
LOAD CHART MANUAL

MANTIS Model GTC-1000EX

100 Ton Telescopic Boom Crawler Crane

With Standard 39.0m Main Boom



MANTIS

CRANES

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DEFINITIONS AND EXPLANATIONS

1. Load Capacity values in these charts are stated in metric tons (t)
2. All ratings are for 360 degrees of rotation unless otherwise specified on the chart.
3. Load radius is defined as the horizontal distance from the axis of rotation (with no load) to the center of the lifting device after load is applied.(m)
4. Boom height dimensions are measured from ground to center of lower boom head sheave. (m)
5. Boom angle/boom length relationships given are an approximation of the resulting load radius, which should be an accurate measurement.
6. Boom angle is the included angle between the longitudinal axis of the boom base section and the horizontal axis, after lifting load. The boom angle before lifting should be slightly greater than desired to account for boom deflection. Boom angles are shown for reference on each load chart.



7. Boom positions without rated loads in the charts are prohibited. These areas are indicated by an “*” and are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping the crane.
8. Deductions from rated capacities must be made for the weight of the hook block, hook/ball, slings, spreader bar, or other suspended equipment. This includes lifting accessories stowed on the boom such as jib, extension, and auger
9. This **MANTIS CRANE** as manufactured by **Tadano Mantis Corporation** meets the requirements of **AS 1418.5-2002**. Structure and stability have been tested in accordance with this standard.

**CONDITIONS CONTRIBUTING TO THE RISK OF TIPPING THE CRANE**

Risk of tipping is greatly increased if any of the following conditions are allowed to exist:

1. Load and/or working radius specified in load charts are not strictly adhered to.
2. Weight of the load is not determined before lifting
3. Swinging of the load due to improper crane operation
4. Side load induced by pulling at an angle to the booms longitudinal axis
5. The ground is not capable of supporting the crane and the suspended load.
6. The ground is uneven or sloped beyond acceptable parameters as described in the load charts
7. Insufficient distance between the crane and holes, ditches or other working surface instabilities.
8. Use in wind speeds greater than 36 km/hr.

SERVICE LIFE AND LIMIT STATES

The following classifications were used for calculations and design of this equipment. These classifications correspond to an “installation operation” use of this crane. If this crane is used in a “material handling operation” condition, reductions in allowable loads must be considered to ensure adequate service life of the equipment.

Load lifting components of the crane have been evaluated per ISO4301/2 or 4308/2

1. Crane classification A1
2. Hoist Gears M3
3. Slew Gears M2
4. Luff M2
5. Telescoping M2
6. Travel M2

If your application varies from the conditions as set forth in ISO 4301/2 or ISO4308/2 consult your Tadano Mantis Service department for recommendations on adjustments to the rated capacity of the crane.

WINCHES/HOISTS

1. The Main (1) hoist is rated for a maximum 107 kN (10911 kg) of line pull. Allowable line pull capacities must not be exceeded under any circumstances. Therefore the minimum number of line reevings should be selected based on the load to be lifted and entered in the RCI system.
2. The Auxiliary (2) hoist is rated for a maximum 83 kN (8464 kg) of line pull. Allowable line pull capacities must not be exceeded under any circumstances. Therefore the minimum number of line reevings should be selected based on the load to be lifted and entered in the RCI system.



3. Slack in the load rope should be avoided. Slack in the load rope can result in rope entanglement on the hoist drum severely damaging the rope.
4. When retracting the boom telescopic sections, make sure the hook block does not come in contact with the ground causing slack in the load rope.

LOAD ROPE

1. The Load rope on both the Main and Auxiliary hoists are rated for a maximum line pull of 101.8 kN (10380 kg). Rope is high strength rotation resistant 35x7 construction.
2. Load ropes must be reeved according to the maximum allowable rope tension, the maximum line pull of the winch hoists, and the load to be lifted.
3. When more than one part of line is reeved, the efficiency of the hook block must be taken into consideration. Each part of line increases the pulley friction and rope flexure resulting in reduced efficiency. For instance 5 parts of line with a line pull of 20 kN will result in a maximum lift capacity of 97.5 kN instead of the theoretical capacity of 100 kN.
4. Consult the "WIRE ROPE LINE PULL CAPACITIES" table below, for the maximum loads allowable depending on the number of parts of line being utilized.

WIRE ROPE LINE PULL CAPACITIES				
GTC-1000EX				
Parts of Line	Main Winch (kN)	Aux Winch (kN)	Parts of Line	Main Winch (kN)
1	101.8	101.8	6	570.1
2	197.6	197.6	7	658.7
3	293.5		8	745.6
4	387.5		9	830.7
5	479.7		10	914.2

5. The number of parts of line of the load rope must be entered into the RCI system. Recommended reeving based on rated capacity, winch performance, wire rope length, and maximum allowable rope tension are given at the bottom of each chart.

