

## **IC-40-D** **Industrial Crane**

The IC-40 is a very popular compact pick and carry deck crane. Operator fatigue is minimized with easy to operate fully hydraulic controls that deliver smooth, precise operation. Four-wheel drive powers through tough applications.

### **Capacity**

9,000 lbs. (4,080 kg)

### **Sheave Height**

33' 6" (10.21 m)  
(with boom extension)

### **Horizontal Reach**

27' (8.28 m)  
(with boom extension)

### **Height**

6' 8" (2.06 m)

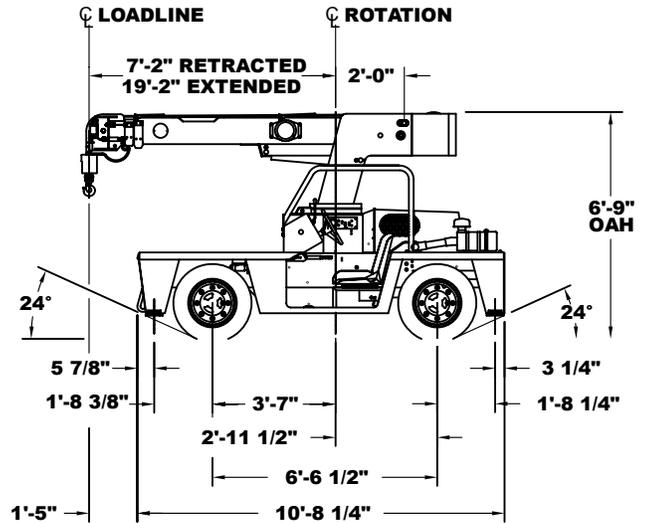
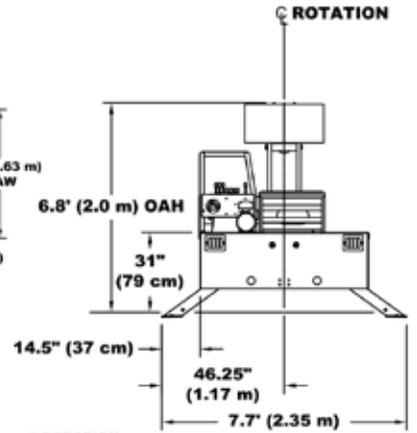
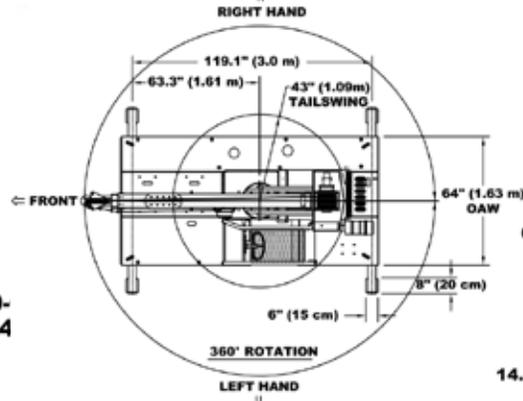
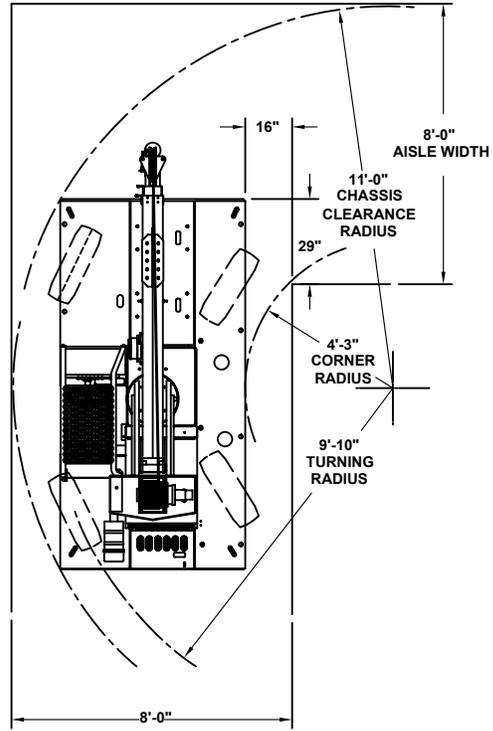
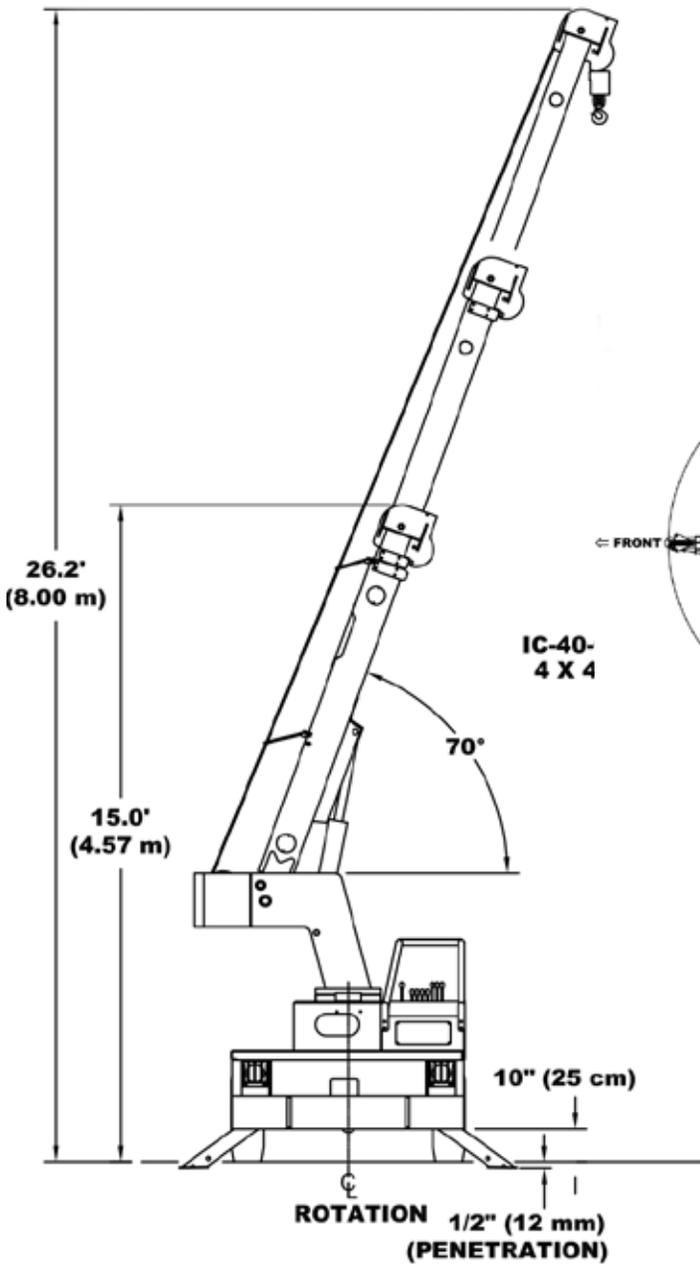
### **Width**

