



18,000 lb Max. Capacity Available in 3 Boom Lengths

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 18,000 lb
- Pick and Carry Capacity ... up to 11,700 lbs

BRUDERSON

- Height ... 7' 3¹
- Width ... 6' 6'
- Boom Rotation ... 360 Degree Continuous
- Sheave Height ... up to 46
- Horizontal Reach ... up to 40
- 4-Wheel Steer ... Standard
- Powershift Transmission ... Standard
- Fully Hydraulic Controls for Smooth Precise Operations
- Independent Outrigger Controls
- Dual Fuel or Diesel Engine Available





IC-80-J Specifications

GENERAL:

Weight:	<u>IC-80-1J</u>	<u>IC-80-2J</u>	<u>IC-80-3J</u>	
2-Wheel Drive	16,200 lb	16,400 lb	16,750 lb	
	(7,350 kg)	(7,440 kg)	(7,600 kg)	
Boom Movement:				
Rotation	Continuous	Continuous	Continuous	
Elevation	0º to 70º	0º to 70º	0º to 70º	
Extension	12 ft.	14 ft. 6 in.	18 ft. 6 in.	
	(366 cm)	(442 cm)	(564 cm)	
Boom Speeds:				
Rotation	2.0 RPM	2.0 RPM	2.0 RPM	
Elevation	10.0 sec.	10.0 sec.	10.0 sec.	
Extension	17.0 sec.	21.0 sec.	27.0 sec.	
Turning Radius:				
(C/L of Outside Steering Wheel)		11 ft. 2 in. (3.40 m)		
Aisle Width for 90° Turn:		9 ft. 7 in. (2.92 m)		
Gradeability:		63 percent (32	2 dégrees)	
ENGINE	Dual Fuel	Diesel		

<u>Dual Fuel</u>	<u>Diesel</u>
GM	Cummins
3.0 EFI* EPA Tier II	B 3.3L EPA Tier IVi
Gas	Diesel
4	4
181 CID (3.0 L)	199 CID (3.3 L)
59 (44kW)	74 (55kW)
ction with Dual Fuel, L	JS EPA & CARB.
missions standards	
17.6 Gallons (66.6 L)
	GM 3.0 EFI* EPA Tier II Gas 4 181 CID (3.0 L) 59 (44kW) ction with Dual Fuel, L missions standards

TRANSMISSION:

Powershift transmission with 4-speeds in forward & 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. Multiple-disc clutch packs operated by solenoid valve provide forward, neutral, reverse and speed selection. Equipped with oil cooler and filter. Torgue converter has stall ratio of 2.2:1.

Transmission Gear	Forward or Reverse	Travel Spo MPH (km/		Drawba Pounds	
First	5.72:1	4 (6)	,	15,500	(7,031)
Second	3.23:1	7 (ÌÍ)		8,700	(3,946)
Third	1.77:1	13 (21)		4,600	(2,087)
Fourth	1.00:1	22 (35)		2,500	(1,134)
1) Drawbar pull i	s calculated ha	sed on GM	3010	nasoline ei	naine

1) Drawbar pull is calculated based on GM 3.0L gasoline engine.

AXLES: Front:

Planetary drive/steer axle with 11.625:1 axle ratio. Differential is "No-Spin." Axle mounted rigidly to frame.

Rear:

2-Wheel Drive:

Axle with 1-1/2° oscillation in either direction.

STEERING:

Hydraulic steering unit with cylinders attached to each axle. Rear axle is the primary steer. An electric switch in the operator's commartment is used to select rear-wheel steering, four-wheel round steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

BRAKES:

Four-wheel hydraulic. Wet disc brakes are on the front and rear axles. Parking brake is disc type.

TIRES:

2-Wheel Drive 10.00 x 15, load range H bias, 16-ply rating.

CHASSIS:

Cargo Deck:

53 square feet (5 m²) of deck area. A maximum of 14,000 lb (6,350 kg) capacity on deck when load is centered over or between axles.¹ A storage box is located in front cargo deck. Steps located on front corners. Heavy deck loads allowed at creep speed below 2 MPH (3.2 km/h) and less than 200 feet (61 m) in 30 minutes.

Headlight and Taillight Grilles:

Welded steel protective grilles for headlights and taillights. **Outriggers:**

Four hydraulic outriggers of box beam construction. Independent controls for each outrigger. Each cylinder equipped with direct-connected holding valves. Outrigger pad dimension 9 inches (23 cm) x12 inches (30 cm).

