

Tech Spec

IC-200-F

Unmatched in Features
and Performance

- * Rated Capacity Limiter...Standard
- * Capacity on outriggers...30,000 lbs.
- * Pick and carry capacity...
up to 17,000 lbs.
- * Height...7' 11-1/2"
- * Width...8'
- * Sheave height...up to 73'
- * Horizontal reach...up to 66'
- * Tight turning radius
- * 4-Wheel steer...Standard
- * 4-Wheel drive...Optional
- * Powershift transmission...Standard
- * Fully hydraulic controls for smooth
precise operation
- * Independent outrigger controls
- * Dual Fuel Standard, Diesel Optional



BMC BRODERSON
Manufacturing Corp.

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IC-200-2F

**CRANE CAPACITY CHART
IC-200-2F**

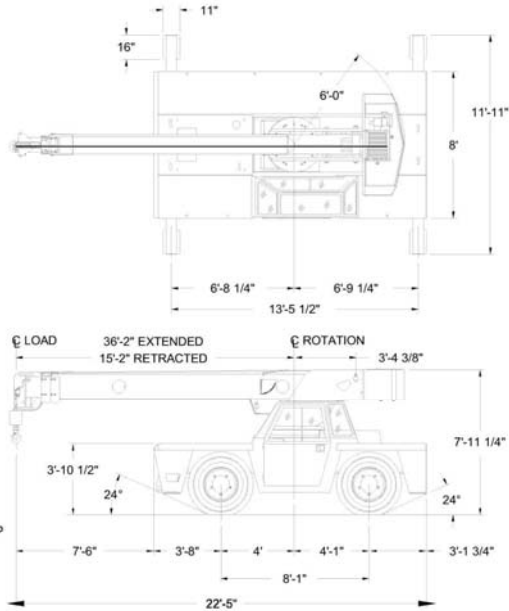
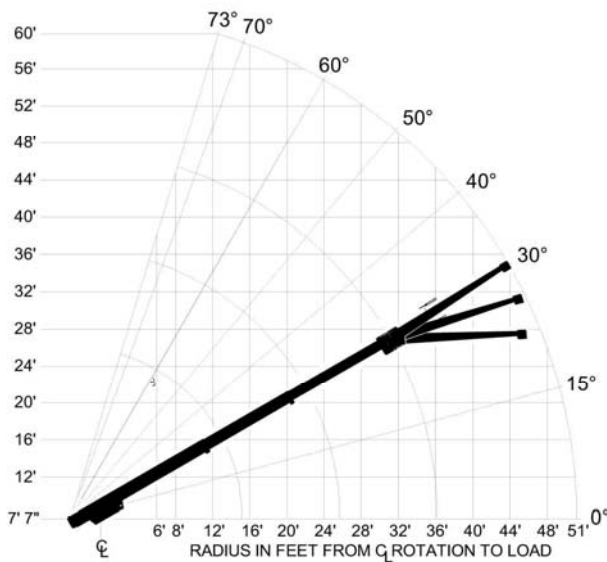
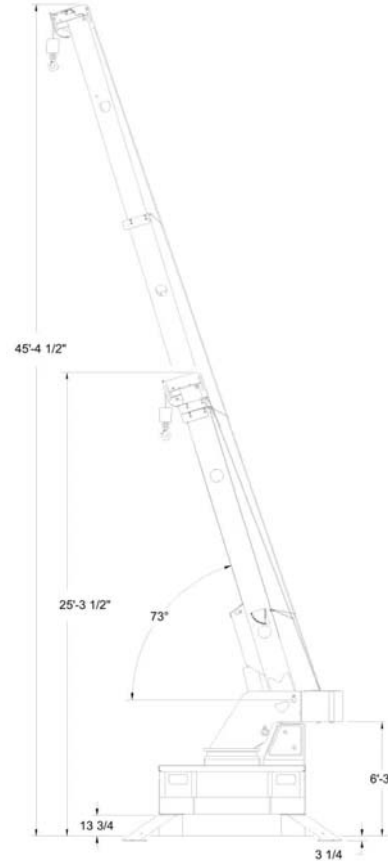
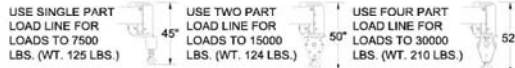
CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE

