IC-80-G

Four-Wheel Steering to access those hard to reach places

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 18,000 lbs.
- Pick and Carry Capacity ... up to 11,700 lbs.
- Height ... 7' 3"
- Width ... 6' 6"
- Boom Rotation ... 360 Degree, Continuous
- Sheave Height ... up to 46'
- Horizontal Reach ... up to 40'
- Tight Turning Radius
- 4-Wheel Steer ... Standard
- 4-Wheel Drive ... Optional
- Powershift Transmission ... Standard
- Fully Hydraulic Controls for Smooth Precise Operation
- Independent Outrigger Controls
- Dual Fuel Standard, Diesel Optional

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### Capacities Apply to Operation on Firm Level Surface

<table>
<thead>
<tr>
<th>Load Radius (Feet)</th>
<th>360° Rotation Over Front</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On Rubber</td>
</tr>
<tr>
<td>5</td>
<td>9600</td>
</tr>
<tr>
<td>6</td>
<td>7900</td>
</tr>
<tr>
<td>8</td>
<td>5750</td>
</tr>
<tr>
<td>10</td>
<td>4150</td>
</tr>
<tr>
<td>12</td>
<td>3100</td>
</tr>
<tr>
<td>14</td>
<td>2425</td>
</tr>
<tr>
<td>16</td>
<td>2000</td>
</tr>
<tr>
<td>18</td>
<td>1700</td>
</tr>
<tr>
<td>20</td>
<td>1450</td>
</tr>
<tr>
<td>22</td>
<td>1275</td>
</tr>
<tr>
<td>24</td>
<td>1075</td>
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<tr>
<td>26</td>
<td>925</td>
</tr>
<tr>
<td>28</td>
<td>775</td>
</tr>
<tr>
<td>30</td>
<td>675</td>
</tr>
</tbody>
</table>

### Main Boom

- **Capacity Limits:**
  - **Main Boom Angle:**
    - 0°: 2250
    - 15°: 2400
    - 30°: 2600
  - **Dimensions:**
    - 37° to 70°
    - 60° to 45°
    - 30° to 15°

### 10' Boom Extension

- **Capacity Limits:**
  - **Main Boom Angle:**
    - 0°: 2250
    - 15°: 2400
    - 30°: 2600
  - **Dimensions:**
    - 37° to 70°
    - 60° to 45°
    - 30° to 15°

### 10' Boom Extension - Straight or Offset

- **Main Boom Angle:**
  - 0°: 2250
  - 15°: 2400
  - 30°: 2600

---

**Note:**
- Use 0° for straight boom extension.
- Use 0°, 15° or 30° for offset boom extension.
- **Caution:** Boom extension loads must not exceed main boom capacity. Do not pick & carry with loads on boom extension.
- Capacities on outriggers are 75% of tipping loads. Capacities below bold line are limited by tipping. Other capacities are limited by structural or hydraulic capability.

---

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IC-80-2G

**CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE**

<table>
<thead>
<tr>
<th>LOAD FEET</th>
<th>360° ROTATION</th>
<th>OVER FRONT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ON RUBBER</td>
<td>ON OUTRIGGERS</td>
</tr>
<tr>
<td>5</td>
<td>9500</td>
<td>17000</td>
</tr>
<tr>
<td>6</td>
<td>7800</td>
<td>14500</td>
</tr>
<tr>
<td>8</td>
<td>5650</td>
<td>10250</td>
</tr>
<tr>
<td>10</td>
<td>4000</td>
<td>7700</td>
</tr>
<tr>
<td>12</td>
<td>3000</td>
<td>6550</td>
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<tr>
<td>14</td>
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<td>5550</td>
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<tr>
<td>16</td>
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<td>4550</td>
</tr>
<tr>
<td>18</td>
<td>1600</td>
<td>3950</td>
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<td>20</td>
<td>1350</td>
<td>3350</td>
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<tr>
<td>22</td>
<td>1150</td>
<td>2950</td>
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<tr>
<td>24</td>
<td>1000</td>
<td>2550</td>
</tr>
<tr>
<td>26</td>
<td>850</td>
<td>2450</td>
</tr>
<tr>
<td>28</td>
<td>725</td>
<td>2175</td>
</tr>
<tr>
<td>30</td>
<td>625</td>
<td>1900</td>
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<tr>
<td>32</td>
<td>525</td>
<td>1725</td>
</tr>
<tr>
<td>34</td>
<td>425</td>
<td>1500</td>
</tr>
</tbody>
</table>

