IC-200-3J
Industrial Crane

The IC-200 is a self-propelled Industrial crane designed for material handling and installation, and equipment maintenance. It includes a 4-section proportional hydraulically extended boom.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Rotation</th>
<th>Elevation</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom Movement</td>
<td>Continuous</td>
<td>290˚</td>
<td>90˚</td>
</tr>
<tr>
<td>Boom Speeds</td>
<td>2 RPM</td>
<td>0.1 RPM</td>
<td></td>
</tr>
<tr>
<td>Weight Total</td>
<td>31,000 lbs. (14,110 kg)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turning Radius</td>
<td>14’ 9” (4.5m)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**General**

- **Make**: Caterpillar
- **Model**: IC-200-3J
- **Type**: Diesel Turbocharged
- **Fuel Tank Capacity**: 30 gal. (113L)
- **Engine**: Cummins 4.3L V6
- **Power**: 170 HP (127kW)
- **Transmission**: Multiple Speed
- **Elevation**: Gas 17,000* 4
- **Steering**: 4.3L (113L)
- **Drawbar Pull**: 31,080 lbs. (14,110 kg)
- ** Boom Capacity**: 30,000 lbs. (13,600 kg)
- ** Horizontal Reach**: 66’ (20.1 m)
- **Height**: 8’ (2.44 m)
- **Width**: 10’ 5.5” (2.4 m)

**Engine**

- **Type**: Turbocharged 4.3L V6
- **Power**: 170 HP (127kW)
- **Oil Cooler**: Standard
- **Clutch**: Dual clutch

**Transmission**

- **Power Source**: Engine
- **Gear Ratios**: First - 5.72:1, Second - 3.23:1, Third - 1.77:1, Fourth - 1.00:1
- **Fuel Injection**: Electronic

**Chassis**

- **Frame**: Rigid steel frame
- **Suspension**: Four-wheel drive
- **Axle Ratio**: 4.3L (113L)
- **Elevations**: Gas 17,000*

**Electrical**

- **Display**: Electronic
- **Lights**: Headlights, taillights, turn signals, hazard lights
- **Backup Alarm**: Electronic

**Brakes**

- **Parking**: Hand lever actuated disc-type parking brake on transmission

**Other**

- **IC-200-3J**: Shorter boom model available.

**Powertrain**

- **Engine**: Cummins 4.3L V6
- **Power**: 170 HP (127kW)
- **Transmission**: Multiple Speed
- **Fuel Injection**: Electronic
- **Power Source**: Engine
- **Gear Ratios**: First - 5.72:1, Second - 3.23:1, Third - 1.77:1, Fourth - 1.00:1

**Materials**

- **Boom**: Steel
- **Accessories**: Lifting rings, outriggers

**Safety**

- **Parking**: Hand lever actuated disc-type parking brake on transmission
- **Backup**: Electronic
- **Backup Alarm**: Electronic

**Dimensions**

- **Height**: 8’ (2.44 m)
- **Reach**: 66’ (20.1 m)
- **Width**: 10’ 5.5” (2.4 m)
- **Capacity**: 30,000 lbs. (13,600 kg)
- **Sheave Height**: 73’ 10” (22.4 m) (with boom extension)

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### GENERAL
- **Tire Size:** 15x22.5, 16-ply rating.
- **Track:** 14' 5" (4.42m)
- **Turning Radius:** 19' 5" (6.0m)
- **Engine:** QSB3.8 T4F, 4.3L V6, Gas
- **Fuel Tank Capacity:** 30 gal. (113L)
- **Drawbar Pull:** 2,700* at 3 MPH, 5,100* at 5 MPH, 9,300* at 17 MPH
- **Continuous HP:** 180 HP (134kW)

### ELECTRICAL
- **Display:** Tandem pump direct-driven by engine crankshaft, rated at 29 GPM (110 L/min) and 36 GPM (137 L/min) at rated RPM. Hydraulic oil tank capacity of 54 gallons (204 L).
- **Lighting Package:** One pair headlights with high and low beams, tail, brake and turn signal lights and back-up lights in rear, front turn signals and emergency flasher switch at operator's station.
- **Backup Alarm:** Provides pulsating sound when transmission is in reverse.
- **Outrigger Alarm System:** Two-tone alarm is activated when "outrigger down" controls are operated.

### CHASSIS
- **Outrigger Pad:** 11" x 16" (28cm x 41cm).
- **Lifting Rings:** Double sheave block for 4-part line requirements.
- **Boom Hoist:** Turret mounted planetary gear hoist hydraulically powered with a bare drum line pull of 10,000 lbs (4536 kg) at a line speed of 100 FPM (30 m/min). Includes downhaul weight, swell hook and shackle block for 4-part line.

