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Replaces ic80k-es_1_19 **Dated** January 2019

The IC-80-L is a self-propelled Industrial Crane designed for in-plant lifting and material handling applications, with special features of low height, narrow width, short length, cargo deck, and standard 4-wheel steer and front-wheel drive. The chassis includes a frame, four independently controlled hydraulic outriggers, engine, torque converter, 4-speed powershift transmission, front planetary drive/steer and rear steer axles, fuel tank, hydraulic tank, control station, and full power steering. The boom assembly includes a hydraulic powered, continuous rotation turret, 3-section boom, hydraulic boom elevating cylinder, hydraulic boom telescoping cylinders, and hydraulic powered hoist. Rated Capacity Limiter is standard.

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IC-80-1L:

3-section hydraulically extended boom with capacity of 18,000 pounds (8,160 kg) at a 5-foot load (1.5 m) load radius.

IC-80-2L

3-section hydraulically extended boom with capacity of 18,000 pounds (8,160 kg) at a 5-foot load (1.5 m) radius.

IC-80-3L:

3-section hydraulically extended boom with capacity of 18,000 pounds (8,160 kg) at a 5-foot load (1.5 m) radius.

GENERAL:

Length:

 IC-80-1L
 14 feet, 9 inches (4.49 m)

 IC-80-2L
 16 feet, 1 inch (4.9 m)

 IC-80-3L
 18 feet, 1 inch (5.51 m)

Width: 6 feet, 6 inches (198 cm)

Height:

 Överall
 7 feet, 3 inches (220 cm)

 Deck
 41 inches (104 cm)

Wheelbase: 86 inches (218 cm)

Ground Clearance:

Chassis 11.5 inches (29 cm) Minimum (muffler) 5.75 inches (14 cm)

Angle of Approach: 22 degrees

Angle of Departure: 21 degrees

Outriggers:

Spread 9 feet, 7 inches (290 cm)
Penetration 3.4 inches (86 mm)



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BOOM MOVEMEN	T	٠:
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 IC-80-1L
 IC-80-2L
 IC-80-3L

 Continuous
 Continuous
 Continuous

 0° to 70°
 0° to 70°
 0° to 70°

Telescope 12 feet (3.66 m) Hyd. 14.5 feet (4.42 m) Hyd. 18.5 feet (5.64 m) Hyd.

BOOM SPEEDS:

Rotation

Elevation

Rotation 2 RPM 2 RPM 2 RPM Elevation 12 seconds 12 seconds 12 seconds Telescope 17 seconds 21 seconds 27 seconds

Sheave Height: (Nominal)

W/O Boom Extension 28 feet, 2 inches (8.6 m) 31 feet, 9 inches (9.7 m) 37 feet, 5 inches (11.4 m) With Boom Extension 37 feet, 5 inches (11.4 m) 41 feet (12.5 m) 46 feet, 8 inches (14.2 m)

Horizontal Reach:

 W/O Boom Extension
 20 feet, 2 inches (6.1 m)
 24 feet (7.3 m)
 30 feet (9.1 m)

 With Boom Extension
 30 feet, 2 inches (9.2 m)
 34 feet (10.3 m)
 40 feet (12.1 m)

Weight: (Nominal)

 2-Wheel Drive*
 16,200 pounds (7,350 kg)
 16,400 pounds (7,440 kg)
 16,750 pounds (7,600 kg)

 Front Axle
 7,325 pounds (3,325 kg)
 7,650 pounds (3,470 kg)
 8,325 pounds (3,775 kg)

 Rear Axle
 8,875 pounds (4,025 kg)
 8,750 pounds (3,970 kg)
 8,425 pounds (3,825 kg)

*With GM 3.0L gasoline engine

Steering:

Turning Radius 12 feet, 9 inches (3.89 m) (4-Wheel Steer)

Aisle Width for 90° Turn 9 feet, 7 inches (2.92 m)

Steering Modes Rear Steer, Round Steer, Crab Steer

Road Speed 22 mph (35.4 km/h)

Drawbar Pull 15,500 pounds 1 (7,030 kg)

Gradeability 63 percent₁ (32 degrees)

Grade Limit 15 percent₁ (8.5 degrees)

ENGINE:

Standard Gasoline:

GM 3.0L EPA Tier II w/ Dual Fuel

GM Model 3.0L industrial gasoline engine with multi-port electronic fuel injection, dual fuel, catalytic converter, and engine management system. Water cooled, 4-cylinder, 181 CID (3.0 L), bore 4.00 inches (102 mm), stroke 3.60 inches (91 mm), 59 HP (44 kW) at governed speed of 2,500 RPM. Maximum torque, 138 pounds-foot (187 Nm) at 1,600 RPM. Also includes special exhaust valves, seats, and valve rotators for use with LPG, 70-amp alternator, 17.6-gallon (66.6 L) fuel tank and 33-pounds (15 kg) LPG tank. High temperature and low oil pressure shutdown is included in engine management system. Throttle control switch for setting engine speed at 1,200 or 1,800 RPM.