Lifting Rings:

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

OPERATOR COMPARTMENT:

Operator's control station provides one-position access to all operating functions. Includes adjustable operator's seat, retracting seat belt, fire extinguisher and bubble level.

ELECTRICAL (12 Volt System):

Instrument Package:

Includes fuel gauge and hourmeter. Also included are warning lights for low oil and transmission pressure, turn signal, high beams, hazard lights, parking brake, hydraulic oil temperature, battery, check engine, stop engine, coolant temperature, outriggers.

Lighting Package:

One pair headlights with Hi and Low beams, back-up lights, integral tail, brake, front and rear turn signals and emergency flasher switch at operator's station. 12V horn actuated by button on shifting control.

Back-Up Alarm:

Provides pulsating sound from 97 dB alarm when transmission is in reverse. Conforms to SAE J994b.

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 16 & 32 GPM at rated RPM (61 L/min & 121 L/min). Hydraulic oil tank capacity of 25 gallons (95 L).

BOOM ASSEMBLY:

Three-section boom assembly equipped with bearing pads, double-acting hydraulic cylinders with direct-connected 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.

Boom Hoist:

Turret mounted planetary gear hoist hydraulically powered with a bare-drum line pull of 10,000 lbs (4,536 kg) at a speed of 110 FPM (34 m/min). Includes downhaul weight, swivel hook & sheave block for 2-part line and 125 ft (38 m) of 9/16" (14 mm) hoist rope.

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.

Rated Capacity Limiter:

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

Drum Rotation Indicator:

Provides tactile feedback to operator when hoist drum is rotating.



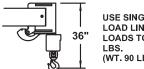
	CAPA	CITIES APPL	Y TO OPERA	TION C	ON FIR	M LEVEL	SUI	RFACE
	LOAD	MAIN BOOM	OR EXTENSIO	ON CAPA	CITIES	IN POUNDS	;	
	RADIUS	360°	ROTATION			OVER I	FRO	NT
	FEET	ON RUBBER	ON OUTRI	GGERS	ON F	RUBBER	ON	OUTRIGGERS
	5	9600	1700	0	1	1700		18000
Σ	6	7900	1450	0	1	0400		14500
0	8	5750	1025	i0	8	400		10250
l o	10	4150	770	0	6	300		7700
m	12	3100	655	0	4	650		6550
Z	14	2425	555	0	3	750		5550
⋖	16	2000	465	0	3	100		4650
Σ	18	1700	410	0	2	650		4150
	20	1450	355	0	2	300		3800
	22	1275	300	0	2	000		3000
1	24	1075	280	0	1	725		2800
	26	925	250	0	1	500		2600
l 🔐	28	775	220	0	1	300		2400
Σ	30	675	200	0	1	150		2250
ō	BOOM	10-FOOT BO	OM EXTENSIO	N - STR	AIGHT (OR OFFSET		
0	EXT		MA	IN BOOI	VI ANGL	E		
E E E	ANGLE	0°	30°	45	i°	60°		70°
- 2	*† 0°	2250	2600	320	00	5000		7000
	t15°		2400	27(00	3500		4200
	†30°		2250	250	00	3000		3300

★USE 0° FOR STRAIGHT BOOM EXTENSION. **1**USE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.

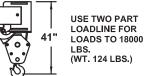
LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED.

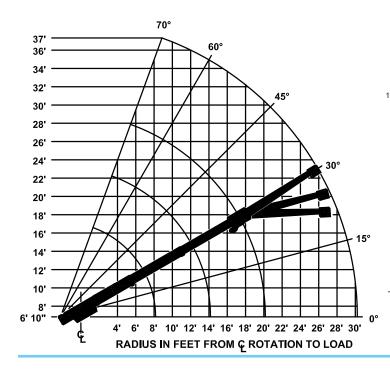
EXCEEDING CAPACITY RATINGS OR APPLYING SIDE L2ADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZARDOUS, AND VOIDS WARRANTY.

