IC-200-1C

CAPACITIES APPLY TO OPERATIONS ON FIRM LEVEL SURFACE
MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS

<table>
<thead>
<tr>
<th>LOAD RADIUS</th>
<th>360 DEGREE ROTATION</th>
<th>OVER FRONT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEET</td>
<td>ON RUBBER</td>
<td>ON OUTRIGGER</td>
</tr>
<tr>
<td>6</td>
<td>16500</td>
<td>30000</td>
</tr>
<tr>
<td>8</td>
<td>13500</td>
<td>24000</td>
</tr>
<tr>
<td>10</td>
<td>11000</td>
<td>20000</td>
</tr>
<tr>
<td>12</td>
<td>8200</td>
<td>16400</td>
</tr>
<tr>
<td>14</td>
<td>6400</td>
<td>12700</td>
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<tr>
<td>15</td>
<td>5200</td>
<td>11200</td>
</tr>
<tr>
<td>18</td>
<td>4300</td>
<td>9900</td>
</tr>
<tr>
<td>22</td>
<td>3900</td>
<td>8300</td>
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<tr>
<td>24</td>
<td>3100</td>
<td>7550</td>
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<tr>
<td>25</td>
<td>2400</td>
<td>6150</td>
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<td>2150</td>
<td>5500</td>
</tr>
<tr>
<td>30</td>
<td>2000</td>
<td>4300</td>
</tr>
<tr>
<td>32</td>
<td>1800</td>
<td>3950</td>
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<td>40</td>
<td>1000</td>
<td>3100</td>
</tr>
<tr>
<td>45</td>
<td>700</td>
<td>2900</td>
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</table>

BOOM

15' FOOT BOOM EXTENSION - STRAIGHT OR OFFSET

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>0°</th>
<th>15°</th>
<th>30°</th>
<th>45°</th>
<th>60°</th>
<th>75°</th>
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</thead>
<tbody>
<tr>
<td>Ext.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15°</td>
<td>3100</td>
<td>3450</td>
<td>3000</td>
<td>4650</td>
<td>6000</td>
<td>7500</td>
</tr>
<tr>
<td>30°</td>
<td>3000</td>
<td>3100</td>
<td>3300</td>
<td>3650</td>
<td>4250</td>
<td>5200</td>
</tr>
</tbody>
</table>

* Use 0° for straight boom extension.

Boom extension loads must not exceed main boom capacity.

Capacities below bold line are limited by tipping. Other capacities are limited by structural or hydraulic capacity.

Boom extension deduct 400 pounds when stowed on base boom. 400 pounds in work position with load on the main boom.

USE SINGLE PART LOAD LINE FOR LOADS TO 10000 LBS (4" 1/2 CORD)

USE TWO PART LOAD LINE FOR LOADS TO 18000 LBS (4" 1/2 CORD)

USE FOUR PART LOAD LINE FOR LOADS TO 30000 LBS (4" 1/2 CORD)

RADIUS IN FEET FROM CENTER TO LOAD

11' 3/4"    15' 2 1/2"

15' 3/4"    20' 1 1/2"

18' 1/2"    23' 1/2"

20' 3/4"    25' 1 1/2"

20' 1 1/2"  28' 1 1/2"

23' 3/4"    33' 1/2"

26' 1/2"    36' 1 1/2"

28' 3/4"    38' 1/2"

30' 1/2"    40' 1 1/2"
## Capacities Apply to Operations on Firm Level Surface

### Main Boom or Extension Capacities in Pounds

<table>
<thead>
<tr>
<th>Load Radius Feet</th>
<th>90 Degree Rotation</th>
<th>Over Front</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>On Rubber</td>
<td>On Outrigger</td>
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<tr>
<td>6</td>
<td>16200</td>
<td>30000</td>
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<td>8</td>
<td>13200</td>
<td>24000</td>
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<td>6600</td>
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<td>30</td>
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<td>4650</td>
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<td>32</td>
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<td>4200</td>
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<tr>
<td>36</td>
<td>1150</td>
<td>3400</td>
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<td>450</td>
<td>2200</td>
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<tr>
<td>51</td>
<td>250</td>
<td>1900</td>
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</tbody>
</table>

### Boom Ext. 15-Foot Boom Extension - Straight or Offset

<table>
<thead>
<tr>
<th>Boom Ext. Angle</th>
<th>0°</th>
<th>15°</th>
<th>30°</th>
<th>45°</th>
<th>60°</th>
<th>75°</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>3100</td>
<td>3450</td>
<td>3800</td>
<td>4650</td>
<td>6000</td>
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<td>4250</td>
<td>5200</td>
</tr>
<tr>
<td>30°</td>
<td>3000</td>
<td>3050</td>
<td>3200</td>
<td>3450</td>
<td>3600</td>
<td>3400</td>
</tr>
</tbody>
</table>

* Use 0° for straight boom extension.