Optional Engines and Engine Accessories:

Diesel Engine:

Kubota V3307 T4F Diesel

Kubota V3307 diesel industrial engine. Water cooled, 4-cylinder, 203.27 CID (3.33 L), bore 3.7 inches (94 mm), stroke 4.72 inches (120 mm), 74.3 HP (55.4 kW) at governed speed of 2,600 RPM. Maximum torque, 265 footpounds (359.3 Nm) at 1,500 RPM. 100-amp alternator included. 17.6-gallon (66.6 L) fuel tank. Net Weight: 181 pounds (82 kg).

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Engine Heater:

Engine coolant heater installed with hoses in coolant system to circulate warm water through engine. Plugs into 120-volt AC extension cord. 1,500 watts.

TRANSMISSION:

Standard:

Powershift transmission with four speeds in 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. Multiple-disc clutch packs operated by solenoid valves provide forward, neutral, reverse, and speed selection. Equipped with oil cooler and filter.

STANDARD

4X2 GAS 4X2 DIESEL

Transmission Gear	Ratios	Travel Speed	Drawbar Pull	Travel Speed	Drawbar Pull
G ea.	Hatios	Travel opeca	Drawbar r an	. rave. speed	Drawbar r an
1st	5.72/1	4 mph (6 km/h)	9,500 lbs (4,300 kg)	4 mph (6 km/h)	10,500 lbs (4,800 kg)
2nd	3.23/1	7 mph (11 km/h)	5,500 lbs (2,500 kg)	7 mph (11 km/h)	6,000 lbs (2,700 kg)
3rd	1.77/1	12 mph (19 km/h)	3,000 lbs (1,300 kg)	13 mph (21 km/h)	3,500 lbs (1,600 kg)
4th	1.00/1	19 mph (31 km/h)	1,800 lbs (800 kg)	21 mph (34 km/h)	2,000 lbs (900 kg)

(Calculated values, wheels may spin before these values are reached).

TORQUE CONVERTER:

Stall torque ratio of 2.2/1. Attached to engine flywheel.

FRONT AXLE:

Standard:

Planetary drive axle with 11.625/1 ratio. Differential is "No Spin". Front axle is mounted rigidly to frame.

REAR AXLE:

Standard:

Drop-center axle beam casting with 1½ degree oscillation in either direction.

STEERING:

Standard:

Hydraulic steering unit with one double-rod cylinder on rear axle and one double-rod cylinder on front axle. Allows limited steering when engine is not running. Rear axle is the primary steer. An electric switch in the operator's compartment 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:

Standard:

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

TIRES:

10:00 x 15, 16-ply, highway type tread.

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Tire Options:

Mining and Industrial Tires:

36 X 11-15, 16-ply rating pneumatic tires. Net Weight: 120 pounds (57 kg).

Mining and Industrial Tires, Non-marking for 4x2:

10.00 x 15, 16-ply rating pneumatic tires, Net Weight: 120 pounds (57 kg).

Solid Rubber Tires:

 $8:25 \times 15$. These tires will reduce overall height and ground clearance- by $1\frac{1}{2}$ inches (3.8 cm). Net Weight: 400 pounds (181 kg).

Foam Filling of Tires:

10.00 x 15, All four tires foam filled. Net Weight: 900 pounds (408 kg).

Spare Tire and Wheel Mounted:

Highway Tread: 10.00 x 15, 16-ply, Radial: Net weight: 163 pounds (74 kg).

Mining and Industrial Tire: Net weight: 193 pounds (88 kg).

Mining and Industrial Tire: Non-Marking: Net weight: 193 pounds (88 kg).

CHASSIS:

Standard:

Cargo Deck:

Total Deck Area: 53 square feet (5 m²). A maximum of 14,000 pounds (6,350 kg) may be carried on the deck when centered over or between axles. Seven stake pockets are provided along edges of deck for 1.3-inch (34 mm) pipe stakes. Stakes furnished. Cargo decks have skid resistant coating. Heavy deck loads allowed at creep speed below 2 MPH (3.2 km/h) and less than 200 feet (61 m) in 30 minutes.

Fire Extinguisher:

1-A:10-BC, 2½ pound (1.1kg) dry chemical. Mounted in operator's compartment.

Lifting Rings:

Consists of four rings, one at each corner of the load deck, so sling can be attached for lifting crane. Rings hang below deck surface when not in use.

Tie Downs:

Two holes in the rear bumper (in conjunction with the pulling eyes) provide tie down locations for transporting crane by truck or cargo container.

Steps:

A step is located on each front corner providing access to deck area.

Battery:

Located behind door on left hand rear corner of chassis. Compartment available on right hand rear corner of chassis for second battery if necessary.

Outriggers:

Four hydraulic outriggers of box-beam construction. Independent controls for each outrigger. Hydraulic cylinders are equipped with direct-connected holding valves. Pad dimensions: 9 inches (23 cm) x 12 inches (30 cm).

Pulling Eyes:

Two heavy eyes on front bumper provide for attachment of hook block so main winch line can be used for pulling loads at or near floor level.

