

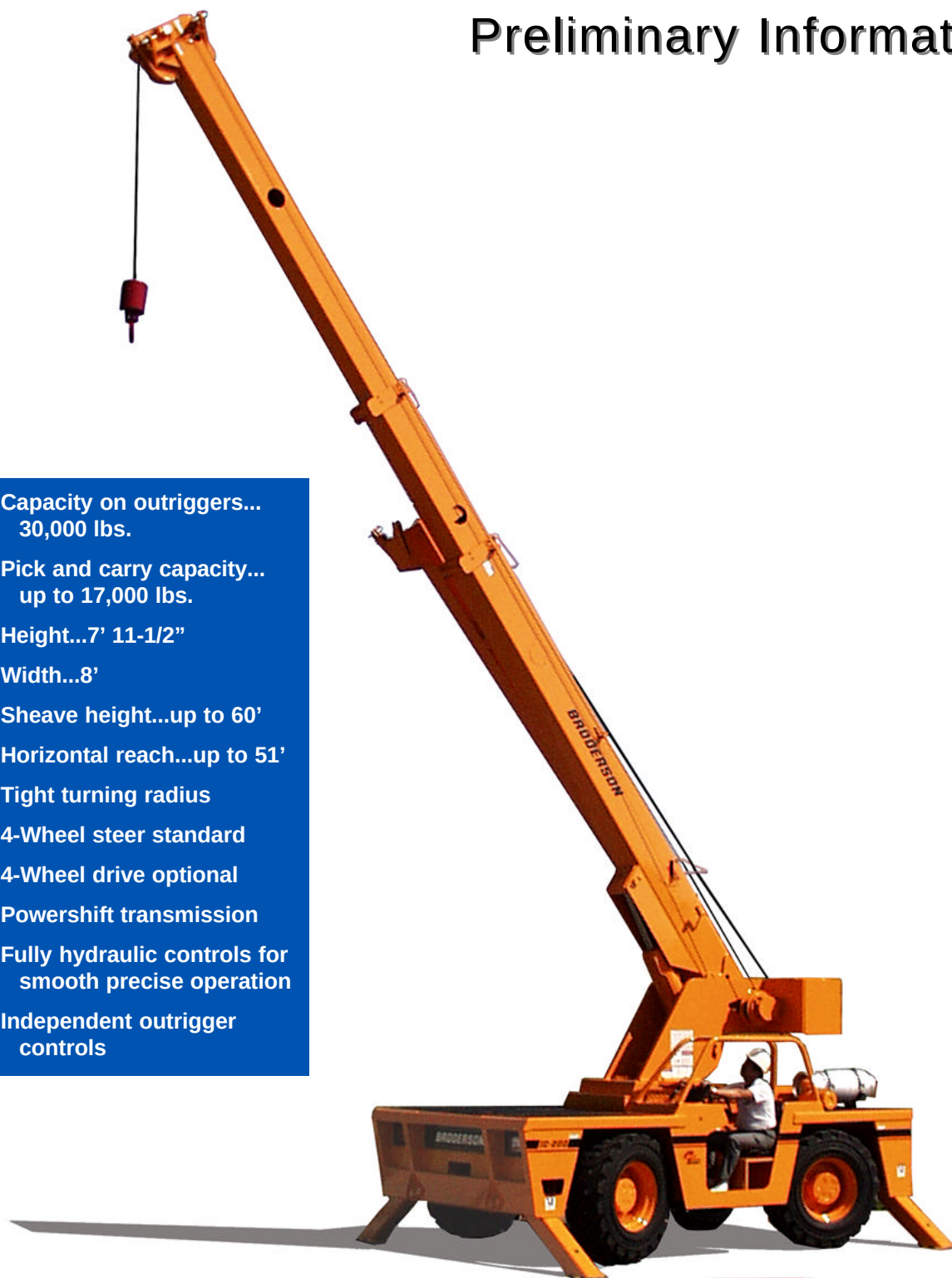


Tech Spec

IC-200-E

Preliminary Information

- * Capacity on outriggers... 30,000 lbs.
- * Pick and carry capacity... up to 17,000 lbs.
- * Height...7' 11-1/2"
- * Width...8'
- * Sheave height...up to 60'
- * Horizontal reach...up to 51'
- * Tight turning radius
- * 4-Wheel steer standard
- * 4-Wheel drive optional
- * Powershift transmission
- * Fully hydraulic controls for smooth precise operation
- * Independent outrigger controls



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IC-200-1E Preliminary Information

