

IC-20-K

Carry-Deck Industrial Crane

The IC-20 may be the shortest Broderson crane on the market, but don't be fooled by its small size. Sharing many of the same features as the larger Broderson models, this crane's rugged construction makes it perfect for any close-quarters job.

Capacity

5,000 lbs. (2,270 kg)

Sheave Height

27' 9" (8.46 m)
(with boom extension)

Horizontal Reach

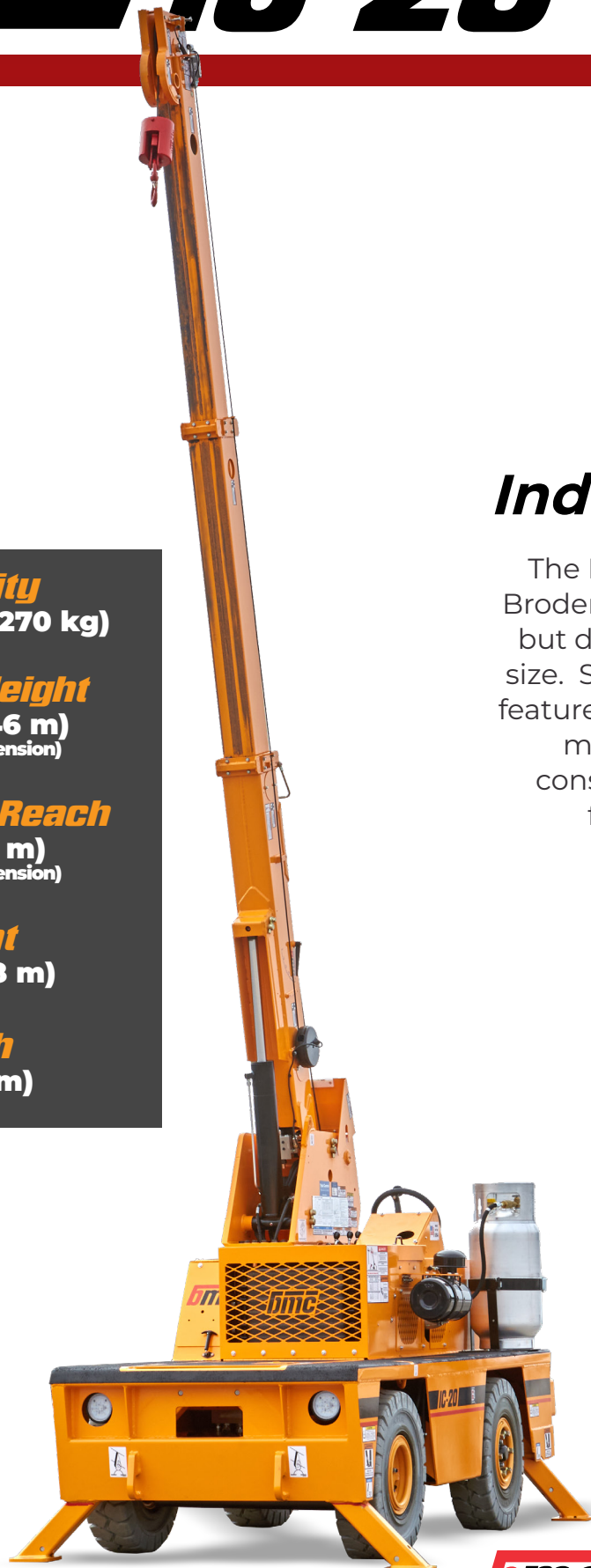
22' (4.78 m)
(with boom extension)

Height

5' 6" (1.68 m)

Width

4' (1.22 m)

