STERLING CRANE

LIFTING CHARTS - Carry Decks

BRODERSON MODEL IC-200-2F/3F - 15 TON CAPACITY

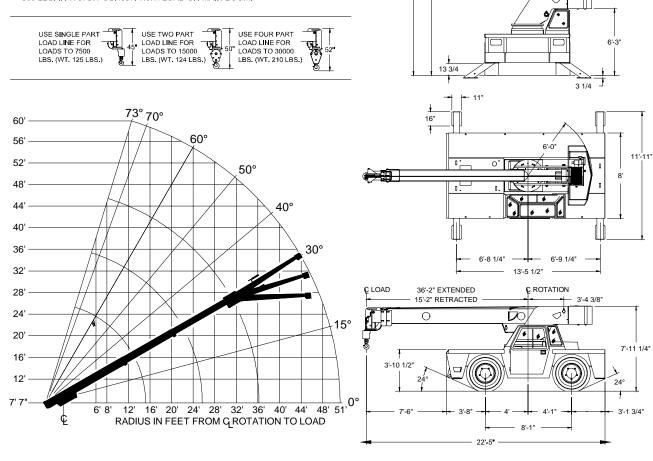


CRANE CAPACITY CHART IC-200-2F

	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE									
	LOAD	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS								
	RADIUS 360° RC			TATION		OVE	R FRONT	FRONT		
	FEET	ON RUE	BBER	ON OUTRIGG	ERS	01	RUBBER	ON OU	TRIGGERS	
	6	1620	0	30000		17000		3	30000	
	8	1320	0	24000		13800		2-	24000	
	10	11000		19800		11500		1	19800	
	12	8100		16100		9600		10	16100	
Σ	14	6250		13500		7900		1:	13500	
0	16	5000		11200	6300		1	11200		
0	18	18 4100 20 3400		10000		5100		10	10000	
В	20			8800	4300		8	8800		
z	22	2850		7700		3600		7	7800	
_	24	2400		6600		3000		6	6900	
4	26	2100		5750		2600		- 6	6200	
Σ	28	1850		5150		2300		5	700	
	30	1650		4650		2100		5	300	
	32	1450		4200		1850		4	4900	
	36	1150		3400	1500		4	4200		
ı:	40	900		3050		1200		3	3600	
\mathbf{x}	44	650)	2600		950		3	3100	
ш Ш	48	450 250		2200	750 600		2	2700 2400		
	51			1900						
Σ	BOOM	15-	BOOM EXTENSION - STRAIGHT OR OFFSET					SET		
0	EXTENSION	MAIN BOOI								
0	ANGLE	0°	15°	30°	40)°	50°	60°	70°	
B	0°		3100	3450	39		4650	6000	7500	
ū	15°		3000	3100	33		3650	4250	5200	
_	30°			3000	30	50	3200	3450	3900	

CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.

BOOM EXTENSION DEDUCT: $400\,\mathrm{LBS}$. WHEN STOWED ON BASE BOOM; $800\,\mathrm{LBS}$. IN WORK POSITION WITH LOAD ON MAIN BOOM.



45'-4 1/2"

25'-3 1/2"

IC-200-2F/3F

CRANE CAPACITY CHART IC-200-3F

		CAPACITI	ES IN POUNDS	S FOR	OPERA	TION ON	FIRM	LEVEL SUI	RFA	CE	
LOAD	MAIN BOOM ONLY				BOOM EXTENSION						
RADIUS	ON RU	JBBER	ON OUTRIGGERS		C	ON RUBBER			ON OUTRIGGERS		
FEET	360°	FRONT	360°	FR	ONT	360)°	FRONT		360°	FRONT
6	16000	16400	30000	30	0000						
8	12500	13000	22400	22	400						
10	10000	10500	18500	18	500	750	0	7500		7500	7500
12	8040	8700	15700	15	700	750	0	7500		7500	7500
14	6500	7200	13500	13	500	750	0	7500		7500	7500
16	5330	6200	10800	10	800	614	0	7500		7500	7500
18	4450	5400	9560	9	560	501	0	6440		7500	7500
20	3720	4700	8550	8	550	420	0	5430		7500	7500
22	3140	4200	7700	7	700	358	0	4650		6850	6850
24	2680	3700	6980	6	980	308	0	4030		6250	6250
26	2300	3200	6300	6	350	266	0	3530		5750	5750
28	1980	2800	5550	5	800	229	0	3100		5300	5300
30	1700	2460	4830	5	320	199	0	2710		4920	4920
32	1470	2150	4200	4	900	173	0	2400		4580	4580
34	1260	1850	3700	4	520	151	0	2130		4270	4270
38	920	1300	2970	3	870	114	0	1680		3530	3760
42	640	950	2400	3	340	840)	1320		2960	3340
46	390	650	1840	2	890	600)	1040		2440	2980
50	0	550	1750	2	520	410)	800		2040	2630
54						0		600		1710	2290
58						0		430		1370	2000
62						0		290		1140	1740
66						0		0		930	1500
BOOM	BOOM EXTENSION - STRAIGHT OR OFFSET										
EXT.	MAIN BOOM ANGLE										
ANGLE	0°	15°	30°	30° 40)° 50°			60°	70°	
0°	3000	3100	3450	3450 39		00	0 4650			6000	7500
15°		3000	3000	3000 30		00 3000		3000		3700	5000
30°			2500	500 250		00	2600			3100	3800

