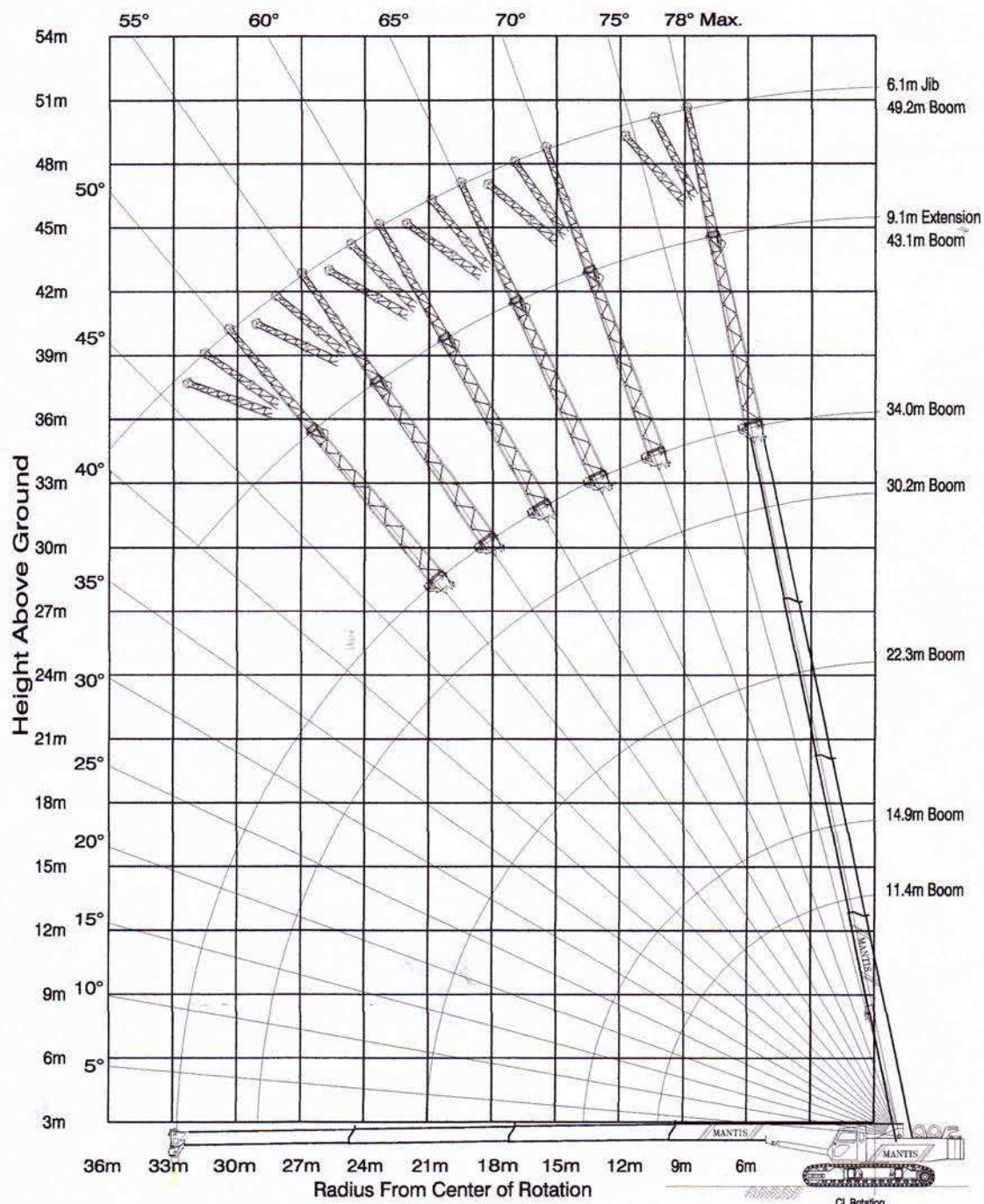
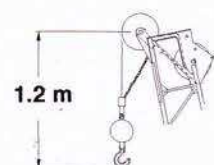
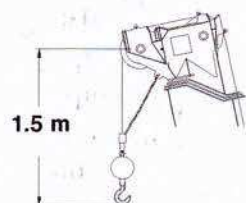
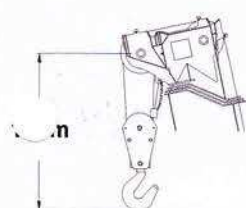


