Load Rating Chart

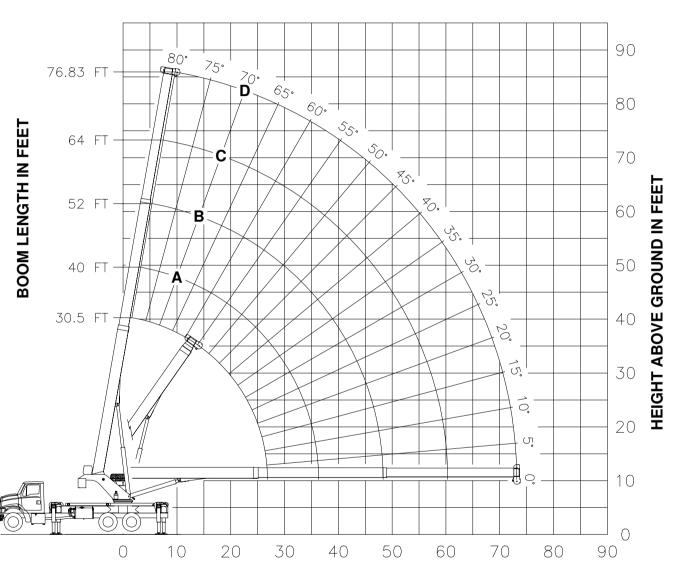
Model 3877SHL



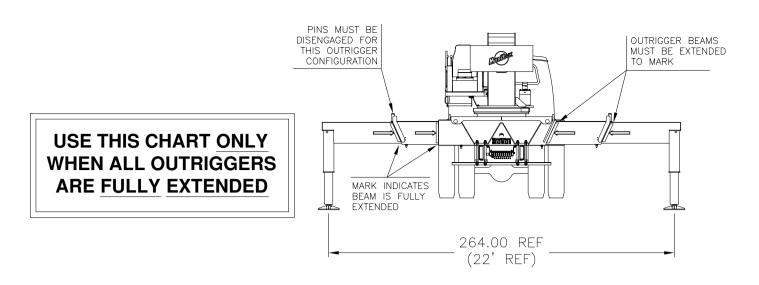
© Manitex

NOTE: Additional copies of this Load Rating Chart can be purchased from your Manitex Distributor. When ordering, use the part number shown in the bottom left corner of this page.

RANGE DIAGRAM - FULLY EXTENDED OUTRIGGER CONFIGURATION -



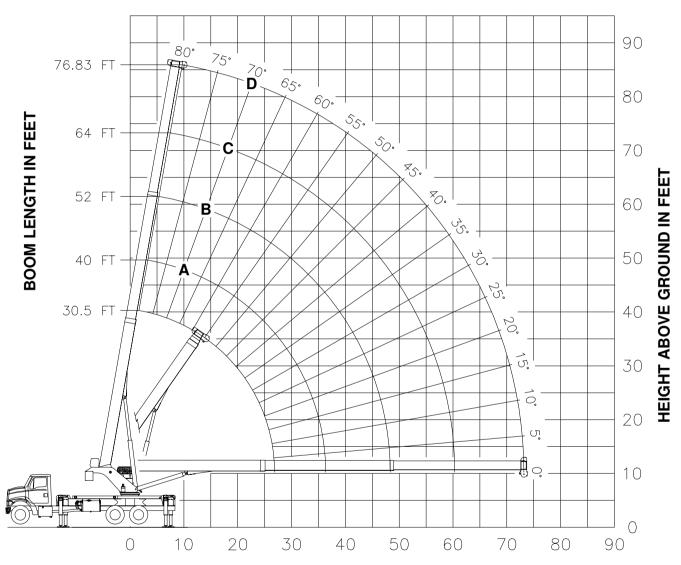
OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET



