IC-250-3D
Industrial Crane

18-Ton Max. Capacity
(16,330 kg)

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 36,000 lbs (16,330 kg)
- Pick and Carry Capacity ... up to 18,500 lbs (8,400 kg)
- Height ... 7' 11" (2.41 m)
- Width ... 7' 10" (2.39 m)
- Boom Rotation ... 360 Degree Continuous
- Sheave Height ... up to 79' 6" (24.23 m)
- Horizontal Reach ... up to 70' (21.36 m)
- 4-Wheel Steer ... Standard
- 4-Wheel Drive ... Optional
- Powershift Transmission ... Standard
- Fully Hydraulic Controls for Smooth Precise Operations
- Independent Outrigger Controls
- Diesel or LPG Fueled Engines Available
**GENERAL:**

<table>
<thead>
<tr>
<th>Boom Movement:</th>
<th>Rotation</th>
<th>Elevation</th>
<th>Extension*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom Speeds:</td>
<td>1.3 RPM</td>
<td>0° to 75°</td>
<td>34.5° (10.52m)</td>
</tr>
<tr>
<td>Weight:</td>
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<td>34.5° (10.52m)</td>
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</tbody>
</table>

**AXLES:**

- **Front Axle:**
  - Planetary drive/steer front axle with 15.78 to 1.0 ratio. Differential equipped with “limited slip” feature.
  - Axle ratio compatible with 4WD transmission rear output ratio to match front axle speed.

<table>
<thead>
<tr>
<th>Gear Ratio</th>
<th>First</th>
<th>Second</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.72:1</td>
<td>3.23:1</td>
</tr>
<tr>
<td></td>
<td>1.77:1</td>
<td>1.00:1</td>
</tr>
</tbody>
</table>

**ENGINE:**

- **Make:** Cummins
- **Model:** QSB3.3L Tier 4i
- **Type:** Turbocharged Diesel
- **No. Cyl.:** 4
- **Displacement:** 3.3L
- **HP @ Gov. Speed:** 100 H.P. (75 kW) 135 H.P. (101 kW)
- **Fuel Tank Capacity:** 30 Gal (114 L)

**TRANSMISSION:**

- Powershift transmission with 4-speeds forward & reverse. Provides power shifts 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 valves provide reverse, neutral, forward and speed selection. Equipped with torque converter and transmission oil cooler.

**ELECTRICAL:**

- **12 Volt System**
- **Lighting Package:**
  - Consists of two 12V-lamps, with high and low beams for driving; tail, brake and turn signal lights and backup lights in rear; front turn signals and emergency flasher switch at operator's station.

**HYDRAULIC SYSTEM:**

- Tandem pump, direct-driven by engine, delivers 30 GPM (113L/min) at rated RPM. 54-gallon capacity.

**BOOM ASSEMBLY:**

- Four-section boom assembly equipped with bearing pads, doubleacting hydraulic cylinder & chain system telescopes booms proportionally.
- Telescope & boom elevation cylinders equipped with cylinder-mounted holding valves. Boom angle indicator on each side of boom.

**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 or four-wheel (round) steering or crab steering.

**TIRES:**

- **Standard:** 385/65 D22.5, 16-ply high traction on/off road tread.

**ACCESSORY STORAGE BOX:**

- Storage box is 14” (35 cm) deep x 12¾” (32 cm) long x 36 ½” (93 cm) wide, located in front cargo deck.

**OUTRIGGERS:**

- Four hydraulic out & down outriggers of box beam construction with direct-connected holding valves. Independent controls for each outrigger. Outrigger pad dimension 9” (23 cm) x 9” (23 cm)

**Rated Capacity Limiter:**

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

**CARGO DECK:**

- 80 Square feet (7.4 m²) deck area. 17,000 lbs. (7,700 kg)
- Capacity on deck when load is centered over or between axles.

**HEADLIGHT & TAILLIGHT GRILLES:**

- Steel protective grilles for headlights & taillights. Easily removable for replacing bulbs.

**Back-Up Alarm**

- The two-tone alarm is activated when “outrigger down” or “outrigger out” controls are operated.

**OPERATOR COMPARTMENT:**

- Provides one-position access to all chassis and crane controls. Includes adjustable operator’s seat, retracting seat belt, fire extinguisher, and bubble level.
Listed below are brief descriptions of options available for this product. Consult the IC-250-3D Engineering Spec for additional information.

