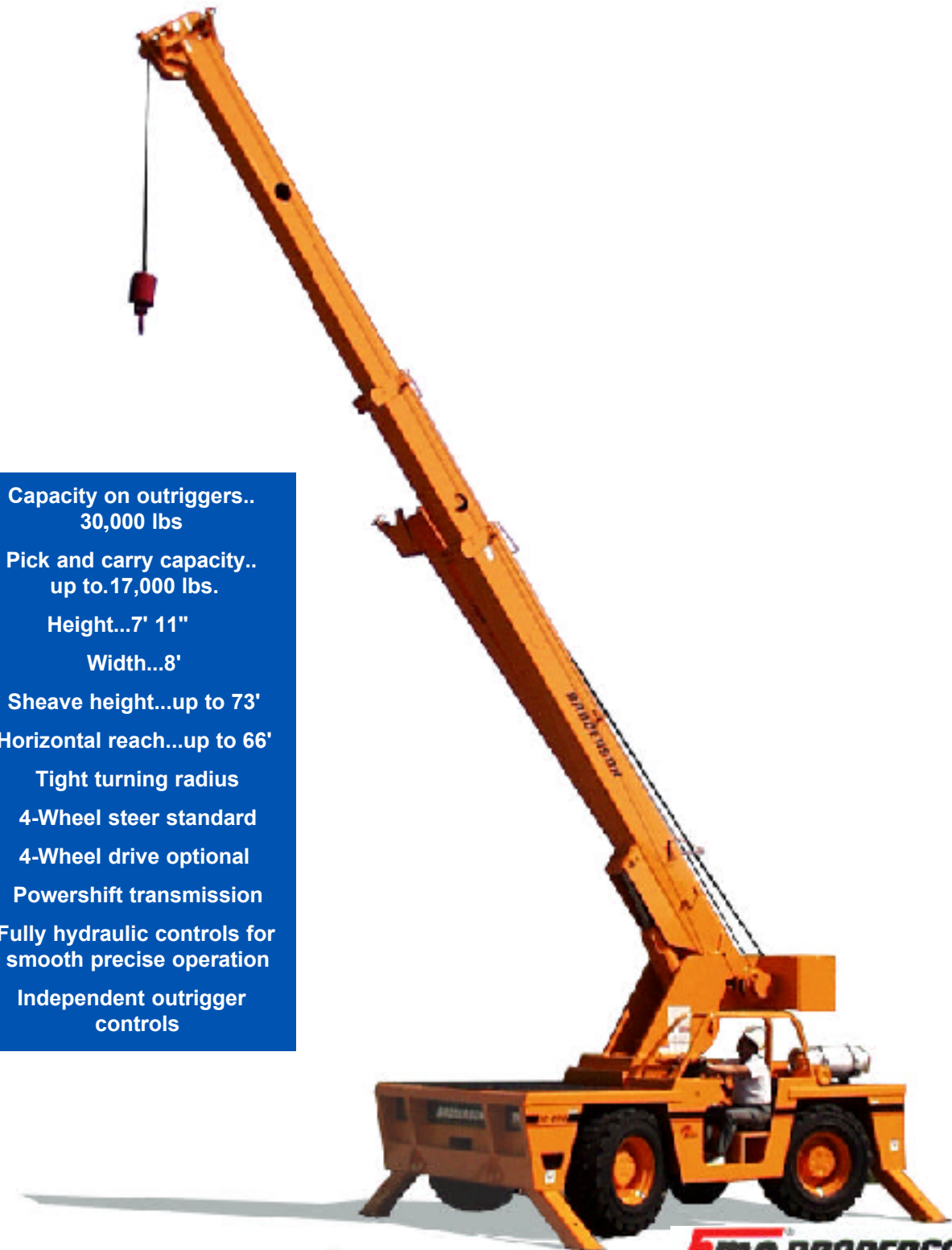


Tech
Spec

IC-200-E



Capacity on outriggers..
30,000 lbs

Pick and carry capacity..
up to 17,000 lbs.

