



bmc
Tech Spec

IC-35-2E
Industrial Crane

**Small in size with
big crane features**

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 8,000 lbs
- Pick and Carry Capacity ... up to 6,700 lbs
- Height ... 6' 6"
- Width ... 5'
- Boom Rotation ... 360 Degree Continuous
- Sheave Height ... up to 33'
- Horizontal Reach ... up to 27'
- 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

BRODERSON
Manufacturing Corp.





IC-35-2E

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE					
LOAD RADIUS FEET	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS				
	360° ROTATION		OVER FRONT		
	ON RUBBER	ON OUTRIGGERS	ON RUBBER	ON OUTRIGGERS	
MAIN BOOM	4	5000	8000	6700	8000
	5	4000	6800	5800	6800
	6	2850	5850	5100	5850
	8	1800	4150	3500	4150
	10	1250	3200	2350	3400
	12	900	2350	1750	2850
	14	700	1850	1350	2450
	16	600	1500	1100	2150
	18	500	1250	950	1950
	19	450	1150	900	1850
8' BOOM EXTENSION	20	400	1100	850	1600
	22	300	900	700	1450
	24	250	800	600	1300
	26	200	700	500	1150
	27	150	650	450	1100
	8-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET				
	MAIN BOOM ANGLE				
	0°	10°	20°	30°	40°
	50°	60°	70°		
	+* 0°	1100	1200	1300	1450
	* 15°	—	—	1100	1250
	* 30°	—	—	1100	1200

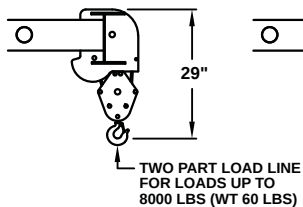
+ USE 0° FOR STRAIGHT BOOM EXTENSION.

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

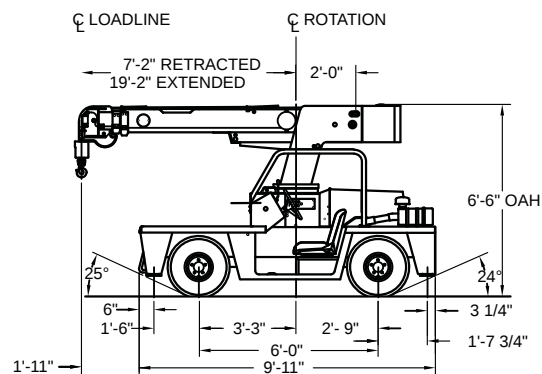
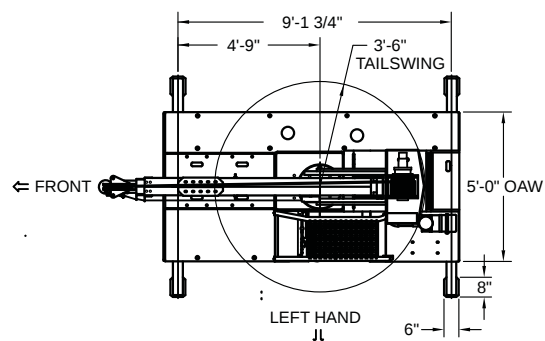
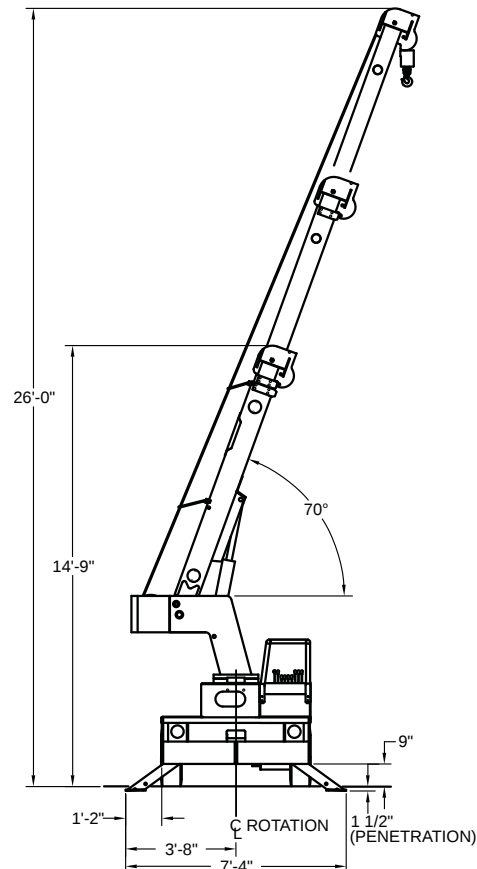
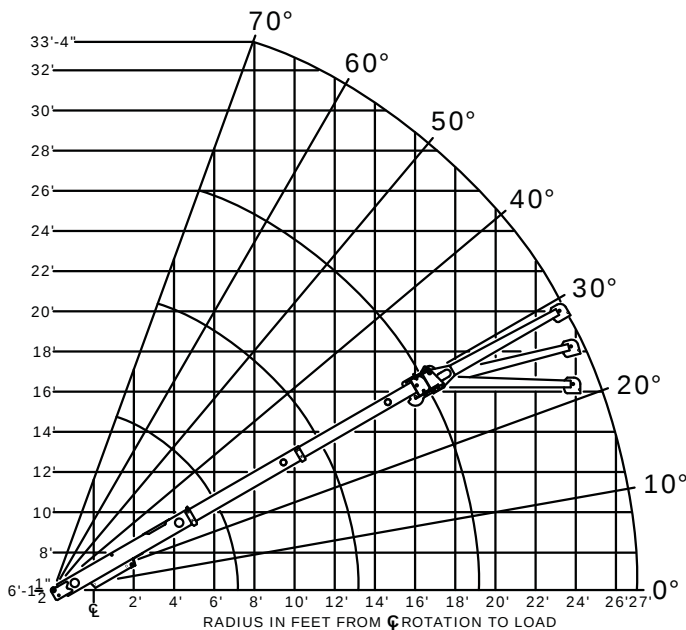
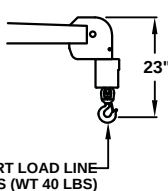
CAUTION: BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY. BOOM EXTENSION DEDUCT: 100 LBS. WHEN STOWED ON BASE BOOM. DO NOT PICK & CARRY WITH LOADS ON BOOM EXTENSION.

