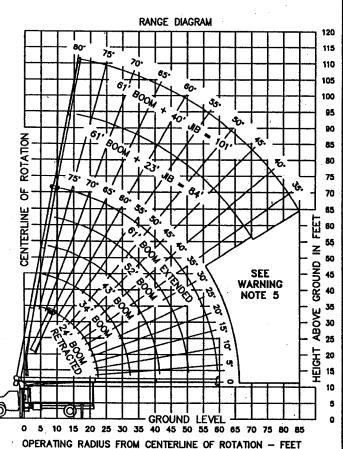
LIFTING CHARTS - Boom Trucks

MANITEX MODEL M1461 - 14 TON CAPACITY





A	LLOWABLE	L	WARNING	
PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	MAIMMA
S OVERHALL	SMG/E SHEAVE LOAD BLOCK	ADDUARY BLOCK	ADDILLARY BLOCK BLOCK BLOCK BLOCK	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.
7600 LBS	15200 LBS	22800 LBS	28000 LBS	1/2" OR 8/16"-6X25 MRC (3.5:1 SF) 26600 LBS, MM BREAKING STRENGTH
7400 LBS	14800 LBS	22200 LBS	28000 LBS	8/18" ROT RESISTANT (S.O. 1 SF) 37000 LRS, NAM BREAGNO STRENGTH

DEDUCTIONS FROM RATED LOADS FOR MANITEX SUPPLIED LOAD HANDLING DEVICES
AUXELIARY BLOCK
SINGLE SHEAVE LOAD BLOCK
DOUBLE SHEAVE LOAD BLOCK350 LBS HOSE REEL
SWING AROUND JIB (STOWED) SEE LOAD CHART

WARNING

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

24 FT 28000 19500 18400 11570 8100	76 72 68 63 53 41 24	34 FT 18100 15230 13180 10920 8410 6820 4840	76 74 69 62 54 45 34	43 FT 14460 12090 10390 8570 8600 5280 4280 3390	F	52 FT 11390 9810 8150 6290 5080 4170	79 77 72 67 61	9000 7700 8000 4820	10 12 15 20 25	80 77 74	23 FT Jab POR ALL POR	79 77	40 FT JBB FOR ALL BOOM LENGTHS SEE WASHING HOTE 4 WATER LON N FOLIANS 2100 1900
28000 19500 18400 14130 11570	72 68 63 53 41	18100 15230 13180 10920 8410 6820	76 74 69 62 54 45 34	14460 12090 10390 8570 8800 5280 4280	79 77 74 88 61 55	11390 9610 8150 6290 5060 4170	79 77 72 87	9000 7700 6000 4820	10 12 15 20 25	80 77 74	NOTE 4 RATED LOAD BY POLICES 3800 3300	₹ Å 	NOTE 4 NOTE 4 NOTE 100
19500 15400 14130 11570	72 68 63 53 41	15230 13180 10920 8410 6820	76 74 69 62 54 45 34	12090 10390 8570 8600 5280 4280	77 74 88 81 55	9610 8150 6290 5060 4170	77 72 67	7700 6000 4820	10 12 15 20 25	77 74	3800 3300	79	N POUNDS
18400 14130 11570	72 68 63 53 41	15230 13180 10920 8410 6820	76 74 69 62 54 45 34	12090 10390 8570 8600 5280 4280	77 74 88 81 55	9610 8150 6290 5060 4170	77 72 67	7700 6000 4820	12 15 20 25	77 74	3800 3300	79	2100
14130 11570	68 63 53 41	13180 10920 8410 6820	74 69 62 54 45 34	10390 8570 8600 5280 4280	77 74 88 81 55	9610 8150 6290 5060 4170	77 72 67	7700 6000 4820	12 15 20 25	77 74	3300		
11570	63 53 41	10920 8410 6820	69 62 54 45 34	8570 8800 5280 4280	74 88 61 55	8150 6290 5060 4170	77 72 67	7700 6000 4820	15 20 25	77 74	3300		
8100	53 41	8410 6820	62 54 45 34	8600 5280 4280	68 61 55	6290 5060 4170	72 67	8000 4820	20 25	77 74	3300		
	_		45 34	4280	55	5060 4170	_		25	74			
	24	4840	34				61	4000	-			111	
			-	3390	48	,,,,			30	170 i	2350	74	1850
						3470	56	3370	35	68	2030	171	1450
		I	17	2270	39	2860	50	2850	40	63	1760	68	1280
					29	2250	43	2400	45	59	1510	65	1140
					10	1210	35	1980	50	54	1290	62	1020
							24	1490	55	50	1100	58	920
									60	45	930	55	830
									65	40	780	51	750
									70	34	640	48	680
									75			44	610
									80	\Box		39	520
									85			34	440
									90			П	
			Ĺ						95			\mathbf{I}	
- 1					<u> </u>				100			\Box	
_			100 100	LBS 320 LBS 25	LBS 320 LBS 250 LBS	LBS 320 LBS 250 LBS 21	LBS 320 LBS 250 LBS 210 LBS	LBS 320 LBS 250 LBS 210 LBS 18	LBS 320 LBS 250 LBS 210 LBS 180 LBS	90 90 95 100	80 85 90 95 100	90 90 90 95 100	90 95 95 95 95 95 95 95 95 95 95 95 95 95

