**IC-35-C**

**Tech Spec**

**Now Standard Equipment:**
Rated Capacity Limiter
Warns operator of impending overload with audible and visual signals. (1/20/03)

- Capacity on outriggers...8,000 lbs.
- Pick and carry capacity...6,700 lbs.
- Boom rotation...continuous
- Height...6' 6"
- Width...5'
- Sheave height up to 33' 6"
- Horizontal reach up to...27' 2"
- Gas, dual fuel and diesel engine options
- Anti-Two Block standard
IC-35-C

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE

<table>
<thead>
<tr>
<th>RADIUS</th>
<th>MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS</th>
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<tbody>
<tr>
<td>FEET</td>
<td>360° Rotation</td>
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<td></td>
<td>ON RUBBER</td>
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<td>27</td>
<td>150</td>
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* USE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.
+ USE 0° FOR STRAIGHT BOOM EXTENSION.

BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.

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 CAPABILITIES.

CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. BOOM EXTENSION DEDUCT: 100 LBS. WHEN STOWED ON BASE BOOM, 300 LBS. IN WORK POSITION WITH LOAD ON MAIN BOOM.
General:
- Weight: 7,260 lbs.
- Travel Speed: 0 to 10 mph
- Drawbar Pull: 2,300 lbs.
- Gradeability: 31% (17 degrees)

Boom Movements:
- Rotation: Continuous Rotation
- Elevation: 0 to 70 degrees
- Extension: 7 ft. 2 in. to 19 ft. 2 in.

Boom Speeds:
- Rotation: 1.5 RPM
- Elevation: 19 seconds
- Extension: 36 seconds

Engine:
- Make: Ford
- Model: VSG413 104.19-IDI
- Type: Gas
- Cylinders: 4
- Displacement: 79 CID
- HP @ Governed speed: 42 HP
- Fuel Tank Capacity: 13.5 Gallons

Hydrostatic Pump:
- Piston type, direct driven from engine crankshaft. Maximum flow 36 GPM, maximum pressure 4,000 PSI.

Axles:
- Front Drive Axle:
  - Channel shaped structure houses torque hubs, brakes & hydraulic drive motors. Axle oscillates a total of 1-1/2”.
- Rear Steering Axle:
  - Fixed rigid to frame.

Steering:
- Full hydraulic unit controls 2-1/2” steering cylinder attached to rear axle.

Brakes:
- Primary braking from hydrostatic transmission. Foot-actuated disc brake attached into each torque hub for additional braking in some conditions. Parking brake switch, locks brakes to hold crane when not being driven.

Tires:
- Front: 7.5 x 10 pneumatic, 16-ply rating
- Rear: 7.5 x 10 pneumatic, 16-ply rating

Chassis:
- Cargo Deck:
  - 29 square feet deck area, 6,000 pounds capacity when centered over front axle or to the rear of front axle.

Chassis: (Cont’d)

Outriggers:
- Four hydraulic outriggers of box-beam construction. Independent controls for each. Hydraulic cylinders are equipped with direct-connected holding valves.

Lifting Rings:
- Consists of four rings, one at each corner of the load deck.

Pulling Eye:
- Mounted on front bumper.

Operator’s Compartment
- Provides one-position access to all chassis and crane functions. Includes adjustable operator’s seat, retracting seat belt, fire extinguisher and bubble level.

Electrical System:
- 12 Volt System
  - Lighting Group: One pair headlights and taillights.
  - Instrument Group:
    - Fuel, ammeter, oil pressure, water temperature, hydrostatic oil temperature gauges & hourmeter.
    - Gauges are lighted.
  - Back-Up Alarm:
    - Provides pulsating 97 decible sound when transmission is in reverse.

Hydraulic System:
- Tandem pump mounted to rear of hydrostatic piston pump. Delivers 6 GPM at 2,600 PSI for boom circuits & 18 GPM at 2,250 PSI for hoist circuit. System protected by relief valves. Hydraulic oil tank has 14 gallons capacity. Hydraulic oil cooler provided.