Height...7' 11"

Width...8'

Sheave height...up to 73'

Horizontal reach...up to 66'

Tight turning radius

4-Wheel steer standard

4-Wheel drive optional

Powershift transmission

Fully hydraulic controls for
smooth precise operation

Independent outrigger
controls

★ HIGH REACH INC. ★

45 Shepherd Road, Oakville, Ontario, Canada L6K 2G6
Telephone: (905) 844-4164 Facsimile: (905) 844-2135
Website: www.highreachinc.com

DMC BRODERSON
Manufacturing Corp.

710, Box 14070, Lincoln, NE 68505-4170
14741 Wood 10th St. • Lincoln, NE 68504-2015
(413) 444-7525 • FAX (413) 444-5633
WWW: www.dmc.com

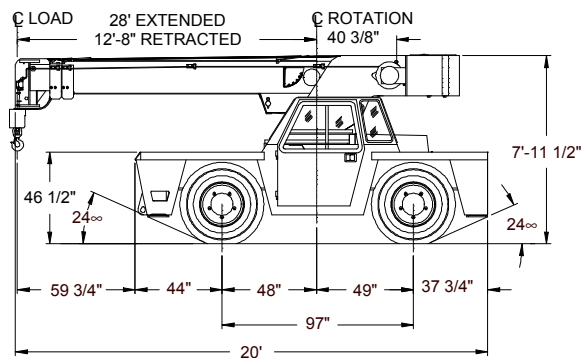
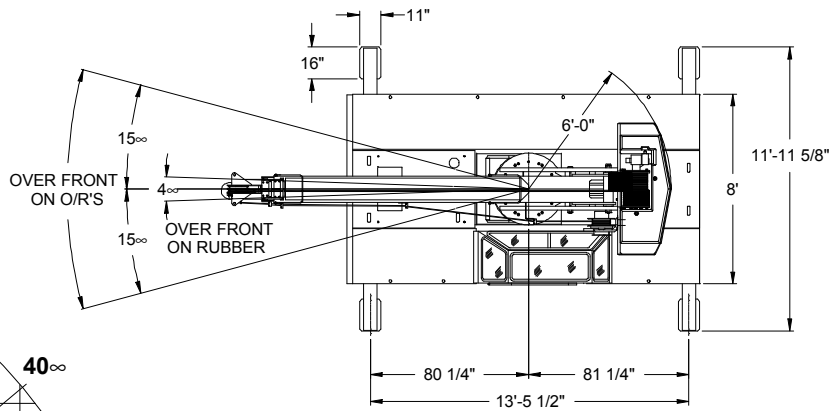
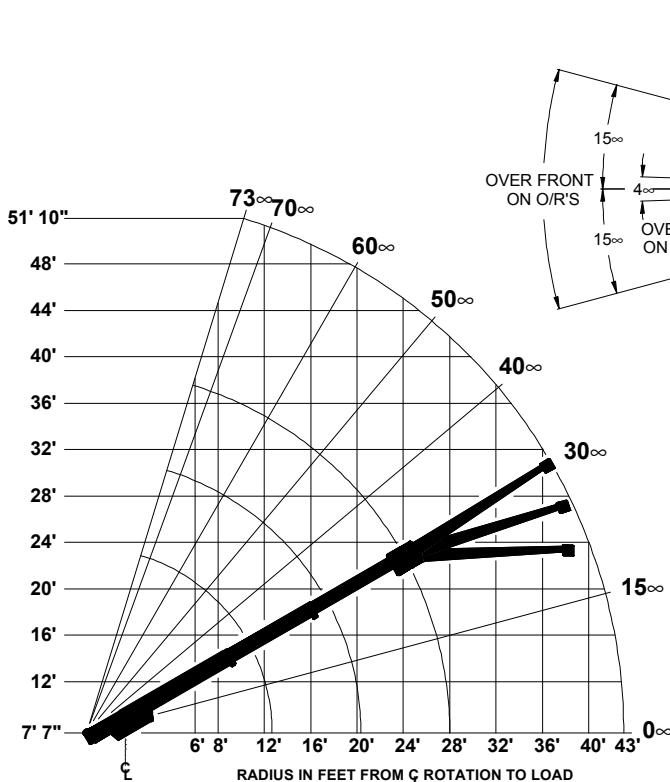
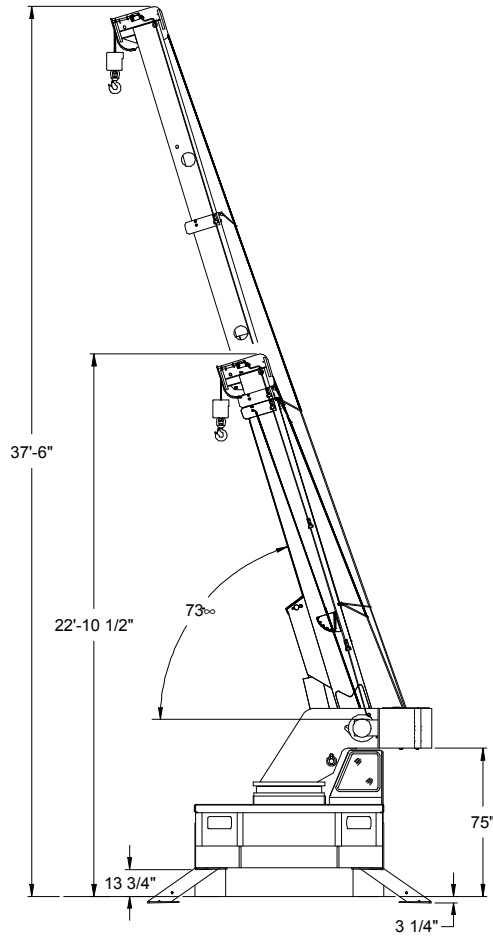
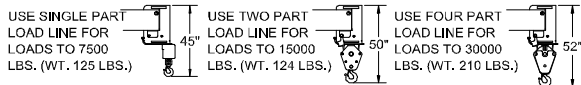
IC-200-1E