Vandalism Protection:

Lockable hood for protection of engine compartment.

Accessory Storage Box:

Consists of box under front deck plate for carrying sheave block and other items. Flush fitting cover is lockable. Storage box is 14 inches deep (35.6 cm) x 10.5 inches wide (26 cm) x 27 inches (68 cm) long.

Headlight and Taillight Grilles:

Consists of welded steel protective grilles for headlights and taillights. Easily removable for replacing bulbs.

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Chassis Options and Accessories:

Auxiliary Winch:

Optional worm gear winch, mounted behind front bumper, with a lever control at the operator's console. Hydraulic powered to provide bare drum line pull of 5,000 pounds (2,260 kg) at 46 feet per minute (14 m/min). Winch drum is 3½ inches (90 mm) diameter by 11 inches (279 mm) long. This winch includes 75 feet (23 m) of 3/8 inch (9.5 mm) wire rope, hook and four-way roller guide. Net Weight: 100 pounds (45 kg).

Pintle Hook - Rear:

T-60-A Holland pintle hook mounted on rear frame member provides capacity for 2,000 lbs (900 kg) tongue weight and 10,000 lbs (4,530 kg) trailer weight. Net Weight: 10 pounds (5 kg).

Pintle Hook - Front:

T-60-A Holland pintle hook mounted on front frame member. Provides same capacity as rear pintle hook. Net Weight: 25 pounds (11 kg).

Rearview Mirrors:

One right-hand and one left-hand mirror, 6 inches (152 mm) wide x 16 inches (406 mm) high, mounted on deck stakes. Pivot out of way when contacted by obstacle at side of deck. Net Weight: 12 pounds (5 kg).

OPERATOR COMPARTMENT:

Standard:

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

Drum Rotation Indicator:

Provides tactile feedback to operator when hoist drum is rotating. Feedback device attached to hoist control handle. Feedback is proportional to hoist speed.

Operator's Compartment Options & Accessories:

Operator Guard (Not Available with Cab):

Tubular steel weldment with heavy expanded steel mesh top section, bolts over the operator's compartment. Net Weight: 55 pounds (25 kg).

Operator's Guard Door:

Hinged door covers operator compartment side opening. Has latch handle outside and knob inside. Rubber gasket contacts chassis. Net Weight: 40 pounds (18 kg).

All Weather Cab:

Consists of rigid mounted canopy section and removable hinged door with safety glass. Rugged canopy structure with laminated glass front and top. Top glass is 3/8 inch thick. Door is equipped with a keyed lock to protect operator's station. Includes defroster fan, 24,000 BTU heater with two-speed fan, and 12V electric windshield wiper. There are sliding windows in the door and right-hand side. Dome light is included for operator's convenience. Net Weight: 215 pounds (98 kg).

Cab Heater Only:

Provides 24,000 BTU heater with two-speed fan for units without All Weather Cab. Net Weight: 12 pounds (5 kg).

Windshield Washer:

Provides reservoir, pump, and nozzle for windshield washer.

Floor Mat:

Vinyl mat with foam backing covers floor, front wall, and lower portion of right-hand wall of operator's compartment.

Deluxe Seat:

Deluxe seat with upholstery springs provides additional operator comfort. Net Weight: 15 pounds (7 kg).

Noise Reduction Kit - Cab:

Includes rubber floor mats and control valve cover and side panels of foam-backed perforated vinyl for noise reduction. Net Weight: 13 pounds (6 kg).

Air Conditioning:

Complete system using 134a coolant has combination cooling and heating unit in cab. Net Weight: 125 pounds (57 kg).

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ELECTRICAL SYSTEM:

Standard:

12-Volt Battery:

Gas Units: Group 27 with 540 CCA rating. Diesel Units: Group 31 with 950 CCA rating.

Instrument Group:

Located at operator's station and includes fuel gauge, hourmeter and bubble level. Hourmeter records hours only during actual engine operation. 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, engine oil pressure, transmission temperature, and outriggers.

Lighting Group:

Consists of two 12V lamps, with high and low beams for driving; integral tail, brake and turn signal lights and backup lights in rear; front turn signals and emergency flasher switch at operator's station. 12V horn actuated by button located on shifting control.

Back-Up Alarm:

Provides pulsating sound from a 102 dB alarm when ignition is on and transmission is in reverse. Conforms to SAE J994b.

Outrigger Alarm System:

102 dB alarm with alternating two-tone sound is actuated by a switch when the OUTRIGGER DOWN controls are operated.

Optional Electrical Accessories:

Strobe Lights:

Two yellow strobe lights, one on each side of turret weight box, for high visibility all around crane. Flash 60-120 times per minute. Each strobe draws only one-half amp. Includes operator-controlled switch.

Boom Work Lights:

Two work lights, one on left side of boom to light boom tip, and one on right side of the turret to light ground under boom tip. Includes switch at operator's station. Net Weight: 10 pounds (5 kg)

Work Light Rear:

Two work lights recessed into rear bumper. Provides lighted work area to rear of machine.