RATED CAPACITY INDICATOR

1. Mantis Cranes are equipped with an integrated Rated Capacity Indicator to be used as an operator aid. It is not a substitute for and should not be used in lieu of job site lift planning calculations by the operator, which must take into account site conditions, weather, and all other environmental factors prevailing at the time of the lift.



2. If the maximum rated capacity of the crane is exceeded by either exceeding the rated load or the rated load radius, the RCI will shut down the following functions:
 - a. Boom Hoist DOWN
 - b. Boom Telescope EXTEND
 - c. Winch Hoist UP

Functions remaining operable are:

- a. Boom Hoist UP
 - b. Boom telescope RETRACT
 - c. Winch Hoist DOWN
- Correct operation of these shut downs should be verified before each instance of crane operation.
3. In order to ensure correct operation of the RCI system, the correct load chart (operating mode) must be selected in the RCI system, based upon counterweight configuration, tracks extended/ retracted condition, and presence of other optional equipment.
 4. The presence of the RCI system in no way removes the responsibility for safe lifting conditions from the operator.
 5. In order to provide the operator with an overview of the crane's utilization and operating conditions, the RCI system displays the following information:
 - a. Working radius
 - b. Maximum allowable lift capacity
 - c. Hook load
 - d. Boom height
 - e. Boom length
 - f. Boom Angle
 - g. Parts of line
 - h. Degree of load utilization
 - i. Selected load chart
 - j. Crane inclination
 6. Limit switches are provide with the RCI system to prevent the hook block from coming in contact with the boom head. Correct operation of these switches should be verified before each instance of crane operation.

7. Verification of correct operation of the RCI system is the responsibility of the crane operator and should be performed before each instance of crane operation. Mantis Cranes will not accept liability for damage to the crane and/or any consequential damage resulting from a non-functioning RCI system or deactivation of the RCI system.

LOAD CHART SELECTION & LOAD MOMENT INDICATOR SETTING INFORMATION

Each Load Chart corresponds to a particular crane configuration. The RCI system must be set to match the configuration in use. If it is set improperly, the crane may function poorly or not at all.

Follow the instructions on the RCI display to select the correct Operating Mode. A list of available Operating Modes and the corresponding load charts is shown below for reference.

RCI OPERATION MODE	CRANE OPERATING CONFIGURATION	COUNTER WEIGHT	TRACK POSITION	PARTS OF LINE (REEVING)	TRAVEL ALLOWED (UP TO 1.0km/hr)	LEVEL	LOAD CHART NUMBER
1	Main Boom	16.1t	Fully Extended	MAX. 10 MIN. 1	NO	0° - 2°	1
1	Main Boom	16.1t	Fully Extended	MAX. 10 MIN. 1	NO	2° - 4°	2
1	Main Boom	16.1t	Fully Extended	MAX. 10 MIN. 1	YES	0° - 2°	3
1	Main Boom	16.1t	Fully Extended	MAX. 10 MIN. 1	YES	2° - 4°	4
2	Main Boom	8.2t	Fully Extended	MAX. 10 MIN. 1	NO	0° - 2°	5
2	Main Boom	8.2t	Fully Extended	MAX. 10 MIN. 1	NO	2° - 4°	6
2	Main Boom	8.2t	Fully Extended	MAX. 10 MIN. 1	YES	0° - 2°	7
2	Main Boom	8.2t	Fully Extended	MAX. 10 MIN. 1	YES	2° - 4°	8
17	Main Boom	0t	Fully Extended	MAX. 10 MIN. 1	NO	0° - 2°	9
17	Main Boom	0t	Fully Extended	MAX. 10 MIN. 1	NO	2° - 4°	10
17	Main Boom	0t	Fully Extended	MAX. 10 MIN. 1	YES	0° - 2°	11
17	Main Boom	0t	Fully Extended	MAX. 10 MIN. 1	YES	2° - 4°	12
18	Main Boom	16.1t	Retracted	MAX. 10 MIN. 1	NO	0° - 2°	13
18	Main Boom	16.1t	Retracted	MAX. 10 MIN. 1	YES	0° - 2°	14
33	Auxiliary Boom Nose Sheave	16.1t	Fully Extended	MAX. 1	NO	0° - 2°	15
33	Auxiliary Boom Nose Sheave	16.1t	Fully Extended	MAX. 1	NO	2° - 4°	16
33	Auxiliary Boom Nose Sheave	16.1t	Fully Extended	MAX. 1	YES	0° - 2°	17
33	Auxiliary Boom Nose Sheave	16.1t	Fully Extended	MAX. 1	YES	2° - 4°	18
34	Auxiliary Boom Nose Sheave	8.2t	Fully Extended	MAX. 1	NO	0° - 2°	19
34	Auxiliary Boom Nose Sheave	8.2t	Fully Extended	MAX. 1	NO	2° - 4°	20
34	Auxiliary Boom Nose Sheave	8.2t	Fully Extended	MAX. 1	YES	0° - 2°	21
34	Auxiliary Boom Nose Sheave	8.2t	Fully Extended	MAX. 1	YES	2° - 4°	22
35	Auxiliary Boom Nose Sheave	0t	Fully Extended	MAX. 1	NO	0° - 2°	23
35	Auxiliary Boom Nose Sheave	0t	Fully Extended	MAX. 1	NO	2° - 4°	24
35	Auxiliary Boom Nose Sheave	0t	Fully Extended	MAX. 1	YES	0° - 2°	25