**MODEL:**
IC-250-3D Industrial Crane

**ENGINE OPTIONS:**
Spark Arrester Muffler
- Installed in addition to std. muffler.
Engine Heater for LPG Engine
- Engine coolant heater is installed to circulate warm water through engine, plugs into 120 volt AC.

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**AXLE & STEERING OPTIONS:**
4-Wheel Steer & 2-Wheel Drive
4-Wheel Steer & 4-Wheel Drive

**TIRE OPTIONS:**
Non-Marking Tires
Foam Filling of Tires
Spare Tire & Wheel

**CHASSIS OPTIONS:**
Auxiliary Winch
- Mounted behind the front bumper, hydraulically driven with control in operator's console.
Pintle Hook:
- Pintle Hook, Rear
- Pintle Hook, Front
Rearview Mirrors
- One mounted on right-hand deck stake and one mounted on left-hand deck stake.
Outrigger Shoes
- Steel outrigger shoes, 18" (46 cm) x 18" (46 cm) octagonal shape with storage posts on rear bumper.

**OPERATOR COMPARTMENT OPTIONS:**
Operator Guard
- Tubular steel weldment with heavy expanded steel mesh top section.
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 canopy. Defroster fan & dome light included.
Cab Heater Only
- Heater with two-speed fan for units without All Weather Cab.
Windshield Washer
- Includes reservoir, pump and nozzle.
Floor Mat
- Vinyl mat with foam backing.
Operator Suspension Seat
- Small suspension built in to provide additional operator comfort.
Deluxe seat upholstery springs provide additional operator comfort.
Noise Reduction Kit
- Includes floor mat, control valve cover and side panels of foam backed vinyl for noise reduction.
Air Conditioning
- Air Conditioner with R134A coolant.

**ELECTRICAL OPTIONS:**
Strobe Lights
- Two yellow strobe lights mounted on each side of turret weight box.
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.
Work Lights - Rear
- Two work lights recessed in rear bumper.

**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.
Sheave Block - Two Part Line
Searcher Hook:
- Nose Mount

Should you require an option or special equipment not listed please consult your dealer salesperson or BMC®.

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Dimensions and values shown are for reference purposes only.
Specifications subject to change.
IC-250-3D
Industrial Crane

CRANE CAPACITY CHART
IC-250-3D

DECK CAPACITY 17000 LBS. WITH EMPTY BOOM RESTRICTED OVER FRONT. DECK LOAD MUST BE CENTERED BETWEEN FRONT AXLE. SPEED MUST BE LESS THAN 2 MPH. MAXIMUM TRAVEL 200 FT. IN 30 MINUTES ON SMOOTH PAVEMENT.
PICK AND CARRY WITH THE SHORTEST PRACTICAL BOOM, CENTERED OVER THE FRONT. OPERATE WITH BOOM AS LOW AS POSSIBLE WITH THE LOAD CLOSE TO THE GROUND. PICK AND CARRY CAPACITIES ARE FOR A SMOOTH, LEVEL PAVED SURFACE.
THE SCALES ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING NO ELECTRICAL INSULATION VALUE.
MAXIMUM HYDRAULIC PRESSURE 3000 PSI.
BOOM EXTENSION DECREASES 250 LBS. WHEN STORIED ON BASE BOOM.
ENSURE ANTI-Two-SWITCH IS FUNCTIONAL AFTER DEPLOYING OR STORING BOOM EXTENSION.
OPERATION:
1. READ AND UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.
2. CHECK LEVEL OF HYDRAULIC OIL AND ENGINE OIL DAILY.
3. CHECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.
4. SET TRAVEL Brake SECURLY.
5. EXTEND OUTSTANDING TO SLOO BOARDING AND LEVEL CRANE.
6. OPERATE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS.

THE LOAD HOIST LINE ON THIS UNIT MUST BE 9/16" DIA. X 36-END B/L-WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BENDING STRENGTH OF 31,000 LBS.
APPROVED TENS: GTR 385/60HR2.5, 16 FLY - 120 PBM
THROW MILES, NOTE TO 10 FT. LBS. (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE.)

LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES EXCEPT HOIST ROPE SHALL BE CONSIDERED PART OF THE LOAD.