MANTIS® 14010

64 TONNE TELE-BOOM CRAWLER CRANE LOAD CHART



34.0 m MAIN BOOM, 9.1 m EXTENSION and 6.1 m FLY JIB



MAIN BOOM LIFTING CAPACITIES

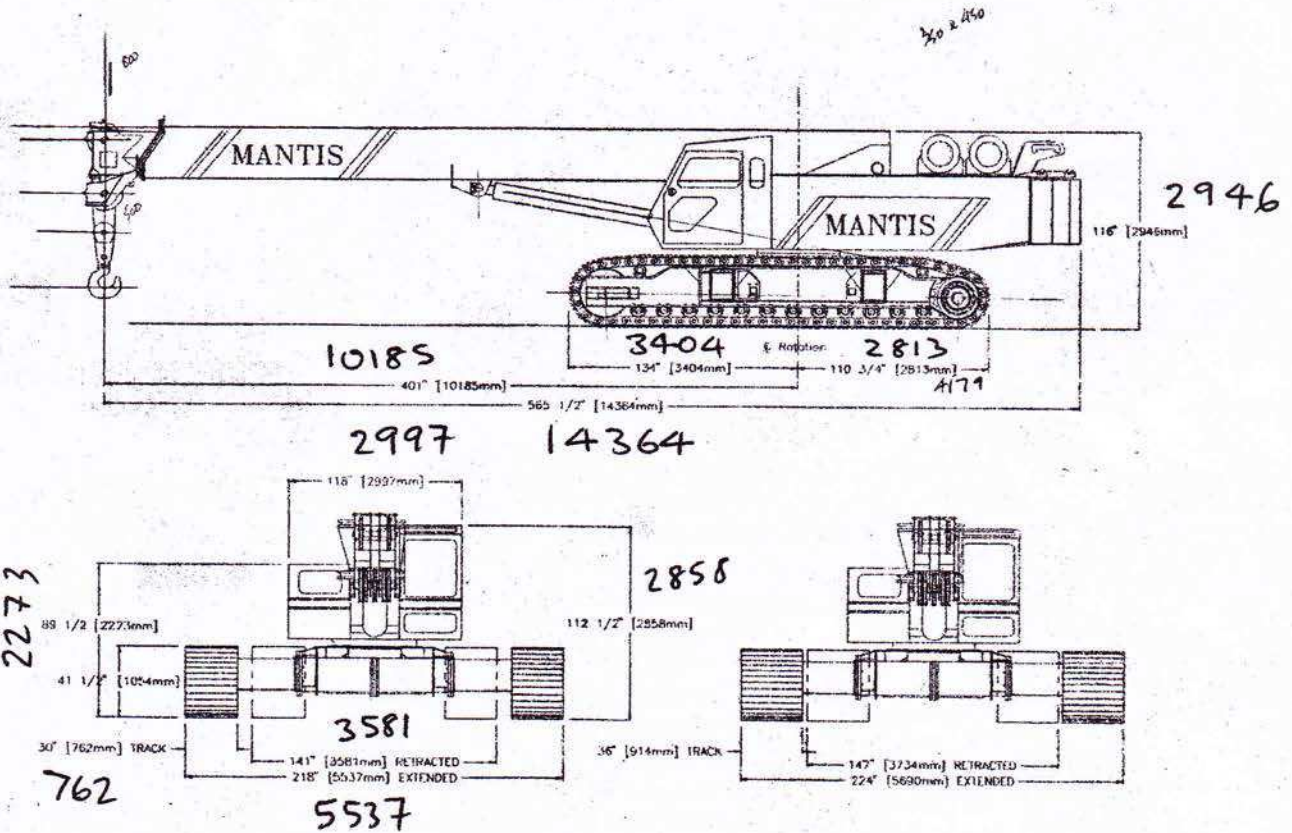
IN METRIC TONS, 360°, 75% OF TIPPING, FIRM & LEVEL GROUND

