LOAD CHARTS
for Use With
WRITTEN EXAMINATIONS

Broderson IC-80

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These pages are reproduced for illustration only and not as a substitute for reviewing the entire manual for a particular crane.

Make sure that you are fully trained on, and review the entire manual for, every crane you operate.

This load chart has been adapted from the original manufacturer’s load chart for use in the NCCER Mobile Crane Certification Examination. It is not to be used for calculating loads, planning lifts, or for any other purpose.
IC-80-G

Four-Wheel Steering to access those hard to reach places

- Rated Capacity Limiter ... Standard
- Capacity on Outriggers ... 18,000 lbs.
- Pick and Carry Capacity ... up to 11,700 lbs.
- Height ... 7' 3"
- Width ... 6' 6"
- Boom Rotation ... 360 Degree, Continuous
- Sheave Height ... up to 46'
- Horizontal Reach ... up to 40'
- 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

Broderson IC-80  Page 1 of 3
IC-80-1G

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE

<table>
<thead>
<tr>
<th>LOADS</th>
<th>360° ROTATION</th>
<th>OVER FRONT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEET</td>
<td>ON RUBBER</td>
<td>ON OUTRIGGERS</td>
</tr>
<tr>
<td>5</td>
<td>9600</td>
<td>17000</td>
</tr>
<tr>
<td>6</td>
<td>7800</td>
<td>14500</td>
</tr>
<tr>
<td>8</td>
<td>5750</td>
<td>10250</td>
</tr>
<tr>
<td>10</td>
<td>4150</td>
<td>7700</td>
</tr>
<tr>
<td>12</td>
<td>3100</td>
<td>6550</td>
</tr>
<tr>
<td>14</td>
<td>2425</td>
<td>5550</td>
</tr>
<tr>
<td>16</td>
<td>2000</td>
<td>4650</td>
</tr>
<tr>
<td>18</td>
<td>1700</td>
<td>4100</td>
</tr>
<tr>
<td>20</td>
<td>1450</td>
<td>3550</td>
</tr>
</tbody>
</table>

MAIN BOOM

22  1275  3200  2000  3000
24  1075  2800  1725  2800
26  925   2500  1500  2000
28  775   2200  1300  2400
30  675   2000  1150  2250

10 FOOT BOOM EXTENSION - STRAIGHT OR OFFSET

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>0°</th>
<th>30°</th>
<th>45°</th>
<th>60°</th>
<th>70°</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>2250</td>
<td>2600</td>
<td>3200</td>
<td>5000</td>
<td>7000</td>
</tr>
<tr>
<td>15°</td>
<td></td>
<td>2400</td>
<td>2700</td>
<td>3500</td>
<td>4200</td>
</tr>
<tr>
<td>30°</td>
<td></td>
<td>2250</td>
<td>2500</td>
<td>3000</td>
<td>3300</td>
</tr>
</tbody>
</table>

* 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 100% OF TIPPING LOADS. CAPACITIES BELOW BOLD LINE ARE LIMITED BY TIPPING. OTHER CAPACITIES ARE LIMITED BY STRUCTURAL OR HYDRAULIC CAPABILITY.

USE SINGLE PART LOAD LINE FOR LOADS TO 9000 LBS. (WT: 50 LBS.)
USE TWO PART LOAD LINE FOR LOADS TO 10,000 LBS. (WT: 124 LBS.)
Boom Attachments: Cont'd

Sheave Block and Downhaul Weight:

A 124 pound sheave block is provided for two-part line requirements. Block is shorter than normal; 21 1/2" from top to saddle of load hook. 10" O.D. sheave for 9/16" rope. Has swivel hook with safety latch. A 90 pound downhaul weight and swivel hook are also provided for single-part line.

Optional Boom Attachments:

53. **Boom Extension - 10 Ft.** (BE-13)

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 100 pounds from Capacity Chart when boom extension is in the stowed position. Includes switch for Anti-Two-Block. (Net Weight: 295 pounds)

54. **Boom Extension - 10 Ft. Offset** (BE-18)

Same as BE-13 except has three settings: 0 degrees (in-line), 15 degree offset and 30 degree offset. (Net Weight: 340 pounds)

55. **Searcher Hook - Link Under Tip** (SH-1)

5,000 pound capacity. Swivel hook with spring latch hangs from link on 2-part line lug under boom tip. (Net Weight: 15 pounds)

56. **Searcher Hook - Nose Mount** (SH-4)

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

57. **Load Moment Indicator - Krueger or PAT; (LMI)**

Warms operator of impending overload by audible and visual signals. Prevents overload by stopping boom functions that cause overload. Readouts for load, boom angle, boom length and load radius. Includes sensors and special electrical slip rings. (Net Weight: 50 pounds)

58. **Load Indicator - Krueger, PAT or Greer; (LI)**

Three-sheave load sensor on top of boom. Special electrical collector rings in turntable. Readout box on top of instrument panel shows load for 1-part and 2-part lines. (Net Weight: 50 pounds)

Specifications subject to change without notice