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IC-280-A

Industrial Crane

The 20 USt (18 t) capacity IC-280-A crane features a 63′ 10″ (19.5 m) four section boom, direct operated hydraulic controls, 3-position out-and-down outriggers, and 4-wheel steer/2-wheel drive standard configuration. This crane has the versatility to perform construction, maintenance, upgrade and expansion projects.

Capacity 40,000 lbs (18,100 kg)

Sheave Height

88' 9" (27 m)

Horizontal Reach

80' 6" (24.5 m) (with boom extension)

Height

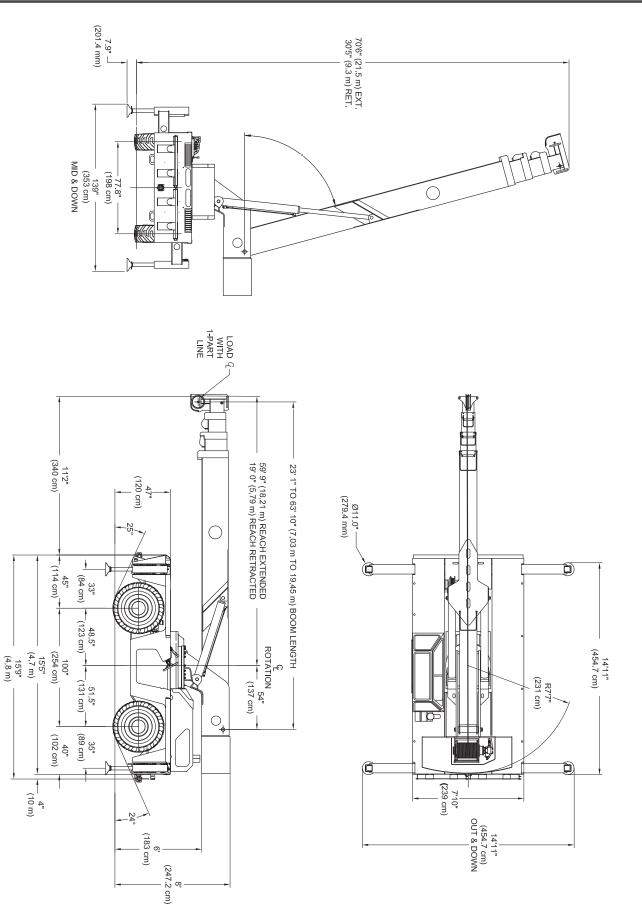
8' (2.4 m)

Width

7' 10" (2.39 m)











	ROTATION	ELEVATION	EXTENSION
Boom Movement	Continuous	0° to 75°	40'9" (14.5 m)
Boom Speeds	1.4 RPM	60 sec	26 sec

Weight Total	41,340 lbs (18,790 kg)
Front Axle	19,870 lbs (9,010 kg)
Rear Axle	21,470 lbs (9,740 kg)
Gradeability	64% (33°)
Turning Radius	14' 4" (4.37 m)

Make	Cummins	GM
Model	QSF3.8 T4F	5.7 L V8 (T2)
Туре	Turbo-Diesel	LPG
Cylinder	4	8
Displacement	3.8 L	5.7 L
HP @ Gov. Speed	120HP (89kW)	135HP (101kW)
Fuel Tank Capacity	30 gal (113 L)	Dual 43 lbs (19.5 kW)

POWERSHIFT TRANSMISSION with 4-speeds forward and reverse. Provides power shifts at any engine speed in any gear. All shifting is done with a single lever electrical control mounted on the steering column. Multiple-disc clutch packs operated by solenoid valves provide reverse, neutral, forward and speed selection. Equipped with torque converter and transmission oil cooler.

GEAR RATIOS:

1st	5.72:1
2nd	3.23:1
3rd	1.77:1
4th	1.00:1

FRONT

Planetary drive/steer front axle with 16:42 to 1.0 ratio. Differential equipped with "limited slip" feature. Front axle mounted rigidly to frame.

TRANS. GEAR	SPEED	DRAWBAR PULL*
1st	3 MPH	18,100 lbs (8,200 kg)
2nd	5 MPH	10,600 lbs (4,800 kg)
3rd	10 MPH	6,000 lbs (2,700 kg)
4th	18 MPH	3,200 lbs (1,450 kg)

^{*} Drawbar pull is calculated for QSF 3.8 L Tier 4F Diesel engine.

RFAR

Standard (2-Wheel Drive):

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

Optional (4-Wheel Drive):

Planetary drive/steer axle with 15.78 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 rear output ratio to match front axle speed.

Hydraulic steering unit with two 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 (round) steering or crab steering.

Service: Split-system, 4-wheel hydraulic-boosted multiple plate wet disc brakes.

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

Standard:

385/65-22.5/16PR OTR.

CARGO DECK

80 square feet (7.4 m) of deck area. 14,800 lbs (6,713 kg) capacity on deck when load is centered over or between axles.

OUTRIGGERS

Four hydraulic in-and-down, mid-and-down, and out-and-down outrigger positions of box construction with hydraulic load holding valves. Independent controls for each outrigger. Outrigger pad dimension: 11" (30 cm) diameter

ACCESSORY STORAGE BOX

Storage box is 14" (35 cm) deep x 12½" (32 cm) long x 36½" (93 cm) wide, located in front cargo deck.

