOR ADDITIONAL INFORMATION.

# Main Features

RATED CAPACITY LIMITER Standard

CAPACITY ON OUTRIGGERS 50,000 lbs. (22,700 kg)

PICK AND CARRY CAPACITY up to 24,400 lbs. (11,000 kg)

> **HEIGHT** 9' 11" (2.96 m)

**WIDTH** 8' 6" (2.59 m)

**BOOM ROTATION** 360°

SHEAVE HEIGHT up to 95' (28.96 m)

HORIZONTAL REACH up to 84' 6" (25.76 m)

FOUR-WHEEL STEER Standard

FOUR-WHEEL DRIVE Standard

POWERSHIFT TRANSMISSION Standard

**TIGHT TURNING RADIUS** 

FULLY HYDRAULIC CONTROLS FOR SMOOTH, PRECISE OPERATIONS

> INDEPENDENT OUTRIGGER CONTROLS

MODEL IC-400-A Industrial Crane

**ENGINE OPTIONS** Spark Arrester Muffler Installed in addition to standard muffler.

**TIRE OPTIONS** Spare Tire & Wheel

# **CHASSIS OPTIONS**

Auxiliary Winch Mounted on front outrigger bumper, hydraulically driven with control in operator's console. Pintle Hook Rear and Front Rearview Mirrors One mounted on right-hand deck stake and one mounted on left-hand deck stake.

### **OPERATOR COMPARTMENT**

Floor Mat Vinyl mat with foam backing. Noise Reduction Kit Includes floor mat, control valve cover and side panels of foam backed vinyl for noise reduction. Sun Visor Adjustable sun visor for reducing glare mounted in roof of cab.

# **ELECTRICAL OPTIONS**

Strobe Lights Yellow strobe light mounted on each side of turret weight box Camera System 4-camera video system to assist operator with hard-to-see viewpoints 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. **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.

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.



# IC-400-A SPECIFICATIONS

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	ROTATION	ELEVATION	EXTENSION	
Boom Movement	Continuous	0° to 75°	46'6" (14.17m)	
Weight Total	54,900 lbs. (24,9	54,900 lbs. (24,900 kg.)		
Front Axle	29,400 lbs. (13,3	29,400 lbs. (13,330 kg.)		
Rear Axle	25,500 lbs. (11,5	25,500 lbs. (11,570 kg.)		
Gradeability	70% (34°)	70% (34°)		
Turning Radius	15' 10" (4.83m)	15' 10" (4.83m)		
Make	Cummins			
Model	QSB4.5 (US EP.	QSB4.5 (US EPA Tier 3)		
Туре	Turbocharged-	Turbocharged-Diesel, charge air cooled		
Cylinder	4	4		
Displacement	4.5L			
HP @ Gov. Speed	160HP			
Fuel Tank Capacity	50 gal.			

POWERSHIFT TRANSMISSION with 6-speeds forward & 3-reverse. Provides power shifts at any engine speed in any gear. All shifting is done with a single lever electrical control. Equipped with torque convertor & transmission oil cooler. Torque convertor has stall ratio of 2.640:1.

FORWARD GEAR RATIOS & SPEEDS:

ORWARD GEAR RATIOS & SPEEL			
GEAR	RATIO	SPEED (MPH)	
1st	8.20	2.7 (4.3km/h)	
2nd	4.64	4.8 (7.7km/h)	
3rd	3.53	6.3 (10.1 km/h)	
4th	2.00	11.2 (18 im/h)	
5th	1.41	15.8 (25 km/h)	
6th	0.80	23.0 (37 km/h)	
5th	1.41	15.8 (25 km/h)	

REVERS	e gear	RATIOS & SPEEDS:	
GEAR	PATIO	SPEED (MPH)	

OLAN	NANO	
1st	8.20	2.7 (4.3km/h)
2nd	3.53	6.3 (10.1 km/h)
3rd	1.41	15.8 (25 km/h)

#### FRONT

Planetary drive/steer front axle with 16:42 to 1.0 ratio. Differential equipped with "limited slip" feature. Front axle mounted rigidly to frame. REAR

Planetary drive/steer axle with 16.42 to 1.0 ratio. Rear axle mounted with rubber elements to allow oscillation.