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				
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				
36	1400	3450	1800	3450				
40	1000	3100	1400	3200				
43	700	2900	1200	3100				
15' BOOM EXT. ANGLE	15-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET							
	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	

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.

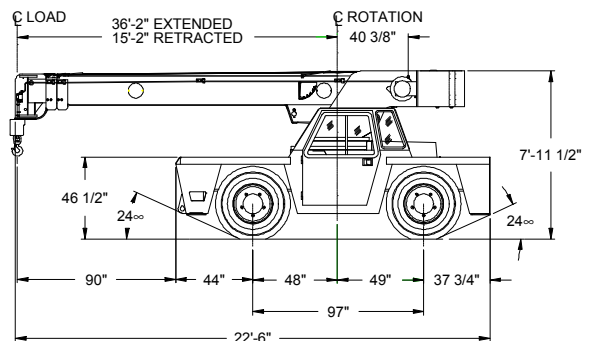
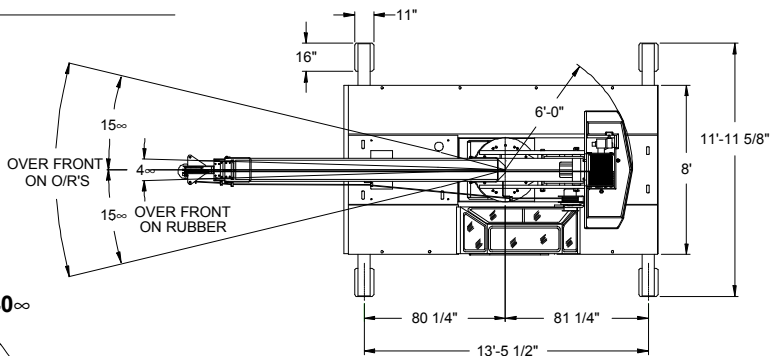
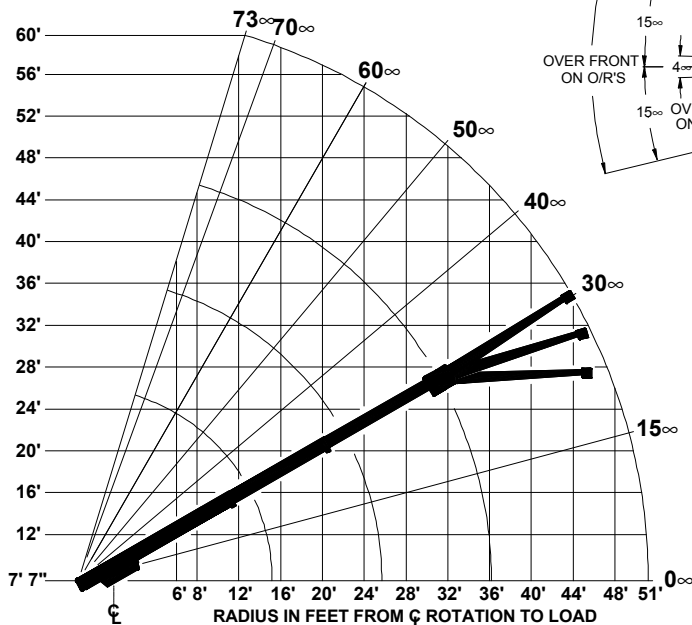
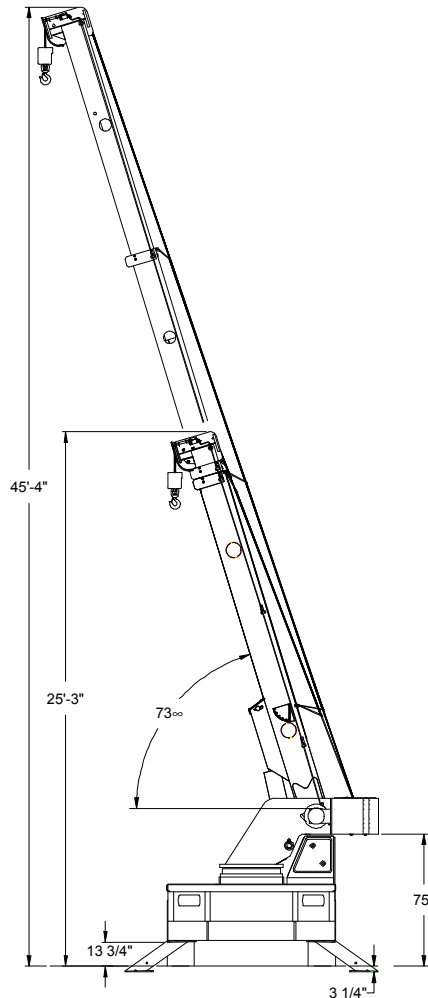
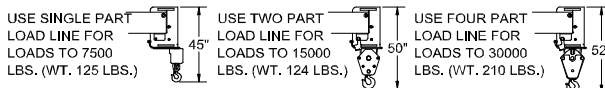


IC-200-2E

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				
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				
40	900	3050	1200	3600				
44	650	2600	950	3100				
48	450	2200	750	2700				
51	250	1900	600	2400				
15' BOOM EXT.	15-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET							
	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.



