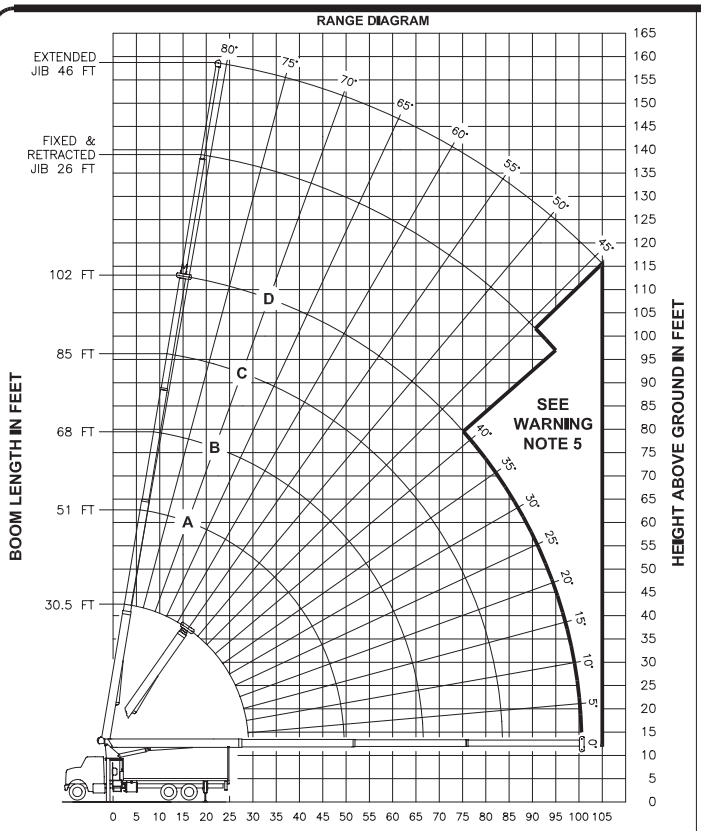
RANGE DIAGRAM



LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

LMI CODE #1

OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH AND MARKER	A 30.5 FT	A 51 FT	B 68 FT	C 85 FT	D 102 FT
5	80	60000				
8	75	39690				
10	71	33510	79 22500			
12	67	29120	77 22500			
15	60	24440	73 21710	79 20590		
20	48	19280	67 16910	74 15830	78 14420	81 10500
25	33	15480	61 13850	70 12840	75 12180	78 9650
30			54 11700	65 10770	72 10140	76 8670
35			47 9770	60 9240	68 8640	73 7670
40			38 7510	55 7720	64 7490	70 6490
45			27 5910	50 6110	60 6220	66 5590
50				43 4920	56 5030	63 4860
55				36 3990	51 4100	60 4160
60				28 3250	47 3360	56 3420
65				15 2630	41 2760	53 2820
70					36 2250	49 2320
75					29 1820	45 1890
80					19 1450	40 1530
85						36 1210
90						29 930
95						22 690
100						
105						
		490 LBS	290 LBS	220 LBS	180 LBS	150 LBS
		730 LBS	440 LBS	330 LBS	260 LBS	220 LBS

JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED

	FIXED JIB	TELESCOPIC JIB			
	LMI CODE #2	LMI CODE #3		LMI CODE #4	
OPERATING RADIUS FT	LOADED BOOM ANG	JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4	LOADED BOOM ANG	JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4	LOADED BOOM ANG	JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4
	∠	26 FT	∠	26 FT	∠	46 FT
10						
12						
15						
20						
25	81	5300	81	5100		
30	79	5300	79	5100	81	3050
35	77	4990	77	4730	79	3050
40	75	4580	75	4310	77	3050
45	72	4190	72	3910	76	3050
50	70	3830	70	3550	74	2910
55	68	3480	68	3110	72	2740
60	65	3020	65	2670	70	2590
65	63	2630	63	2280	68	2410
70	60	2310	60	1950	66	2130
75	57	2010	57	1670	63	1880
80	54	1640	54	1340	61	1610
85	51	1320	51	1030	59	1400
90	48	1050	48	750	56	1200
95	45	800	45	500	54	970
100	42	580			51	750
105					48	550
	DEDUCTIONS FOR STOWED FIXED JIB					
	DEDUCTIONS FOR STOWED TELESCOPIC JIB					

