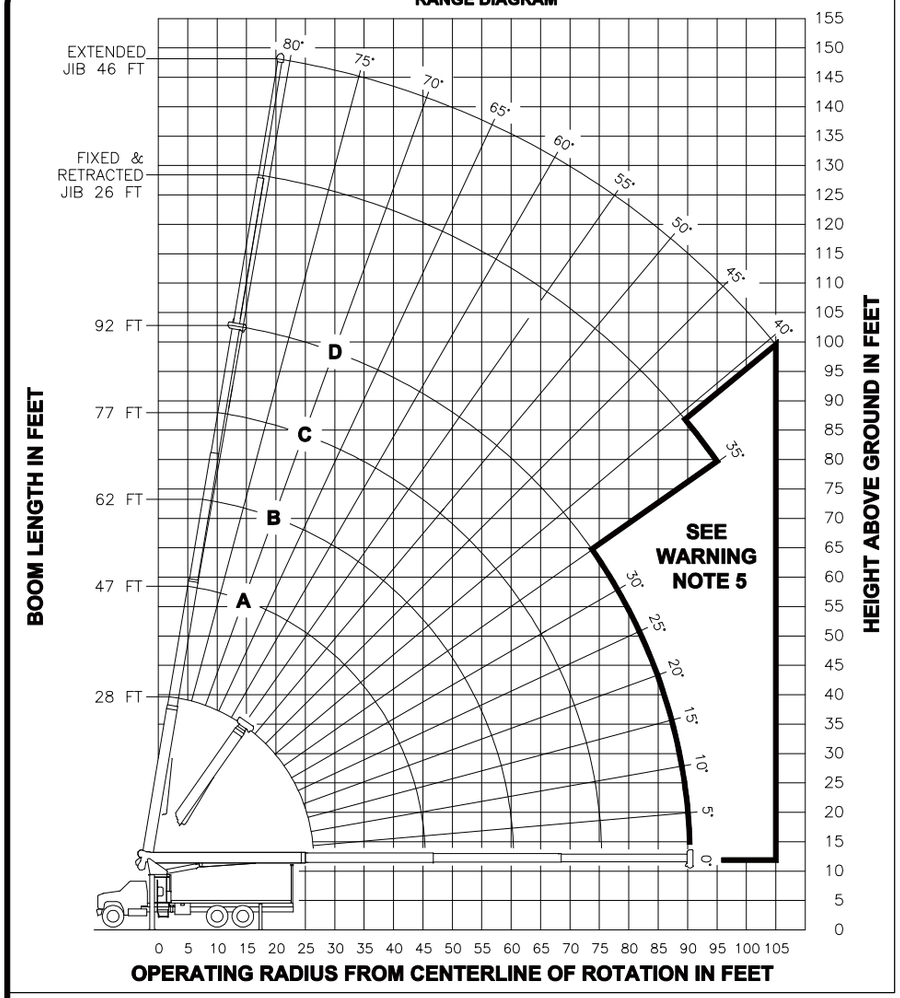
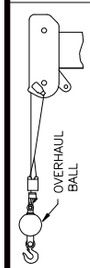
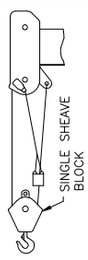
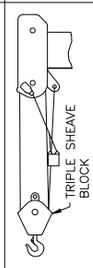
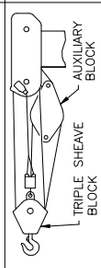
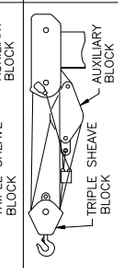
RANGE DIAGRAM



LMI OR PCS 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---	TELESCOPIC JIB–RETRACTED	#7---	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB–RETRACTED
#4---	TELESCOPIC JIB–EXTENDED	#8---	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB–EXTENDED

ALLOWABLE LINE PULL

1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	
							**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.
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	51000 LBS	56000 LBS	9/16" 6X25 IWRC (3.5:1 SF) – 29750 LBS MIN BREAKING STRENGTH
7400 LBS	14800 LBS	22200 LBS	29600 LBS	37000 LBS	44400 LBS	51800 LBS	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 SWING AROUND JIB IS ERECTED IS NOT INTENDED OR APPROVED.

LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

LMI OR PCS CODE #1

OPERATING RADIUS FT	LOADED BOOM ANGLE ∠	BOOM LENGTH AND MARKER	A		B		C		D	
			∠	28 FT	∠	47 FT	∠	62 FT	∠	77 FT	∠	92 FT
5	79		56000									
8	73		40670									
10	69		34520	78	22500							
12	64		30130	76	22500	80	22500					
15	57		25430	72	22310	77	20960	80	15920			
20	43		20130	65	17540	72	16290	77	13540	79	10700	
25	22		15630	58	14500	67	13340	73	11710	76	9290	
30				50	12120	62	11290	69	10160	73	8330	
35				41	9040	57	9200	65	8830	70	7320	
40				30	6990	51	7150	60	7240	66	6460	
45				11	5510	44	5700	56	5780	63	5730	
50						36	4600	51	4690	59	4740	
55						27	3750	46	3840	55	3890	
60						10	3050	40	3160	51	3210	
65								33	2610	47	2660	
70								24	2140	42	2200	
75								9	1730	37	1800	
80										31	1470	
85										23	1170	
90										9	910	
95												
100												
105												
	460 LBS.			270 LBS.		210 LBS.		170 LBS.		140 LBS.		
	690 LBS.			410 LBS.		310 LBS.		250 LBS.		210 LBS.		

JIB LOAD RATINGS WITH OUTRIGGERS AND STABILIZERS EXTENDED

OPERATING RADIUS FT	FIXED JIB LMI/PCS CODE #2 LOADED BOOM ∠	FIXED JIB LMI/PCS CODE #2 BOOMING JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4	TELESCOPIC JIB LMI/PCS CODE #3 LOADED BOOM ∠	TELESCOPIC JIB LMI/PCS CODE #3 BOOMING JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4	TELESCOPIC JIB LMI/PCS CODE #4 LOADED BOOM ∠	TELESCOPIC JIB LMI/PCS CODE #4 BOOMING JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4
	∠	26 FT	∠	26 FT	∠	46 FT
10						
12						
15						
20						
25	79	5600	79	5400		
30	77	5300	77	5100	79	3400
35	75	4960	75	4700	77	3300
40	72	4490	72	4230	76	3200
45	70	4080	70	3820	74	3040
50	67	3710	67	3440	72	2800
55	65	3380	65	3100	69	2630
60	62	3080	62	2810	67	2480
65	59	2790	59	2500	65	2310
70	56	2320	56	2030	63	2110
75	53	1930	53	1640	60	1940
80	50	1590	50	1300	58	1760
85	46	1300	46	1010	55	1460
90	42	1040	42	750	52	1200
95	38	810	38	520	49	970
100					46	770
105					43	580
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

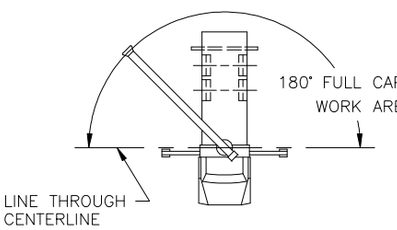
1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY ∠, IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED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

Manitex

MODEL 2892C

CRANE MEETS ANSI B30.5 REQUIREMENTS

7300097–001 NR



AREA OF OPERATION