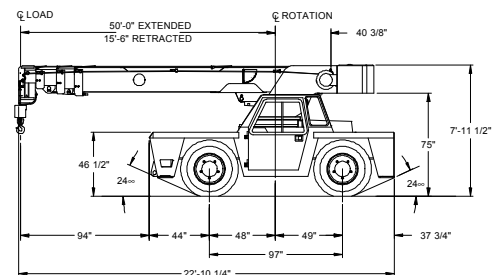
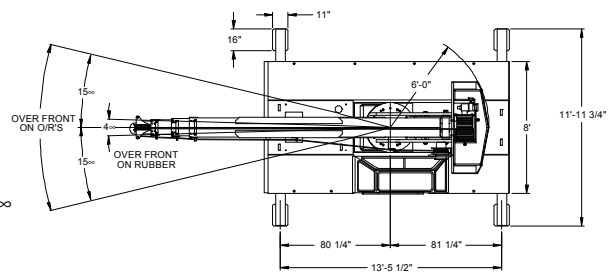
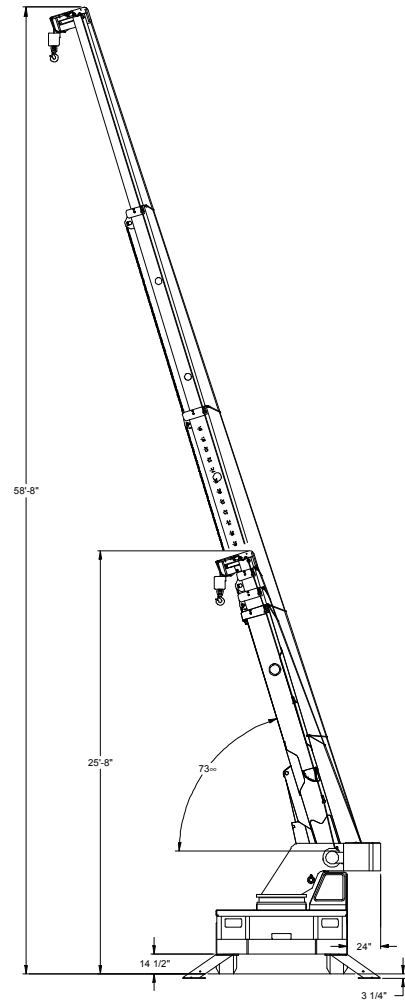
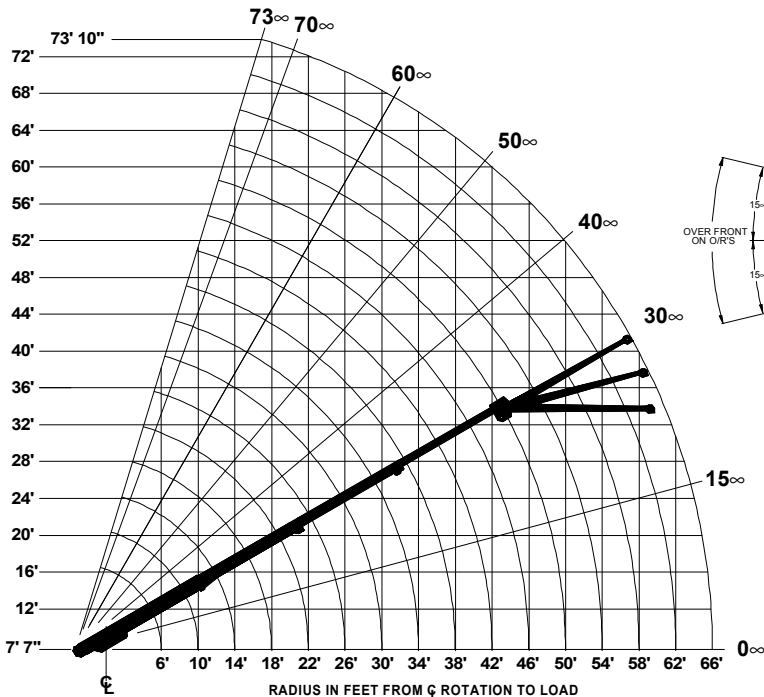
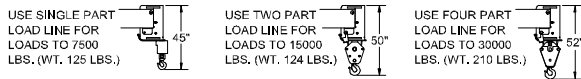
IC-200-3E