| LOAD RADIUS FEET | MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS 360° ROTATION OVER FRONT | | | |
|------------------|---|---------------|-----------|---------------|
| | ON RUBBER | ON OUTRIGGERS | ON RUBBER | ON OUTRIGGERS |
| 6 | 16200 | 30000 | 17000 | 30000 |
| 8 | 13200 | 24000 | 13800 | 24000 |
| 10 | 11000 | 19800 | 11500 | 19800 |
| 12 | 8100 | 16100 | 9600 | 16100 |
| 14 | 6250 | 13500 | 7900 | 13500 |
| 16 | 5000 | 11200 | 6300 | 11200 |
| 18 | 4100 | 10000 | 5100 | 10000 |
| 20 | 3400 | 8800 | 4300 | 8800 |
| 22 | 2850 | 7700 | 3600 | 7800 |
| 24 | 2400 | 6600 | 3000 | 6900 |
| 26 | 2100 | 5750 | 2600 | 6200 |
| 28 | 1850 | 5150 | 2300 | 5700 |
| 30 | 1650 | 4650 | 2100 | 5300 |
| 32 | 1450 | 4200 | 1850 | 4900 |
| 36 | 1150 | 3400 | 1500 | 4200 |
| 40 | 900 | 3050 | 1200 | 3600 |
| 44 | 650 | 2600 | 950 | 3100 |
| 48 | 450 | 2200 | 750 | 2700 |
| 51 | 250 | 1900 | 600 | 2400 |

| 15' BOOM EXT. ANGLE | 15-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET MAIN BOOM ANGLE | | | | | | |
|---------------------|--|------|------|------|------|------|------|
| | 0° | 15° | 30° | 40° | 50° | 60° | 70° |
| 0° | - | 3100 | 3450 | 3900 | 4650 | 6000 | 7500 |
| 15° | - | 3000 | 3100 | 3300 | 3650 | 4250 | 5200 |
| 30° | - | - | 3000 | 3050 | 3200 | 3450 | 3900 |

CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED MAIN BOOM CAPACITY.

BOOM EXTENSION DEDUCT: 400 LBS. WHEN STOWED ON BASE BOOM;
800 LBS. IN WORK POSITION WITH LOAD ON MAIN BOOM.



IC-200-3F

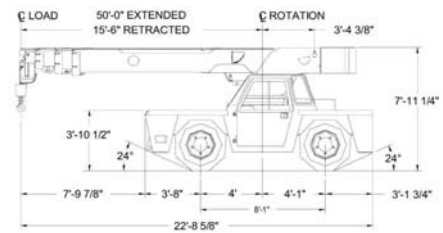
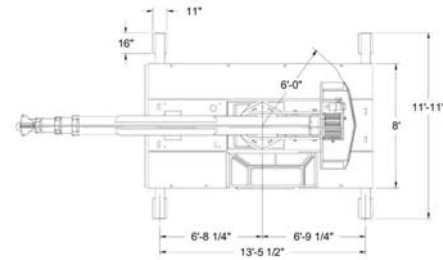
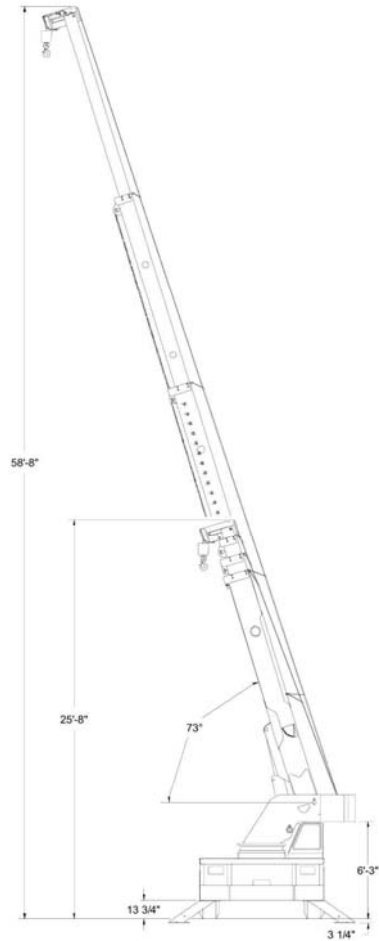
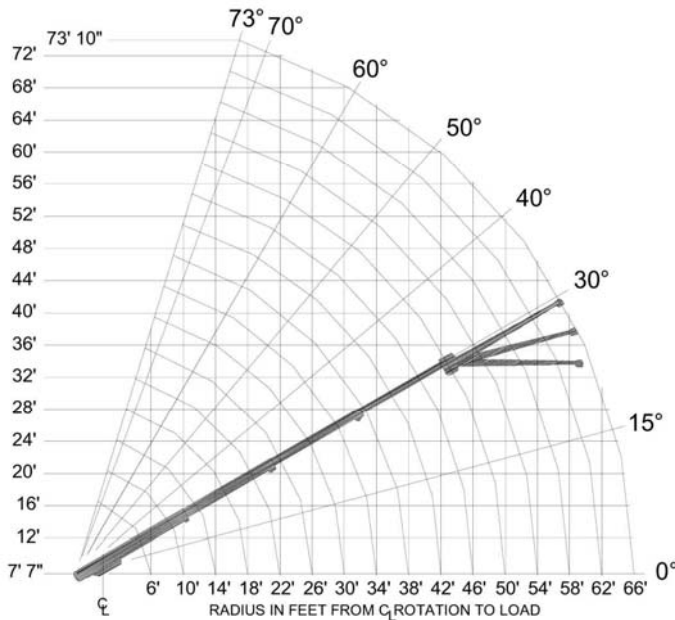
CRANE CAPACITY CHART IC-200-3F