TRACKS FULLY EXTENDED 13.6 t COUNTERWEIGHT											TRACKS RETRACTED 13.6 t COUNTERWEIGHT		
RADIUS (m)	NO TRAVEL	MAIN BOOM LENGTH (Meters)								RADIUS (m)	MAIN BOOM LENGTH (Meters)		RADIUS (m)
	Main Boom = 11.4	11.4	12.8	14.9	18.6	22.3	26.2	30.2	34.0		11.4 m TO 18.6 m	18.6 m TO 34 m	
3.0	63.5	54.4	41.5	39.6	36.4					3.0	32.0	20.0	
4.0	51.7	41.5	36.5	34.8	30.1					4.0	21.4	19.2	
5.0	40.8	37.3	34.4	32.4	29.7	19.9	18.3			5.0	20.7	17.3	
6.0	33.2	33.2	33.1	32.9	30.7	19.8	18.4	17.6		6.0	17.3	16.4	
7.0		25.2	24.9	24.6	24.3	20.2	19.3	17.8	17.3	7.0	14.0	14.0	
8.0		19.6	19.4	19.1	18.8	19.3	17.9	16.3	16.0	8.0	11.3	11.3	
9.0		16.9	16.7	16.5	16.2	16.6	16.7	14.6	14.4	9.0	9.7	9.7	
10.0			14.1	13.9	13.6	14.1	14.4	13.0	12.8	10.0	8.3	8.3	
12.0				10.6	10.4	10.8	11.1	11.1	10.0	12.0	7.3	7.3	
14.0					8.1	8.5	8.8	9.1	8.4	14.0	6.5	6.5	
16.0					6.0	6.4	6.8	7.0	7.1	16.0	5.8	5.8	
18.0						5.3	5.6	5.8	5.9	18.0	5.0	5.0	
20.0						4.4	4.7	4.9	5.1	20.0	4.4	4.4	
22.0							4.0	4.1	4.3	22.0	3.8	3.8	
24.0							3.1	3.7	3.5	24.0	3.4	3.4	
26.0								2.9	3.0	26.0	3.0	3.0	
28.0								2.5	2.6	28.0	2.6	2.6	
30.0									2.1	30.0			
32.0									1.8	32.0			

TRACKS FULLY EXTENDED																
6.8 t COUNTERWEIGHT									ZERO COUNTERWEIGHT							
RADIUS (m)	MAIN BOOM LENGTH (Meters)								MAIN BOOM LENGTH (Meters)							
	11.4	12.8	14.9	18.6	22.3	26.2	30.2	34.0	11.4	12.8	14.9	18.6	22.3	26.2	30.2	34.0
3.0	54.4	41.5	39.6	36.4					54.4	41.5	39.6	36.4				
4.0	41.5	36.5	34.8	30.1					41.4	36.5	34.8	30.1				
5.0	37.3	34.4	32.3	29.7	19.9	18.3			29.1	28.8	28.5	28.0	19.9	18.2		
6.0	25.9	25.6	25.3	24.9	19.8	18.4	17.6		17.8	17.5	17.2	16.8	17.4	17.9	17.6	
7.0	18.7	18.4	18.2	17.8	18.4	18.8	17.8	17.3	12.5	12.2	12.0	11.6	12.2	12.6	12.9	17.3
8.0	14.3	14.1	13.8	13.5	14.1	14.5	14.8	15.0	9.3	9.1	8.8	8.5	9.0	9.4	9.7	9.9
9.0	12.2	12.1	11.8	11.6	12.0	12.4	12.7	12.9	7.9	7.7	7.5	7.2	7.6	8.0	8.3	8.5
10.0		10.1	9.9	9.6	10.0	10.4	10.6	10.8		6.2	6.1	5.8	6.2	6.6	6.8	7.0
12.0			7.4	7.1	7.5	7.8	8.1	8.3			4.3	4.0	4.4	4.8	5.0	5.2
14.0			6.6	5.4	5.8	6.1	6.4	6.5			4.0	2.8	3.2	3.6	3.8	3.9
16.0				3.8	4.1	4.5	4.7	4.8				1.6	2.0	2.3	2.5	2.7
18.0					3.3	3.6	3.8	4.0					1.4	1.7	1.9	2.1
20.0					2.7	2.9	3.1	3.3					0.9	1.3	1.4	1.6
22.0						2.3	2.6	2.7						0.9	1.1	1.2
24.0						1.7	1.9	2.1						0.3	0.6	0.7
26.0							1.6	1.7							0.3	0.5
28.0							1.2	1.4								0.2
30.0								0.9								
32.0								0.8								

