STERLING CRANE

LIFTING CHARTS - Carry Decks

BRODERSON MODEL IC-200-2E - 15 TON CAPACITY



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STERLING CRANE

GENERAL:

Weight:

IC-200-1E 27,310 lbs. IC-200-2E 27,760 lbs.

Gradeability: 75%
Turning Radius: 13' 9"

 Boom Movement:
 IC-200-1E
 IC-200-2E

 Rotation
 Continuous
 Continuous

 Elevation
 0º to 73º
 0º to 73º

 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: Standard Optional Make GM Cummins 4.3L V-6 4BT3.9 Model Type Gasoline Turbo-Diesel No. Cyl. 262 CID 239 CID Displacement 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 electrohydraulic 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, 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.

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Sheave Block, Four Part Line

Double sheave block for 4-part line requirements.

STERLING CRANE

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 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

Headlight and Taillight Grilles

Welded steel protective grilles for headlights and taillights.

CHASSIS OPTIONS: (Cont'd) Rearview Mirrors

One mounted on right-hand deck stake and one mounted on lefthand 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.

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.

ELECTRICAL OPTIONS: (Cont'd) 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.

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.

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