LIFTING RINGS

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

OPERATOR OMPARTMENT

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

LIGHTING PACKAGE

Consists of two 12V-lamps, with high and low beams for driving; tail, brake and turn signal lights and backup lights in rear; front turn signals and emergency flasher switch at operator's station.

INSTRUMENT PACKAGE

Fuel gauge and hourmeter which records hours only during actual engine operation. Also included are warning lights for low oil and transmission pressure, check engine, high coolant and transmission temperature, turn signals, high beams, hazard lights, parking brake and four-wheel drive.

BACK-UP ALARM

Provides pulsating sound from 102 dB alarm when transmission is in reverse. Conforms to SAE J994B.

OUTRIGGER ALARM SYSTEM

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

TELEMATICS

Owners will be able to access location, operating hours, utilization, engine and maintenance information through both online and mobile platforms.

YDRAULI

TANDEM PUMP

direct-driven by engine, delivers 61 GPM (231L/min) at rated RPM. 54-gallon capacity. 3,000 PSI (206 bar) maximum pressure.

FOUR-SECTION BOOM ASSEMBLY

Equipped with bearing pads, double acting hydraulic cylinder and chain system telescopes booms proportionally. Telescope and boom elevation cylinders equipped with cylinder-mounted holding valves. 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.

TWO-SPEED BOOM HOIST

Turret-mounted planetary gear hoist, is hydraulically powered to provide a bare-drum line pull of 12,500 lbs (5,670 kg) and a speed of 186 fpm (57 m/min), includes 375 feet (114 m) of 9/16 inch

(14 mm) wire rope, 170 pound (77 kg) downhaul weight, swivel hook, sheave block for 4-part line.

ANTI-TWO-BLOCK DEVICE

Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

RATED CAPACITY LIMITER

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





CONSULT THE IC-280-A ENGINEERING SPEC FOR ADDITIONAL INFORMATION.

Main Features

RATED CAPACITY LIMITER
Standard

CAPACITY ON OUTRIGGERS 40,000 lbs (18,100 kg)

PICK AND CARRY CAPACITY 14,800 lbs (6,713 kg)

HEIGHT 8' (2.4 m)

WIDTH 7' 10" (2.39 m)

BOOM ROTATION 360°

SHEAVE HEIGHT up to 88' 9" (27 m)

HORIZONTAL REACH up to 80′ 6″ (24.5 m)

FOUR-WHEEL STEERStandard

FOUR-WHEEL DRIVE
Optional

POWERSHIFT TRANSMISSION
Standard

FULLY HYDRAULIC CONTROLS FOR SMOOTH, PRECISE OPERATIONS

INDEPENDENT OUTRIGGER CONTROLS

DIESEL T4F ENGINE

ENGINE

Spark Arrester Muffler

Installed in addition to standard muffler. (LPG only.)

Engine Heater

Engine coolant heater installed to circulate warm water through engine, plugs into 120 volt AC.

AXLE AND STEERING

4-Wheel Steer and 2-Wheel Drive 4-Wheel Steer and 4-Wheel Drive

TIRE

Non Marking Pneumatic Tires Foam Filling of Tires Spare Tire and Wheel

CHASSIS

Auxiliary Winch

Mounted on front outrigger bumper, hydraulically driven with control in operator's console.

Pintle Hook

Rear and Front

Rearview Mirrors

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

Outrigger Shoes

Polymer outrigger shoes, 20" (510 mm) diameter round shoes with storage on rear bumper.

OPERATOR COMPARTMENT

Operator Guard

Tubular steel weldment with heavy expanded steel mesh top section.

All Weather Cab

Rigid-mounted canopy section and removable hinged door. Includes heater, electric windshield wiper, one sliding glass window in the door and one in the right side of canopy. Defroster fan and dome light included.

Options

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.

Noise Reduction Kit

Includes floor mat, control valve cover and side panels of foam backed vinyl for noise reduction.

Air Conditioning

Air Conditioner with 134 coolant.

ELECTRICAL

Strobe Lights

Yellow strobe light mounted on each side of turret weight box.

Boom Work Lights

One worklight mounted to boom to light boom tip, and one work light mounted to turret to light ground under boom tip.

Work Lights—Rear

Two work lights recessed in rear bumper.

RCL Light Bar

3 color light bar for external indication of load status.

BOOM ATTACHMENTS

Boom Extension

20 ft (6.1 m) Offset. Boom stowable. Boom extension is offsettable to 3 different positions; 0 degree (in line), 15 degree and 30 degree offset.

Sheave Block

2 part and 4 part available

Searcher Hook

Nose mount 5,000 lbs (2,270 kg) capacity.

Broderson Cranes are manufactured to ISO 9001:2015 certified standards and have a market leading reputation for quality and reliability. Broderson Cranes are engineered for operating efficiency and are easy to operate and maintain.

An extensive network of full-service dealers offer parts and service support by factory-trained technicians.

For additional options or special equipment not listed, please consult your dealer salesperson or contact Broderson Manufacturing Corp.



14741 West 106th Street Lenexa, KS 66215 USA (913) 888-0606 www.BMCcranes.com Dimensions and values shown are for reference purposes only. Specifications subject to change.

