

- Vertical Heach 28 0"
 Horizontal Reach 24' 0"
 Continuous Rotation
 10' 2" Turning Radius with Optional Four Wheel Steer
 Carry Deck
 Hydraulic Outriggers



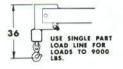
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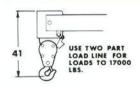
IC-80-1D

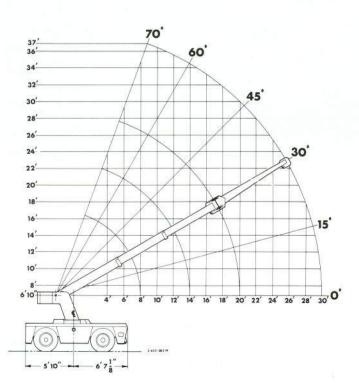
8'2"-20'2" Boom

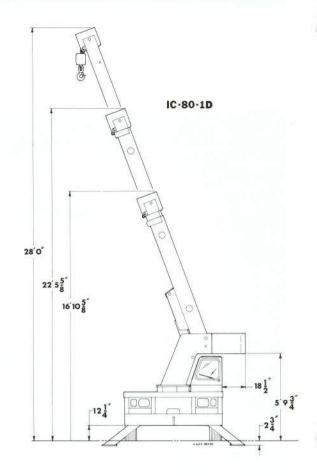
| LOAD | 3-SECTION BOOM | | 10' BOOM EXTENSION INSTALLED | |
|----------------|----------------|--------------|---------------------------------|--------------|
| RADIUS FEET | ON O/R* | ON RUBBER | ON O/R* | ON RUBBER |
| 5 | 17000 | 9500 | 7000 | 7000 |
| 6 | 14500 | 8500 | 6000 | 6000 |
| 8 | 10250 | 6000 | 5000 | 5000 |
| 10 | 7700 | 4150 | 4000 | 4000 |
| 12 | 6550 | 3100 | 3450 | 3275 |
| 14 | 5550 | 2425 | 3050 | 2650 |
| 16 | 4450 | 1975 | 2700 | 2175 |
| 18 | 3950 | 1625 | 2250 | 1850 |
| 20 | 3550 | 1400 | 2250 | 1550 |
| 22 | | | 2250 | 1325 |
| 24 | | | 2250 | 1200 |
| 26 | | | 2250 | 975 |
| 28 | | | 2150 | 825 |
| 30 | | | 1825 | 675 |

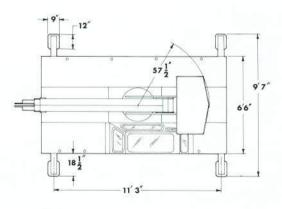
- 1. Capacities on outriggers are 85% of tipping loads. Capacities on rubber 75% of tipping loads.
- 2. Deduct 120 lbs. with Boom Extension in stowed position.