**10-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET**

<table>
<thead>
<tr>
<th>MAIN BOOM ANGLE</th>
<th>0°</th>
<th>15°</th>
<th>30°</th>
</tr>
</thead>
<tbody>
<tr>
<td>10°</td>
<td>2250</td>
<td>2400</td>
<td>2700</td>
</tr>
<tr>
<td>15°</td>
<td>2600</td>
<td>2750</td>
<td>3000</td>
</tr>
<tr>
<td>30°</td>
<td>3200</td>
<td>3350</td>
<td>3600</td>
</tr>
</tbody>
</table>

*USE 0° FOR STRAIGHT BOOM EXTENSION.
*USE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.

**CAUTION**

- Boom extension loads must not exceed main boom capacity.
- Do not pick & carry with loads on boom extension.
- Capacities on outriggers are 85% of tipping loads. Capacities on rubber are 75% of tipping loads. Capacities below bold line are limited by tipping. Other capacities are limited by structural or hydraulic capability.

---

**RADIUS IN FEET FROM C ROTATION TO LOAD**

- 6 10°
- 8 15°
- 10 15°
- 12 22°
- 14 30°
- 16 45°
- 18 60°
- 20 70°

**CAPACITIES**

- On outriggers
- On rubber
- On main boom
- On extension

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GENERAL:

Weight:
- IC-80-1G: 16,060 lbs.
- IC-80-2G: 16,260 lbs.
- IC-80-3G: 16,660 lbs.

4-Wheel Steer: 16,060 lbs.
4-Wheel Drive: 16,260 lbs.

Boom Movement:
- Rotation: Continuous
- Elevation: 0° to 70°
- Extension: 12 ft.

Boom Speeds:
- Rotation: 2.0 RPM
- Elevation: 10.0 sec.
- Extension: 17.0 sec.

Turning Radius:
- (C/L of Outside Steering Wheel): 10 ft. 0 in.

Aisle Width for 90° Turn: 9 ft. 6 in.

ENGINE:

Make: GM
Model: 3.0 EFI* 4B4.5-C**
Type: Gas
No. Cyl.: 4
Displacement: 181 CID 275 CID

**Tier II CARB & US EPA Tier II Emissions Certified

HP @ Gov. Speed: 69 80

Fuel Tank Capacity: 20 Gallons

TRANSMISSION:

Powershift transmission with 4-speeds in 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. Multiple-disc clutch packs operated by solenoid valve provide forward, neutral, reverse and speed selection. Equipped with oil cooler and filter. Torque converter has stall ratio of 2.2/1.

Gradeability 63 percent.

AXLES:

Front:
Planetary drive/steer axle with 11.625/1 axle ratio. Differential is “No-Spin.” Axle mounted rigidly to frame.

Optional 4-Wheel Drive:
Planetary drive/steer axle with integral drop box input 11.625/1 axle ratio. Differential is “No-Spin.” Only available with mining and industrial tires.

Rear:

2-Wheel Drive:
Axle with 1-1/2 degree oscillation in either direction.

Optional 4-Wheel Drive:
Planetary drive/steer axle with 11.625/1 axle ratio. Differential is “Limited Slip.” Oscillation is 1-1/2 degree in either direction. Only available with mining and industrial tires.

STEERING:

Hydraulic steering unit with cylinders attached to each axle. Rear axle is the primary steer. An electric switch in the operator’s compartment is used to select rear-wheel steering, four-wheel round steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

BRAKES:

2-Wheel Drive:
- Front: Internal wet disc brakes
- Rear: Drum type
- Parking: Disc type

4-Wheel Drive:
- Front: Internal wet disc brakes
- Rear: Internal wet disc brakes
- Parking: Disc type
TIRES:
2-Wheel Drive 10.00 x 15, load range J radial, highway type tread.
4-Wheel Drive 10.00 X 15, mining & industrial, 16 ply rating.

CHASSIS:
Cargo Deck:
64 square feet of deck area.* 14,000 lbs. capacity on deck when load is centered over or between axles.** A storage box is located in front cargo deck. Steps located on front corners.
* 54 Square feet with Cummins engine.
**14,000 pounds allowed at creep speed of 2 MPH and 200 feet maximum in 30 minutes.