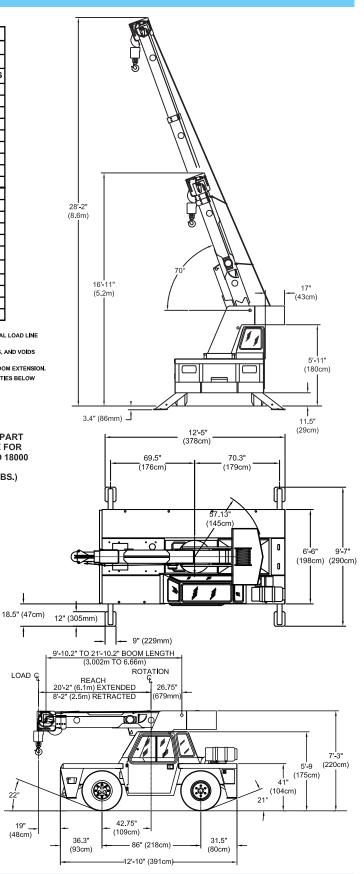
CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK & CARRY WITH LOADS ON BOOM EXTENSION. CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINE ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.









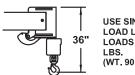


IC-80-2J

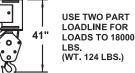
	CAPA	CITIES APPLY	TO OPERA	TION ON	FIRM LEV	EL SURFACE	
	LOAD	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS					
	RADIUS	360° RC	DTATION		OVER FRONT		
	FEET	ON RUBBER	ON OUTRIGG	ERS ON	RUBBER	ON OUTRIGGERS	
	5	9500	17000	1	1600	18000	
	6	7800	14500	1	0200	14500	
Σ	8	5650	10250		8250	10250	
0	10	4000	7700		6200	7700	
0	12	3000	6550		4650	6550	
ß	14	2350	5550		3650	5550	
z	16	1900	4550		2950	4550	
2	18	1600	3950		2500	4050	
ΜA	20	1350	3350		2150	3650	
2	22	1150	2950		1850	3300	
	24	4 1000 2550			1650	3100	
	26	850	2450		1450	2750	
Ë.	28	725	2175		1275	2500	
× ш	30	625 525	1900		1125	2300	
	32		1725	1725 1000		2100	
Σ	34	425	1500		900	1950	
0	BOOM	10-FOOT BO	OOM EXTEN	ISION - ST	FRAIGHT	OR OFFSET	
Ó	EXT.	MAIN BOOM ANGLE					
ш	ANGLE	0°	30°	45°	60°	70°	
	*t 0°	2250	2600	3200	5000	7000	
-	t15°		2400	2700	3500	4200	
	†30°		2250	2500	3000	3300	

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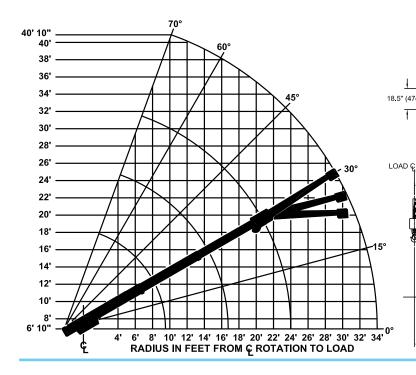
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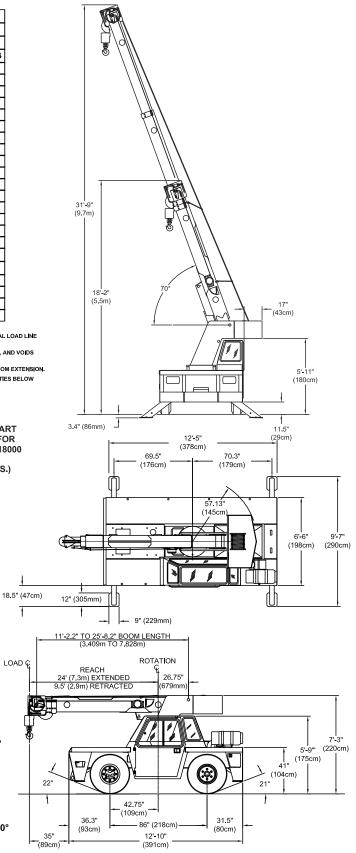