- FULLY EXTENDED OUTRIGGER CONFIGURATION -

MAIN BOOM LOAD RATINGS IN LBS WITH OUTRIGGERS PLACED AS SHOWN AND THE CRANE LEVEL												
LMI CODE #1												
O R A D I U S								2ND 1				
N F G T	A				В			С		D		
	<u>/</u>	30.5 FT	<u>/</u>	40 FT	<u>/</u>	52 FT	<u>/</u>	64 FT	<u>/</u>	76.83 FT		
5	75	76000										
8	69	61760	74	55500	79	47500						
10	65	53930	71	50920	76	47500	80	38000				
12	61	48090	68	45240	74	42760	78	35050	80	28410		
15	54	41110	64	38890	71	36570	75	30890	78	25500		
20	41	33020	55	31330	65	29590	70	25850	74	21670		
25	21	25700	46	26330	58	24750	65	65 21930		18870		
30			34	20490	51	20730	60	19000	66	16470		
35			16	16100	44	16380	55	16500	62	14540		
40					34	13340	49	13470	58	12950		
45					22	11090	42	11230	53	11300		
50							35	9510	48	9590		
55							25	8140	43	8230		
60							7 7000 36		7120			
65									29	6200		
70									19	5420		

RANGE DIAGRAM - INTERMEDIATE SPREAD CONFIGURATION (MID EXTEND)



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

NOTE: LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

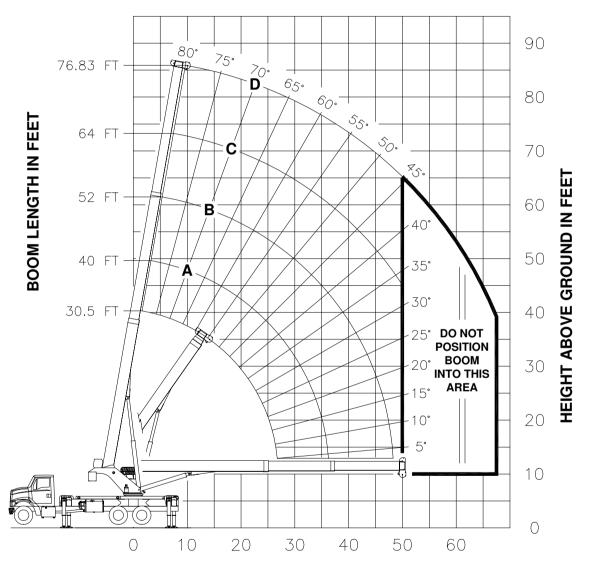
USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE IN THE INTERMEDIATE POSITION MARK INDICATES BEAM IS FULLY EXTENDED 159.25 REF (13'-3.25 REF)

PINS MUST BE

- INTERMEDIATE OUTRIGGER CONFIGURATION -

MAIN BOOM LOAD RATINGS IN LBS WITH OUTRIGGERS PLACED AS SHOWN AND THE CRANE LEVEL												
LMI CODE #9												
O R P A E D R I A S A S A S A S A S A S A S A S A S A					2ND 1ST BASE							
N F G T			A		В			С	D			
G I	<u>/</u>	30.5 FT	<u>/</u>	40 FT	<u>/</u>	52 FT	<u>/</u>	64 FT	<u>/</u>	76.83 FT		
5	75	76000										
8	69	61760	74	55500	79	47500						
10	65	53930	71	50920	76	47500	80	38000				
12	61	48090	68	45240	74	42760	78	35050	80	28410		
15	54	35420	64	35840	71	36140	75	30890	78	25500		
20	41	20660	55	21030	65	21270	70	21410	74	21510		
25	21	13880	46	14270	58	14490	65	14620	70	14700		
30			34	10380	51	10610	60	10730	66	10800		
35			16	7830	44	8090	55	8210	62	8280		
40					34	6320	49	6440	58	6510		
45					22	4990	42	5130	53	5200		
50							35	4110	48	4190		
55							25	3300	43	3380		
60							7	2610	36	2730		
65									29	2180		
70									19	1710		