RCI OPERATION MODE	CRANE OPERATING CONFIGURATION	COUNTER WEIGHT	TRACK POSITION	PARTS OF LINE (REEVING)	TRAVEL ALLOWED (UP TO 1.0km/hr)	LEVEL	LOAD CHART NUMBER
35	Auxiliary Boom Nose Sheave	0t	Fully Extended	MAX. 1	YES	2° - 4°	26
49	Auxiliary Boom Nose Sheave	16.1t	Retracted	MAX. 1	NO	0° - 2°	27
49	Auxiliary Boom Nose Sheave	16.1t	Retracted	MAX. 1	YES	0° - 2°	28
50	10.7m Lattice Extension	16.1t	Fully Extended	MAX. 2 MIN. 1	NO	0° - 2°	29
50	10.7m Lattice Extension	16.1t	Fully Extended	MAX. 2 MIN. 1	YES	0° - 2°	31
51	7.6m Jib +10.7m Lattice Extension 0° Offset	16.1t	Fully Extended	MAX. 1	NO	0° - 2°	30
52	7.6m Jib +10.7m Lattice Extension 15° Offset	16.1t	Fully Extended	MAX. 1	NO	0° - 2°	30
53	7.6m Jib +10.7m Lattice Extension 30° Offset	16.1t	Fully Extended	MAX. 1	NO	0° - 2°	30
51	7.6m Jib +10.7m Lattice Extension 0° Offset	16.1t	Fully Extended	MAX. 1	YES	0° - 2°	32
52	7.6m Jib +10.7m Lattice Extension 15° Offset	16.1t	Fully Extended	MAX. 1	YES	0° - 2°	32
53	7.6m Jib +10.7m Lattice Extension 30° Offset	16.1t	Fully Extended	MAX. 1	YES	0° - 2°	32
54	Main Boom on CARBODY JACKS	0t	CARBODY JACKS	MAX. 4 MIN. 1	NO	0° - 1°	33

LIFTING CAPACITY DEDUCTIONS FOR LOAD HANDLING DEVICES**MANTIS Model GTC-1000EX**

as originally manufactured and equipped by Tadano Mantis Corporation.

Weight Reductions for Load Handling Devices	
Hookblocks	
100t - 5 Sheave	1300 kg
90.7t - 5 Sheave	1190 kg
10.9t Overhaul Ball w/Swivel	265 kg
Optional Load Handling Devices	
10.7m Extension - Stowed*	1300 kg
10.7m Extension - Erected*	1870 kg
10.7m Ext. and 7.6m Jib - Stowed*	1490 kg
10.7m Ext. and 7.6m Jib - Erected*	3020 kg
Auxiliary Nose Sheave*	115 kg
Auger Ready Package*	100 kg
Auger Package Complete - Stowed*	205 kg
Auger Package Complete - Erected*	510 kg
*Reduction of main boom capacities	

NOTE:

All values shown apply to original equipment as supplied by Tadano Mantis Corporation. The above deductions should be taken into account when calculating the load to be lifted. Exact weights of hook blocks, hooks, slings, and other rigging are given on the nameplate. These weights must be included as part of the load and deducted from lifting capacities.

A properly calibrated and maintained Rated Capacity Indicator (RCI) system will indicate boom mounted and other suspended equipment.

