

TECH SPEC

IC-200-C





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IC-200-1C

	1040			PPLY TO OPE					HUL	
	RADIUS	MAIN BOOM OR EXTENSIO 360 DEGREE ROTATION				OVER FRONT				
	FEET	ON RUBE		ON OUTRIGO	ER	ON R	UBBER	ON OU	TRIGGER	
8 0 0 M	6	16500		30000		16	500	30000		
	8	13500		24000		13	500	24000		
	10	11000		20000		11	300	20000		
	12	8200		16400	870		700	16400		
	14	6400		12700		7500		12700		
111	16	5200		11200		60	300	1	1200	
_	18	4300		9900		5200		9900		
Z	20	3600		8900		4400		8900		
A .	- 22	3100		7950	950 3		800	8	8100	
M	24	2750		6950		3	300	7	400	
_	26	2400		6150		3	3000 67		700	
	28	2150		5500		2600		6	6200	
	30	2000		4300		2500		4300		
	32	1800		3950		2250		3950		
	36	1400		3450		1800		3	3450	
×	40	1000	()	3100		1400		3200		
ш	43	700		2900		1200		3100		
M 00	BOOM	15- FOOT BOOM EXTENSION - STRAIGHT OR OFFSET								
	EXT.			MAIN	BOOM	OM ANGLE				
m	ANGLE	0°	15°	30°	40°		50°	60°	70°	
15	*0°	\$40	3100	3450	3900	_	4650	6000	7500	
	15°		3000	3100	3300		3650	4250	5200	
	30°		***	3000	3050)	3200	3450	3900	

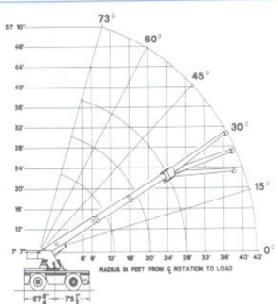
^{*} Use 0* for straight boom extension.

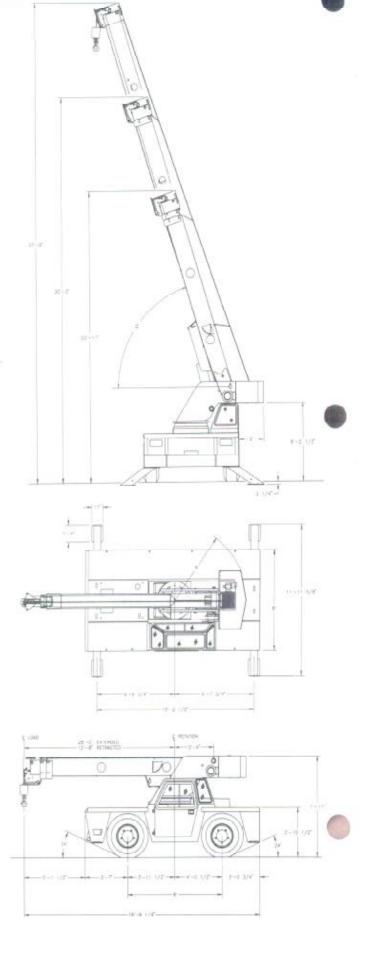
Boom extension loads must not exceed main boom capacity.

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

Boom extension deduct, 400 pounds when stowed on base boom; 800 pounds in work position with load on the main boom.









