

[F-E: [0-1]]

	LOAD	DAD MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS						
	RADIUS	360° ROTATION		OVER FRONT				
	FEET	ON RUBBER	ON OUTRIGGER	ON RUBBER	ON OUTRIGGERS			
	5	9600	17000	11700	18000			
Σ	6	7900	14500	10400	14500			
0	8	5750	10250	8400	10250			
ВО	10	4150	7700	6300	7700			
	12	3100	6550	4650	6550			
Z	14	2425	5550	3750	5550			
×	16	2000	4650	3100	4650			
Σ	18	1700	4100	2650	4150			
	20	1450	3550	2300	3800			
	22	1275	3000	2000	3000			
H	24	1075	2800	1725	2800			
×	26	925	2500	1500	2600			
ш	28	775	2200	1300	2400			
Σ	30	675	2000	1150	2250			
0	BOOM	10-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET						
0	EXT	MAIN BOOM ANGLE						
œ	ANGLE	0°	30° 4	5° 60°	70°			
ö	*† 0°	2250	2600 32	00 5000				
~	115°		2400 27	00 3500				
	t30°	***		00 3000				



^{*} USE 0° FOR STRAIGHT BOOM EXTENSION.
1 USE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.

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.

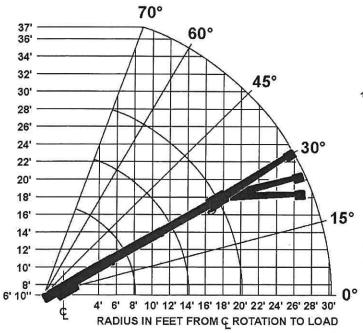
BOOM EXTENSION DEDUCT: 100 LBS WHEN STOWED ON BASE BOOM.

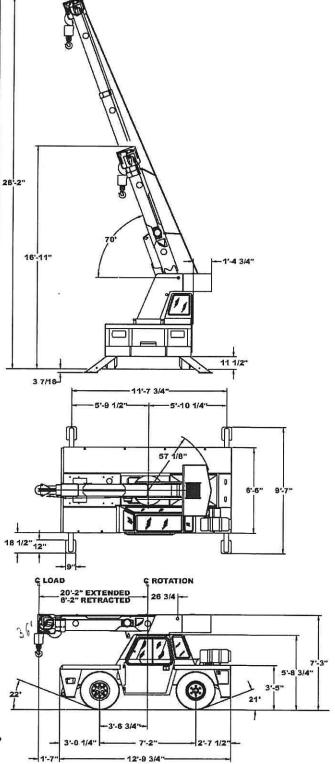


USE SINGLE PART LOAD LINE FOR LOADS TO 9000 LBS. (WT. 90 LBS.)



USE TWO PART LOADLINE FOR LOADS TO 18000 LBS. (WT. 124 LBS.)





16-80-24

	LOAD	MAIN BOOM	OR EXTENS	ION C	APACITIE	S IN POUNDS	
	RADIUS	360° R	OTATION		OVER	FRONT	
	FEET	ON RUBBER	ON OUTRIGGE	RS ON	RUBBER	ON OUTRIGGER	
	5	9500	17000		11600	18000	
_	6	7800	14500		10200	14500	
Σ	8	5650	10250		8250	10250	
0	10	4000	7700		6200	7700	
0	12	3000	6550		4650	6550	
B Z	14	2350			3650	(5550>)	
	16	1900	4550		2950	4550	
4	18	1600	3950		2500	4050	
Σ	20	1350	3350	43.4	2150	3650	
_	22	1150	2950		1850	3300	
	24	1000	2550		1,650	3100	
	26	850	2450		1450	2750	
Η.	28	725	2175		1275	2500	
×	30	625	1900		1125	2300	
Ш	32	525	1725		1000	2100	
Σ	34	425	1500		900	1950	
0	BOOM	10-FOOT B	OOM EXTEN	SION -	STRAIGH	T OR OFFSE	
0	EXT.	MAIN BOOM ANGLE					
m	ANGLE	0°	30°	45°	60°	70°	
ъ	*1 0°	2250		3200	5000		
÷	115°			2700	3500		
	130°			2500	3000		

^{*} USE 0* FOR STRAIGHT BOOM EXTENSION.
† USE 0*, 15* OR 30* FOR OFFSET BOOM EXTENSION.