5' 4" (1.63 m)



# IC-40-D

## SPECIFICATIONS



CONSULT THE IC-40-D ENGINEERING SPEC FOR ADDITIONAL INFORMATION.

## **Main Features**

**RATED CAPACITY LIMITER**  
Standard

**CAPACITY ON OUTRIGGERS**  
9,000 lbs. (4,080 kg)

**PICK AND CARRY CAPACITY**  
up to 7,200 lbs. (3,260 kg)

**HEIGHT**  
6' 8" (2.06 m)

**WIDTH**  
5'4" (1.63 m)

**BOOM ROTATION**  
360° Continuous

**SHEAVE HEIGHT**  
up to 33'6" (10.21 m)

**HORIZONTAL REACH**  
up to 27' (8.28 m)

**TIGHT TURNING RADIUS**

**REAR WHEEL STEER**  
Standard

**FRONT WHEEL DRIVE**  
Standard

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

**INDEPENDENT OUTRIGGER  
CONTROLS**

**DUAL FUEL OR DIESEL AVAILABLE**

## **Options**

### **ENGINE**

#### **Spark Arrester Muffler**

Installed in addition to standard muffler.  
(Diesel engine only.)

### **TIRE**

#### **Solid Rubber Tires - Non Marking**

#### **Foam Filling of Tires**

#### **Spare Tire & Wheel - Pneumatic**

#### **Foam Filling of Spare Tires**

### **CHASSIS**

#### **Auxiliary Winch**

Mounted behind the front bumper, hydraulically driven with control in operator's console - 3,000 lbs @ 20 FPM (1,360 kg @ 6.10 mp/m).

#### **Pintle Hook - Rear**

Holland "T-60-A" pintle hook mounted on rear of frame rated for 2,000 lbs. (910 kg) tongue weight.

#### **Lifting Sling**

Sling to attach to Lifting Rings.