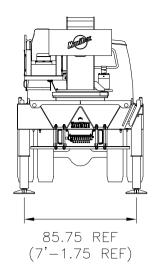
RANGE DIAGRAM - FULLY RETRACTED OUTRIGGER CONFIGURATION -



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

NOTE: LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

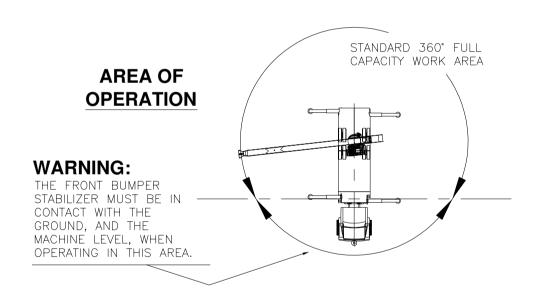
USE THIS CHART ONLY WHEN ALL OUTRIGGERS ARE FULLY RETRACTED



- FULLY RETRACTED OUTRIGGER CONFIGURATION -

MAIN BOOM LOAD RATINGS IN LBS WITH OUTRIGGERS PLACED AS SHOWN AND THE CRANE LEVEL											
LMI CODE #13											
O R A D I U S	9			-	BASE O						
N F G T	A B							С	D		
G	<u>/</u>	30.5 FT	6	40 FT	6	52 FT	6	64 FT	<u>/</u>	76.83 FT	
5	75	76000									
8	69	44100	74	44560	79	44890					
10	65	29170	71	29550	76	29810	80	29980			
12	61	21330	68	21660	74	21890	78	22030	80	22130	
15	54	14690	64	15000	71	15200	75	15320	78	15410	
20	41	9000	55	9290	65	9480	70	9590	74	9650	
25	21	5900	46	6240	58	6420	65	6520	70	6580	
30			34	4320	51	4520	60	4610	66	4670	
35			16	2980	44	3210	55	3310	62	3370	
40					34	2260	49	2360	58	2420	
45					22	1520	42	1640	53	1700	
50							35	1070	48	1130	
55											

		ALLC	WABLI	E LINE F	PULL			WARNING
1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	8 PART LINE	WAIIIIII
COCHUL COVERHAUL CONERHAUL	SINGLE SHEAVE BLOCK	SINGLE SHEAVE	CA OB CASHEAVE BLOCK	CA OPLEAVE CALLOR OF THE BLOCK	G O O O O O O O O O O O O O O O O O O O	4-SHEAVE AUXILIARY BLOCK	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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.
9080 LBS	18160 LBS	27240 LBS	36320 LBS	45400 LBS	54480 LBS	63560 LBS	72640 LBS	5/8" ROT RESISTANT (5.0:1 SF) - 45400 LBS MIN BREAKING STRENGTH
9500 LBS	19000 LBS	28500 LBS	38000 LBS	47500 LBS	57000 LBS	66500 LBS	76000 LBS	5/8" 6 X 25 IWRC (3.5:1 SF) - 33250 LBS MIN BREAKING STRENGTH



DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

AUXILIARY BLOCK55 LBS
OVERHAUL BALL SEE OVERHAUL BALL MFRG. NAMEPLATE
LOADBLOCK — — — — — — — — — — SEE LOADBLOCK MFRG. NAMEPLATE
HOSE REEL 260 LBS
AUXILIARY SHEAVE 60 LBS

LMI OPERATING CODES

SE	TTING CRANE CONFIGURATION	<u> </u>	TRIGGER CONFIGURATION
	#1 MAIN BOOM	_	FULLY EXTENDED
_	#5 PERSONNEL LIFTING PLATFORM ON MAIN BOOM		FULLY EXTENDED
_	#9 MAIN BOOM		INTERMEDIATE
_	#13 — MAIN BOOM — — — — — — — — — — — —		FULLY RETRACTED

WARNING

- THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANF.
- 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. 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.
- 5. 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.
- 6. 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.
- 7. 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.

INFORMATION

- DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR 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.
- 2. 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.