HYDRAULIC SYSTEM:

Standard:

Tandem pump, direct-driven by engine crankshaft, delivers 16 GPM (61 L/min) at 2,600 PSI (179 bar) and 32 GPM (121 L/min) at 2,500 PSI (172 bar) at 2,500 RPM governed engine speed. System protected by relief valves, suction line strainer and 10-micron full-flow return line filter. 25-gallon (95 L) reservoir equipped with filler cap and breather element.

BOOM ASSEMBLY:

Standard:

Three-section, high strength steel construction, equipped with bearing pads for efficient support and extension. Double-acting hydraulic cylinders extend boom sections. Telescope cylinder and the boom elevation cylinder are equipped with direct-connected holding valves. Boom angle indicator on side of boom.

BOOM ROTATION:

Standard:

Heavy-duty bearing rotation gear with external teeth supports boom. Rotation is powered by hydraulic motor and worm gear drive. Rotation gearbox may be adjusted as wear occurs to minimize backlash. Boom is attached by high strength steel weldment.

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Main Hoist:

Standard:

Turret-mounted, planetary gear hoist, is hydraulically-powered to provide a bare-drum line pull of 10,000 lbs (4,536 kg) at a speed of 110 feet-per-minute (34 m/min). Hoist drum 9 3/4 inch (248 mm) diameter by 13 inches (330 mm) long. Provides even pull and long cable life.

Main Hoist Rope:

Standard:

Main hoist ropr is 9/16 inch (14 mm) diameter. Warrington-Seale construction, 6x36 classification, EIP grade, IWRC core, RRL lay, minimum breaking strength 31,500 lbs (140 kN), 125 feet (38 m) long. Weight per foot is 0.6 lbs (0.9 kg per m). Note that rope weight is not included in load calculations.

BOOM ATTACHMENTS:

Standard:

Anti-Two-Block Device:

Prevents damage to hoist rope and/or machine components from accidentally pulling sheave block or downhaul weight against boom tip. Consists of trip arm at boom tip which is moved upward by sheave block or downhaul weight as hook approaches boom tip. Trip arm actuates electric switch which is connected through cable reel mounted on boom to solenoid dump valve in the hydraulic circuit. This valve will dump the HOIST RAISE, TELESCOPE EXTEND, BOOM LOWER, SWING LEFT, and SWING RIGHT circuits. No other circuits are affected. These circuits are returned to normal operation by operating the HOIST LOWER or TELESCOPE RETRACT control.

Rated Capacity Limiter:

Operator's aid that warns operator of impending overload with audible and visual signals. Has read-outs for load, boom angle, boom length and load radius. In the event of an overload, dumps the following boom functions: HOIST RAISE, TELESCOPE EXTEND, BOOM LOWER, SWING LEFT, and SWING RIGHT. These circuits are returned to normal by lowering load to a safe resting place with hoist or by retracting or raising boom to a shorter load radius. There is also an override switch under the dashboard.

Sheave Block and Downhaul Weight:

A 124-pound (56 kg) sheave block is provided for two-part line requirements. Block is shorter than normal, 21.5 inches (546 mm) from top to saddle of load hook. 10 inch (254 mm) O.D. sheave for 9/16 inch (14 mm) rope. Has swivel hook with safety latch. A 90-pound (41 kg) downhaul weight and swivel hook are also provided for single-part line.

Optional Boom Attachments:

Boom Extension - 10 Ft (3 m):

Provides 10 feet (3 m) of additional length for lifting loads with load line. Boom extension may be stowed alongside base boom section when not in use. Tip sheave, attaching brackets and pins included. Deduct 100 pounds (45 kg) from Capacity Chart when boom extension is in the stowed position. Includes switch for Anti-Two-Block. Net Weight: 300 pounds (136 kg).

Boom Extension - 10 Ft (3m) Offset:

Provides 10 feet of additional length for lifting loads with load line. Boom extension may be stowed alongside base boom section when not in use. Tip sheave, attaching brackets and pins included. Deduct 350 pounds (160 kg) from Capacity Chart when boom extension is in the stowed position. Includes trip arm for Anti-Two-Block device. Boom extension will tilt through three positions, in line, 15 degree offset and 30 degree offset. Net Weight: 350 pounds (159 kg).

Searcher Hook: (Nose Mount)

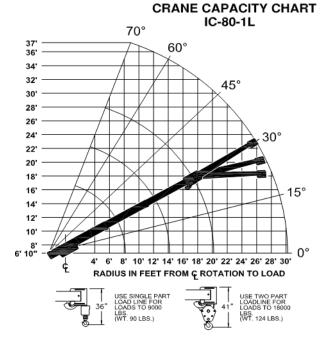
5,000-pound (2,268 kg) capacity. Swivel hook with spring latch hangs from support structure projecting outward from boom tip. Net Weight: 41 pounds (19 kg).

Specifications subject to change without notice.