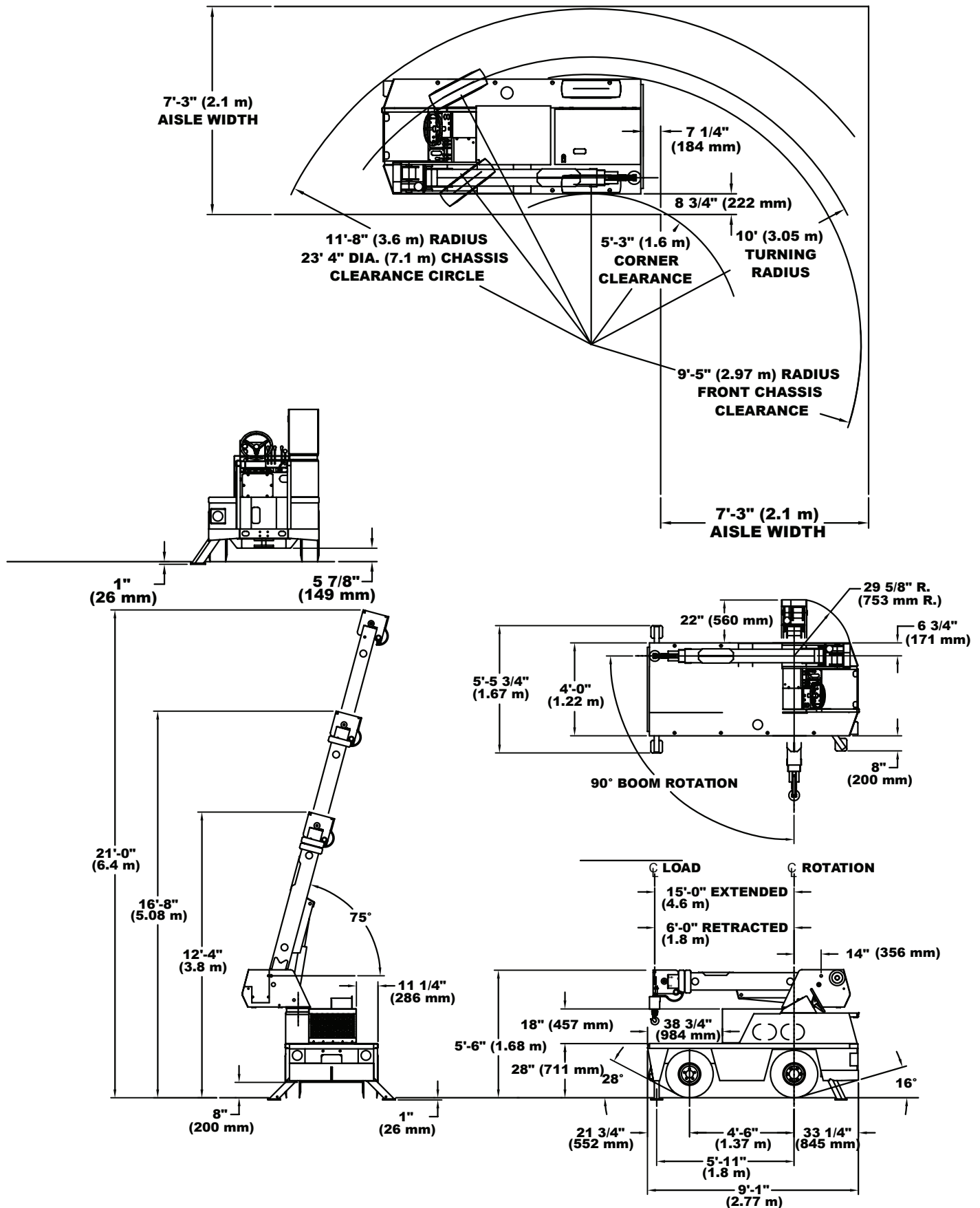


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Manufacturing Corp.

www.broderson.com

IC-20-K

DIMENSIONS



SPECIFICATIONS

GENERAL

	ROTATION	ELEVATION	EXTENSION
Boom Movement	90 °	0 ° to 75 °	6-15' (1.8-4.6m)
Boom Speeds	10 sec.	9 sec.	25 sec.
Weight Total	6,380 lbs. (2,900 kg.)		
Travel Speed	0 to 5.5 mph (8.8km/h)		
Drawbar Pull	3,000 lbs. (1,360 kg.)		

ENGINE

Make	Kubota	Kubota
Model	1.6L EFI	1.8L D1803 (T4F)
Type	Dual Fuel	Diesel
Cylinder	4	3
Displacement	1.6L	1.8L
HP @ Gov. Speed	44HP (33 KW)	50HP (37 KW)
Fuel Tank Capacity	13.5 gal. (51L)	13.5 gal. (51L)

HYDROSTATIC PUMP

Piston type, direct driven from engine crankshaft.
Maximum flow 30 GPM (114 L/min).
Maximum pressure 3,000 psi (207 bar).

AXLES

FRONT
Contains planetary geared torque hubs and high torque hydraulic drive motors. Axle oscillates a total of 1-1/2" (38 mm).
REAR
Non-oscillating.

STEERING

Hydraulic steering unit controls cylinder attached to rear axle.

BRAKES

Primary braking from hydrostatic transmission. Foot-actuated disc brakes for additional braking. Spring applied hydraulic released park brake, actuated from a toggle switch on operator's control panel. All braking is

TIRES

FRONT
7.5 x 10 pneumatic, 16-ply, 145 PSI (1000k Pa)
REAR
7.5 x 10 pneumatic, 16-ply, 145 PSI (1000k Pa)

CHASSIS

CARGO DECK
19 sq. ft. (1.77 m2) of deck area. 5,000 lbs. (2,270 kg) capacity.

OUTRIGGERS
Three hydraulic outriggers of box-beam construction. Independent controls for each. Hydraulic cylinders are equipped with direct-connected holding valves.

