IC-400-A

**SPECIFICATIONS**

**Engine**
- **Make**: Turbocharged-Diesel, charge air cooled
- **Type**: Make not specified
- **Model**: Make not specified
- **Displacement**: 4.5L
- **Cylinder**: 4
- **Standard**: Turbocharged-Diesel, charge air cooled

**Transmission**
- **Type**: Powershift transmission
- **Ratios & Speeds**:
  - **FORWARD GEAR RATIOS & SPEEDS:**
    - 1st: 8.20 (2.7 km/h)
    - 2nd: 3.53 (6.3 km/h)
    - 3rd: 1.41 (15.8 km/h)
    - 4th: 0.80 (23.0 km/h)
  - **REVERSE GEAR RATIOS & SPEEDS:**
    - 1st: 8.20 (2.7 km/h)
    - 2nd: 3.53 (6.3 km/h)
    - 3rd: 1.41 (15.8 km/h)
    - 4th: 0.80 (23.0 km/h)

**Control**
- **Controller**: Two dual-axis joysticks provide control of boom motions and hoist.
- **Tow Tone Alarm**: Provides pulsating sound from 102dB alarm when transmission is in reverse.
- **Back-Up Alarm System**: Two-tone alarm is activated when "jack down" or "beam out" controls are operated.

**Fuel System**
- **Tank Capacity**: 50 gal.
- **Oil Capacity**: 90 gal.

**Boom Movement**
- **Continuous**: 0˚ to 75˚ 46'6" (14.17m)

**Turns & Drives**
- **Turning Radius**: 70% (34˚)
- **Gradeability**: 85% (36˚)

**Booster**
- **Standard**: 4-wheel hydraulic disc-type brakes

**Brakes**
- **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.

**Electrical**
- **Instruments**: Designed to stop the engine & shut down the hydraulic system.
- **Climate Control/Operator Comfort**: Includes defroster fan, dome light, heater with 2-speed fan and 4-speed AC, 12V electric windshield wiper and windshield washer.

**Lifting Crane**
- **Capacity**: 50,000 lbs. (22,700 kg)
- **Sheave Height**: 95' (28.96 m)
- **Horizontal Reach**: 84’ (25.76 m)
- **Height**: 9’ 11” (2.96 m)
- **Width**: 6’ 6” (2.59 m)

**IC-400-A Technical Specifications**

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

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.

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(913) 888-0606
www.BMCcranes.com

Dimensions and values shown are for reference purposes only. Specifications subject to change.
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IC-400-A SPecifications

**Rotations & Elevations**

- **Boom Movement**: 0° to 75°
- **Horizontal Reach**: 84’ 6” (25.76 m)
- **Height**: 9’ 11” (2.96 m)
- **Width**: 8’ 6” (2.59 m)
- **Capacity**: 50,000 lbs. (22,700 kg)
- **Sheave Height**: 95’ (28.96 m)

**Features & Controls**

- **Hydraulic Lifting System**: 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.
- **Drum Rotation Indicator**: An indicator light display & joystick thromper indicates drum rotation.
- **Safety Features**: All weather cab, consists of rigid mounted canopy structure 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 & A/C system for operator comfort. Includes defroster, dome light, heater with 2-speed fan & 120V electric windshield defroster & windshield defroster.
- **Climate Control**: Heater and air conditioning system.
- **Rubber Isolators**: Reduce noise and vibrations.
- **Electronic Controls**: Two dual axis joysticks provide control of boom motions and hoist.

**Engine**

- **Make**: Cummins
- **Model**: QSB4.5 (US EPA Tier 3)
- **Displacement**: 4 cylinders
- **Turbocharged-Diesel, charge air cooled
- **Fuel Tank Capacity**: 50 gal.
- **BHP @ Gov. Speed**: 160HP
- **Cylinder**: 4
- **Engine RPM**: 1800 RPM
- **Rated Torque**: 1050 lbs.

** Transmission**

- **PowerShift Transmission**: 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 converter & transmission oil cooler. Torque converter has stall ratio of 2.64:1.
- **GEAR RATIO SPEED (MPH)**
  - 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)
  - 4th: 0.80 23.0 (37 km/h)

**Electrical**

- **12-Volt System**: 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).

**Chassis**

- **Weight Total**: 54,950 lbs. (24,900 kg)
- **Max Axle Load**: 22,550 lbs. (10,200 kg)
- **Rear Axle**: 25,000 lbs. (11,370 kg)
- **Steering**: 4-wheel hydraulic disc-type brakes
- **Accessories**: Heavy-duty ball bearing rotation gear with external teeth. Rotation is automatically controlled.

**Safety Features**

- **Front**: Planetary drive/steer front axle with 16:1 to 1 ratio. Differential equipped with “limited slip” feature. Front axle mounted rigidly to frame.
- **Rear**: Planetary drive/steer axle with 16:1 to 1 ratio. Rear axle mounted with rubber elements to allow oscillation.

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

**Lifting Rigs**

- **Lifting Rings**: Lifting rings at each corner of cargo deck so slings can be attached for lifting crane.

**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.