Boom:
- Boom Assembly:
  - Three-section boom assembly equipped with bearing pads, double-acting hydraulic cylinders equipped with direct-connected holding valve and boom angle indicators on each side of boom.
- Boom Rotation:
  - Heavy-duty ball bearing rotation gear with external teeth. Rotation is powered by hydraulic motor & worm gear drive.
- Boom Hoist:
  - Turret-mounted, planetary gear hoist, hydraulically powered with bare drum line pull of 4,600 lbs. and a line speed of 86 FPM. Hoist includes 85 ft. of 3/8 in. wire rope, downhaul weight, swivel hook and sheave block for 2-part line.
- Anti Two-Block Device:
  - Prevents damage to hoist rope and/or crane components. Dumps hydraulic flow for Hoist Raise, Telescope Extend and Boom Lower.
- Sheave Block:
  - Single sheave block for 2-part line requirements.
Listed below are brief descriptions of each option available for the IC-35-2C Industrial Crane. Consult the IC-35-2C Engineering Spec for additional information on each option.

### Engine Options:
- **LP Gas System**
  Contains all necessary components for LP Gas.
- **Dual Fuel System**
  Contains all necessary components to burn LPG or gasoline.
- **Perkins Diesel Engine**
  Perkins Model 104.19-IDI
- **Spark Arrester Muffler**
  Installed in addition to standard muffler.
- **Engine Shut Down Gauges**
  Shuts engine off when high water temperature or low engine oil pressure occurs.

### Tire Option:
- **Solid Rubber Tires**
  For applications where hazardous ground conditions exist.
- **Non-Marking Solid Rubber Tires**
- **Foam Filling of Tires**
- **Spare Tire & Wheel**
  7.50 x 10, 16-ply (front & rear wheels are different).

### Chassis Options:
- **Auxiliary Winch**
  Mounted behind front bumper, hydraulically driven with control in operator's console (3,000 lbs. @ 20 FPM).
- **Pintle Hook - Rear**
  Holland “T-60-A” pintle hook mounted on rear of frame. 5-ton capacity.
- **Lifting Sling**
  Sling to attach to Lifting Rings.
- **Headlight & Taillight Grilles**
  Welded steel protective grilles for headlights and taillights.

### Operator Compartment Options:
- **All Weather Cab**
  Rigid-mounted canopy section and removable hinged door. Cab door adds 4 inches to crane width. Includes heater, windshield wiper, defroster fan, dome light & sliding window in door. Cannot be used with Operator Guard.
- **Cab Heater**
  Heater with two-speed fan, for units without All Weather Cab.
- **Operator Guard**
  Tubular steel weldment with heavy expanded steel mesh top section.
- **Operator Guard Cover**
  Clear vinyl cover to go over Operator Guard, for inclement weather operations.
- **Floor Mat**
  Vinyl mat with foam backing.

### Electrical Options:
- **Outrigger Alarm System**
  Two-tone alarm is activated when “Outrigger Down” controls are operated.
- **Strobe Lights**
  Two yellow strobe lights mounted to turntable.
- **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.
- **Boom Work Lights & Strobes**
  Boom work lights and strobes installed.

### Wire Rope:
- 140 ft. of 3/8 in. dia. wire rope.

### Boom Attachment Options:
- **Boom Extension**
  8 foot, boom stowable.
- **Boom Extension, Offset**
  8 foot, boom stowable, the boom extension is offsettable to 3 different positions. 0 degree (inline), 15 degree and 30 degree offset.
- **Searcher Hook**
  2,000 pound capacity. Swivel hook with spring latch hangs from support structure projecting outward from boom tip.
- **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**
  Three sheave load sensor on top of boom & readout box on top of instrument panel.

Should you, as the end user, require an option or special equipment on your IC-35-2C that is not listed on our sales literature, please contact your dealer sales-person or the factory to receive a special quoted price.
Clearance Circle:
- Front Chassis Clearance: 11'-1" radius
- Corner Clearance: 5'-11" radius
- Turning Radius: 12'-2"
- Aisle Width: 8'-5"