#### **Rearview Mirrors**

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

### **OPERATOR COMPARTMENT**

#### **All Weather Cab**

Rigid-mounted canopy section and removable hinged door with safety glass. Cab door adds 2 in. (5 cm) to crane on operator's side. Includes heater, electric windshield wiper, one sliding glass window in the door, & one fold out window in rear. Defroster fan & dome light included.

#### **Cab Heater Only**

Heater with two-speed fan for units without All Weather Cab.

#### **Operator Guard**

Tubular steel weldment with heavy expanded

steel mesh top section for units without All Weather Cabs.

#### **Floor Mat**

Ribbed vinyl mat with foam backing for operator comfort.

### **ELECTRICAL**

#### **Strobe Lights**

Yellow strobe light 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**

8 foot (2.4 m), boom stowable.

#### **Boom Extension, Offset**

8 foot (2.4 m), boom stowable. Boom extension is offsettable to 3 different positions; 0° (in line), 15° and 30° offset.

#### **Searcher Hook - Nose Mount**

2,000 lb (900kg) capacity. Swivel hook with spring latch hangs from support structure projecting outward from boom tip.

Broderson Cranes are designed and built 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.

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



# IC-40-D

## SPECIFICATIONS

### GENERAL

	ROTATION	ELEVATION	EXTENSION
<b>Boom Movement</b>	Continuous	0' to 70'	7'2" to 19'2"
<b>Boom Speeds</b>	1.4 RPM	17 sec.	32 sec.
<b>Weight Total</b>	8,920 lbs. (4,050 kg.)		
<b>Travel Speed</b>	0 to 10 mph (16 km/h)		
<b>Drawbar Pull</b>	2,000 lbs. (910 kg.)		
<b>Gradeability</b>	24% (13')		

### ENGINE

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

### HYDROSTATIC PUMP

Piston type, direct driven from engine crankshaft.  
Maximum flow 34 GPM (129 L/min).  
Maximum pressure 4,000 psi (275 bar).

### AXLES

#### FRONT

Planetary drive/steer axle with 16.15:1 ratio. Differential equipped with "limited slip" feature. Axle is rigidly mounted to frame.

#### REAR

Planetary drive/steer axle with 16.15:1 ratio. Differential is "limited slip" in rear axle. 1-1/2 degree oscillation in either direction.

### STEERING

Hydraulic steering unit with a cylinder attached to each axle. Rear axle is the primary steer. An electric switch in the operator's compartment is used to select rear-wheel steering, four wheel round steer, or crab steering. Electronic sensors & control box automatically align the steering when a new mode is selected. 1/2 degree oscillation in either direction.

### BRAKES

Primary braking from hydrostatic transmission. Foot-actuated wet-disc brakes in each axle for additional braking in some conditions. Lever-actuated parking brake to hold crane when not being driven.

### TIRES

#### 28x9-15 pneumatic tires.

Pressurized to 120 PSI (80 KPa) for crane rated loads.

### CHASSIS

#### CARGO DECK

29 sq. ft. (2.7m<sup>2</sup>) of deck area. 6,000 lbs. (2,720 kg) capacity on deck when load is centered over or between axles.

#### OUTRIGGERS

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

#### HEADLIGHT & TAILLIGHT GRILLES

Welded steel protective grilles for headlights and taillights.

#### LIFTING RINGS

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

#### FRONT PULLING EYE

Mounted on front bumper.

### OPERATOR COMPARTMENT

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

#### LIGHTING PACKAGE

One pair headlights and taillight.

#### DISPLAY

Fuel, ammeter, 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

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

### ELECTRICAL (12-VOLT SYSTEM)

### HYDRAULIC

**TANDEM PUMP** mounted to rear of hydrostatic piston pump. Delivers 6 GPM (23 L/min) at 2,600 PSI (179 bar) for boom circuits and 17 GPM (64 L/min) at 2,250 PSI (155 bar) for hoist circuit. System protected by relief valves. Hydraulic oil reservoir has 14 gallon (53L) capacity.

#### THREE-SECTION BOOM ASSEMBLY

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

#### BOOM ROTATION

Heavy-duty ball bearing rotation gear with external teeth. Rotation is powered by hydraulic motor & worm gear drive.

#### BOOM HOIST

Turret mounted planetary gear hoist hydraulically powered with a bare drum line pull of 5,000 lbs. (2,270 kg) & a line speed of 86 FPM (26 m/min). Hoist includes 85 ft. (26 m) of 3/8 in. (9.5 mm) wire rope, downhaul weight, swivel hook and sheave block for 2-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 & visual signals. Prevents overload by stopping boom functions that cause overloads.

### BOOM ASSEMBLY