| LOAD RADIUS | CAPACITIES IN POUNDS FOR OPERATION ON FIRM LEVEL SURFACE | | | | | | | |
|----------------|--|-------|---------------|-------|----------------|-------|---------------|-------|
| | MAIN BOOM ONLY | | | | BOOM EXTENSION | | | |
| | ON RUBBER | | ON OUTRIGGERS | | ON RUBBER | | ON OUTRIGGERS | |
| FEET | 360° | FRONT | 360° | FRONT | 360° | FRONT | 360° | FRONT |
| 6 | 16000 | 16400 | 30000 | 30000 | --- | --- | --- | --- |
| 8 | 12500 | 13000 | 22400 | 22400 | --- | --- | --- | --- |
| 10 | 10000 | 10500 | 18500 | 18500 | 7500 | 7500 | 7500 | 7500 |
| 12 | 8040 | 8700 | 15700 | 15700 | 7500 | 7500 | 7500 | 7500 |
| 14 | 6500 | 7200 | 13500 | 13500 | 7500 | 7500 | 7500 | 7500 |
| 16 | 5330 | 6200 | 10800 | 10800 | 6140 | 7500 | 7500 | 7500 |
| 18 | 4450 | 5400 | 9560 | 9560 | 5010 | 6440 | 7500 | 7500 |
| 20 | 3720 | 4700 | 8550 | 8550 | 4200 | 5430 | 7500 | 7500 |
| 22 | 3140 | 4200 | 7700 | 7700 | 3580 | 4650 | 6850 | 6850 |
| 24 | 2690 | 3700 | 6980 | 6980 | 3080 | 4030 | 6250 | 6250 |
| 26 | 2300 | 3200 | 6300 | 6300 | 2660 | 3530 | 5750 | 5750 |
| 28 | 1980 | 2800 | 5550 | 5550 | 2290 | 3100 | 5300 | 5300 |
| 30 | 1700 | 2460 | 4830 | 5320 | 1990 | 2710 | 4920 | 4920 |
| 32 | 1470 | 2150 | 4200 | 4900 | 1730 | 2400 | 4580 | 4580 |
| 34 | 1260 | 1850 | 3700 | 4520 | 1510 | 2130 | 4270 | 4270 |
| 38 | 920 | 1300 | 2970 | 3870 | 1140 | 1680 | 3530 | 3760 |
| 42 | 640 | 950 | 2400 | 3340 | 840 | 1320 | 2960 | 3340 |
| 46 | 390 | 650 | 1840 | 2890 | 600 | 1040 | 2440 | 2980 |
| 50 | 0 | 550 | 1750 | 2520 | 410 | 800 | 2040 | 2630 |
| 54 | --- | --- | --- | --- | 0 | 600 | 1710 | 2290 |
| 58 | --- | --- | --- | --- | 0 | 430 | 1370 | 2000 |
| 62 | --- | --- | --- | --- | 0 | 290 | 1140 | 1740 |
| 66 | --- | --- | --- | --- | 0 | 0 | 930 | 1500 |