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

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Date



	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE									
	LOAD	MAIN BOOM	OR EXTENSIO	N CAPA	CITIES	IN POUNDS	3			
	RADIUS	360°	ROTATION		OVER FRONT					
	FEET	ON RUBBER	ON OUTRI	GGERS	ON F	ON RUBBER		OUTRIGGERS		
	5	9600	1700	0	1	1700		18000		
≥	6	7900	1450	0	1	0400		14500		
0	8	5750	1025	0	8	400		10250		
0	10	4150	7700)	е	300		7700		
ω	12	3100	6550)	4	650		6550		
Z	14	5550)	3	750	5550				
⋖	16	2000	4650	4650		3100		4650		
Σ	18	1700	4100	4100		2650		4150		
	20	1450	3550)	2300		3800			
	22	1275	3000)	2000		3000			
Ι	24	1075	2800	2800		1725		2800		
×	26	925	2500)	1500		2600			
Ιŵ	28	775	2200)	1	300		2400		
Ξ	30	675	2000)	1	150		2250		
0	воом	10-FOOT BC	OM EXTENSIO	N - STR	AIGHT (OR OFFSET				
0	EXT		MA	IN BOO	M ANGL	E				
8	ANGLE	0°	30°	45	5°	60°		70°		
0,	*† 0°	2250	2600	32	00	5000		7000		
[†15°		2400	27	00	3500		4200		
	†30°		2250	25	00	3000		3300		

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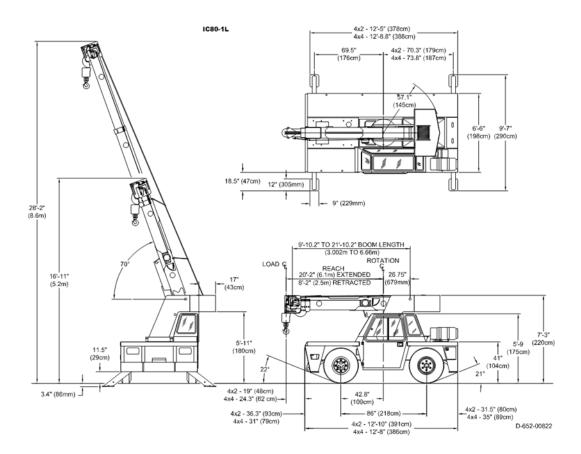
TUSE 01, 151 OR 301 FOR OFFSET BOOM EXTENSION.

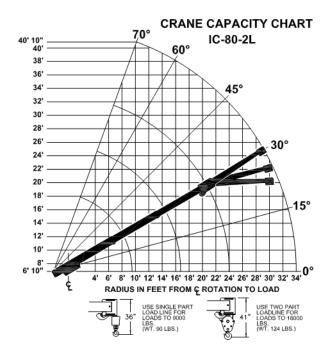
LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED.

EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS 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





CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE									
	LOAD	MAIN BOOM		ENSIO	N CAI				
	RADIUS	360° RO	TATION		OVER FRONT				
	FEET	ON RUBBER	ON OUTRIG	GERS	ON F	RUBBER		OUTRIGGERS	
	5	9500	1700	0	11	1600		18000	
	6	7800	1450	14500		0200		14500	
IΣ	8	5650	1025	0	8	250		10250	
0	10	4000	7700)	6	200		7700	
0	12	3000	6550)	4	650		6550	
<u> </u>	14	2350	5550	5550		3650		5550	
z	16	1900	4550		2950		4550		
₹	18	1600	3950)	2	2500		4050	
ΙÈ	20	1350	3350		2150			3650	
-	22	1150	2950)	1850			3300	
	24	1000	2550)	1650		3100		
	26	850	2450		1450			2750	
≓	28	725	2175		1275 1125		2500		
×	30	625	1900	_			2300		
ш	32	525	1725	5	1	000	2100		
Ι Σ	34	425	1500)		900	1950		
0	BOOM	10-FOOT BO	OOM EXTE	NSIO	N - ST	RAIGHT	OR	OFFSET	
0	EXT.		MA	IN BO	OOM ANGLE				
a a	ANGLE	0°	30°	45	5°	60°		70°	
l 8	*† 0°	2250	2600	32	00	5000		7000	
-	†15°		2400	27	00	3500		4200	
	†30°		2250	25	00	3000		3300	

*USE 0 FOR STRAIGHT BOOMEXTENSION.

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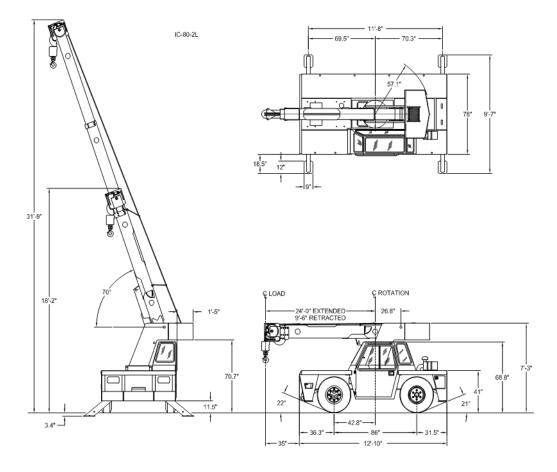
TUSE 0", 15" OR 30" FOR OFFSET BOOM EXTENSION.