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE								
LOAD RADIUS FEET	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS							
	360° ROTATION			OVER FRONT				
	ON RUBBER	ON OUTRIGGERS		ON RUBBER	ON OUTRIGGERS			
MAIN BOOM	6	16500	30000		16500	30000		
	8	13500	24000		13500	24000		
	10	11000	20000		11300	20000		
	12	8200	16400		8700	16400		
	14	6400	12700		7500	12700		
	16	5200	11200		6300	11200		
	18	4300	9900		5200	9900		
	20	3600	8900		4400	8900		
	22	3100	7950		3800	8100		
	24	2750	6950		3300	7400		
	26	2400	6150		3000	6700		
	28	2150	5500		2600	6200		
	30	2000	4300		2500	4300		
	32	1800	3950		2250	3950		
15' BOOM EXT.	36	1400	3450		1800	3450		
	40	1000	3100		1400	3200		
	43	700	2900		1200	3100		
	BOOM	15-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET						
	EXTENSION	MAIN BOOM ANGLE						
	ANGLE	0°	15°	30°	40°	50°	60°	70°
	0°	---	3100	3450	3900	4650	6000	7500
	15°	---	3000	3100	3300	3650	4250	5200
	30°	---	---	3000	3050	3200	3450	3900

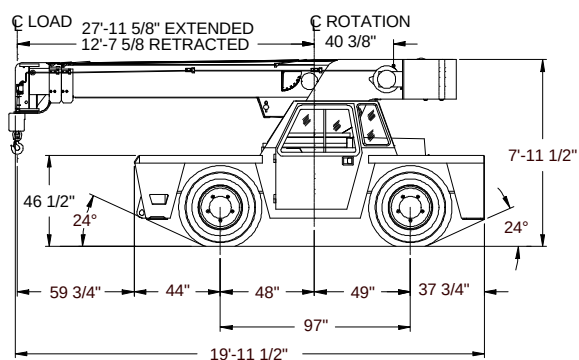
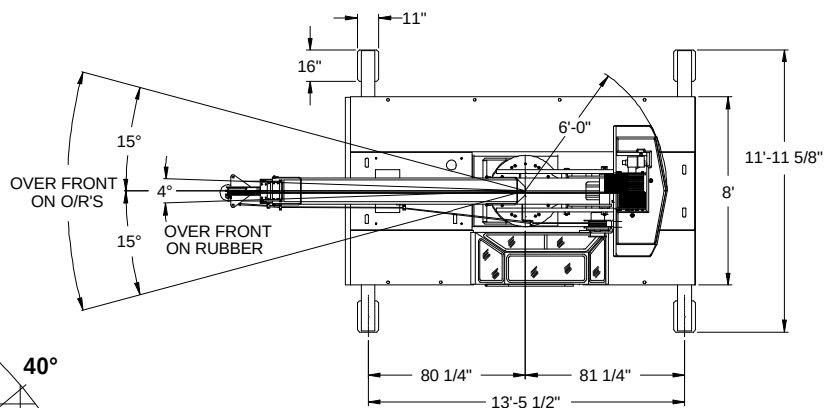
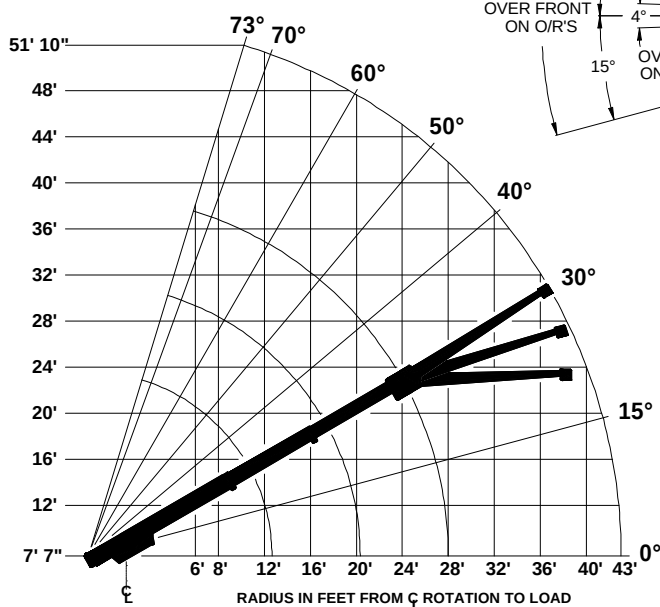
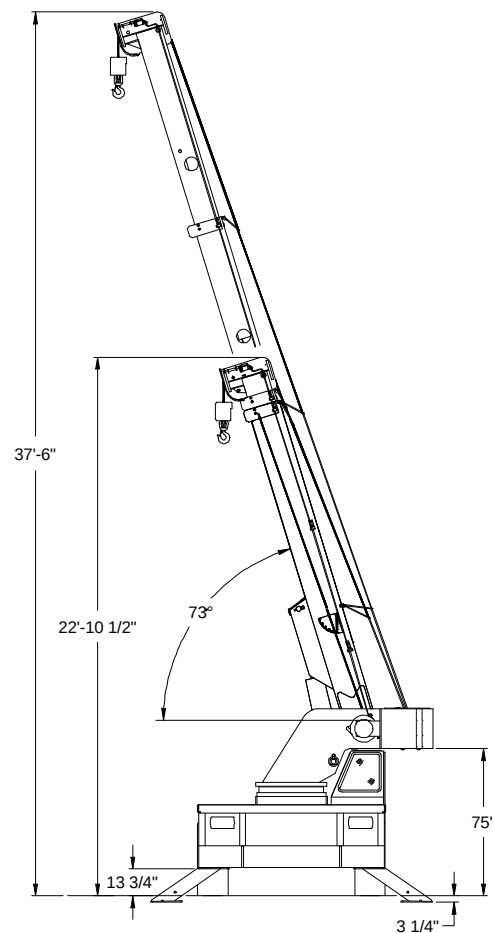
CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.
BOOM EXTENSION MAY ONLY CARRY LOADS WITH OUTRIGGERS DOWN.