CAPACITIES IN POUNDS FOR OPERATION ON FIRM LEVEL SURFACE								
LOAD RADIUS FEET	MAIN BOOM ONLY				BOOM EXTENSION			
	ON RUBBER		ON OUTRIGGERS		ON RUBBER		ON OUTRIGGERS	
6	16000	16000	30000	30000	---	---	---	---
8	12500	12500	22400	22400	---	---	---	---
10	10000	10000	18500	18500	7500	7500	7500	7500
12	8040	8170	15700	15700	7500	7500	7500	7500
14	6500	6730	13500	13500	7500	7500	7500	7500
16	5330	5700	10800	10800	6140	7500	7500	7500
18	4450	4980	9560	9560	5010	6440	7500	7500
20	3720	4380	8550	8550	4200	5430	7500	7500
22	3140	3870	7700	7700	3580	4650	6850	6850
24	2680	3440	6980	6980	3080	4030	6250	6250
26	2300	3060	6300	6350	2660	3530	5750	5750
28	1980	2730	5550	5800	2290	3100	5300	5300
30	1700	2410	4930	5320	1990	2710	4920	4920
32	1470	2120	4410	4900	1730	2400	4580	4580
34	1260	1850	3960	4520	1510	2130	4270	4270
38	920	1300	3230	3870	1140	1680	3530	3760
42	640	950	2660	3340	840	1320	2960	3340
46	390	650	2210	2890	600	1040	2440	2980
50	0	550	1850	2520	410	800	2040	2630
54	---	---	---	---	0	600	1710	2290
58	---	---	---	---	0	430	1430	2000
62	---	---	---	---	0	290	1190	1740
66	---	---	---	---	0	0	980	1500

BOOM EXT. ANGLE	BOOM EXTENSION - STRAIGHT OR OFFSET						
	MAIN BOOM ANGLE						
0°	3000	3100	3450	3900	4650	6000	7500
15°	---	3000	3000	3000	3000	3700	5000
30°	---	---	2500	2500	2600	3100	3800

CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.

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



GENERAL:

Weight:	IC-200-1E 27,300 lbs.	IC-200-2E 27,750 lbs.	IC-200-3E 29,950 lbs.
Boom Movement:			
Rotation	Continuous	Continuous	Continuous
Elevation	0° to 73°	0° to 73°	0° to 73°
Extension	15' 4"	21' 0"	34' 6"
Boom Speeds:			
Rotation	1.8 RPM	1.8 RPM	2.2 RPM
Elevation	21 sec.	21 sec.	16 sec.
Extension	26 sec.	35 sec.	53 sec.
Gradeability:	75%		
Turning Radius:	13' 9"		

ENGINE:

	Standard	Optional
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	1.00:1

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	19,000*
Second	6 MPH	10,000*
Third	11 MPH	5,700*
Fourth	20 MPH	3,000*

*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.

OPERATOR COMPARTMENT:

Provides one-position access to all chassis and crane functions. Includes adjustable operator's seat, retracting seat belts, fire extinguisher and bubble level.

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.

Lifting Rings

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

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 and 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 Line

Double sheave block for 4-part line requirements.

**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
- IC-200-3E** Industrial Crane with
15' 6"-50' 0" Boom

ENGINE OPTIONS:

- Diesel Engine**
Cummins Turbo-4BT3.9
- Spark Arrester 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**
- Electronic Directional Steering**
Three steering modes instead of the standard two with the added feature of electronic realignment of the front and rear wheels when changing from one mode to another. The steering modes are round, crab and 2-wheel rear steering.

TIRE OPTIONS:

- Non-Marking Tires**
- 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**

CHASSIS OPTIONS: (Cont'd)

- Headlight and Taillight Grilles**
Welded steel protective grilles for headlights and taillights.
- Rearview Mirrors**
One mounted on right-hand deck stake and 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 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.

ELECTRICAL OPTIONS: (Cont'd)

- 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.

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.

Boom Extension, 16 Ft., Offsettable (3E Only)

Same as above except the boom extension is 16 ft.

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