- NING
 THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATOR THIS CRAME.
 POSITIONING OR OPERATION OF CRAME SEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED
 EXCEPT WHERE SPECIPED IN OWNER'S MANUAL.
 LOADED BOOM ANGLES AT SPECIPED SOON LEMOSTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS.
 THE SOOM ANGLE SEFORE LOADING SHOULD SE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED
 THE OPERATING RADIUS SHOWN IN THE JIS RATING CHART IS FOR FULLY EXTENDED BOOM ONLY.
 WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIS.
 BOOM MUST SE FULLY RETRACTED WHEN JIS IS RECEIVED, BEFORE LOWERING BOOM THAT THE BOOM.
 FOR BOOM ANGLES NOT SHOWN ON HIS LOAD RATING CHART. USE SATING OF MEXT LOWER BOOM.
- R. FOR BOOM ANGLES NOT SHOWN ON AB LOAD RATING CHART, USE RATING OF MEXT LOWER BOOM ANGLE.
 7. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF MEXT LONGER BOOM LENGTH. FOR RADII NOT SHOWN, USE RATING OF MEXT LONGER RADIIS.
- CRANE LOAD RATINGS ON OUTTINGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRST UNFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORZONTALLY ON THE GROUND IN ANY DIRECTION.
- PRACTICAL WORKING LOADS BETWEEN ON SUFFORTING SUFFACE, WHO, AND OTHER FACTORS AFFECTING
 STABILITY SHORT AS HAZARDOUS SURROUMENCE, DEFENCE OF PERSONNEL, AND PROPER HANDLING,
 ALL OF WHICH MUST BE TAKEN MITO ACCOUNT BY THE OPERATOR.
 THE MASHAMI LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRARLIC PRESSURE, BOOM ANGLE, AND BOOM
 LIMITED BY HYDRARLIC PRESSURE, BOOM ANGLE, AND BOOM
 LIMITED BY HYDRARLIC PRESSURE, SOOM ANGLE, AND GOART.

INFORMATION

- DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JB, OPTIONAL ATTACHMENTS, HOCKS, AND LOAD-BLOCKS (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 BOX OF TRYPING.

DEFINITIONS

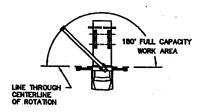
- I OPERATING RADIUS IS THE HONIZONTAL DISTANCE FROM THE AIGS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TAGGE WITH LOAD APPLIED.

 LOADED BOOM ANGLE AS THOMIN IN THE COLLIAM HEADED BY IS THE INCLIDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AIGS OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.



MANITEX INC. CRANE MEETS ANSI B30.5 REQUIREMENTS

DWG NO. 7300047-001 REV. [A]