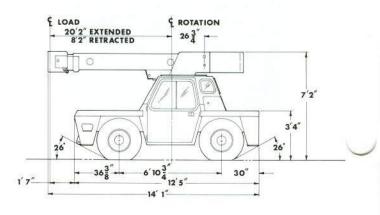










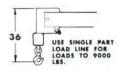


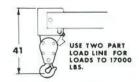
IC-80-2D

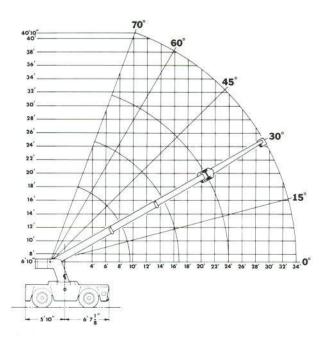
9'6"-24'0" Boom

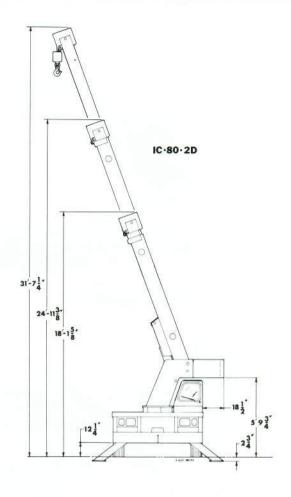
| LOAD | 3-SECTION BOOM | | 10' BOOM EXTENSION INSTALLED | |
|----------------|----------------|--------------|---------------------------------|--------------|
| RADIUS FEET | ON O.R* | ON RUBBER | ON OR* | ON RUBBER |
| 5 | 17000 | 9500 | 7000 | 7000 |
| 6 | 14500 | 8500 | 6000 | 6000 |
| 8 | 10250 | 6000 | 5000 | 5000 |
| 10 | 7700 | 4150 | 4000 | 4000 |
| 12 | 6550 | 3025 | 3450 | 3275 |
| 14 | 5550 | 2350 | 3050 | 2600 |
| 16 | 4450 | 1850 | 2700 | 2125 |
| 18 | 3950 | 1550 | 2250 | 1800 |
| 20 | 3250 | 1300 | 2250 | 1525 |
| 22 | 2875 | 1100 | 2250 | 1275 |
| 24 | 2475 | 925 | 2250 | 1050 |
| 26 | | | 2250 | 850 |
| 28 | | | 2000 | 700 |
| 30 | | | 1775 | 600 |
| 32 | | | 1625 | 525 |
| 34 | | 54 | 1400 | 450 |

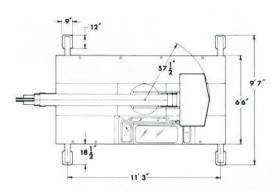
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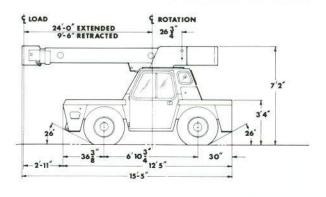














| General: | | Standard Drive Axle | Optional Drive Steer Axle |
|-----------|--------------------------|----------------------------|------------------------------|
| Weight: | IC-80-1D IC-80-2D | 14,230 lbs. 14,530 lbs. | 14,530 lbs. 14,830 lbs. |
| Travel S | peeds (Calculated): | | |
| Gear: Fi | rst | 5.4 | 3.0 |
| S | econd | 11.0 | 6.5 |
| T | hird | 20.0 | 12.0 |
| Fo | ourth | N/A | 20.0 |
| Gradeab | ility: | 43% | 71% |
| Drawbar | Pull: | | |
| G | ear | Pounds | Pounds |
| Fi | rst | 7,050* | 11,900* |
| S | econd | 3,450 | 5,820* |
| Th | nird | 1,880 | 3,170 |
| F | ourth | N/A | 1,880 |
| Turning I | Radius: | | |
| (C/L of (| Outside Steering Wheel): | 14'8" | 10'2" |
| Aisle Wi | dth for 90° Turn: | 11'9" | 9'9" |
| | | | |

Wheels will spin before these values are reached.

| = | ngine: | Standard | Optional | Optional | Optional |
|---|------------------------------|---------------------|---------------------|-------------------|------------------|
| | Make Model No. of Cyl. | Continental TM27 | John Deere 4.239 | Perkins D4.203 | Cummins 4B3.9 |
| | Displacement HP at | 165 C.I.D. | 239 C.I.D. | 203 C.I.D. | 239 C.I.D. |
| | Governed Speed | 64 | 80 | 63 | 76 |

Electrical:

12 Volt System

Lighting Package:

One Pair Headlights with Hi and Low Beams, Back-up Lights, Integral Tail, Brake and Turn Signals and Front turn Signals

Instrument Package:

Fuel, Ammeter, Oil Pressure, Water Temperature, Convertor Oil Temperature Gauges and Hourmeter

Back-Up Alarm

Provides pulsating sound when transmission is in reverse.

