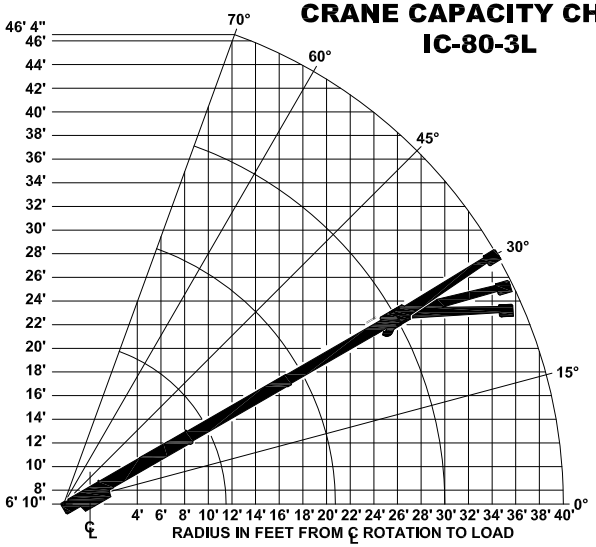
CRANE CAPACITY CHART
IC-80-3L



USE SINGLE-PART LOAD LINE FOR LOADS TO 9000 LBS. (WT. 90 LBS.)

USE TWO-PART LOAD LINE FOR LOADS TO 18000 LBS. (WT. 124 LBS.)

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE					
LOAD RADIUS	MAIN BOOM OR EXTENSION CAPACITIES IN POUNDS				
	360° ROTATION		OVER FRONT		
FEET	ON RUBBER	ON OUTRIGGERS	ON RUBBER	ON OUTRIGGERS	
MAIN BOOM					
5	9400	17000	11400	18000	
6	7550	14000	10000	14000	
8	5600	10000	8100	10000	
10	4300	7700	6100	7700	
12	3200	6100	4450	6100	
14	2550	5200	3400	5200	
16	2050	4400	2700	4400	
18	1650	3900	2200	3900	
20	1350	3400	1800	3400	
22	1150	3050	1550	3050	
24	1000	2750	1350	2800	
26	850	2450	1200	2550	
28	750	2200	1100	2350	
30	650	1950	1000	2150	
10' BOOM EXT.					
32	450	1750	900	1950	
34	350	1600	800	1800	
36	250	1450	700	1650	
38	200	1300	600	1500	
40	150	1150	500	1400	
BOOM EXTENSION ANGLE	10-FOOT BOOM EXTENSION - STRAIGHT OR OFFSET				
	MAIN BOOM ANGLE				
	0°	30°	45°	60°	70°
*† 0°	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.

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.

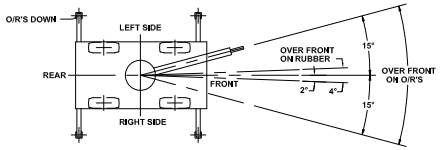
LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED PART OF THE LOAD.

MAXIMUM HYDRAULIC PRESSURE 2600 PSI.

BOOM EXTENSION DEDUCT: 100 LBS. 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.
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.

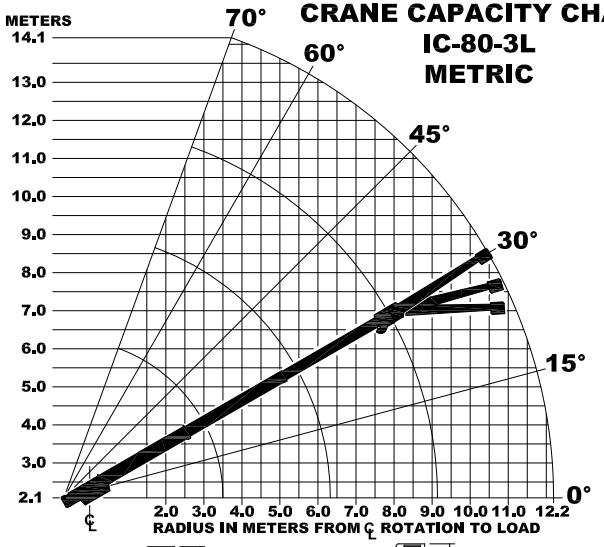
TORQUE WHEEL NUTS TO 500 FT. LBS. (THESE CONDITIONS MUST BE MAINTAINED TO HANDLE RATED LOADS ON THIS CRANE)

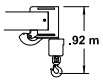
MODEL NO.	SERIAL NO.	DATE OF MFR.
IC-80-3L		

BRODERSON MANUFACTURING CORP. LENEXA, KANSAS

65401164

CRANE CAPACITY CHART
IC-80-3L
METRIC





USE SINGLE-PART LOAD LINE FOR LOADS TO 4080 kg (WT. 40 kg)

USE TWO-PART LOAD LINE FOR LOADS TO 8160 kg (WT. 56 kg)

CAPACITIES APPLY TO OPERATION ON FIRM LEVEL SURFACE					
LOAD RADIUS	MAIN BOOM OR EXTENSION CAPACITIES IN KILOGRAMS				
	360° ROTATION		OVER FRONT		
METERS	ON RUBBER	ON OUTRIGGERS	ON RUBBER	ON OUTRIGGERS	
MAIN BOOM					
1.5	4260	7710	5170	8160	
2.0	3140	5790	4290	5790	
2.5	2470	4400	3580	4400	
3.0	1990	3560	2830	3560	
3.5	1560	2910	2180	2910	
4.0	1270	2520	1720	2520	
4.5	1060	2210	1400	2210	
5.0	890	1950	1170	1950	
5.5	740	1760	990	1760	
6.0	630	1570	840	1570	
6.5	540	1430	730	1430	
7.0	480	1320	650	1330	
7.5	430	1200	580	1230	
8.0	380	1090	530	1140	
8.5	340	1000	500	1070	
3m BOOM EXT.					
9.0	290	910	460	990	
10.0	180	760	390	850	
11.0	110	650	310	740	
12.2	60	520	220	630	
BOOM EXTENSION ANGLE	3 METER BOOM EXTENSION - STRAIGHT OR OFFSET				
	MAIN BOOM ANGLE				
	0°	30°	45°	60°	70°
*† 0°	1020	1180	1450	2260	3170
†15°	—	1090	1220	1580	1900
†30°	—	1020	1130	1360	1490

*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.

DECK CAPACITY 6350 kg, WITH EMPTY BOOM RETRACTED OVER FRONT. DECK LOADS MUST BE CENTERED BEHIND FRONT AXLE. SPEED MUST BE LESS THAN 3 km/h. MAXIMUM TRAVEL 60 m 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.

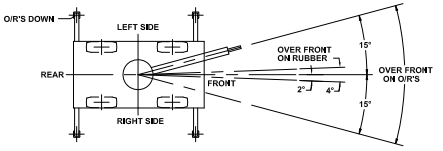
LOAD HOOKS, DOWNHAUL WEIGHTS, HOOK BLOCKS AND OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED PART OF THE LOAD.

MAXIMUM HYDRAULIC PRESSURE 180 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.
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 14.3 mm DIA. 6 X 36-EIP-RRL-IWRC 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-80-3L		

BRODERSON MANUFACTURING CORP. LENEXA, KANSAS

65401188