

CRANE CAPACITY CHART CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE LOAD MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS 360° ROTATION RADIUS OVER FRONT ON RUBBER ON RUBBER ON OUTRIGGERS FEET ON OUTRIGGERS 5 9600 17000 11700 18000 7900 14500 10400 14500 6 8 5750 10250 8400 10250 0 10 4150 7700 6300 7700 m 12 3100 6550 4650 6550 z 14 2425 5550 3750 5550 ⋖ 16 2000 4650 3100 4650 Σ 18 1700 4100 2650 4150 20 3550 2300 3800 1450 22 1275 3000 2000 3000 24 1075 2800 1725 2800 26 925 2500 1500 2600 × 28 775 2200 1300 2400 30 675 2000 1150 2250 Σ BOOM ō 10-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET 0 EXT MAIN BOOM ANGLE ANGLE O° 30 459 60° 70° 0 † N° 2250 2600 3200 5000 7000 †15° 2400 2700 3500 4200 †30° 2250 2500 3000 3300

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

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

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. 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.

0

DECK CAPACITY 14000 LBS, WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOADS MUST BE CENTERED BEHIND FRONT AXLE. SPEED MUST BE LESS THAN 2 MPH. MAXIMUM TRAVEL 200 FT. IN 30 MINUTES ON SMOOTH PAVEMENT.

PICK AND CARRY WITH THE SHORTEST PRACTICAL BOOM, CENTERED OVER THE FRONT. OPERATE WITH THE BOOM AS LOW AS POSSIBLE. WITH THE LOAD CLOSE TO GROUND. PICK AND CARRY CAPACITIES ARE FOR SMOOTH, LEVEL PAVED SURFACE. THE BOOMS ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING- NO ELECTRICAL INSULATION VALUE,

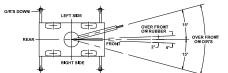
LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED PART OF THE LOAD.

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

ENSURE ANTI-TWO BLOCK SWITCH IS FUNCTIONAL AFTER DEPLOYING OR STOWING BOOM EXTENSION.

1. READ AND UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.

- CHECK LEVEL OF HYDRAULIC OIL AND ENGINE OIL DAILY.
   CHECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.
   SET VEHICLE PARK BRAKE SECURELY.
- 5. EXTEND OUTRIGGERS TO SOLID FOOTING AND LEVEL CRANE.
- 6. OPERATE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS



THE LOAD HOIST LINE ON THIS UNIT MUST BE 9/16" DIA. 6 X 36-EIP-RRL-IWRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 31,500 LBS 125 FT LONG.

TIRE PRESSURE: 135 PSI FOR 10R15, 18PR, LR J, RADIAL TIRE 110 PSI FOR 10.00-15, 16 PR, LR H, BIAS TIRE

120 PSI FOR 36 X 11-15, 16 PR, BIAS, MINING TIRE.

TORQUE WHEEL NUTS TO 500 FT. LBS. (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE)

MODEL NO.

SERIAL NO. DATE OF MFR. IC-80-1L

**BRODERSON MANUFACTURING** CORP. LENEXA, KANSAS

CRANE CAPACITY CHART CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE **METERS** 11.3 IC-80-1L 60 **METRIC** 10.0 45° 9.0 8.0 30° 7.0 5.0 .15° 3.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 RADIUS IN METERS FROM Ç ROTATION TO LOAD USE SINGLE PART USE TWO PART LOADLINE FOR LOADS TO 8160 kg (WT. 56 kg) LOAD LINE FOR 92 m LOADS TO 4080 kg (WT. 40 kg)