Transmission:

Make: Borg Warner Model: 72T/T18

Type: Reversing Gearbox and Manual Shift Three Speed Gearbox.*

Equipped with Torque Convertor and Transmission Oil Cooler.

| Forward | Reverse |
|---------|-------------------------------|
| 6.324:1 | 6.956:1 |
| 3.092:1 | 3.401:1 |
| 1.686:1 | 1.855:1 |
| 1:1 | 1:1 |
| | 6.324:1 3.092:1 1.686:1 |

Torque Convertor Has Stall Ratio of 2.15:1

4-speed gearbox only available with 4-wheel steer option.

| Axles: | Standard | Optional |
|-------------------------|----------|----------|
| Drive Axle: | | |
| Make | Rockwell | Hurth |
| Model | F-146 | 272A |
| Gear Ratio | 7.2:1 | 11.98:1 |
| Location | Front | Front |
| Steering Axle (Non-Driv | ving): | |
| Make | Rockwell | |
| Model | FF-931 | |
| Location | Rear | |

Brakes:

Service - 4-Wheel Drum Type Brakes

Parking - Band Type Mounted on Transmission

Tires:

Standard - 9:00x15, 12-Ply Rating, Highway Tread

Optional - 10:00x15, 12-Ply Rating, Highway Tread

Optional - 10:00x15, 14-Ply Rating, Mining & Industrial Tread

Optional - Grizzley Supersoft XS250x15 Solid Rubber

Optional - Foam Filling for the Above Pneumatic Tires

Fuel Tank:

20 Gallon Capacity

Outriggers:

Four Hydraulic Outriggers of Box Beam Construction with Direct-Connected Holding Valves. Independent Controls for Left and Right-Hand Outriggers. Outrigger Pad Dimension 9"x12".

Cargo Deck:

62 Square Feet

12,000 pounds Capacity

Steps Located on Front Corners

Hydraulic System:

Tandem Pump, Direct-Driven by Engine Crankshaft, Rated at 16 and 32.5 GPM at Rated RPM. Hydraulic Oil Tank Capacity of 16 Gallons.

Steering:

Standard:

Full Hydraulic Orbitrol Unit with Two Double-Acting Hydraulic Cylinders Attached to Rear Axle.

Optional:

Full Hydraulic Orbitrol Unit with Two Double-Acting Hydraulic Cylinders Attached to Both Front and Rear Axles.

Steering Modes Include: Rear Wheel Steer; Round Steer

Crane:

| IC-80-1D | IC-80-2D | |
|---------------------|-------------------------|--|
| Continuous | Continuous | |
| 0° to 70° | 0° to 70° | |
| 8'2" to 20'2" (12') | 9'6" to 24' | |
| | Continuous 0° to 70° | |

Boom Speeds:

| Rotation | 1.7 RPM | 1.7 RPM |
|-----------|--------------|--------------|
| Elevation | 10.0 Seconds | 10.0 Seconds |
| Extension | 28.0 Seconds | 34.0 Seconds |
| | | |

Boom Assembly:

Three-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.

Boom Rotation:

Heavy-Duty Ball Bearing Rotation Gear with External Teeth. Rotation is Powered by Hydraulic Motor and Worm Gear Drive.

Boom Winch:

Turret-Mounted

Hydraulic Powered

Bare Drum Line Pull of 10,000 Pounds

Winch Line Speed of 110 FPM

IC-80-1D-90 feet of 9/16" Wire Rope

IC-80-2D—105 feet of 9/16" Wire Rope

Downhaul Weight and Swivel Hook

Anti-Two Block Device:

Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

2-Part-Line Sheave Block:

Single sheave block for two-part-line requirements.

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

- 1. IC-80-1D Industrial Crane with 8'2"-20'2" Boom
- IC-80-2D Industrial Crane with 9'6"-24'Boom

ENGINE OPTIONS:

3. LP Gas Fuel System Contains all necessary components for

LP gas operations

4. Dual Fuel System Contains all necessary components to burn LP gas and gasoline.

Diesel Engines:

John Deere

4-cylinder, Model 4239D Perkins

4-cylinder, Model D4.203 Cummins

4-cylinder, Model 4B3.9 Spark Arrester Muffler

Installed in addition to standard muffler.

Catalytic Convertor Reduces engine emissions, Cummins Diesel only.

Engine Heater Engine coolant heater installed to circulate warm water through engine, plugs into 120 volt AC.

11. Ether Injection System Ether starting aid controlled by switch in operator compartment and injects ether directly into intake manifold, Cummins Diesel only.

Engine Shut Down Gauges Shuts engine off when high water temperature or low engine oil pressure occurs.