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, 4-wheel steering or crab steering. Electronic sensors and control box automatically align the steering after a new mode is selected.

Service: 4-wheel hydraulic disc-type brakes

Parking: Spring-applied & hydraulically released disc-type parking brake on transmission.

#### Standard:

17.5 x 25, 20-ply rating, mud lug.

#### CARGO DECK

Forward Deck Area: 74 sq. ft.(6.94m²) of deck area. 20,000 lbs. (91,000kg) capacity on deck when load is centered over or between axles. (Side deck area not included in capacity.)

### **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 11.5" (29cm) x 11.5" (29cm). ACCESSORY STORAGE BOX

One side deck compartment & one front deck compartment, each box has hinged lockable cover.

#### LIFTING RINGS

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

<b>OPERATOR COMPARTMENT</b>	Provides one-position access to all chassis & crane functions. Includes adjustable operator's seat, retracting seat belts, fire extinguisher, electronic level gauge & tilt steering wheel. <b>DRUM ROTATION INDICATOR</b> An indicator display light & joystick thumper indicates drum rotation. <b>ALL WEATHER CAB</b> Consists of rigid mounted canopy section and removable hinged door with safety glass. Rugged canopy structure with laminated glass front & top. Door is equipped with a keyed lock to protect operator's station. Standard integrated heater and A/C system for operator comfort. Includes defroster fan, dome light, heater with 2-speed fan & 12V electric windshield wiper and windshield washer. <b>CLIMATE CONTROL/OPERATOR COMFORT</b> Integrated heater and air conditioning standard. <b>RUBBER ISOLATORS</b> Reduce noise and vibrations. <b>ELECTRONIC CONTROLS</b> Two dual-axis joysticks provide control of boom motions and hoist.
1	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. Located on the dashboard at the operator's station is the key pad for outrigger operation, an engine display unit, rocker switches for

# various functions, and indicator lights. Included with the engine display are simulated gages displaying real-time values for engine RPM, battery voltage, engine hours, fuel level, oil pressure, and coolant temperature. Additional warning lamps monitor vitals like engine status, low fuel, low battery, low oil pressure, and high hydraulic fluid

temperature. BACK-UP ALARM

Provides pulsating sound from 102dB alarm when transmission is in reverse

OUTRIGGER ALARM SYSTEM: I

Two-tone alarm is activated when "jack down" or "beam out" controls are operated

EMERGENCY STOP SWITCH:

A two-position push button switch located on the top left-hand of the dash panel. Designed to stop the engine & shut down the hydraulic system.

#### TRIPLE VANE PUMP delivers 13, 25 & 40 GPM (53, 106 & 151 L/min) at rated 3,000 PSI (207 bar) and 2,500 RPM engine speed. Hydraulic oil tank capacity of 81 gallons (307 L).

Five-section, high-strength steel construction, equipped with bearing pads for efficient support and extension. Second stage uses a doubleacting hydraulic cylinder to telescope sequentially. Double-acting hydraulic cylinder and chain system telescopes boom sections 3, 4, & 5 proportionally. The telescope cylinders and the double-acting boom elevation cylinders are equipped with cylinder-mounted holding valves. Boom angle indicator is on cab side of boom.

### BOOM ROTATION

AULIC

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

Turret-mounted 2-speed planetary gear hoist, is hydraulically powered to provide a low speed bare-drum line pull of 17,850 lbs(8100kg) and a speed of 123 ft/min(37m/min) and a high speed bare-drum line pull of 7,400 lbs(3350kg) and a speed of 300 ft/min(91m/min). Hoist drum is a grooved 10 5/8-inch(270mm) diameter by 17-1/8 in(435mm) long. The hoist includes 370 ft(113m) of 5/8in(16mm) wire rope, cable tensioner, downhaul weight and swivel hook. 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, stopping boom functions that will cause overloads.

FOUR PART-LINE SHEAVE BLOCK:

Double-sheave block for 4-part-line requirements. Downhaul weight and hook included as standard