Outriggers:
Four hydraulic outriggers of box beam construction. Independent controls for each outrigger. Each cylinder equipped with direct-connected holding valves. Outrigger pad dimension 9”x12”.

Accessory Storage Box:
Storage box located in front cargo deck.

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

OPERATOR COMPARTMENT:
Operator’s control station provides one-position access to all operating functions. Includes adjustable operator’s seat, retracting seat belt, fire extinguisher and bubble level.

ELECTRICAL:
12 Volt System

Instrument Package:
Fuel, ammeter, oil pressure, water temperature, transmission oil temperature gauges & hourmeter. Also included are warning lights for low transmission pressure, turn signal, high beams, hazard lights, parking brake & 4-wheel drive.

Lighting Package:
One pair headlights with Hi and Low beams, back-up lights, integral tail, brake, front and rear turn signals and emergency flasher switch at operator’s station. 12V horn actuated by button on shifting control.

ELECTRICAL: (Cont’d)
Back-Up Alarm:
Provides pulsating sound from 97 dB alarm when transmission is in reverse. Conforms to SAE J994b.

Outrigger Alarm System
Two-tone alarm is activated when “outrigger down” controls are operated.

HYDRAULIC SYSTEM:
Tandem pump, direct-driven by engine crankshaft, rated at 17 & 32 GPM at rated RPM. Hydraulic oil tank capacity of 25 gallons.

BOOM ASSEMBLY:
Three-section boom assembly equipped with bearing pads, double-acting hydraulic cylinders with direct-connected holding valves & 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 & sheave block for 2-part line and 125 ft. of 9/16” hoist rope.

Anti-Two-Block Device:
Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

Sheave Block, Two-Part:
Single sheave block for 2-part line requirements.

Rated Capacity Limiter:
 Warns operator of impending overload with audible and visual signals. Prevents overload by stopping boom functions that cause overloads.

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Listed below are brief descriptions of each option available for the IC-80-G Industrial Cranes. Consult the IC-80-G Engineering Spec for additional information on each option.

MODELS:
IC-80-1G Industrial Crane with 8’2”-20’2” Boom Reach
IC-80-2G Industrial Crane with 9’6”-24’ Boom Reach
IC-80-3G Industrial Crane with 11’6”-30’ Boom Reach

ENGINE:
Diesel Engine
Cummins - B4.5-C
Spark Arrestor 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. (Diesel Only)

AXLE & STEERING OPTIONS:
4-Wheel Steer & 2-Wheel Drive
4-Wheel Steer & 4-Wheel Drive (Diesel Engine Only)

TIRE OPTIONS:
Mining & Industrial Tires
10.00 x 15 , 16-Ply Rating
10.00 x 15, Non Marking
Solid Rubber Tires, 8.25 x 15
Foam Filling of Tires
Spare Tire & Wheel
Highway Tread, 10.00 x 15
Mining & Industrial, 10.00 x 15
Mining & Industrial, Non Marking

CHASSIS OPTIONS:
Auxiliary Winch
Mounted behind front bumper, hydraulically driven with control in operator’s console.

CHASSIS OPTIONS: (Cont’d)
Pintle Hook:
Pintle Hook, Rear
Pintle Hook, Front
Headlight and Taillight Grilles
Welded steel protective grilles for headlights and taillights.
Rear Work Light Grilles
Protective grilles for worklights.
Rearview Mirrors
One mounted on right-hand deck stake & one mounted on left-hand deck stake.

OPERATOR COMPARTMENT OPTIONS:
Operator Guard
Tubular steel weldment with heavy expanded steel mesh top section.
Operator Guard Cover
Clear vinyl cover which goes over Operator Guard, for inclement weather operations.
Operator Guard Door
Hinged door covers operator compartment side opening.
All-Weather Cab
Rigid-mounted canopy section & 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
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
Provides additional operator comfort.
Noise Reduction Kit
Includes floor mat, control valve and side panels of foam backed vinyl for noise reduction.
Air Conditioning
Air Conditioner with R134 coolant.

ELECTRICAL OPTIONS:
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 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, 10 Foot
Boom stowable.
Boom Extension, 10 Foot, Offsettable
Same as above item, except the boom extension is offsettable to 3 different positions; 0 degrees (inline), 15 degrees and 30 degrees offset.
Searcher Hook:
Nose Mount

Should you, as an end user, require an option or special equipment on your IC-80-G that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.

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