<u>CAUTION</u> 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 BELOWBOLD LINEARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.

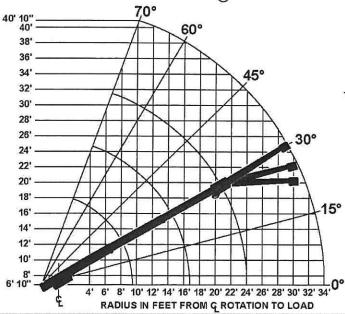
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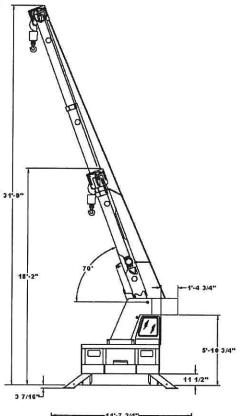


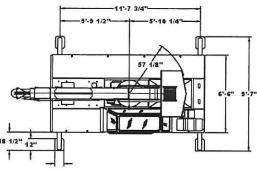
USE SINGLE PART LOAD LINE FOR LOADS TO 9000 LBS. (WT. 90 LBS.)

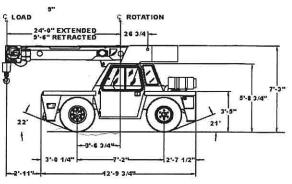


USE TWO PART LOADLINE FOR LOADS TO 18000 LBS. (WT. 124 LBS.)









IG-80-3H

		ACTIES APP	LY TO OPERA	TON OF	FIRMLE	EL SURFACE	
	LOAD	WAIN BOOM OR EXTENSION			ON CAPACITIES IN POUNDS		
	RADIUS	360° ROTATION				FRONT	
	FEET	ON RUBBER	ON OUTRIGGER	es o	NRUBBER	ON OUTRIGGERS	
	5	9400	17000		11400	18000	
	6	7550	14000		10000	14000	
	8	5600	10000		8100	10000	
Σ	10	4300	7700		6100	7700	
5	12	3200	6100		4450	6100	
ŏ	14	2550	5200		3400	5200	
0	16	2050	4400		2700	4400	
MAIN	18	1650	3900		2200	3900	
	20	1350	3400		1800	3400	
	22	1150	3050		1550	3050	
	24	1000	2750		1350	2800	
	26	850	2450		1200	2550	
	28	750	2200		1100	2350	
	30	650	1950		1000	2150	
	32	450	1750		900	1950	
į.	34	350	1600		800	1800	
×	36	250	1450		700	1650	
П	38	200	1300		600	1500	
Σ	40	150	1150		500	1400	
0	BOOM	10-FOOT	BOOM EXTENS	ION - S	TRAIGHT		
0	EXTENSION	MAIN BOOM					
20	ANGLE	0°	30°	45°	60°	70°	
9	*+0°	2250	2600 3	3200	5000	7000	
_	115°			2700	3500	4200	
	130°			2500	3000	3300	

USE 0" FOR STRAIGHT BOOM EXTENSION.
 USE 0", 15" OR 30" FOR OFFSET BOOM EXTENSION.

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 AR LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.

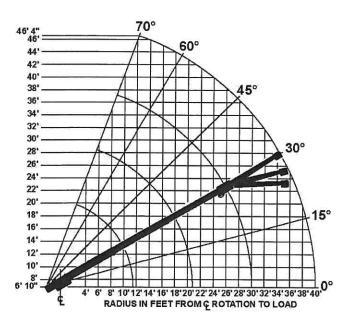
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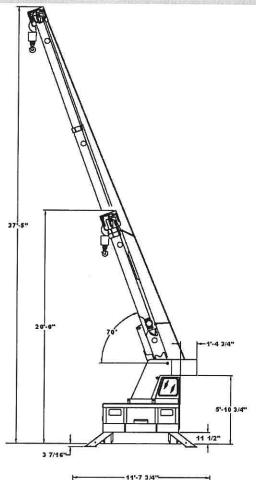


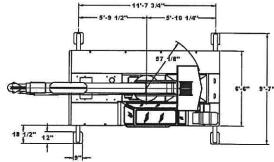
USE SINGLE PART LOAD LINE FOR LOADS TO 9000 LBS. (WT. 90 LBS.)