IC-200-2C

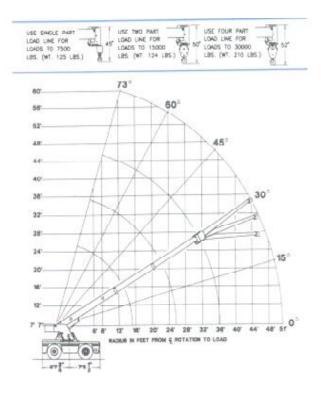
	LOAD	CAPACITIES APPLY TO OPERATIONS ON FIRM LEVEL SURFACE MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS									
	RADIUS	360 DEGREE ROTATION				OVER FRONT					
	FEET	ON RUBBER		ON OUTRIGGER		ON RUBBER		ON OUTRIGGER			
	6	16200		30000		163	200	30	0000		
	8	13200		24000	000		13200		24000		
	10	11000		19800		11000		19800			
=	12	8100		16100		8250		16100			
0	14	6250		13500		7100		13500			
B 0 0	16	5000		11200		6000		11200			
	18	4100		10000		4950		10000			
-	20	3400		8800		4100		8800			
z	22	2850		7700		3450		7800			
	24	2400		6600		2900		6900			
A	26	2100		5750		2500		6200			
5	28	1850		5150		2200		5	5700		
_	30	1650		4650		1950		5300			
	32	1450		4200		1700		4900			
	36	1150		3400		34	100	4	200		
	40	900		3050		1200		3600			
	44	650		2600		950		3100			
-	48	450		2200		750		2700			
×	51	250	250 1900			600		2400			
×	BOOM	15- FOOT BOOM EXTENSION - STRAIGHT OR OFFSET									
0	EXT.		MAIR		OM ANGLE						
80	ANGLE	0°	15°	30°	40°		50°	60°	70"		
1.00	*0"		3100	3450	3900		4650	6000	7500		
	15°		3000	3100	330	-	3650	4250	5200		
	30°			3000	305	0	3200	3450	3900		

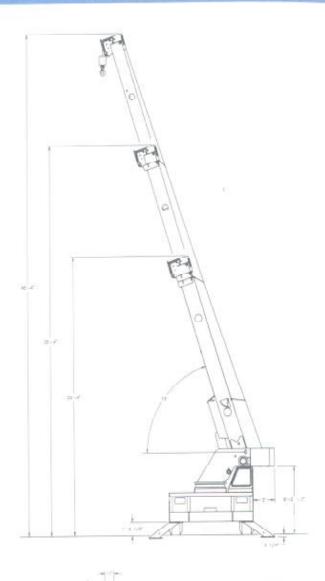
^{*} Use 0" for straight boom extension.

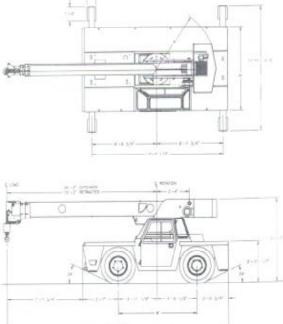
Boom extension loads must not exceed main boom capacity.

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

Boom extension deduct: 400 pounds when stowed on base boom; 800 pounds in work position with load on the main boom.











GENERAL:

Weight:

IC-200-1C

27,200 lbs. 27,640 lbs.

Gradeability:

75%

Turning Radius:

12' 8"

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

Boom Speeds: Rotation Elevation

Extension

1.7 RPM 21 sec. 26 sec. 1.7 RPM 21 sec. 35 sec.

ENGINE:

Model

Type

No. Cyl.

Standard GM 4.3L V-6 Gasoline 6

262 CID

110 H.P.

Cummins 4BT3.9 Turbo-Diesei 4

239 CID

110 H.P.

Optional

Displacement HP @ Gov. Speed

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 convertor and transmission oil cooler. Torque convertor has stall ratio of 2.2:1.

Gear Ratio:

First	5.72:1
Second	3.23:1
Third	1.77:1
Fourth	1.000:1

AXLES:

Front Axle:

Planetary drive/steer front axle with 15.78 to 1.0 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	6,140*
Fourth	19 MPH	3,350*
*Drawbar	pull is calculated for GN	4.3L engine

Rear Axle:

Standard (2-Wheel Drive):

Steering axle with 1-1/2 degree oscillation in either direction.

Optional (4-Wheel Drive):

Ptanetary drive/steer axle with 24.98 to 1.0 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:

385/65R22.5, 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 directconnected holding valves. Independent controls for each outrigger. Outrigger pad dimension 11" x 16".

ACCESSORY STORAGE BOX:

Storage box is 14" deep x 10-1/2" long x 36-1/2" 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 pulsating 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 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 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 tip.





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 Convertor
 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.

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 cover and side panels of foam backed vinyl for noise reduction.

Air Conditioning

Air Conditioner with R 134 coolant.

ELECTRICAL OPTIONS:

Outrigger Alarm System

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

Strobe Lights

Yellow strobe light mounted on each side of turnet 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 turnet to light ground under boom tip.

Boom Work Lights and Beacons

Boom work lights and amber rotating beacons installed.

Boom Work Lights and Strobes

Boom work lights and strobe lights installed.

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.

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.





IC-200-C





IC-80

IC-20



IC-35



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