- Boom extension loads must not exceed main boom capacity.
- Capacities below bold line are limited by tipping. Other capacities are limited by structural or hydraulic capability.
- Boom extension deducts: 400 pounds when stowed on base boom, 600 pounds in work position with load on the main boom.
### GENERAL:

**Weight:**
- IC-200-1C: 27,200 lbs.
- IC-200-2C: 27,640 lbs.

**Gradeability:** 75%

**Turning Radius:** 12' 8"

**Boom Movement:**
- **IC-200-1C**
  - Rotation: Continuous
  - Elevation: 0° to 73°
  - Extension: 15' 4"
- **IC-200-2C**
  - Rotation: Continuous
  - Elevation: 0° to 73°
  - Extension: 21' 0"

**Boom Speeds:**
- Rotation: 1.7 RPM
- Elevation: 21 sec.
- Extension: 26 sec.

### ENGINE:

<table>
<thead>
<tr>
<th>Make</th>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>GM L-6</td>
<td>Cummins</td>
</tr>
<tr>
<td>Type</td>
<td>Gasoline</td>
<td>Turbo-Diesel</td>
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<tr>
<td>No. Cyl.</td>
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<td>4</td>
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<tr>
<td>Displacement</td>
<td>262 CID</td>
<td>239 CID</td>
</tr>
<tr>
<td>HP @ Gov. Speed</td>
<td>110 H.P.</td>
<td>110 H.P.</td>
</tr>
</tbody>
</table>

**Fuel Tank Capacity:** 30 Gallons

### TRANSMISSION:

Powershift transmission with 4-speeds forward and 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. Equipped with torque converter and transmission oil cooler. Torque converter has stall ratio of 2.21.

**Gear Ratio:**
- First: 5.72:1
- Second: 3.23:1
- Third: 1.77:1
- Fourth: 1.00:1

### AXLES:

**Front Axle:**
Planetary drive/steer front axle with 15.75 to 1 ratio. Differential equipped with "limited slip" feature. Front axle mounted rigidly to frame.

**Gear** | **Travel Speed** | **Drawbar Pull** |
---------|-----------------|------------------|
First    | 3 MPH           | 20,400*          |
Second   | 6 MPH           | 11,430*          |
Third    | 11 MPH          | 5,140*           |
Fourth   | 19 MPH          | 3,350*           |

*Drawbar pull is calculated for GM & sl. engine

**Rear Axle:**

- **Standard (2-Wheel Drive):**
  - Steering axle with 1-1/2 degree oscillation in either direction.
- **Optional (4-Wheel Drive):**
  - Planetary drive/steer axle with 24.98 to 1 ratio. Differential is not "limited slip" in rear axle. 1-1/2 degree oscillation in either direction. Axle ratio compatible with 4-wheel drive transmission output for front axle match. Transmission equipped with electro-hydraulic control for shifting between 2-wheel drive and 4-wheel drive.

### STEERING:

Full hydraulic steering unit with two 3-inch 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 steering.

### BRAKES:

**Service:** Split-system, 4-wheel hydraulic-boosted multiple-plate wet disc brakes.

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

### TIRES:

38x65R22.5, Load Range J radial, high-traction on/off road tread.

### CHASSIS:

**CARGO DECK:**
78 square feet of deck area. 17,000 lbs. capacity on deck when load is centered over or between axles. Steps located on front corners.

**OUTRIGGERS:**
Four hydraulic outriggers of box beam construction with directly-connected holding valves. Independent controls for each outrigger. Outrigger pad dimension: 11' x 19'.

### ACCESSORY STORAGE BOX:
- Storage box is 14' deep x 10-1/2' long x 30-1/2' wide, located in front carry deck.

### ELECTRICAL:

12 Volt System

**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.

**Instrument Package:**
Fuel, ammeter, oil pressure, water temperature, transmission oil temperature gauges. All gauges are lighted. Hourmeter records hours only during actual engine operation. Also included are warning lights for low transmission pressure, turn signals, high beams, hazard lights, park brake and four-wheel drive.