FRONT AXLE OPTIONS:

13. No-Spin Differential The differential equipped with "No-Spin" feature.

Four-Wheel Steering Hurth drive/steer axle for four-wheel steering, differential equipped with "No-Spin feature.

TIRE OPTIONS:

15. 10.00 x 15, 12-Ply Rating

16. Solid Rubber Tires

10.00 x 15, 14-Ply Rating, Mining & 17. Industrial Tires

FOAM FILLING OF TIRES:

18. 9.00 x 15 Tires

19. 10.00 x 15 Tires

SPARE TIRE AND WHEELS:

20. 9.00 x 15

21. 10.00 x 15

22. 10.00 x 15 Mining & Industrial

CHASSIS OPTIONS:

23. Accessory Storage Box Storage box is 14" deep x 10-1/2" long and 27" wide, located in front carry

24. Auxiliary Winch

Mounted behind front bumper. hydraulically driven with control in operator's console.

Pintle Hook Pintle hook mounted on rear frame, 5-ton

capacity. Headlight and Taillight Grilles Welded steel protective grilles for headlight and taillights.

27. Rearview Mirrors One mounted on right-hand deck stake and one mounted on left-hand deck stake

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

OPERATOR COMPARTMENT OPTIONS:

29. Operator Guard Tubular steel weldment with heavy expanded steel mesh top section.

30. All-Weather Cab Rigid-mounted canopy section and removable hinged door. Includes heater, electric windshield wiper, one sliding glass window in the door and one fold-out window in rear to provide flow-through ventilation. Defroster fan included.

31. Sliding Right-Hand Window Window on right-hand side of cab slides open for additional ventilation.

Windshield Washer Includes reservoir pump and nozzle.

33. 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.

ELECTRICAL OPTIONS:

Outrigger Warning System Two-tone alarm is activated when "outrigger down" controls are operated.

37. Strobe Lights Yellow strobe light mounted on each side of turret weight box.

Lighted Instrument Ğauges Instrument gauges equipped with lights

for night operations.

39. Amber Rotating Beacons Amber rotating beacon mounted on each side of turret weight box.

40. 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.

41. Boom Work Lights and Beacons Boom work lights and amber rotating beacons installed.

42. Boom Work Lights and Strobe Boom work lights and strobe lights installed.

43. Dome Light

Interior light installed for units equipped with an all weather cab.

HYDRAULIC OPTIONS:

44. Boom Structural Protection System Important to understand fully the description of the Boom Structural Protection System described in the IC-80 Engineering Spec. This option is not intended to and will not replace an LMI.

45. Outrigger Control - Individual Electric switch used in conjuction with existing two outrigger valve section to select for individual operation of each outrigger.

BOOM ATTACHMENTS:

46. Anti-Two Block - Chain & Weight Prevents damage to hoist rope and/or crane components from pulling load hook against boom tip. This system uses a suspended weight on the boom tip instead of a trip arm.

47. Boom Extension, 10 Foot Boom Stowable, Fiberglass bucket(s) or work platform can be attached to the boom extension tip.

48. Boom Extension, 10 Foot, Offsettable Same as item 47, except the boom extension is offsettable to 3 different positions; 0 degree (inline), 15 degree and 30 degree offset...

49. Searcher Hook - "H" Shape Swivel hook with spring latch hangs from link under boom tip, 5,000 pound capacity.

50. Searcher Hook - Large Swivel hook with spring latch hangs from support structure projecting outward from boom tip, 5,000 pound capacity.

51. Load Moment Indicator - Krueger 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 - Krueger Includes 3-sheave load sensor on top of boom and readout box on top of instrument panel.

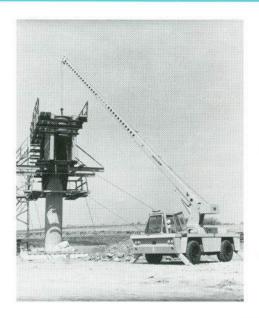
53. Load Moment Indicator - PAT Same as item 51, except manufactured by PAT.

54. Load Indicator - PAT Same as item 52, except manufactured by PAT.















DTTC BRODERSON Manufacturing Corp.

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