LOAD CHARTS

CHART #1

NO TRAVEL – LEVEL 0° TO 2°

MAIN BOOM with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)														RADIUS (m)		
	12.8		15.7		18.6		21.5		25.9		30.3		34.7			39.0	
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	100.0	77.7	68.0												2.5	
3.0	72.5	91.5	75.9	66.8	78.1	56.7										3.0	
3.5	70.1	82.3	73.9	64.7	76.5	53.3	78.4	44.3								3.5	
4.0	67.6	76.7	72.0	62.1	74.9	50.1	77.0	41.1	79.3	30.7						4.0	
4.5	65.1	72.7	70.1	59.4	73.3	47.1	75.6	38.1	78.1	29.2						4.5	
5.0	62.6	68.3	68.1	57.1	71.7	44.8	74.3	36.2	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	59.4	64.0	52.6	68.4	40.3	71.4	33.0	74.7	24.4	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	53.4	59.8	46.6	65.0	36.6	68.6	29.4	72.4	22.2	75.0	20.5	76.9	18.6	78.4	15.7	7.0
8.0	45.2	43.9	55.3	41.5	61.4	32.8	65.6	26.3	70.0	20.5	73.0	19.7	75.2	17.7	76.9	15.1	8.0
9.0	38.0	35.5	50.6	35.1	57.8	29.1	62.6	23.7	67.6	19.6	71.0	18.9	73.5	16.5	75.4	14.4	9.0
10.0	29.1	29.6	45.5	29.1	54.0	26.3	59.5	21.4	65.2	18.1	69.0	17.3	71.7	15.3	73.9	13.7	10.0
11.0	15.5	25.1	39.8	24.7	50.0	24.3	56.3	19.4	62.7	16.8	66.9	16.0	70.0	14.1	72.3	13.0	11.0
12.0			33.3	21.2	45.7	21.0	53.0	17.6	60.1	16.0	64.8	15.6	68.2	13.1	70.8	12.0	12.0
13.0			25.1	18.5	41.0	18.2	49.5	16.5	57.5	15.4	62.7	14.6	66.4	12.4	69.2	11.4	13.0
14.0			11.9	16.2	35.8	16.0	45.8	15.7	54.8	14.8	60.5	13.6	64.6	11.6	67.6	10.8	14.0
15.0					29.7	14.1	41.8	14.0	51.9	14.2	58.3	12.5	62.7	10.9	66.0	10.0	15.0
16.0					22.1	12.6	37.5	12.4	49.0	12.9	56.0	11.7	60.8	10.3	64.4	9.3	16.0
17.0					8.6	11.2	32.6	11.1	45.9	11.5	53.6	11.1	58.9	9.8	62.7	8.8	17.0
18.0							26.9	9.9	42.7	10.5	51.2	10.5	56.9	9.2	61.0	8.1	18.0
19.0							19.6	8.9	39.2	9.4	48.7	9.8	54.9	8.6	59.3	7.6	19.0
20.0							4.7	7.9	35.4	8.5	46.0	8.9	52.8	8.1	57.6	7.2	20.0
21.0									31.2	7.7	43.3	8.1	50.6	7.6	55.8	6.7	21.0
22.0									26.4	7.0	40.4	7.4	48.4	7.2	54.0	6.3	22.0
23.0									20.4	6.3	37.3	6.7	46.1	6.9	52.1	6.0	23.0
24.0									11.6	5.6	33.9	6.0	43.7	6.2	50.2	5.7	24.0
25.0											30.2	5.5	41.2	5.7	48.2	5.4	25.0
26.0											26.0	4.9	38.6	5.1	46.2	5.1	26.0
27.0											21.0	4.5	35.8	4.7	44.1	4.8	27.0
28.0											14.2	4.0	32.8	4.2	41.9	4.3	28.0
29.0													29.4	3.8	39.6	3.9	29.0
30.0													25.7	3.5	37.2	3.6	30.0
31.0													21.4	3.1	34.6	3.2	31.0
32.0													15.8	2.8	31.8	2.9	32.0
33.0													6.2	2.5	28.8	2.6	33.0
34.0															25.5	2.3	34.0
35.0															21.7	2.0	35.0
36.0															17.0	1.8	36.0
37.0															10.2	1.6	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
 - During operation the wind speed must not exceed 36 km/hr.
 - An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping.
- Warning: All stowed load handling devices are considered loads. See deduction chart for values.