**Back-Up Alarm:**
Provides pulsing sound when transmission is in reverse.

### HYDRAULIC SYSTEM:

Tandem pump, direct-driven by engine crankshaft, rated at 22 and 34 GPM at rated RPM. Hydraulic oil tank capacity of 34 gallons.

### BOOM ASSEMBLY:

Three-section boom assembly equipped with bearing pads, double acting hydraulic cylinders with directly-connected holding valves and boom angle indicator on each 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. at a line speed of 110 FPM. Includes downhaul weight, swivel hook and sheave block for 4-part line and 225 ft. of 1/2" hoist rope.

**Anti-Two-Block Device:**
Prevents damage to hoist rope and/or crane components from pulling load hook against top.
Listed below are brief descriptions of each option available for the IC-200-C Industrial Crane. Consult the IC-200-C Engineering Spec for additional information on each option.

**MODEL:**
- IC-200-1C Industrial Crane with 12' 8"-28' 0" Boom
- IC-200-2C Industrial Crane with 15' 2"-36' 2" Boom

**ENGINE OPTIONS:**
- LP Gas Fuel System
  Contains all necessary components for LP gas operations.
- Dual Fuel System
  Contains all necessary components to burn LP gas and gasoline.
- Diesel Engine
  Cummins Turbo-4BT3.9
- Spark Arrester Muffler
  Installed in addition to std. muffler
- Catalytic Converter
  Reduces engine emissions
- Engine Heater
  Engine coolant heater installed to circulate warm water through engine, plugs into 120 volt AC.
- Ether Injection System
  Ether starting aid controlled by switch in operator compartment and injects ether directly into intake manifold.
- Engine Shut Down Gauges
  shuts engine off when high water temperature or low engine oil pressure occurs.

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

**CHASSIS OPTIONS:**
- Auxiliary Winch
  Mounted behind front bumper, hydraulically driven with control in operator's console.
- Pintle Hook:
  - Pintle Hook, Rear
  - Pintle Hook, Front
- Headlight and Taillight Grilles
  Welded steel protective grilles for headlights and taillights.
- Rearview Mirrors
  One mounted on right-hand deck stake and 1 mounted on left-hand deck stake.
- Lifting Rings
  Lifting rings at each corner of carry deck so sling can be attached for lifting crane.

**OPERATOR COMPARTMENT OPTIONS:**
- Operator Guard
  Tubular steel weldment with heavy expanded steel mesh top section.
- Operator Guard Cover
  Clear vinyl cover over operator guard, for inclement weather operations.
- Operator Guard Door
  Hinged door covers operator compartment side opening.
- 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.
- Windscreed Washer
  Includes reservoir, pump and nozzle.
- Floor Mat
  Vinyl mat with foam backing.
- Operator Suspension Seat
  Provides 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 R 134 coolant.

**HYDRAULIC OPTIONS:**
- Boom Structural Protection System
  Important to understand fully the description of the Boom Structural Protection System described in the IC-200 Engineering Spec. This option is not intended to and will not replace an LMI.

**BOOM ATTACHMENTS:**
- Boom Extension, 15 Ft.
  Boom stowable.
- Boom Extension, 15 Ft., Offsettable (2C Only)
  Same as above except the boom extension is offsettable to 3 different positions: 0 degree (inline), 15 degree, and 30 degree offset.
- Sheave Block - Two-Part
- Searcher Hook:
  - Nose Mount
  - Link Under Boom
- Load Moment Indicator
  Warns operator of impending overload with audible and visual signals. Prevents overload by stopping boom functions that cause overloads. Readouts for load, boom angle, boom length and load radius.
- Load Indicator
  Includes 3 sheave load sensor on top of boom and readout box on top of instrument panel.

**ELECTRICAL OPTIONS:**
- Outtrigger Alarm System
  Two-tone alarm is activated when "outtrigger down" controls are operated.
- Strobe Lights
  Yellow strobe light mounted on each side of turret weight box.
- Amber Rotating Beacons
  Amber rotating beacon mounted on each side of turret weight box.
- Boom Work Lights
  One work light mounted to boom tip and one work light mounted to turret to light ground under boom tip.
- Boom Work Lights and Beacons
  Boom work lights and amber rotating beacons installed.
- Boom Work Lights and Strobos
  Boom work lights and strobe lights installed.

Should you, as an end user, require an option or special equipment on your IC-200-C that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.