### CARGO DECK
- **Capacity:** 30,000 lbs. (13,600 kg)
- **Sheave Height:** 73' 10" (22.4 m) with boom extension
- **Horizontal Reach:** 66' (20.1 m) with boom extension
- **Height:** 8' (2.44 m)
- **Width:** 7' 10.5" (2.4 m)
- **Boom Rotation:** Allows limited steering when engine is not running. A switch on the control panel is used to select rear-wheel steering, four-wheel steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

### BRAKES
- **Parking:** Hand lever actuated disc-type parking brake on transmission.

### HYDRAULIC
- **Four-Section Boom Assembly:** Equipped with bearing pads, double-acting hydraulic cylinders with direct-connected holding valves and boom angle indicator on each side of boom.

### SPECIFICATIONS
- **Engine Type:** Gas
- **Transmission:** Powershift Transmission with 4-speeds forward and reverse. Provides powershifts at any engine speed in any gear. Air shifting is done with a single lever electrical control mounted on the steering column. Equipped with torque converter and transmission oil cooler. Torque converter has stall ratio of 2.2:1.

### OPERATOR COMPARTMENT
- **Rated Capacity Limiter:** Tactile feedback to operator when drum is rotating.

Includes adjustable operator's seat, retracting seat belts, fire extinguisher & bubble level.
**IC-200-3J SPECIFICATIONS**

**Main Features**

- **Rated Capacity Limiter**: Standard
- **Capacity on Outriggers**: 30,000 lbs. (13,600 kg)
- **Pick and Carry Capacity**: up to 17,800 lbs. (7,711 kg)
- **Height**: 8' (2.45 m)
- **Width**: 7' 10.5" (2.4 m)
- **Boom Rotation**: 360° Continuous
- **Sheave Height**: up to 73' 10" (22.5 m)
- **Horizontal Reach**: up to 66' (20.1 m)
- **Four-Wheel Steer**: Standard
- **Four-Wheel Drive**: Optional
- **Powershift Transmission**: Standard
- **Fully Hydraulic Controls for Smooth, Precise Operations**
- **Independent Outrigger Controls**
- **Diesel or Dual Fuel Engines Available**

**Options**

- **Engine**
  - Spark Arrester Muffler
  - Installed in addition to standard muffler
  - (Dual Fuel engine only)
- **Engine Heater**
  - Engine coolant heater installed to circulate warm water through engine, plugs into 120 volt AC.
- **Axle & Steering**
  - 4-Wheel Steer & 2-Wheel Drive
  - 4-Wheel Steer & 4-Wheel Drive
- **Tire**
  - Non Marking Tires
  - Foam Filling of Tires
  - Spare Tire & Wheel
- **Chassis**
  - Auxiliary Winch
  - Mounted behind the front 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**
  - Cab: Operator Comfort
  - Tubular steel weldment with heavy expanded steel mesh top section for units without All Weather Cab.
  - 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 the canopy. Defroster fan & dome light included.
  - Cab Heater Only
  - Heater with two-speed fan for units without All Weather Cab.
- **Boom Attachments**
  - Boom Extension
  - 16 foot (5 m), offsettable
  - Sheave Block
  - Two-part Line
  - Searcher Hook
  - Nose Mount 5,000 lb (2,268 kg) capacity hook bracket

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**Broderson Cranes**

Broderson Cranes are designed and built to ISO 9001-2015 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.

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**Main Features**

**RATED CAPACITY LIMITER**
- Standard

**CAPACITY ON OUTRIGGERS**
- 30,000 lbs. (13,600 kg)

**PICK AND CARRY CAPACITY**
- up to 17,000 lbs. (7,711 kg)

**HEIGHT**
- 8’ 6” (2.54 m)

**WIDTH**
- 7’ 10.5” (2.4 m)

**BOOM ROTATION**
- 360° Continuous

**SHEAVE HEIGHT**
- up to 73’ 10” (22.5 m)

**HORIZONTAL REACH**
- up to 66’ (20.1 m)

**FOUR-WHEEL STEER**
- Standard

**FOUR-WHEEL DRIVE**
- Optional

**POWERSHIFT TRANSMISSION**
- Standard

**FULLY HYDRAULIC CONTROLS FOR SMOOTH, PRECISE OPERATIONS**

**INDEPENDENT OUTRIGGER CONTROLS**

**DIESEL OR DUAL FUEL ENGINES AVAILABLE**

**ENGINE**
- Spark Arrestor Muffler
  - Installed in addition to standard muffler.
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**ENGINE HEATER**
- Engine coolant heater installed to circulate warm water through engine.
- Plugs into 120 volt AC.

**AXLE & STEERING**
- 4-Wheel Steer & 2-Wheel Drive
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**TIRE**
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**Windshield Washer**
- Includes reservoir, pump & nozzle.
- Floor Mat
- Vinyl mat with foam backing.

** operator Suspension Seat**
- Includes floor mat, control valve cover and side panels of foam-backed vinyl for noise reduction.
- Air Conditioning
- Air Conditioner w/134 coolant.

**ELECTRICAL**
- Strobe Lights
  - Two yellow strobe lights mounted on each side of turret weight box.
  - 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 Extensions
  - 16 foot (5 m), offsettable

**Sheave Block**
- Two-Part Line

**Searcher Hook**
- Nose Mount 5,000 lb (2,268 kg) capacity hook bracket

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Dimensions and values shown are for reference purposes only. Specifications subject to change.