CHART #2

NO TRAVEL – LEVEL 2° TO 4°

MAIN BOOM with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	75.0	77.7	51.0												2.5	
3.0	72.5	68.6	75.9	50.1	78.1	42.0										3.0	
3.5	70.1	61.7	73.9	48.5	76.5	39.5	78.4	32.3								3.5	
4.0	67.6	57.5	72.0	46.6	74.9	37.1	77.0	30.0	79.3	22.1						4.0	
4.5	65.1	54.5	70.1	44.5	73.3	34.9	75.6	27.8	78.1	21.1						4.5	
5.0	62.6	51.2	68.1	42.8	71.7	33.2	74.3	26.5	77.0	19.9	78.9	15.8				5.0	
6.0	57.2	44.5	64.0	39.4	68.4	29.9	71.4	24.1	74.7	17.5	76.9	15.2	78.6	14.3		6.0	
7.0	51.5	40.1	59.8	35.0	65.0	27.0	68.6	21.5	72.4	16.0	75.0	14.6	76.9	13.7	78.4	12.2	7.0
8.0	45.2	35.3	55.3	31.1	61.4	24.3	65.6	19.2	70.0	14.8	73.0	14.0	75.2	13.0	76.9	11.7	8.0
9.0	38.0	29.7	50.6	28.3	57.8	21.5	62.6	17.3	67.6	14.1	71.0	13.4	73.5	12.2	75.4	11.2	9.0
10.0	29.1	27.0	45.5	26.0	54.0	19.4	59.5	15.7	65.2	13.0	69.0	12.3	71.7	11.3	73.9	10.7	10.0
11.0	15.5	24.5	39.8	23.2	50.0	18.0	56.3	14.1	62.7	12.1	66.9	11.3	70.0	10.4	72.3	10.1	11.0
12.0			33.3	19.4	45.7	17.5	53.0	12.8	60.1	11.5	64.8	11.1	68.2	9.7	70.8	9.3	12.0
13.0			25.1	16.9	41.0	15.5	49.5	12.1	57.5	11.1	62.7	10.4	66.4	9.1	69.2	8.9	13.0
14.0			11.9	14.6	35.8	13.4	45.8	11.5	54.8	10.7	60.5	9.6	64.6	8.6	67.6	8.4	14.0
15.0					29.7	12.1	41.8	11.0	51.9	10.2	58.3	8.9	62.7	8.1	66.0	7.8	15.0
16.0					22.1	10.7	37.5	9.9	49.0	9.3	56.0	8.3	60.8	7.6	64.4	7.3	16.0
17.0					8.6	8.9	32.6	8.7	45.9	8.3	53.6	7.9	58.9	7.2	62.7	6.8	17.0
18.0							26.9	7.9	42.7	7.6	51.2	7.5	56.9	6.8	61.0	6.3	18.0
19.0							19.6	7.4	39.2	7.2	48.7	7.0	54.9	6.4	59.3	5.9	19.0
20.0							4.7	7.0	35.4	7.0	46.0	6.6	52.8	6.0	57.6	5.6	20.0
21.0									31.2	6.9	43.3	6.2	50.6	5.6	55.8	5.2	21.0
22.0									26.4	6.4	40.4	5.9	48.4	5.3	54.0	4.9	22.0
23.0									20.4	5.8	37.3	5.6	46.1	5.1	52.1	4.7	23.0
24.0									11.6	5.1	33.9	5.3	43.7	4.9	50.2	4.5	24.0
25.0											30.2	5.0	41.2	4.6	48.2	4.2	25.0
26.0											26.0	4.6	38.6	4.4	46.2	4.0	26.0
27.0											21.0	4.1	35.8	4.1	44.1	3.8	27.0
28.0											14.2	3.7	32.8	3.9	41.9	3.6	28.0
29.0													29.4	3.6	39.6	3.4	29.0
30.0													25.7	3.3	37.2	3.2	30.0
31.0													21.4	2.9	34.6	3.0	31.0
32.0													15.8	2.6	31.8	2.7	32.0
33.0													6.2	2.3	28.8	2.4	33.0
34.0															25.5	2.1	34.0
35.0															21.7	1.9	35.0
36.0															17.0	1.6	36.0
37.0															10.2	1.4	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	II
III	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #3