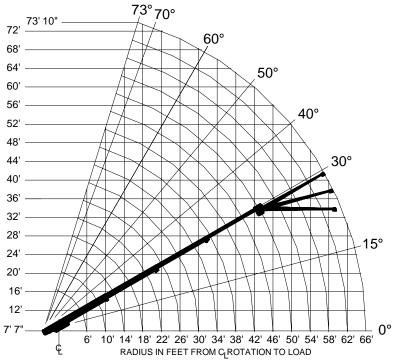
CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED CAPACITIES IN ANGLE CHART AND LOAD RADIUS CHART.

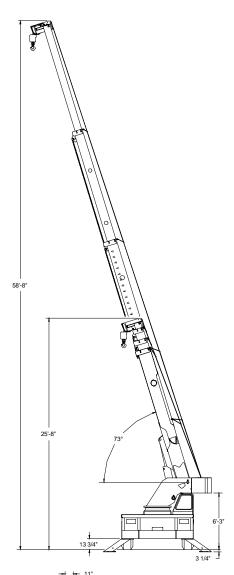
BOOM EXTENSION DEDUCT: 400 LBs. WHEN STOWED ON BASE BOOM; 800 LBs. IN WORK POSITION WITH LOAD ON MAIN BOOM.

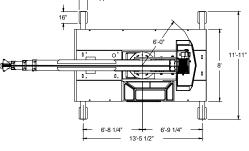
USE SINGLE PART LOAD LINE FOR LOADS TO 7500 LBS. (WT. 125 LBS.)

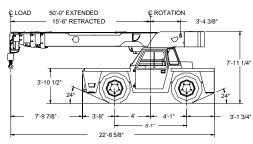
USE FOUR PART LOAD LINE FOR LOADS TO 30000 LBS. (WT. 210 LBS.)











STERLING CRANE

GENERAL:

Weight:	IC-200-1F	IC-200-2F	IC-200-3F
	27,300 lbs.	27,750 lbs.	30,150 lbs.
Boom Movement:			
Rotation	Continuous	Continuous	Continuos
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	1.8 RPM
Elevation	21 sec.	21 sec.	21 sec.
Extension	26 sec.	35 sec.	53 sec.
Gradeability:	75% (37 Degr	rees)	
Turning Radius:	13' 9"		

ENGINE:	Standard	Optional
Make	GM	Cummins
Model	4.3L V-6	4BT3.9
Туре	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./2:1	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, four-wheel steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

BRAKES:

Service: Split-system, 4-wheel hydraulic-boosted multiple-plate

wet disc brakes.

Parking: Hand lever actuated disc-type parking brake on transmission.

TIRES: 15x22.5, 16-ply rating.

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:

72 square feet of deck area. 17,000 lbs. capacity on deck when load is centered over or between axles. Steps located on front corners.

Lifting Rings

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

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 cargo 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 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.

Outrigger Alarm System:

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

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 or four section boom assembly equipped with bearing pads, doubleacting 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.

Rated Capacity Limiter

Warns operator of impending overload with audible and visual signals. Prevents overloads by stopping boom functions that cause overloads.

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IC-200-2F/3F

STERLING CRANE

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

MODEL:

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

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

IC-200-3F 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 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:

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

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:

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 ATTACHMENTS:

Boom Extension, 15 Ft.

Boom stowable.

Boom Extension, 15 Ft., Offsettable (2F 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 (3F Only)

Same as above except the boom extension is 16 ft.

Sheave Block - Two-Part Line

Searcher Hook:

Nose Mount

Should you, as an end user, require an option or special equipment on your IC-200-F that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.

IC-200-2F/3F