MAXIMUM CAPACITY AT ZERO DEGREE BOOM ANGLE TRACKS FULLY EXTENDED, 13.6 t COUNTERWEIGHT															
BOOM LENGTH 11.4 m		BOOM LENGTH 12.8 m		BOOM LENGTH 14.9 m		BOOM LENGTH 18.6 m		BOOM LENGTH 22.3 m		BOOM LENGTH 26.2 m		BOOM LENGTH 30.2 m		BOOM LENGTH 34.0 m	
RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
10.2 m	13.9	11.6 m	11.0	13.7 m	9.5	17.4 m	5.2	21.0 m	3.7	25.0 m	3.2	29.0 m	2.2	32.7 m	1.9

MANTIS Model 14010 Dimensions



SpanDeck
INCORPORATED

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Specifications subject to change without notice.

GENERAL DATA

CRANE CAPACITY	70 ton at 10 feet (63t at 3.0m)
BOOM	4-section, 37' 6" – 111' 6" (11.4 m – 34.0 m)
DIMENSION	
Overall Length	49' 0" (14.94 m)
Overall Width (tracks extended)	18' 8" (5.69 m)
Overall Width (tracks retracted)	12' 6" (3.81 m)
Overall Width (tracks removed)	10' 8" (3.25 m)
Overall Height	10' 4" (3.15 m)
MASS	
Gross Vehicle Mass (Standard Equipment Package)	132,154 LB (59,940 kg)
PERFORMANCE	
Travel Speed	0.8 mph – 1.2 mph (1.3 km/h – 2.1 km/h)
Gradability	46%

CRANE SPECIFICATION

MODEL

14010

CAPACITY

70 ton at 10 feet (63t at 3.0m)

BOOM

4-section full power synchronized telescoping boom. Synchronized telescoping system consists of two double acting hydraulic cylinders with load holding valves and extension and retraction cables.

- Retracted Length: 37' 6" (11.4m)
- Extended Length: 111' 6" (34 m)
- Extension Time: 102 s
- Elevating Angles: -1° to 78°
- Elevating Time: 64 s
- Boom Head: Seven, 19 inch (483 mm) diameter cast nylon sheaves on heavy-duty roller bearings. (5 load bearing and 2 lead in sheaves)

AUXILIARY BOOM HEAD

Quick reeve, single 19 inch (483 mm) diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.

COUNTERWEIGHT

Total 30,000 LB (two pieces at 15,000 lbs each)
13,610 kg (Two pieces at 6,805 kg each)

WINCHES

Planetary geared two-speed winch includes a bent axis hydraulic motor, multi-disc internal brake and counterbalance valve. Drum rotation indicator is included (complete winch performance specs on Page 4)

- Main Winch
 - Rope Diameter and Length: ¾" x 700 ft (19mm x 213m)
 - Single line pull: 17,960 lb (79.9 kN)(first layer)
 - Single line speed: 192 ft/min (59 m/min)(4th layer)
- Auxiliary Winch
 - Rope Diameter and Length: ¾" x 350 ft (19mm x 107m)
 - Single line pull: 15,360 lb (69.3 kN) (first layer)
 - Single line speed: 243 ft/min (74.0 m/min) (at the 4th layer)

TRAVEL

Each side frame contains a pilot controlled, two-speed track drive with hydraulic axial piston motor and parking brake. Travel system provides skid steering and counter rotation.

- Low travel speed: 0.8 mph (1.3 km/h)
- High travel speed: 1.2 mph (1.9 km/h)
- Gradeability (unladen): 46%

SWING

Gear motor driving a planetary gear reducer with a shaft mounted pinion, external gear shear ball slew bearing bolted to the superstructure and the carbody allows the superstructure to rotate 360°

- Swing Speed: 0 – 2.2 rpm
- Swing Parking Brake: Spring applied failsafe brake with hydraulic release that is controlled from the operators cab
- Swing Service Brake: Hydraulically applied, controlled through foot actuated pedal
- House Lock System: 2-position, manually pinned

LOAD MOMENT INDICATOR

Standard Rated Capacity Limiter and Anti-Two Block system

- Control function shutdown. Audible and visual warnings
- LCD screen provides a continuous display of working boom length, boom angle, working load radius, tip height, parts-of-line (operator set), machine track configuration, relative load moment, maximum permissible load and actual load.
- Anti two block weight allows quick reeving of hook block

FRAME

The frame is an all-steel, welded structure, precision machined to accept attachment of the boom and swing components.