WARNING

1. THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
4. THE OPERATING RADIUS SHOWN IN THE JIB RATING CHART IS FOR FULLY EXTENDED BOOM ONLY. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIB.
5. BOOM MUST BE FULLY RETRACTED WHEN JIB IS ERECTED, BEFORE LOWERING BOOM THRU THIS AREA.
6. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
7. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT SHORTER OR LONGER BOOM LENGTH, WHICHEVER IS LESS. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
8. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.
9. PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
10. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART. BOOM MUST BE FULLY RETRACTED AGAINST BOOM STOPS AT ALL TIMES WHEN LIFTING MINIMUM BOOM LENGTH CAPACITY LOADS.

INFORMATION

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOAD-BLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS AND STABILIZERS EXTENDED AND SET WITH MACHINE LEVELED.
3. LOAD RATINGS ABOVE THE HEAVY LINE ARE STRUCTURALLY LIMITED CAPACITIES. LOAD RATINGS BELOW THE HEAVY LINE ARE STABILITY LIMITED CAPACITIES AND DO NOT EXCEED 85% OF TIPPING.

DEFINITIONS

1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY ∠, IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

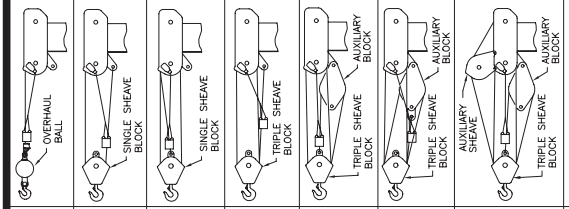
LMI OPERATING CODES

SETTING	CRANE CONFIGURATION
#1---	MAIN BOOM
#2---	FIXED JIB
#3---	TELESCOPIC JIB–RETRACTED
#4---	TELESCOPIC JIB–EXTENDED

SETTING	CRANE WITH PERSONNEL LIFTING PLATFORM
#5---	PERSONNEL LIFTING PLATFORM ON MAIN BOOM
#6---	PERSONNEL LIFTING PLATFORM ON FIXED JIB
#7---	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB–RETRACTED
#8---	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB–EXTENDED

ALLOWABLE LINE PULL

1 PART	2 PART	3 PART	4 PART	5 PART	6 PART	7 PART
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	51000 LBS	60000 LBS
7400 LBS	14800 LBS	22200 LBS	29600 LBS	37000 LBS	44400 LBS	51800 LBS



WARNING

ANTI–TWO–BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE.

REFER TO THE OWNER'S MANUAL.

KEEP AT LEAST 3 WRAPS OF LOAD LINE ON THE DRUM AT ALL TIMES.

9/16" 6X25 IWRC (3.5:1 SF) – 29750 LBS MIN BREAKING STRENGTH

9/16" ROT RESISTANT (5.0:1 SF) – 37000 LBS MIN BREAKING STRENGTH

DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

AUXILIARY BLOCK	50 LBS
AUXILIARY SHEAVE	50 LBS
OVERHAUL BALL	SEE OVERHAUL BALL MFGR. NAMEPLATE
LOAD BLOCK	SEE BLOCK MFGR. NAMEPLATE
HOSE REEL	140 LBS
SWING AROUND JIB	SEE LOAD CHART

WARNING

LIFTING OFF THE MAIN BOOM POINT WHILE THE JIB IS ERECTED IS NOT INTENDED OR APPROVED.

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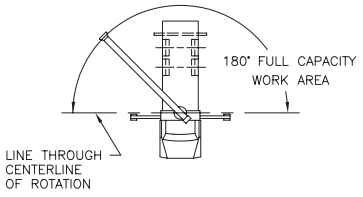
MODELS
30102C & 30102T

CRANE MEETS ANSI B30.5 REQUIREMENTS

7300096–001 NR



AREA OF OPERATION