RADIUS											
METERS   ON RUBBER   ON OUTRIGGERS   ON RUBBER   ON OUTRIGGERS			LOAD	MAIN BOOM OR EXTENSION CAPACITIES IN KILOGRAMS							
1.5			RADIUS	360° ROTATION			OVER FRONT				
¥         2.0         3290         5980         4460         5980           O         2.5         2520         4480         3710         4480           3.0         1920         3540         2930         3540           M         3.5         1500         3090         2260         3090           Z         4.0         1210         2710         1850         2710           Z         5.0         870         2050         1360         2050           5.5         760         1850         1190         1870           6.0         670         1640         1060         1750           6.5         600         1390         950         1390           Y         7.0         530         1310         840         1310           X         8.0         410         1110         660         1160           Y         1         300         900         520         1020           BOOM         3 METER BOOM EXTENSION - STRAIGHT OR OFFSET         EXT         MAIN BOOM ANGLE           ANGLE         0°         10°         10°         10°         10°         10°         10°         10°         10			METERS	ON RUBBER	ON OUTRI	ON OUTRIGGERS		RUBBER	ON OUTRIGGERS		
2.5   2520   4480   3710   4480     3.0   1920   3540   2930   3540     3.5   1500   3090   2260   3090     4.0   1210   2710   1850   2710     4.5   1010   2350   1580   2350     5.0   870   2050   1360   2050     5.5   760   1850   1190   1870     6.0   670   1640   1060   1750     6.5   600   1390   950   1390			1.5	4350	771	0	ŧ	5300	8160		
O 3.0 1920 3540 2930 3540  M 3.5 1500 3090 2260 3090  Z 4.0 1210 2710 1850 2710  A.5 1010 2350 1580 2350  S 5.0 870 2050 1360 2050  6.5 600 1850 1190 1870  6.5 600 1390 950 1390  Y 7.0 530 1310 840 1310  X 8.0 410 1110 660 1160  M 9.1 300 9900 520 1020  M BOOM 3 METER BOOM EXTENSION - STRAIGHT OR OFFSET  EXT MAIN BOOM ANGLE  ANGLE 0° 30° 45° 60° 70°  8 10° 115° 1090 1420 1580 1900	(	_	2.0	3290	598	0	- 4	1460		5980	
0   3.0   1920   3540   2930   3540   2930   3540   2930   3090   3090   2260   3090   2400   3090   2260   3090   2400   3090   2260   3090   2400   3090   2260   3090   2450   3600   2350   1880   2350   3600   2050   3600   2050   3600   2050   360			2.5	2520	448	4480 3710		4480			
M     3.5     1500     3090     2260     3090       Z     4.0     1210     2710     1850     2710       4.5     1010     2350     1580     2350       5.5     760     1850     1190     1870       6.0     670     1640     1060     1750       6.5     600     1390     950     1390       Y     17.0     530     1310     840     1310       X     8.0     410     1110     660     1160       Y     9.1     300     900     520     1020       BOOM     3 METER BOOM EXTENSION - STRAIGHT OR OFFSET       MAIN BOOM ANGLE     ANGLE     0°     30°     45°     60°     70°       E     *10°     1020     1180     1450     2260     3170       115°     1090     1220     1580     1900			3.0	1920	354	0	2930		3540		
4.5			3.5	1500	309	3090		2260		3090	
4.5	۱ ۽	⋖	4.0	1210	210 2710		1850		2710		
S   S   S   S   S   S   S   S   S   S			4.5	1010	235	2350		1580		2350	
5.5 760 1850 1190 1870 6.0 670 1640 1060 1750 6.5 600 1390 950 1390  ∴ 7.0 530 1310 840 1310  × 8.0 410 1110 660 1160  9.1 300 900 520 1020  BOOM 3 METER BOOM EXTENSION - STRAIGHT OR OFFSET  EXT MAIN BOOM ANGLE  ANGLE 0° 30° 45° 60° 70°  E *10° 1020 1180 1450 2260 3170  115° 1090 1220 1580 1900			5.0	870	205	2050		1360		2050	
Column   C	1		5.5	760	185	1850		1190		1870	
1.0   1.0			6.0	670	164	1640		1060		1750	
X   8.0   410   1110   660   1160   9.1   300   900   520   102	×		6.5	600	139	1390		950		1390	
W   9.1   300   900   520   1020		- ∣	7.0	530	131	1310		840		1310	
SOOM   3 METER BOOM EXTENSION - STRAIGHT OR OFFSET			8.0	410	111	1110		660		1160	
C			9.1	300	900	900		520		1020	
Name			воом	3 METER BOOM EXTENSION - STRAIGHT OR OFFSET							
Magle   0°   30°   45°   60°   70°   8°   10°   1180   1450   2260   3170   115°   1090   1220   1580   1900			EXT	MAIN BOOM ANGLE							
m 115° — 1090 1220 1580 1900			ANGLE	0°	30°	45	5°	60°		70°	
ო †15° — 1090 1220 1580 1900	١,	Е	*† 0°	1020	1180	14	50	2260		3170	
†30°   1020   1130   1360   1490			†15°	_	1090	12	20	1580		1900	
			†30°		1020	11	30	1360		1490	

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

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

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. 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.

DECK CAPACITY 6350 kg, WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOADS MUST BE CENTERED BEHINI AXLE. SPEED MUST BE LESS THAN 3 kmh. MAXIMUM TRAVEL 60 METERS IN 30 MINUTES ON SMOOTH PAVEMENT.

PICK AND CARRY WITH THE SHORTEST PRACTICAL BOOM, CENTERED OVER THE FRONT. OPERATE WITH THE BOOM AS LOW AS POSSIBLE, WITH THE LOAD CLOSE TO GROUND. PICK AND CARRY CAPACITIES ARE FOR SMOOTH, LEVEL PAVED SURFACE. THE BOOMS ON THIS UNIT ARE ALL STEEL AND HAVE NO LINE VOLTAGE RATING- NO ELECTRICAL INSULATION VALUE. LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED PART OF THE LOAD.

MAXIMUM HYDRAULIC PRESSURE 179 BAR.

BOOM EXTENSION DEDUCT: 45 kg WHEN STOWED ON BASE BOOM.

ENSURE ANTI-TWO BLOCK SWITCH IS FUNCTIONAL AFTER DEPLOYING OR STOWING BOOM EXTENSION,

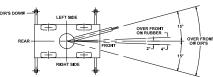
OPERATION:

1. READ AND UNDERSTAND OPERATION MANUAL BEFORE OPERATING CRANE.

2. CHECK LEVEL OF HYDRAULIC OIL AND ENGINE OIL DAILY. 3. CHECK UNIT FOR VISIBLE DEFECTS AND LOOSE PARTS.

4. SET VEHICLE PARK BRAKE SECURELY

4. SEL VENIGLE PARK BRANE SECURELT. S. EXTEND OUTRIGGERS TO SOLID FOOTING AND LEVEL CRANE. 6. OPERATE ALL HYDRAULIC CONTROLS SLOWLY AND SMOOTHLY. AVOID SUDDEN STOPS AND STARTS.



THE LOAD HOIST LINE ON THIS UNIT MUST BE 14.3 mm DIA, 6 X 36-EIP-RRL-WRC WIRE ROPE (OR EQUIVALENT) WITH A MINIMUM BREAKING STRENGTH OF 140 kN 38 m LONG.

TIRE PRESSURE: 930 kPa FOR 10R15, 18PR, LR J, RADIAL TIRE 758 kPa FOR 10.00-15, 16 PR, LR H, BIAS TIRE 827 kPa FOR 36 X 11-15, 16 PR, BIAS, MINING TIRE

TORQUE WHEEL NUTS TO 678~Nm~ (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE)

MODEL NO SERIAL NO. DATE OF MFR. IC-80-1L

**BRODERSON MANUFACTURING CORP. LENEXA, KANSAS** 

0