BOOM EXTENSION DEDUCT: 400 POUNDS WHEN STOWED ON BASE BOOM.
800 POUNDS IN WORK POSITION WITH LOAD ON MAIN BOOM.

USE SINGLE PART
LOAD LINE FOR
LOADS TO 7500
LBS. (WT. 125 LBS.)

USE TWO PART
LOAD LINE FOR
LOADS TO 15000
LBS. (WT. 124 LBS.)

USE FOUR PART
LOAD LINE FOR
LOADS TO 30000
LBS. (WT. 210 LBS.)





IC-200-2E Preliminary Information

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE								
LOAD RADIUS FEET	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS							
	360° ROTATION			OVER FRONT				
	ON RUBBER	ON OUTRIGGERS		ON RUBBER	ON OUTRIGGERS			
MAIN BOOM	6	16200	30000		17000	30000		
	8	13200	24000		13800	24000		
	10	11000	19800		11500	19800		
	12	8100	16100		9600	16100		
	14	6250	13500		7900	13500		
	16	5000	11200		6300	11200		
	18	4100	10000		5100	10000		
	20	3400	8800		4300	8800		
	22	2850	7700		3600	7800		
	24	2400	6600		3000	6900		
	26	2100	5750		2600	6200		
	28	1850	5150		2300	5700		
	30	1650	4650		2100	5300		
	32	1450	4200		1850	4900		
	36	1150	3400		1500	4200		
15' BOOM EXT.	40	900	3050		1200	3600		
	44	650	2600		950	3100		
	48	450	2200		750	2700		
	51	250	1900		600	2400		
	BOOM EXTENSION	15-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET						
	ANGLE	MAIN BOOM ANGLE						
		0°	15°	30°	40°	50°	60°	70°
	0°	---	3100	3450	3900	4650	6000	7500
	15°	---	3000	3100	3300	3650	4250	5200
	30°	---	---	3000	3050	3200	3450	3900