AREA OF OPERATION

STERLING CRANE

CENTER OF GRAVITY AND AXLE LOAD ANALYSIS

	1401 S/N-39824 ESTIMATED TRUCK IN STERLING CRANE				PROGRAM NAME: (
_	RANDY ROBERTSON				DEVELOPED BY: 1	
ATE: 1	1/17/2005					
		WEIG	HT	CG FROM	MOMENT	
CODE	DESCRIPTION	(LB	S) CEI	NTERLINE	(IN-LBS)	
1 F	BOOM & WINCH INST (61 FT)	41	56	105.89	441138	
(Î)J	JIB INST TELE (23 TO 40 FT)	82	23	142.75	117483	
	BOOM & WINCH INST (40 FT)	32:		64.51	,403	
	JIB INST TELE (16 TO 27 FT)		90	95.75		
	VIRE ROPE)8	-23	-2484	
	CURRET INSTALLATION	43		-3	-1308	
	BOOM HOIST CYLINDER	27		46	12420	
	BOOM REST INSTALLATION	12		246.81	30851	
	OVERHAUL BALL & ROPE SOCK	12		256	30720	
	SHV LOAD BLOCK & ROPE SOCK	26		109		
	SHV LOAD BLOCK & ROPE SOCK	35		256	89600	
	IANGER SHEAVE		50	258	05000	
	PEDESTAL & SWING INST	183				
	OUTRIGGER INSTALLATION	181		11.5625	-20974	
	ONTROL CONSOLE	. 33		18	6030	
 	PLATFORM & THROTTLE	18		4.75	865	
	UBFRAME INSTALLATION (18 FT BED)	176		109.62	193150	
	UBFRAME INSTALLATION (20 FT BED)	190		119	T33T30	
	LATBED INSTALLATION (18 FT)	155		134.68	208754	
	LATBED INSTALLATION (20 FT)	172		146.68	200/34	
	LATBED INST (18 FT SPECIAL)	210		134.68		
	EAR STABILIZER ("H" STYLE)	60		158.69		
	EAR STABILIZER (A-FRAME)	81		158.69	120650	
	UMP & PTO INSTALLATION	12		-35		
	YDRAULIC TANK (WITH 70 GAL OF OIL			46	-4375 32992	
	NDERRIDE PROTECTION		0	242	32982 31780	
	ULKHEAD	12		242	21780	
	OOL BOX		0			
	PTION	8	U			
	PTION					
	PTION PTION					
	mama	1560		02 222	1006000	
	TOTAL	= 1562	.	82.333	1286282	
	orea.				•	
	GMC	7000	9 America		····	
	FRONT AXLE WEIGHT (LBS)		ESTIMA	TED WEIGH	ITS	
	REAR AXLE WEIGHT (LBS)					
		= 236			ASE CHANGES	
	CAB TO TANDEM (IN)	= 168	_so mus	T THE CAB	TO TANDEM.	
	CENTERLINE ROT TO CAB (IN)	= 21	_			
	MISCELLANEOUS ADDITIONS:	WEIGHT (LBS)	FRONT			
	ALLONS OF FUEL AT 7.4 LBS/GAL	7.4	53			
	RIVER	200	53			
	PTIONAL					

TOTAL WEIGHT OF TRUCK AND CRANE	LBS	, KG
FRONT AXLE WEIGHT (LBS)	= 12752	5784
REAR AXLE WEIGHT (LBS)	= 18737	8499
GROSS VEHICLE WEIGHT (LBS)	= 31489	14283

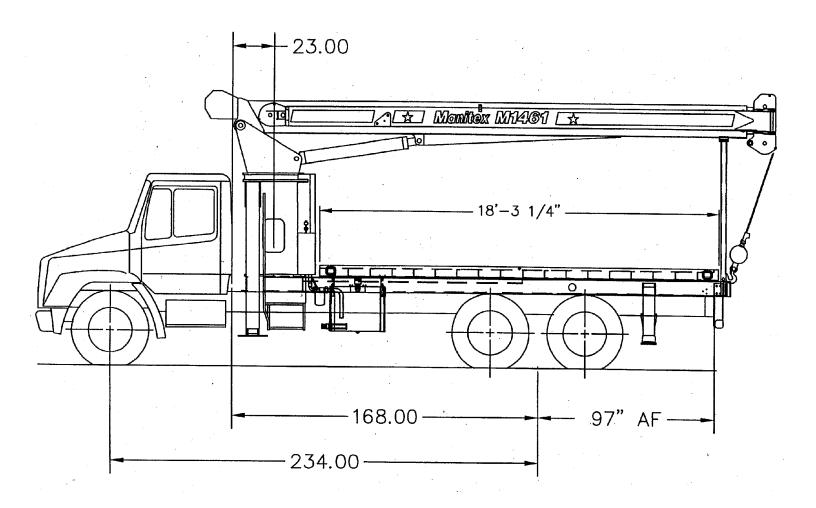
NOTICE:

Axle loadings are an estimate

The crane weight and axle loadings are based on theoretical calculated crane and truck weights. Truck weights are dependent on variations in wheelbase, equipment, fuel, fuel capacity, driver weight and scale accuracy. Actual truck axle loadings may differ from those shown and can only be verified by a certified scale after mounting.

STERLING CRANE

Dimensions



M1461