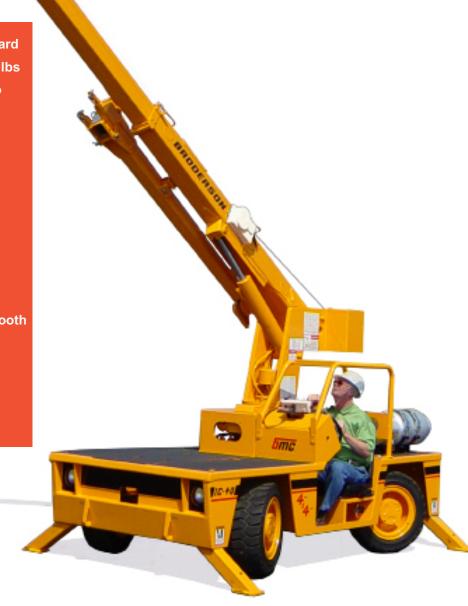


## IC-40-2C Industrial Crane

Four-wheel drive for tough applications

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 9,000 lbs
- Pick and Carry Capacity ... up to 7,200 lbs
- Height ... 6' 8"
- Width ... 5' 4"
- Boom Rotation ... 360 Degree
   Continuous
- Sheave Height ... up to 33' 6"
- Horizontal Reach ... up to 27'
- Tight Turning Radius
- 4-Wheel Steer ... Standard
- 4-Wheel Drive ... Standard
- Fully Hydraulic Controls for Smooth Precise Operations
- Independent Outrigger Controls
- Dual Fuel or Diesel Available

BRODERSON®
Manufacturing Corp.



## IC-40-2C Specifications

**GENERAL:** 

 Weight
 8,920 lb (4,050 kg)

 Travel Speed
 0 to 10 mph (16 km/h)

 Drawbar Pull
 2,000 lbs (910 kg)

Gradeability: 24% (13°)

**Boom Movement:** 

Rotation Continous Elevation 0° to 70° Extension 7' 2" to 19' 2"

**Boom Speeds:** 

Rotation 1.4 RPM Elevation 17 seconds Extension 32 seconds

**ENGINE:** 

 Make
 GM
 Kubota

 Model
 2.4 L EFI
 V2403

 Type
 Dual Fuel
 Diesel

 No. Cyl.
 4
 4

 Displacement
 2.4 L
 2.4 L

HP @ Gov. Speed 65 HP (48kW) 48.9 HP (36.5 kW)

EPA Certification Tier 2 Tier 4i

Fuel Tank Capacity 13.5 Gallons (51 L)

#### **HYDROSTATIC PUMP:**

Piston type, direct driven from engine crankshaft. Maximum flow 34 GPM (129 L/min). Max pressure 4,000 psi (275 bar).

#### **AXLES:**

#### Front Axle:

Planetary drive/steer axle with 16.15:1 ratio. Differential equipped with "limited slip" feature. Axle is rigidly mounted to frame.

#### Rear Axle:

Planetary drive/steer axle with 16.15:1 ratio. Differential is "limited slip" in rear axle. 1-1/2 degree oscillation in either direction.

#### STEERING:

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

#### **BRAKES:**

Primary braking from hydrostatic transmission. Foot-actuated wet-disc brakes in each axle for additional braking in some conditions. Lever-actuated parking brake to hold crane when not being driven

#### **TIRES**

28x9-15 pneumatic tires. Pressurized to 120 PSI (80 kPa) for crane rated loads.

#### **CHASSIS:**

#### **CARGO DECK:**

29 sq. ft. (2.7 m²) of deck area. 6,000 lbs. (2,720 kg) capacity on deck when load is centered over or between axles.

### CHASSIS: (Cont'd) 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.

#### **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 one pair taillights.

#### **Instrument Package:**

Fuel, ammeter, oil pressure, and 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 (23 L/min) at 2,600 PSI (179 bar) for boom circuits and 17 GPM (64 L/min) at 2,250 PSI (155 bar) for hoist circuit. System protected by relief valves. Hydraulic oil reservoir has 14 gallon (53 L) 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. (2,270 kg) & a line speed of 86 FPM (26 m/min). Hoist includes 85 ft (26 m) of 3/8 (9.5 mm) 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.