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

MAIN BOOM with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	100.0	77.7	68.0												2.5	
3.0	72.5	91.5	75.9	66.8	78.1	56.7										3.0	
3.5	70.1	82.3	73.9	64.7	76.5	53.3	78.4	44.3								3.5	
4.0	67.6	76.7	72.0	62.1	74.9	50.1	77.0	41.1	79.3	30.7						4.0	
4.5	65.1	72.7	70.1	59.4	73.3	47.1	75.6	38.1	78.1	29.2						4.5	
5.0	62.6	68.3	68.1	57.1	71.7	44.8	74.3	36.2	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	59.4	64.0	52.6	68.4	40.3	71.4	33.0	74.7	24.4	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	50.3	59.8	46.6	65.0	36.6	68.6	29.4	72.4	22.2	75.0	20.5	76.9	18.6	78.4	15.7	7.0
8.0	45.2	39.0	55.3	38.5	61.4	32.8	65.6	26.3	70.0	20.5	73.0	19.7	75.2	17.7	76.9	15.1	8.0
9.0	38.0	31.6	50.6	31.1	57.8	29.1	62.6	23.7	67.6	19.6	71.0	18.9	73.5	16.5	75.4	14.4	9.0
10.0	29.1	26.2	45.5	25.9	54.0	25.6	59.5	21.4	65.2	18.1	69.0	17.3	71.7	15.3	73.9	13.7	10.0
11.0	15.5	22.3	39.8	21.9	50.0	21.7	56.3	19.4	62.7	16.8	66.9	16.0	70.0	14.1	72.3	13.0	11.0
12.0			33.3	18.9	45.7	18.6	53.0	17.6	60.1	16.0	64.8	15.6	68.2	13.1	70.8	12.0	12.0
13.0			25.1	16.4	41.0	16.2	49.5	16.0	57.5	15.4	62.7	14.6	66.4	12.4	69.2	11.4	13.0
14.0			11.9	14.4	35.8	14.2	45.8	14.0	54.8	14.6	60.5	13.6	64.6	11.6	67.6	10.8	14.0
15.0					29.7	12.6	41.8	12.4	51.9	12.9	58.3	12.5	62.7	10.9	66.0	10.0	15.0
16.0					22.1	11.2	37.5	11.0	49.0	11.5	56.0	11.7	60.8	10.3	64.4	9.3	16.0
17.0					8.6	10.0	32.6	9.8	45.9	10.3	53.6	10.6	58.9	9.8	62.7	8.8	17.0
18.0							26.9	8.8	42.7	9.3	51.2	9.6	56.9	9.2	61.0	8.1	18.0
19.0							19.6	7.9	39.2	8.4	48.7	8.7	54.9	8.6	59.3	7.6	19.0
20.0							4.7	7.1	35.4	7.6	46.0	7.9	52.8	8.1	57.6	7.2	20.0
21.0									31.2	6.9	43.3	7.2	50.6	7.3	55.8	6.7	21.0
22.0									26.4	6.2	40.4	6.5	48.4	6.7	54.0	6.3	22.0
23.0									20.4	5.7	37.3	6.0	46.1	6.1	52.1	6.0	23.0
24.0									11.6	5.1	33.9	5.4	43.7	5.6	50.2	5.7	24.0
25.0											30.2	5.0	41.2	5.1	48.2	5.2	25.0
26.0											26.0	4.5	38.6	4.7	46.2	4.8	26.0
27.0											21.0	4.2	35.8	4.3	44.1	4.4	27.0
28.0											14.2	3.8	32.8	3.9	41.9	4.0	28.0
29.0													29.4	3.6	39.6	3.7	29.0
30.0													25.7	3.2	37.2	3.4	30.0
31.0													21.4	2.9	34.6	3.0	31.0
32.0													15.8	2.6	31.8	2.7	32.0
33.0													6.2	2.3	28.8	2.4	33.0
34.0															25.5	2.2	34.0
35.0															21.7	1.9	35.0
36.0															17.0	1.7	36.0
37.0															10.2	1.5	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #4