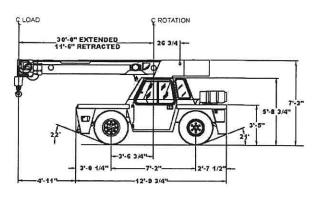


USE TWO PART LOADLINE FOR LOADS TO 18000 LBS. (WT. 124 LBS.)











GENERAL:		Tell of the 24 miles 2022/2020/09 KITS 1252/8	in riversimality and a final
Weight:	IC-80-1H	IC-80-2H	IC-80-3H
4-Wheel Steer	16,150 lb	16,350 lb	16,750 lb
4-Wheel Drive	17,000 lb	17,200 lb	17,600 lb
Boom Movement		WALL CONTROL OF THE STATE OF TH	SHIP STANDARD CONT.
Rotation	Continuous	Continuous	Continuous
Elevation	0° to 70°	0° to 70°	0° to 70°
Extension	12 ft.	14 ft. 6 in.	18 ft. 6 in.
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 S	Steering Wheel)	10 ft. 0 in.	
Aisle Width for 90	0° Turn:	9 ft. 6 in.	

ENGINE:

Make GM Cummins 3.0 EFI* QSB 3.3L EPA Tier 3 Model Gas Diesel No. Cyl. 199 CID Displacement 1.81 CID HP @ Gov. Speed 69

*Electronic Fuel Injection with Dual Fuel, US EPA & CARB Certified for 2005 Emissions Standards

85

Fuel Tank Capacity: 20 Gallons

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. Torque converter has stall ratio of 2.2:1. Gradeability 63 percent.

		Forward/Reverse Travel		
Drawbar				
Gear	Gear Ratios	Speed	Pull	
First	5.72:1	4 MPH	10,500 lb	
Second	3.23:1	7 MPH	6,000 lb	
Third	1.77:1	13 MPH	3,200 lb	
Fourth	1.00:1	22 MPH	1,800 lb	

AXLES:

Front:

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

Optional 4-Wheel Drive

Planetary drive/steer axle with integral drop box input 11.625:1 axle ratio. Differential is "No-Spin." Mining and Industrial tires standard.

Rear:

2-Wheel Drive:

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

Optional 4-Wheel Drive:

Planetary drive/steer axle with 11.625:1 axle ratio. Differential is "Limited Slip." 1-1/2° oscillation degree in either direction.

	Forward/Reverse	Travel	Drawbar
Gear	Gear Ratios	Speed	Pull
First	5.72:1	3 MPH	12,300 lb
Second	3.23:1	6 MPH	7,000 lb
Third	1.77:1	11 MPH	3,800 lb
Fourth	1.00:1	20 MPH	2,200 lb

STEERING:

Hydraulic steering unit with cylinders 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 steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

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2-Wheel Drive Front Internal wet disc Rear Drum type Parking Disc type

4-Wheel Drive Internal wet disc Internal wet disc Disc type

TIRES:

2-Wheel Drive 10.00 x 15, load range H bias, 16-ply rating. 4-Wheel Drive 36 X 11-15, Mining & Industrial, 16 ply rating.

CHASSIS:

Cargo Deck:

53 square feet of deck area. 14,000 lbs. capacity on deck when load is centered over or between axles. A storage box is located in front cargo deck. Steps located on front corners

1. 14,000 pounds allowed at creep speed of 2 MPH and 200 feet maximum in 30 minutes,

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"x12".

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 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 and optional 4-wheel drive.

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 17 & 32 GPM at rated RPM. Hydraulic oil tank capacity of 25 gallons

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 lb at a line speed of 110 FPM. Includes downhaul weight, swivel hook & sheave block for 2-part line and 125 ft of 9/16" 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.

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

MODELS:

IC-80-1 H Industrial Crane with 8'2"-20'2" Boom Reach IC-80-2H Industrial Crane with 9'6"-24' Boom Reach IC-80-3H Industrial Crane with 11'6"-30' Boom Reach

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

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 Radial 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

Headlight and Talllight Grilles

Welded steel protective grilles for headlights and taillights.

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.

Operator Suspension Seat

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 Boom stowable.

Boom Extension, 10 Foot, 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

Should you require an option or special equipment not listed please consult your dealer salesperson or BMC®.

BRODERSON. Manufacturing Corp.

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



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