# Listed below are brief descriptions of options available for this product. Consult the IC-40-2C Engineering Spec for additional information.

#### MODEL:

IC-40-2C Industrial Crane

#### **ENGINE OPTIONS:**

#### **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:**

Foam Filling of Tires
Spare Tire & Wheel, pneumatic
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 [1,360 kg] @ 20 FPM [6 m/min]).

#### Pintle Hook - Rear

Holland "T-60-A" pintle hook mounted on rear of frame rated for 2,000 lbs (910 kg) tongue weight...

#### 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. (5 cm) 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.

#### **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.

#### **BOOM ATTACHMENTS:**

#### **Boom Extension**

8 foot (2.4 m), boom stowable

#### **Boom Extension, Offset**

8 foot (2.4 m) 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 (900 kg) 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**® Manufacturing Corp. 14741 West 106th Street

Lenexa, KS 66215 USA

Tel (913) 888-0606 Fax (913) 888-8431 www.bmccranes.com Dimensions and values shown are for reference purposes only. Specifications subject to change.



# IC-40-2C

	CARACITIES ARRIVED ORFRATION ON FIRM LEVEL SURFACE										
	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE  MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS										
	LOAD										
	RADIUS	360° ROTATION				OVER FRONT ON ON					
	FEET	RUBBER		OUTRIGGERS		RUBBER		OUTRIGGERS			
	4	7000				7200		9000			
MAIN BOOM				8500							
	5	5000		7000		6000		7000			
	6	3700		585		5300		5850			
	8	2300		415	-	4150		4150			
	10	1450		340	-	3200		3400			
	12	1050		285	0	2400		2850			
	14	900		2350		1900		2450			
	16	750		1900		1600		2150			
	18	650		1600		1300		1950			
	19	600		1450		1150		1850			
EXTENSION	20	550		1450		1150		1600			
	22	450		1250		1000		1450			
	24	400		1050		850		1300			
	26	350		850		750		1150			
	27	30	0	750		650		1100			
	воом	8-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET									
Σ	EXTENSION	MAIN BOOM ANGLE									
8. BOOM	ANGLE	0°	10°	20°	30°	40°	50°	60°	70°		
	* 0°	1100	1200	1300	1450	1600	1850	2300	3500		
	* 15°	_	_	1100	1250	1350	1500	1700	2050		
	* 30°	_	_	_	1100	1200	1300	1450	1600		

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

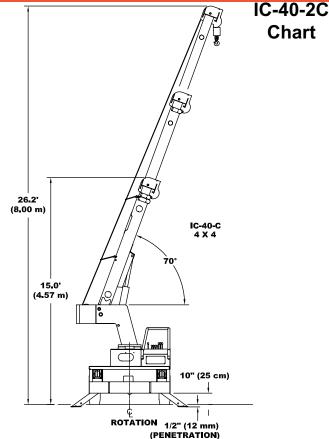
+ USE 0° FOR STRAIGHT BOOM EXTENSION.

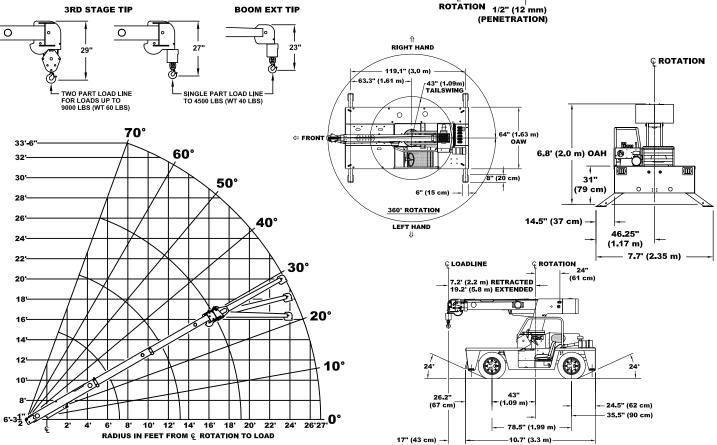
\* USE 0\*, 15" OR 30" FOR OFFSET BOOM EXTENSION.