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 2° TO 4°

MAIN BOOM with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)																RADIUS (m)
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	75.0	77.7	51.0													2.5
3.0	72.5	68.6	75.9	50.1	78.1	42.0											3.0
3.5	70.1	61.7	73.9	48.5	76.5	39.5	78.4	32.3									3.5
4.0	67.6	57.5	72.0	46.6	74.9	37.1	77.0	30.0	79.3	22.1							4.0
4.5	65.1	54.5	70.1	44.5	73.3	34.9	75.6	27.8	78.1	21.1							4.5
5.0	62.6	51.2	68.1	42.8	71.7	33.2	74.3	26.5	77.0	19.9	78.9	15.8					5.0
6.0	57.2	44.5	64.0	39.4	68.4	29.9	71.4	24.1	74.7	17.5	76.9	15.2	78.6	14.3			6.0
7.0	51.5	40.1	59.8	35.0	65.0	27.0	68.6	21.5	72.4	16.0	75.0	14.6	76.9	13.7	78.4	12.2	7.0
8.0	45.2	35.3	55.3	31.1	61.4	24.3	65.6	19.2	70.0	14.8	73.0	14.0	75.2	13.0	76.9	11.7	8.0
9.0	38.0	29.7	50.6	28.3	57.8	21.5	62.6	17.3	67.6	14.1	71.0	13.4	73.5	12.2	75.4	11.2	9.0
10.0	29.1	25.8	45.5	25.5	54.0	19.4	59.5	15.7	65.2	13.0	69.0	12.3	71.7	11.3	73.9	10.7	10.0
11.0	15.5	21.9	39.8	21.6	50.0	18.0	56.3	14.1	62.7	12.1	66.9	11.3	70.0	10.4	72.3	10.1	11.0
12.0			33.3	18.6	45.7	17.5	53.0	12.8	60.1	11.5	64.8	11.1	68.2	9.7	70.8	9.3	12.0
13.0			25.1	16.1	41.0	15.5	49.5	12.1	57.5	11.1	62.7	10.4	66.4	9.1	69.2	8.9	13.0
14.0			11.9	14.1	35.8	13.4	45.8	11.5	54.8	10.7	60.5	9.6	64.6	8.6	67.6	8.4	14.0
15.0					29.7	12.1	41.8	11.0	51.9	10.2	58.3	8.9	62.7	8.1	66.0	7.8	15.0
16.0					22.1	10.7	37.5	9.9	49.0	9.3	56.0	8.3	60.8	7.6	64.4	7.3	16.0
17.0					8.6	8.9	32.6	8.7	45.9	8.3	53.6	7.9	58.9	7.2	62.7	6.8	17.0
18.0							26.9	7.9	42.7	7.6	51.2	7.5	56.9	6.8	61.0	6.3	18.0
19.0							19.6	7.4	39.2	7.2	48.7	7.0	54.9	6.4	59.3	5.9	19.0
20.0							4.7	6.9	35.4	7.0	46.0	6.6	52.8	6.0	57.6	5.6	20.0
21.0									31.2	6.5	43.3	6.2	50.6	5.6	55.8	5.2	21.0
22.0									26.4	5.8	40.4	5.9	48.4	5.3	54.0	4.9	22.0
23.0									20.4	5.3	37.3	5.6	46.1	5.1	52.1	4.7	23.0
24.0									11.6	4.7	33.9	5.2	43.7	4.9	50.2	4.5	24.0
25.0											30.2	4.7	41.2	4.6	48.2	4.2	25.0
26.0											26.0	4.3	38.6	4.4	46.2	4.0	26.0
27.0											21.0	3.9	35.8	4.1	44.1	3.8	27.0
28.0											14.2	3.5	32.8	3.8	41.9	3.6	28.0
29.0													29.4	3.4	39.6	3.4	29.0
30.0													25.7	3.1	37.2	3.2	30.0
31.0													21.4	2.7	34.6	2.9	31.0
32.0													15.8	2.4	31.8	2.6	32.0
33.0													6.2	2.2	28.8	2.3	33.0
34.0															25.5	2.0	34.0
35.0															21.7	1.8	35.0
36.0															17.0	1.5	36.0
37.0															10.2	1.3	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #5
NO TRAVEL – LEVEL 0° TO 2°