| BOOM EXT. ANGLE | BOOM EXTENSION - STRAIGHT OR OFFSET | | | | | | | |
|-----------------------|-------------------------------------|------|------|------|------|------|------|--|
| | MAIN BOOM ANGLE | | | | | | | |
| | 0° | 15° | 30° | 40° | 50° | 60° | 70° | |
| 0° | 3000 | 3100 | 3450 | 3900 | 4650 | 6000 | 7500 | |
| 15° | --- | 3000 | 3000 | 3000 | 3000 | 3700 | 5000 | |
| 30° | --- | --- | 2500 | 2500 | 2600 | 3100 | 3800 | |

CAUTION BOOM EXTENSION LOADS MUST NOT EXCEED CAPACITIES IN ANGLE CHART AND LOAD RADIUS CHART.

BOOM EXTENSION DEDUCT: 400 LBS. WHEN STOWED ON BASE BOOM;
800 LBS. IN WORK POSITION WITH LOAD ON MAIN BOOM.



GENERAL:

| | | | |
|------------------------|---------------------------------|---------------------------------|------------|
| Weight: | IC-200-2F 27,760 lbs. | IC-200-3F 30,160 lbs. | |
| Boom Movement: | | | |
| Rotation | Continuous | Continuous | Continuous |
| Elevation | 0° to 73° | 0° to 73° | 0° to 73° |
| Extension | 15' 4" | 21' 0" | 34' 6" |
| Boom Speeds: | | | |
| Rotation | 1.8 RPM | 1.8 RPM | 1.8 RPM |
| Elevation | 21 sec. | 21 sec. | 21 sec. |
| Extension | 26 sec. | 35 sec. | 53 sec. |
| Gradeability: | 75% (37 Degrees) | | |
| Turning Radius: | 13' 9" | | |

ENGINE: **Standard** **Optional**

| | | |
|---------------------------|--|--------------|
| Make | GM* | Cummins** |
| Model | 4.3L V-6 | B4.5-C |
| Type | Gasoline | Turbo-Diesel |
| No. Cyl. | 6 | 4 |
| Displacement | 262 CID | 4.5L |
| HP @ Gov. Speed | 110 H.P. | 99 H.P. |
| Fuel Tank Capacity | 30 Gallons | |
| | * Electronic Fuel Injection with Dual Fuel, Tier II CARB & US EPA Tier I Emissions Certified | |
| | ** Tier II CARB & US EPA Tier II Emissions Certified | |

TRANSMISSION:

Powershift transmission with 4-speeds 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. Equipped with torque convertor and transmission oil cooler. Torque convertor has stall ratio of 2.2:1.

Gear Ratio:

| | | | |
|-------|--------|--------|--------|
| First | 5.72:1 | Second | 3.23:1 |
| Third | 1.77:1 | Fourth | 1.00:1 |

AXLES:

Front Axle:

Planetary drive/steer front axle with 15.78 to 1.0 ratio. Differential equipped with "limited slip" feature. Front axle mounted rigidly to frame.

| Gear | Travel Speed | Drawbar Pull* |
|-------------|---------------------|----------------------|
| First | 3 MPH | 19,000* |
| Second | 6 MPH | 10,000* |
| Third | 11 MPH | 5,700* |
| Fourth | 20 MPH | 3,000* |

*Drawbar pull is calculated for GM 4.3L engine.

Rear Axle:

Standard (2-Wheel Drive):

Steering axle with 1-1/2 degree oscillation in either direction.

Optional (4-Wheel Drive):

Planetary drive/steer axle with 24.98 to 1.0 ratio. Differential is not "limited slip" in rear axle. 1-1/2 degree oscillation in either direction. Axle ratio compatible with 4-wheel drive transmission output for front axle match. Transmission equipped with electro-hydraulic control for shifting between 2-wheel drive and 4-wheel drive.