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. DEDUCT 100 LBS. FROM CAPACITY WHEN BOOM EXTENSION STOWED ON BASE BOOM. DO NOT PICK & CARRY WITH LOADS ON BOOM EXTENSION. ENSURE ANTI-TWO-BLOCK SWITCH IS FUNCTIONAL AFTER DEPLOYING OR STOWING BOOM EXTENSION.

CAPACITIES ON OUTRIGGERS ARE 85% OF TIPPING LOADS. CAPACITIES ON RUBBER ARE 75% OF TIPPING LOADS. CAPACITIES BLOW BOLD LINE ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY TRIPCITURAL OR HYDRAULG CAPABILITIES.

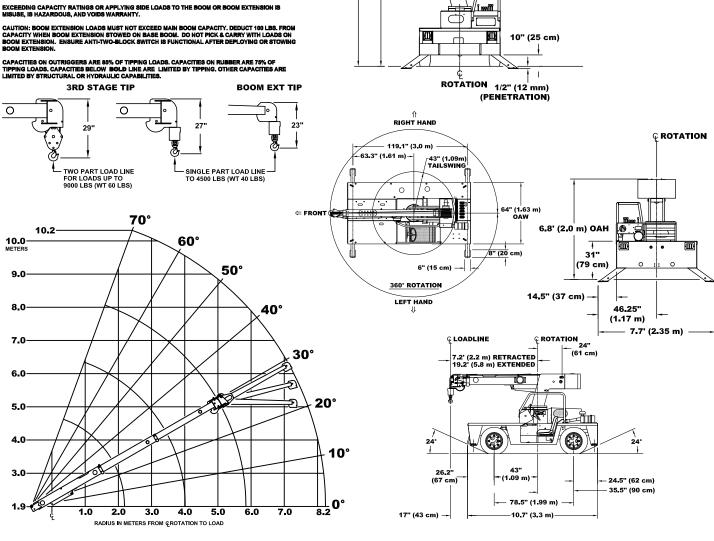




# IC-40-2C

	CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE									
	LOAD	CAPAC	APACITIES IN KILOGRAMS							
	RADIUS	360° ROTATION				OVER FRONT				
		ON		ON		ON		ON		
	METERS	RUBBER		OUTRIGGERS		RUBBER		OUTRIGGERS		
IN BOOM	1.2	3170		3850		3260		4080		
	1.5	2320		3220		2750		3220		
	2.0	1450		2390		2250		2400		
	2.5	990		183	30	1830		1830		
	3.0	680		15€	60	1480		1560		
	3.5	500		135	50	1170		1350		
MAIN	4.0	430		1160		940		1180		
-	4.5	380		980		810		1050		
	5.0	330		830		700		960		
	5.8	270		660		520		840		
	6.0	260		660		520		750		
EXTENSION	6.5	220		600		480		680		
	7.0	190		520		420		620		
	7.5	170		450		370		570		
	8.2	130		340		290		500		
	воом	2.44 m BOOM EXTENSION - STRAIGHT OR OFFSET								
BOOM	EXTENSION	MAIN BOOM ANGLE								
8	ANGLE	0°	10°	20°	30°	40°	50°	60°	70°	
E	+* 0°	500	540	590	660	720	840	1040	1590	
2.44	* 15°			500	560	610	680	770	930	
2	* 30°				500	540	590	660	720	
LOAD RADIUS IS THE HORIZONTAL DISTANCE FROM THE CENTER OF ROTATION OF THE UNLOADED										

CRANE TO THE VERTICAL LOAD LINE WITH THE LOAD APPLIED.



26.2 (8.00 m)

> 15.0 (4.57 m)

IC-40-2C **Metric Chart** 

IC-40-C 4 X 4

<sup>+</sup> USE 0° FOR STRAIGHT BOOM EXTENSION.
\* USE 0°, 15° OR 30° FOR OFFSET BOOM EXTENSION.