LIFTING SLING BRACKETS
Includes two lift rings in front deck and lug on turntable for attaching lifting sling cables. Cables not included.

PULLING EYE
Mounted on front bumper.

OPERATOR COMPARTMENT

Provides one-position access to all chassis & crane functions. Includes fire extinguisher & bubble level.

ELECTRICAL (12-VOLT SYSTEM)

LIGHTING PACKAGE
One pair headlights and taillight.

DISPLAY
Lighted fuel, voltmeter, oil pressure, and water temperature gauges, hydraulic oil temperature gauge and hourmeter.

BACK-UP ALARM
Provides pulsating sound from 97dB alarm when transmission is in reverse.

OUTRIGGER ALARM SYSTEM
Pulsating alarm is activated when outriggers are being activated.

HYDRAULIC

TANDEM PUMP mounted to rear of hydrostatic piston pump. Delivers 6 GPM (23 L/min) at 2,500 PSI (172 bar) for boom circuits and 16 GPM (98.5 L/min) at 2,500 PSI (172 bar) for hoist circuit. System protected by relief valves and two micron filters. Hydraulic oil reservoir has 9.5 gallon (36 L) capacity.

BOOM ASSEMBLY

THREE-SECTION BOOM ASSEMBLY equipped with bearing pads, double-acting hydraulic cylinders extends boom. The primary extension cylinder and the double-acting boom elevation cylinder are equipped with direct connected holding valves. Boom angle indicator on left side of boom.

BOOM ROTATION
Two double-acting hydraulic cylinders connected to turntable torque tube provides 90° rotation. Heavy-duty ball bearing supports boom.

ANTI-TWO-BLOCK DEVICE
Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

SHEAVE BLOCK, TWO-PART
Single sheave block for 2-part line requirements.



Main Features

CAPACITY ON OUTRIGGERS
5,000 lbs. (2,270 kg)

PICK AND CARRY CAPACITY
up to 2,500 lbs. (1,130 kg)

HEIGHT (w/o Operator Guard)
5' 6" (1.68 m)

HEIGHT (w/ Operator Guard)
7' 6" (2.3 m)

WIDTH
4' (1.22 m)

BOOM ROTATION
90°

SHEAVE HEIGHT
up to 27' 9" (8.46 m)

HORIZONTAL REACH
up to 22' (4.78 m)

TIGHT TURNING RADIUS

REAR WHEEL STEER
Standard

FRONT WHEEL DRIVE
Standard

**FULLY HYDRAULIC CONTROLS
FOR SMOOTH, PRECISE
OPERATIONS**

**DUAL FUEL OR DIESEL
AVAILABLE**

Additional Features

TIRE

Solid Rubber Tires

For applications where hazardous ground conditions exist.

Solid Rubber Tires - Non Marking

Foam Filling of Tires

Spare Tire & Wheel - Pneumatic

Spare Tire & Wheel - Solid Rubber

Spare Tire & Wheel - Solid Rubber, Non Marking

Foam Filling of Spare Tires

CARGO DECK

Deck Mat

CHASSIS

Auxiliary Winch

Mounted behind the front bumper, hydraulically driven with control in operator's console provides bare drum line pull of 2,500 lbs (1,134 kg) @ 20 FPM (6m/min).

Pintle Hook - Rear

Holland "T-60-A" pintle hook mounted on rear of frame. 5-ton capacity.

Lifting Sling

Three leg lift sling to attach to Lifting Rings.

Rearview Mirrors

One mounted on right and left-hand deck stake. Pivots out of way for obstacles.

OPERATOR COMPARTMENT

Operator Guard

Tubular steel weldment with heavy expanded steel mesh top section. Overhead height with guard installed is 90 inches.

Floor Mat

Vinyl mat with foam backing.

ELECTRICAL

Strobe Lights

One yellow strobe light mounted on top of operator's guard for high visibility. When the operator's guard is not ordered the strobe light is mounted on left-hand frame rail.

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. Includes switch in operators compartment.

RCL Light Bar

3 color light bar for external indication of load status

BOOM ATTACHMENTS:

Boom Swing Lock

Prevents boom from being swung in normal 90 degree arc.

7 Foot Pin-On Jib

Consists of jib with pair of tension bars, tip sheave, cable keeper and jib attaching pins. Tension bars provide two positions: In-line and 30 degree offset.

Rated Capacity Limiter

Operator's aid that warns operator of impending overload with audible and visual signals. Readouts for load, boom angle, and load radius.

CONSULT THE IC-20K ENGINEERING SPEC FOR ADDITIONAL INFORMATION.

Broderon Cranes are manufactured to ISO 9001 certified standards and have a market leading reputation for quality and reliability. Broderon 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 **Broderon Manufacturing Corp.**

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Dimensions and values shown are for reference purposes only. Specifications subject to change.



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