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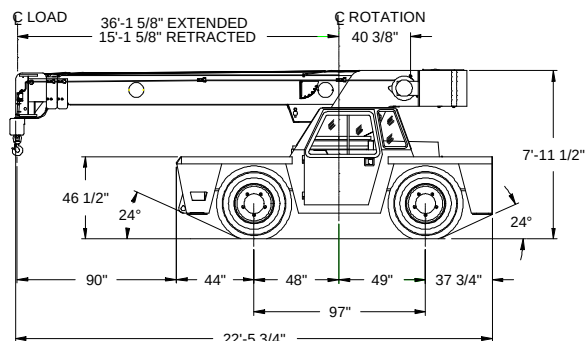
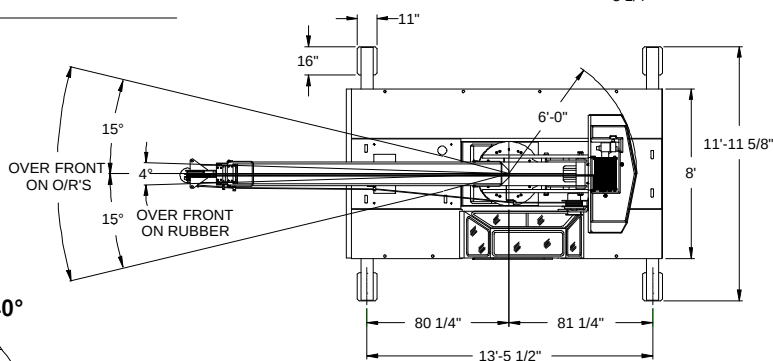
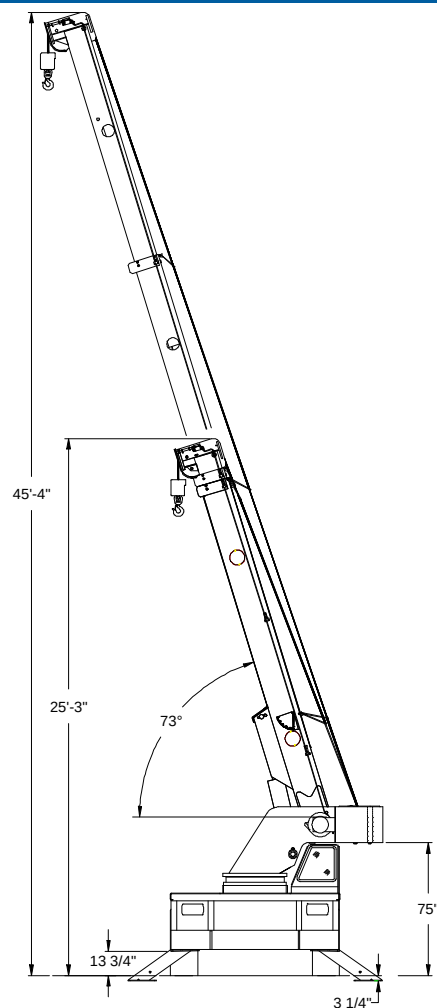
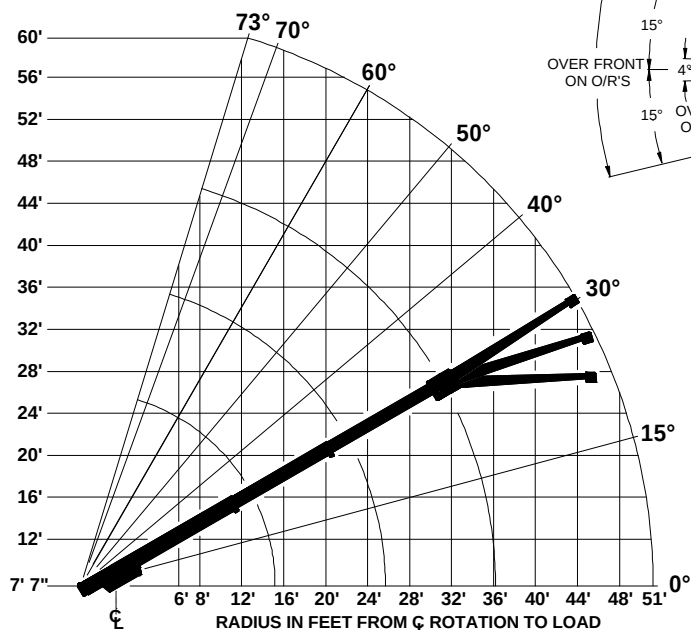
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USE FOUR PART
LOAD LINE FOR
LOADS TO 30000
LBS. (WT. 210 LBS.)





Preliminary Information

GENERAL:

Weight:

IC-200-1E 27,200 lbs.

IC-200-2E 27,650 lbs.

Gradeability: 75%

Turning Radius: 13' 9"

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

Boom Speeds:

Rotation	1.8 RPM	1.8 RPM
Elevation	21 sec.	21 sec.
Extension	26 sec.	35 sec.

ENGINE:

	<u>Standard</u>	<u>Optional</u>
Make	GM	Cummins
Model	4.3L V-6	4BT3.9
Type	Gasoline	Turbo-Diesel
No. Cyl.	6	4
Displacement	262 CID	239 CID
HP @ Gov. Speed	110 H.P.	110 H.P.
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.

<u>Gear</u>	<u>Travel Speed</u>	<u>Drawbar Pull*</u>
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 GM 4.3L 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 1.0 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:

385/65D22.5, 16-ply rating, 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 direct-connected 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 29 and 34 GPM at rated RPM. Hydraulic oil tank capacity of 54 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 100 FPM. Includes downhaul weight, swivel hook and sheave block for 4-part line and 240 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.

Sheave Block, Four Part

Double sheave block for 4-part line requirements.



Preliminary Information

Listed below are brief descriptions of each option available for the IC-200-E Industrial Crane. Consult the IC-200-E Engineering Spec for additional information on each option.

MODEL:

IC-200-1E Industrial Crane with
12' 8"-28' 0" Boom

IC-200-2E Industrial Crane with
15' 2"-36' 2" Boom

ENGINE OPTIONS:

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. (Diesel Only)

Axle & Steering Options:

4-Wheel Steer & 2-Wheel Drive

4-Wheel Steer & 4-Wheel Drive

TIRE OPTIONS:

Foam Filling of Tires

Non-Marking 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 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.

ELECTRICAL OPTIONS: (Cont'd)

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.

BOOM ATTACHMENTS:

Boom Extension, 15 Ft.

Boom stowable.

Boom Extension, 15 Ft., Offsettable (2E 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 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

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-E that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.



IC-200-E

Preliminary Information



IC-20



IC-35



IC-80



IC-200-3D

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