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

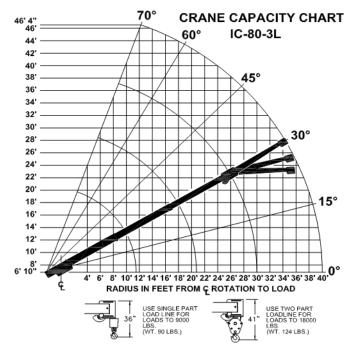
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CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK & CARRY WITH LOADS ON BOOM EXTENSION.

CAPACITIES ON OUTRIGGERS ARE 55% 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.



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		PACITIES AP										
	LOAD											
	RADIUS	360° I	ROTATION		OVER FRONT							
	FEET	ON RUBBER	ON OUTRIC		ONI	RUBBER	ON	OUTRIGGERS				
	5	9400	1700	0	1	1400		18000				
l	6	7550	1400			0000		14000				
l	8	5600	1000	10	8	100		10000				
۱_	10	4300	770	0		100		7700				
≥ 0	12	3200	610	0	4	450		6100				
١ŏ	14	2550	520	0	3	400		5200				
m	16	2050	440	0	2	700	4400					
z	18	1650	390	3900		2200		3900				
-	20	1350	340	3400		1800		3400				
ì	22	1150	305	3050		1550		3050				
-	24	1000	275	2750		1350		2800				
l	26	850	245	0	1200			2550				
l	28	750	220	2200		100		2350				
	30	650		1950		1000		2150				
	32	450	175	0	900		1950					
Ι.	34	350	160	0	800		1800					
l ×	36	250	145	1450		700		1650				
lω	38	200	130	0	- (600	1500					
Ξ	40	150	1150	0		500		1400				
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0	EXTENSION			I BOOI	/I ANG	LE						
m	ANGLE	0°	30°	4	5°	60°		70°				
9	*t 0°	2250	2600	32	00	5000		7000				
Ι-	115°		2400	27	00	3500		4200				
ı	130°		2250	25	00	3000		3300				

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Date

USE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.

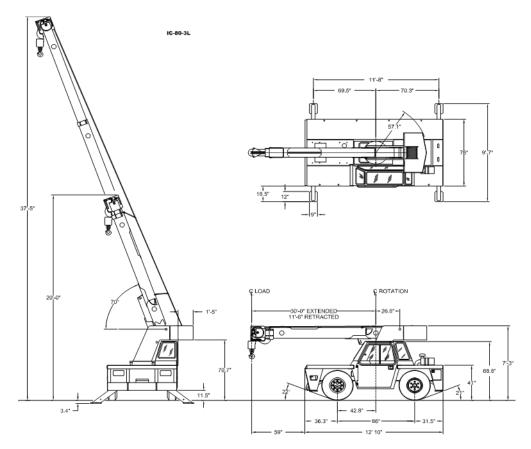
I USB 0". 15" OR 30" FOR OFFISET BOOM EXTENSION.

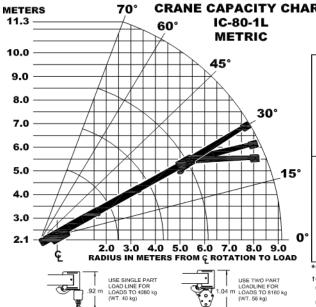
LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED.

EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS MAZARDOUS, AND VOIGS WARRANTY.

CALITION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. DO NOT PICK & CARRY WITH LOADS ON BOOM EXTENSION.

CAPACITIES ON OUTSIGGERS ARE 55% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75%, OF TIPPING LOADS. CAPACITIES SHOW EXCELLINE AND LINE ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.





RT CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE										
	LOAD		M OR EXTE							
	RADIUS	360°	ROTATION		OVER FRONT					
	METERS	METERS ON RUBBER		ON OUTRIGGERS		ON RUBBER		OUTRIGGERS		
	1.5	4350	7710)	5	300		8160		
_	2.0	3290	5980		4	460		5980		
Σ 0	2.5	2520	4480)	3	710		4480		
0	3.0	1920	3540		2	930		3540		
l m	3.5	1500	3090)	2260 1850		3090 2710			
z	4.0	1210	2710)						
Ā	4.5	1010	2350	2350		1580		2350		
Μ	5.0	870	2050		1360		2050			
_	5.5	760	1850)	1	190		1870		
	6.0	670	1640)	1	060	1750			
	6.5	600	1390	1390		950		1390		
l ⊢:	7.0	530	1310)		840	1310			
×	8.0	410	1110)		660		1160		
ш	9.1	300	900		520		1020			
Σ	воом	3 ME	TER BOOM EX	TENSIO	N - STR	AIGHT OR	OFF:	SET		
00	EXT		MA	IN BOO	M ANGL	.E				
9	ANGLE	0°	30°	45	5°	60°		70°		
ε	*† 0°	1020	1180	14	50	2260		3170		
3	†15°		1090	12	20	1580	1900			
	†30°		1020	113	30	1360				

USE 0 FOR STRAIGHT BOOM EXTENSION.

