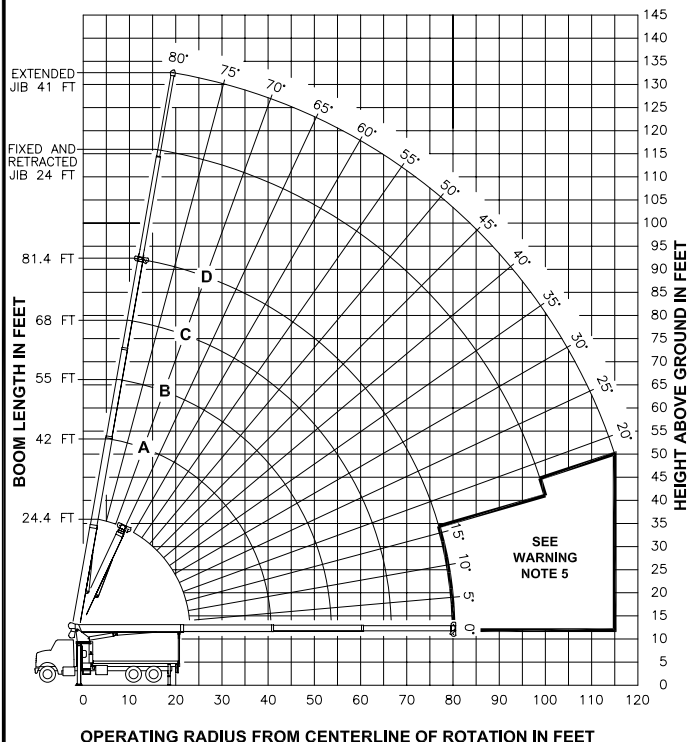




RANGE DIAGRAM



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

LMI OPERATING CODES

SETTING	CRANE CONFIGURATION	SETTING	CRANE WITH PERSONNEL LIFTING PLATFORM
#1---	MAIN BOOM	#5---	PERSONNEL LIFTING PLATFORM ON MAIN BOOM
#2---	FIXED JIB	#6---	PERSONNEL LIFTING PLATFORM ON FIXED JIB
#3---	TELE JIB - RETRACTED	#7---	PERSONNEL LIFTING PLATFORM ON TELE JIB - RETRACTED
#4---	TELE JIB - EXTENDED	#8---	PERSONNEL LIFTING PLATFORM ON TELE JIB - EXTENDED

ALLOWABLE LINE PULL

1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	44000 LBS
7400 LBS	14800 LBS	22200 LBS	29600 LBS	37000 LBS	44000 LBS

WARNING

ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNER'S MANUAL.

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

9/16" - 6X25 WRC (3.5:1 S.F.)
29750 LBS. BREAKING STRENGTH
9/16" ROT RESISTANT (5.0:1 S.F.)
37000 LBS. BREAKING STRENGTH

DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

AUXILIARY BLOCK	---	50 LBS
OVERHAUL BALL	---	SEE OVERHAUL BALL MFR. NAMEPLATE
LOAD BLOCK	---	SEE BLOCK MFR. NAMEPLATE
HOSE REEL	---	160 LBS
SWING AROUND JIB	---	SEE LOAD CHART

WARNING

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

LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

LMI CODE #1						JIB LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED			
BOOM LENGTH TENS OF FEET	BOOM ANGLE BOOM LENGTH AND MARKER	LMI CODE #2				LMI CODE #3			
		A	B	C	D	FIXED JIB LMI CODE #2	TELESCOPIC JIB LMI CODE #3	TELESCOPIC JIB LMI CODE #4	TELESCOPIC JIB LMI CODE #4
BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER	BOOM ANGLE BOOM LENGTH AND MARKER
24.4 FT	42 FT	55 FT	68 FT	81.4 FT	24 FT	24 FT	41 FT	41 FT	41 FT
5 78 44000									
8 70 35150									
10 65 29700	76 14500								
12 60 24640	74 14500	78 14500							
14 54 20870	71 14500	76 14500	80 13050						
17 44 16830	66 14500	73 14500	77 11700	80 9200					
20 32 13940	62 14270	70 13430	75 10550	78 8500					
25	54 10990	64 11000	70 9000	75 7550	25 78 4360	78 4160	80 3000		
30	44 8780	58 8880	66 8120	71 6640	30 76 3900	76 3700	78 2740		
35	32 7180	51 7290	61 7120	67 5880	35 73 3500	73 3290	76 2490		
40	13 5620	44 5770	56 5840	63 5260	40 70 3160	70 2940	74 2260		
45		35 4650	50 4720	59 4700	45 67 2850	67 2640	71 2070		
50		24 3800	44 3880	55 3930	50 64 2590	64 2370	69 1900		
55			37 3230	50 3270	55 61 2370	61 2140	66 1730		
60			28 2700	45 2750	60 58 2170	58 1950	64 1580		
65			15 2260	39 2320	65 55 2000	55 1770	61 1430		
70				32 1960	70 51 1840	51 1620	58 1310		
75				24 1650	75 47 1710	47 1470	55 1210		
80				3 1380	80 43 1490	43 1260	52 1110		
85					85 39 1260	39 1030	49 1020		
90					90 34 1070	34 830	46 940		
95					95 27 890	27 650	42 870		
100					100 19 730	19 500	38 790		
105					105		34 650		
110					110		29 520		
115					115		22 410		
290 LBS.						DEDUCTIONS FOR STOWED FIXED JIB			
440 LBS.						DEDUCTIONS FOR STOWED TELESCOPIC JIB			

WARNING

- THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
- POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
- 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.
- 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.
- BOOM MUST BE FULLY RETRACTED WHEN JIB IS ERECTED, BEFORE LOWERING BOOM THROUGH THIS AREA.
- FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
- FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT LONGER BOOM LENGTH. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
- 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.
- 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.
- 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.

DEFINITIONS

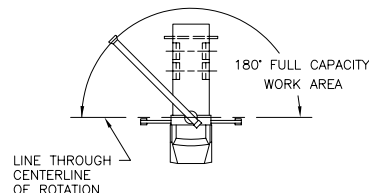
- DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOADBLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
 - CRANE LOAD RATINGS WITH OUTRIGGERS ARE BASED ON OUTRIGGERS AND STABILIZERS EXTENDED AND SET WITH MACHINE LEVELED.
 - 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**
- OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
 - LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY $\angle$ IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

Manitex

MODELS
2281C & 2281T

CRANE MEETS ANSI B30.5 REQUIREMENTS

7300087-004 NR



AREA OF OPERATION