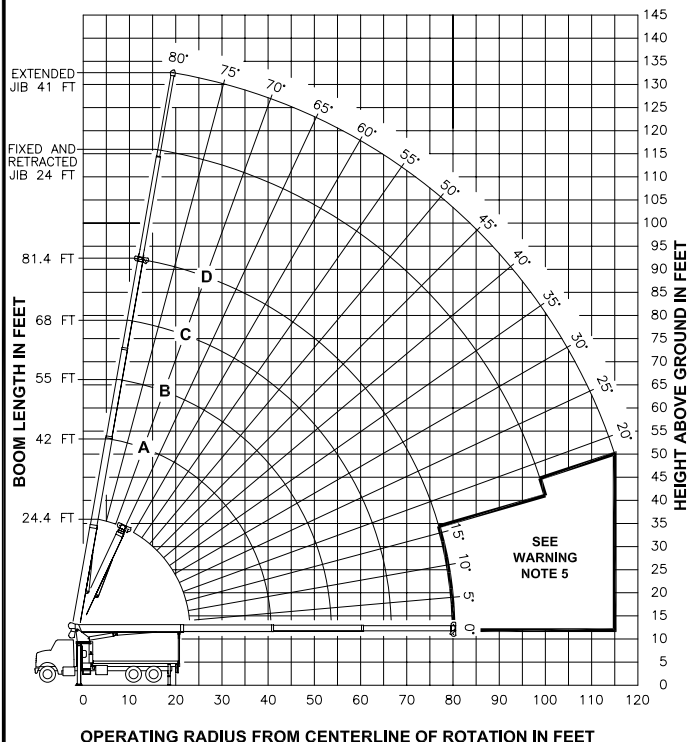




RANGE DIAGRAM



LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

LMI CODE #1												
OPERATING HEIGHT	LOADED BOOM ANGLE		BOOM LENGTH AND MARKER									
					A		B		C		D	
					°	24.4 FT	°	42 FT	°	55 FT	°	68 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		
30			44	8780	58	8880	66	8120	71	6640		
35			32	7180	51	7290	61	7120	67	5880		
40			13	5620	44	5770	56	5840	63	5260		
45					35	4650	50	4720	59	4700		
50					24	3800	44	3880	55	3930		
55							37	3230	50	3270		
60							28	2700	45	2750		
65							15	2260	39	2320		
70									32	1960		
75									24	1650		
80									3	1380		
85												
90												
95												
100												
105												
110												
115												
		290 LBS.		170 LBS.		130 LBS.		110 LBS.		90 LBS.		
		440 LBS.		260 LBS.		200 LBS.		160 LBS.		140 LBS.		

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 ERCTED, 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.

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

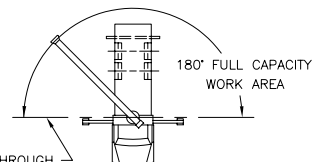
LIFTING OFF THE MAIN BOOM POINT WHILE THE JIB IS ERCTED IS NOT INTENDED OR APPROVED.

Manitex

MODELS
2281C & 2281T

CRANE MEETS ANSI B30.5 REQUIREMENTS

7300087-004 NR



LINE THROUGH
CENTERLINE
OF ROTATION

AREA OF OPERATION