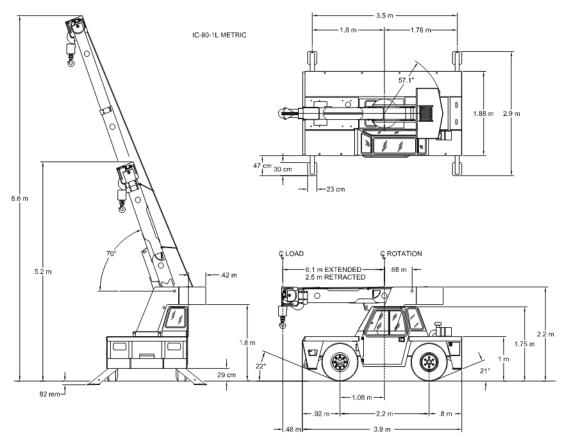
TUSE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.

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

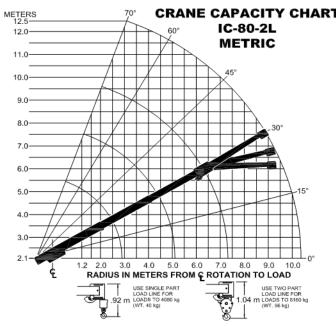
EXCEEDING CAPACITY RATINGS OR APPLYING SIDE LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZARDOUS, AND VOIDS WARRANTY.

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.



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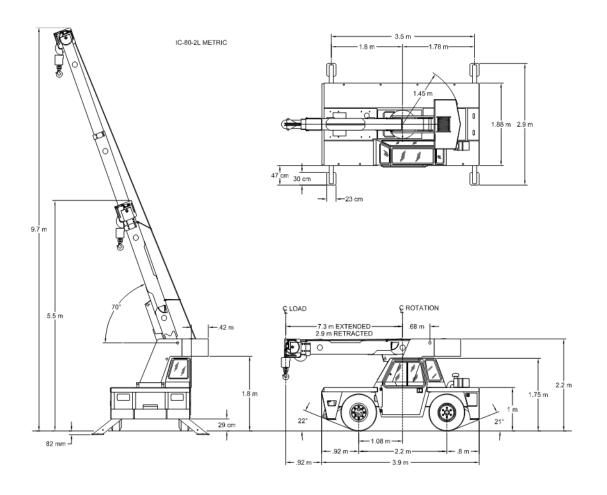
Г	CAPA	CITIES APPLY	TO OPERA	ATION ON	FIRM LEV	EL SURFACE	
	LOAD	MAIN BOOM C	R EXTENS	ION CAPA	ACITIES IN	KILOGRAMS	
	RADIUS	360° RO	TATION		OVER FR	RONT	
	METERS	ON RUBBER	ON OUTRIGO	ERS ON	RUBBER	ON OUTRIGGERS	
	1.5	4310	7710		5260	8160	
	2.0	3250	5990	- 1	4380	5990	
Σ	2.5	2480	4480	. ;	3640	4500	
0	3.0	1860	3540		2870	3540	
0	3.5	1460	3090		2260	3090	
ω.	4.0	1170	2720		1830	2720	
z	4.5	980	2340		1520	2340	
=	5.0	830	2000		1290	2000	
4	5.5	720	1780		1130	1830	
Σ	6.0	630	1560		1000	1680	
	6.5	550	1400		880	1550	
	7.3	450	1150		750	1400	
	8.0	380	1100		650	1230	
	9.0	290	890		530	1060	
×	10.0	220	740		430	920	
1 -	10.4	190	680		410	880	
Σ	воом	3 METER BO	DOM EXTE	NSION - S	TRAIGHT (OR OFFSET	
00	EXT.		MAI	N BOOM A	ANGLE		
8	ANGLE	0°	30°	45°	60°	70°	
E	*t 0°	1020	1180	1450	2260	3170	
3 "	†15°		1090	1220	1580	1900	
(,,	†30°		1020	1130	1360	1490	

MUSE 0" FOR STRAIGHT BOOM EXTENSION.

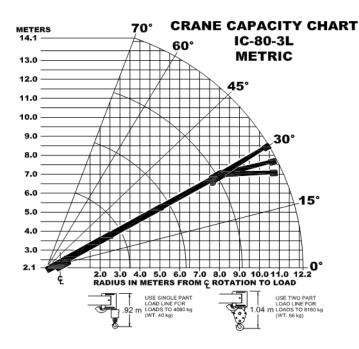
TUSE 01, 151 OR 301 FOR OFFSET BOOM EXTENSION

VOIL OF THE WAY FOR THE PROPERT BOOKS BEFORE THE BESTER OF PROTATION OF THE UNLOADED CRANE TO THE LOAD RAZILUS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED CRANE TO THE EXCELEDING CAPACITY HAT INIS OR APPLYING SIDE LOADS TO THE BOOM ON BOOM EXTENSION IS MISURE, IS HAZARDOUS AND VIOLD WARRANTY.