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 CAPABILITIES. MAXIMUM HYDRAULIC PRESSURE 2600 PSI.

3RD STAGE TIP



BOOM EXT TIP





IC-35-2E

Specifications

GENERAL:

Weight	7,530 lbs
Travel Speed	0 to 10 mph
Drawbar Pull	2,100 lbs
Gradeability:	30%
Boom Movement:	
Rotation	Continuous
Elevation	0° to 70°
Extension	7' 2" to 19' 2"
Boom Speeds:	
Rotation	1.8 RPM
Elevation	17 seconds
Extension	32 seconds

ENGINE:	Standard	Optional
Make	GM	Cummins
Model	2.4 L EFI	A2300
Type	Dual Fuel	Diesel
No. Cyl.	4	4
Displacement	2.4 L	2.3L
HP @ Gov. Speed	65 HP	46 HP
EPA Certification	Tier 2	Tier 4
Fuel Tank Capacity	13.5 Gallons	

HYDROSTATIC PUMP:

Piston type, direct driven from engine crankshaft. Maximum flow 34 GPM. Maximum pressure 4,000 psi.

AXLES:

Front Axle:

Channel shaped structure houses torque hubs, brakes and hydraulic drive motors. Axle oscillates a total of 1-1/2 in.

Rear Axle:

Fixed rigid to frame.

STEERING:

Full hydraulic steering unit controls 2-1/2 in. steering cylinder attached to rear axle.

BRAKES:

Primary braking from hydrostatic transmission. Foot-actuated disc brake attached to each torque hub additional braking in some conditions. Parking brake switch locks brakes to hold crane when not being driven.

TIRES:

Front: 7.5 x 10 pneumatic, 16-ply
Rear: 7.5 x 10 pneumatic, 16-ply

CHASSIS:

CARGO DECK:

29 sq. ft. of deck area. 6,000 lbs. 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.

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.

ELECTRICAL:

12 Volt System

Lighting Package:

One pair headlights and taillights.

Instrument Package:

Fuel, ammeter, oil pressure, 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" or "outrigger out" controls are operated.

HYDRAULIC SYSTEM:

Tandem pump mounted to rear of hydrostatic piston pump. Delivers 6 GPM at 2,600 PSI for boom circuits and 17 GPM at 2,500 PSI for hoist circuit. System protected by relief valves. Hydraulic oil reservoir has 14 gallon 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 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. & a line speed of 86 FPM. Hoist includes 85 ft. of 3/8 in. 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.



IC-35-2E

Options

Listed below are brief descriptions of options available for this product.
Consult the IC-35-2E Engineering Spec for additional information.

MODEL:

IC-35-2E Industrial Crane with Dual Fuel Engine (Gas/LPG)

ENGINE OPTIONS:

Cummins 2.3L Diesel Engine

Cummins Model A2300, EPA Tier 4 Certified.

Spark Arrester Muffler

Installed in addition to std. muffler.

Engine Shut Down Gauges

Shuts engine off when high water temperature or low engine oil pressure occurs for diesel only.

TIRE OPTIONS:

Solid Rubber Tires

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 Tire

CHASSIS OPTIONS:

Auxiliary Winch

Mounted behind the front bumper, hydraulically driven with control in operator's console (3,000 lbs @ 20 FPM).

Pintle Hook - Rear

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

Lifting Sling

Sling to attach to Lifting Rings.

Headlight & Taillight 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:

All Weather Cab

Rigid-mounted canopy section and removable hinged door with safety glass. Cab door adds 2 in. 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.

Operator Guard Cover

Clear vinyl cover over Operator Guard, for inclement weather.

Floor Mat

Vinyl mat with foam backing.

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.

WIRE ROPE:

140 ft. of 3/8 in. dia. wire rope.

BOOM ATTACHMENTS:

Boom Extension

8 foot, boom stowable.

Boom Extension, Offset

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

Searcher Hook - Nose Mount:

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

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

BRODERSON®

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Dimensions and values shown are

for reference purposes only.

Specifications subject to change.