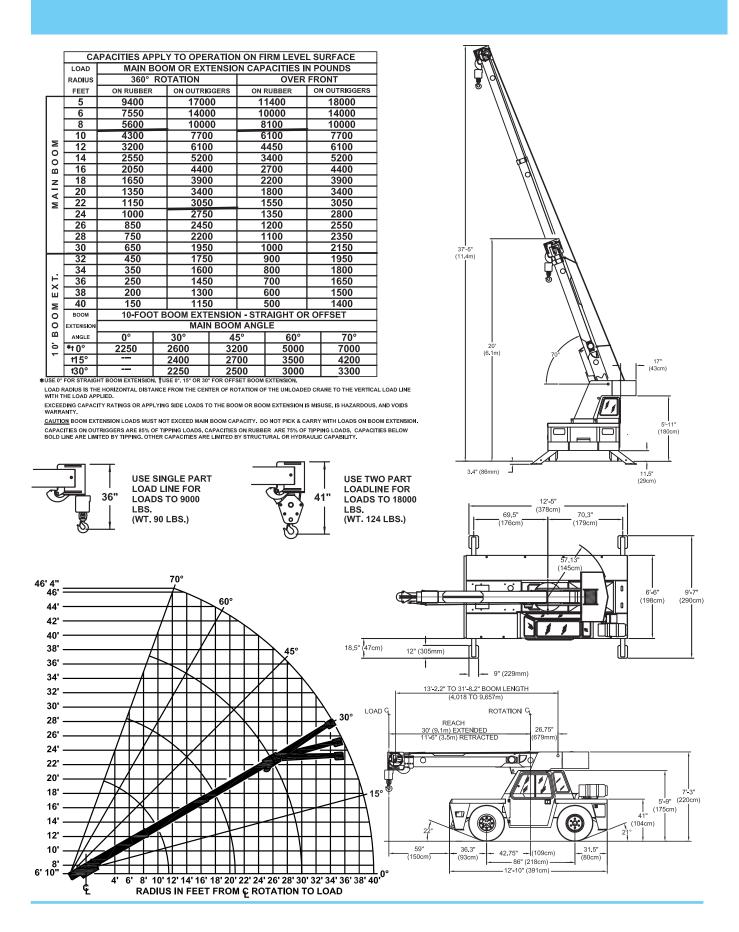


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IC-80-3J



IC-80-J

Listed below are brief descriptions of options available for this product. Consult the IC-80-J Engineering Spec for additional information.

MODELS:

IC-80-1J Industrial Crane with 8'2" (2.5 m) - 20'2" (6.1 m) Boom Reach IC-80-2J Industrial Crane with 9'6" (2.9 m) - 24' (7.3 m) Boom Reach IC-80-3J Industrial Crane with 11'6" (3.5 m) - 30' (9.1 m) Boom Reach

ENGINE:

Spark Arrester Muffler:

Installed in addition to std. muffler. Catalytic Converter:

Reduces engine emissions.

Engine Heater:

Engine coolant heater installed to circulate warm water through engine. Plugs into120 volt AC. 1,500 watts.

TIRE OPTIONS:

Mining & Industrial Tires: 36 x 11-15, 16-Ply Rating 36 x 11-15, Non Marking Solid Rubber Tires, 8.25 x 15 Foam Filling of Tires Spare Tire & Wheel: Bias 10.0 x 15 Mining & Industrial, 36 x 11-15 Mining & Industrial, Non Marking

CHASSIS OPTIONS: Auxiliary Winch:

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

Pintle Hook:

Pintle Hook, Rear

Pintle Hook, Front 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 which goes over Operator Guard, for inclement weather operations.

All-Weather Cab:

Rigid-mounted canopy section & 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:

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.

Deluxe Seat:

Deluxe Seat with upholstery springs

provides additional operator comfort.

Noise Reduction Kit:

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

Air Conditioning:

Air Conditioner with R134 coolant.

ELECTRICAL OPTIONS:

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.

Work Lights-Rear:

Two work lights recessed in rear bumper.

BOOM ATTACHMENTS:

Boom Extension, 10 Foot (3 m):

Boom stowable.

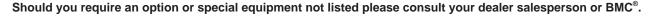
Boom Extension, 10 Foot (3 m)

Offsettable:

Same as above item, except the boom extension is offsettable to 3 different positions; 0 degrees (inline), 15 degrees and 30 degrees offset.

Searcher Hook:

Nose Mount



BRODERSON® Manufacturing Corp. P0 Box 14770 Lenexa Kansas 66285 Tel (913) 888-0606 Fax (913) 888-8431 www.broderson.net Dimensions and values shown are for reference purposes only. Specifications subject to change.



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