CAPACITIES ON OUTRIGGERS ARE 56% 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 CAPACITIES ARE



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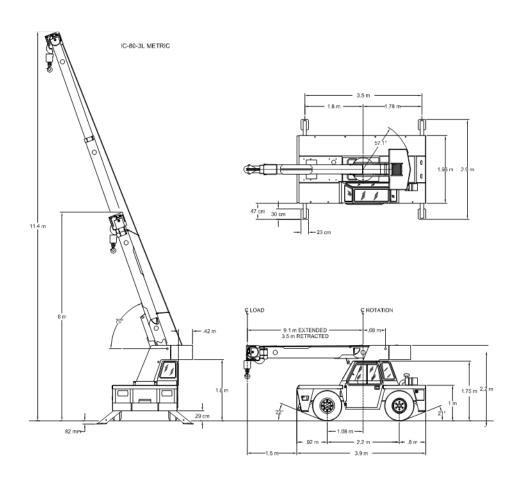
	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE LOAD MAIN BOOM OR EXTENSION CAPACITIES IN KILOGRAMS									
	RADIUS		ROTATION	CAPA	OVER FRONT					
		ON RUBBER		ON OUTRIGGERS		ON RUBBER		OUTRIGGERS		
_	METERS	01111000011	011 0 0 11111	0.000110		10000	ON			
ı	1.5	4260	771			170	-	8160		
l	2.0	3140	579			290	\vdash	5790		
ı	2.5	2470	440			580	_	4400		
l	3.0	1990	356			830	\vdash	3560		
Σ	3.5	1560	291			180	\perp	2910		
0	4.0	1270	252	0		720		2520		
0	4.5	1060	221	0	1	400		2210		
m	5.0	890	195	1950 1760		1170 990		1950		
ΙZ	5.5	740	176					1760		
⋖	6.0	630	157	0	840 730 650 580 530			1570		
Σ	6.5	540	143	0				1430		
l	7.0	480	132	0				1330		
l	7.5	430	120	0				1230		
l	8.0	380	109	0			П	1140		
l	8.5	340	100	0	500		-	1070		
	9.0	290	910		460			990		
l≓	10.0	180	760)	390			850		
×	11.0	110	650)	- (310		740		
ш	12.2	60	520		- 2	220		630		
Σ	BOOM	3 METE	R BOOM EXT	rensio	N - STI	RAIGHT C	RO	FFSET		
8	EXTENSION		MAII	BOOM	OM ANGLE					
l۵	ANGLE	0°	30°	45	5°	60°		70°		
Ε	*+ 0°	1020	1180	14	50	2260	\neg	3170		
<u>ٿ</u>	115°		1090	12	20	1580	\neg	1900		
	130°		1020	113		1360		1490		

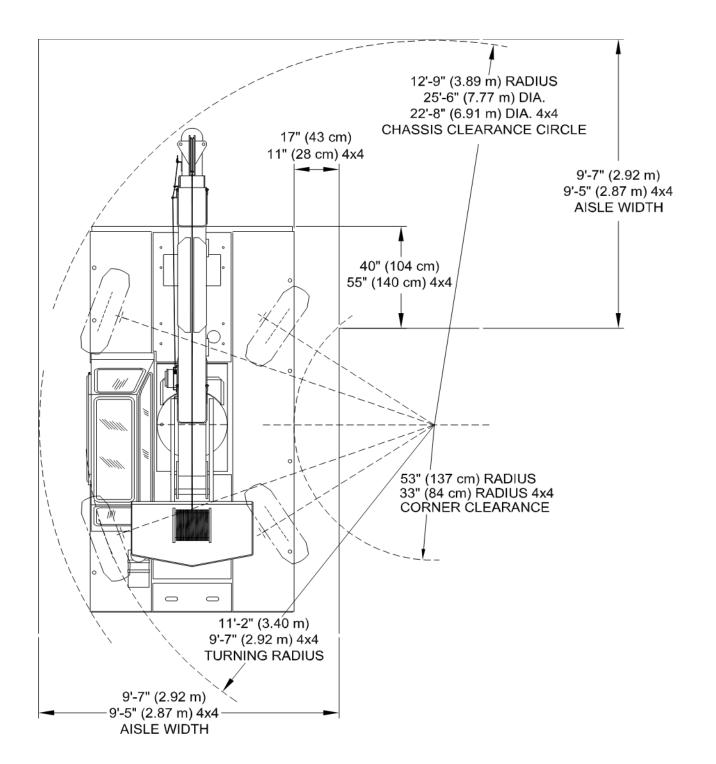
TUSE 0": 19" OR 30" FOR OFFSET BOOM EXTENSION.

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 LOADS TO THE BOOM OR BOOM EXTENSION IS MISUSE, IS HAZAND VICTOR WINDOWNITY.

CAPACITIES ON OUTRIGGERS ARE 55% 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 CAPACITIES.





FOUR-WHEEL STEER IC-80-L 4x2 & 4X4