STEERING:

Full hydraulic steering unit with two 3-inch cylinders attached to each axle. Allows limited steering when engine is not running. A switch on the control panel is used to select rear-wheel steering, four-wheel steering or crab steering. Electronic sensors and control box automatically align the steering when a new mode is selected.

BRAKES:

Service: Split-system, 4-wheel hydraulic-boosted multiple-plate wet disc brakes.

Parking: Hand lever actuated disc-type parking brake on transmission.

TIRES: 15x22.5, 20-ply rating.

OPERATOR COMPARTMENT:

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

CHASSIS:

Cargo Deck:

72 square feet of deck area. 17,000 lbs. capacity on deck when load is centered over or between axles. Steps located on front corners.

Lifting Rings

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

Outriggers:

Four hydraulic outriggers of box beam construction with direct-connected holding valves. Independent controls for each outrigger. Outrigger pad dimension: 11" x 16".

Accessory Storage Box:

Storage box is 14" deep x 10-1/2" long x 36-1/2" wide, located in front cargo deck.

ELECTRICAL:

12 Volt System

Lighting Package:

One pair headlights with high and low beams, tail, brake and turn signal lights and back-up lights in rear, front turn signals and emergency flasher switch at operator's station.

Instrument Package:

Fuel, ammeter, oil pressure, water temperature and transmission oil temperature gauges. All gauges are lighted. Hourmeter records hours only during actual engine operation. Also included are warning lights for low transmission pressure, turn signals, high beams, hazard lights, park brake and four-wheel drive.

Back-Up Alarm:

Provides pulsating sound when transmission is in reverse.

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 29 and 34 GPM at rated RPM. Hydraulic oil tank capacity of 54 gallons.

BOOM ASSEMBLY:

Three or four section boom assembly equipped with bearing pads, double-acting hydraulic cylinders with direct-connected holding valves and 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. at a line speed of 100 FPM. Includes downhaul weight, swivel hook and sheave block for 4-part line and 240 ft. of 1/2" hoist rope.

Anti-Two-Block Device:

Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

Sheave Block, Four Part Line

Double sheave block for 4-part line requirements.

IC-200-F

Listed below are brief descriptions of each option available for the IC-200-F Industrial Crane. Consult the IC-200-F Engineering Spec for additional information on each option.

MODEL:

IC-200-2F Industrial Crane with
15' 2"-36' 2" Boom

IC-200-3F Industrial Crane with
15' 6"-50' 0" Boom

ENGINE OPTIONS:

Diesel Engine

Cummins Turbo-B4.5-C

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 into 120 volt AC.

Ether Injection System

Ether starting aid controlled by switch in operator compartment and injects ether directly into intake manifold.

Engine Shut Down Gauges

Shuts engine off when high water temperature or low engine oil pressure occurs. (Diesel Only)

Axle & Steering Options:

4-Wheel Steer & 2-Wheel Drive

4-Wheel Steer & 4-Wheel Drive

TIRE OPTIONS:

Non-Marking Tires

Foam Filling of Tires

Spare Tire & Wheel

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 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:

Operator Guard

Tubular steel weldment with heavy expanded steel mesh top section.

Operator Guard Cover

Clear vinyl cover over Operator Guard, for inclement weather operations.

All Weather Cab

Rigid-mounted canopy section and 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 Only

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 cover and side panels of foam backed vinyl for noise reduction.

Air Conditioning

Air Conditioner with R 134 coolant.

ELECTRICAL OPTIONS:

Strobe Lights

Yellow strobe light mounted on each side of turret weight box.

Amber Rotating Beacons

Amber rotating beacon 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, 15 Ft. (2F Only)
Boom stowable.

Boom Extension, 15 Ft., Offsettable (2F Only)

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

Boom Extension, 16 Ft., Offsettable (3F Only)

Same as above except the boom extension is 16 ft.

Sheave Block - Two-Part Line

Searcher Hook:
Nose Mount

Should you, as an end user, require an option or special equipment on your IC-200-F that is not listed on our sales literature, please contact your dealer salesperson or the factory to receive a special quoted price.



IC-20



IC-25



IC-35



IC-40



IC-80



IC-250