MAIN BOOM with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	100.0	77.7	68.0												2.5	
3.0	72.5	91.5	75.9	66.8	78.1	56.7										3.0	
3.5	70.1	82.3	73.9	64.7	76.5	53.3	78.4	44.3								3.5	
4.0	67.6	76.7	72.0	62.1	74.9	50.1	77.0	41.1	79.3	30.7						4.0	
4.5	65.1	72.7	70.1	59.4	73.3	47.1	75.6	38.1	78.1	29.2						4.5	
5.0	62.6	68.3	68.1	57.1	71.7	44.8	74.3	36.2	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	57.2	64.0	52.6	68.4	40.3	71.4	33.0	74.7	24.4	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	44.7	59.8	41.5	65.0	36.6	68.6	29.4	72.4	22.2	75.0	20.5	76.9	18.6	78.4	15.7	7.0
8.0	45.2	35.6	55.3	33.8	61.4	32.1	65.6	26.3	70.0	20.5	73.0	19.7	75.2	17.7	76.9	15.1	8.0
9.0	38.0	28.4	50.6	28.1	57.8	26.9	62.6	23.7	67.6	19.6	71.0	18.9	73.5	16.5	75.4	14.4	9.0
10.0	29.1	23.3	45.5	23.1	54.0	22.9	59.5	21.4	65.2	18.1	69.0	17.3	71.7	15.3	73.9	13.7	10.0
11.0	15.5	19.5	39.8	19.3	50.0	19.3	56.3	18.9	62.7	16.8	66.9	16.0	70.0	14.1	72.3	13.0	11.0
12.0			33.3	16.4	45.7	16.4	53.0	16.5	60.1	16.0	64.8	15.6	68.2	13.1	70.8	12.0	12.0
13.0			25.1	14.0	41.0	14.0	49.5	14.2	57.5	14.6	62.7	14.6	66.4	12.4	69.2	11.4	13.0
14.0			11.9	12.1	35.8	12.1	45.8	12.3	54.8	13.0	60.5	13.0	64.6	11.6	67.6	10.8	14.0
15.0					29.7	10.6	41.8	10.7	51.9	11.5	58.3	11.6	62.7	10.9	66.0	10.0	15.0
16.0					22.1	9.2	37.5	9.3	49.0	10.1	56.0	10.5	60.8	10.3	64.4	9.3	16.0
17.0					8.6	8.0	32.6	8.2	45.9	9.0	53.6	9.4	58.9	9.5	62.7	8.8	17.0
18.0							26.9	7.1	42.7	8.0	51.2	8.5	56.9	8.6	61.0	8.1	18.0
19.0							19.6	6.2	39.2	7.0	48.7	7.6	54.9	7.8	59.3	7.6	19.0
20.0							4.7	5.3	35.4	6.2	46.0	6.8	52.8	7.1	57.6	7.1	20.0
21.0									31.2	5.5	43.3	6.0	50.6	6.5	55.8	6.5	21.0
22.0									26.4	4.8	40.4	5.4	48.4	5.8	54.0	5.9	22.0
23.0									20.4	4.2	37.3	4.8	46.1	5.2	52.1	5.4	23.0
24.0									11.6	3.7	33.9	4.2	43.7	4.7	50.2	4.9	24.0
25.0											30.2	3.8	41.2	4.2	48.2	4.4	25.0
26.0											26.0	3.3	38.6	3.7	46.2	4.0	26.0
27.0											21.0	2.9	35.8	3.3	44.1	3.6	27.0
28.0											14.2	2.5	32.8	2.9	41.9	3.2	28.0
29.0													29.4	2.6	39.6	2.9	29.0
30.0													25.7	2.3	37.2	2.5	30.0
31.0													21.4	2.0	34.6	2.2	31.0
32.0													15.8	1.7	31.8	2.0	32.0
33.0													6.2	1.4	28.8	1.7	33.0
34.0															25.5	1.5	34.0
35.0															21.7	1.2	35.0
36.0															17.0	1.0	36.0
37.0															10.2	0.8	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #6
NO TRAVEL – LEVEL 2° TO 4°

MAIN BOOM with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	75.0	77.7	51.0												2.5	
3.0	72.5	68.6	75.9	50.1	78.1	42.0										3.0	
3.5	70.1	61.7	73.9	48.5	76.5	39.5	78.4	32.3								3.5	
4.0	67.6	57.5	72.0	46.6	74.9	37.1	77.0	30.0	79.3	22.1						4.0	
4.5	65.1	54.5	70.1	44.5	73.3	34.9	75.6	27.8	78.1	21.1						4.5	
5.0	62.6	51.2	68.1	42.8	71.7	33.2	74.3	26.5	77.0	19.9	78.9	15.8				5.0	
6.0	57.2	44.5	64.0	39.4	68.4	29.9	71.4	24.1	74.7	17.5	76.9	15.2	78.6	14.3		6.0	
7.0	51.5	39.6	59.8	35.0	65.0	27.0	68.6	21.5	72.4	16.0	75.0	14.6	76.9	13.7	78.4	12.2	7.0
8.0	45.2	32.6	55.3	29.8	61.4	24.3	65.6	19.2	70.0	14.8	73.0	14.0	75.2	13.0	76.9	11.7	8.0
9.0	38.0	27.5	50.6	25.2	57.8	21.5	62.6	17.3	67.6	14.1	71.0	13.4	73.5	12.2	75.4	11.2	9.0
10.0	29.1	22.7	45.5	21.5	54.0	19.4	59.5	15.7	65.2	13.0	69.0	12.3	71.7	11.3	73.9	10.7	10.0
11.0	15.5	18.9	39.8	18.6	50.0	17.6	56.3	14.1	62.7	12.1	66.9	11.3	70.0	10.4	72.3	10.1	11.0
12.0			33.3	16.0	45.7	15.4	53.0	12.8	60.1	11.5	64.8	11.1	68.2	9.7	70.8	9.3	12.0
13.0			25.1	13.6	41.0	13.6	49.5	12.1	57.5	11.1	62.7	10.4	66.4	9.1	69.2	8.9	13.0
14.0			11.9	11.7	35.8	12.0	45.8	11.1	54.8	10.7	60.5	9.6	64.6	8.6	67.6	8.4	14.0
15.0					29.7	10.4	41.8	9.8	51.9	10.0	58.3	8.9	62.7	8.1	66.0	7.8	15.0
16.0					22.1	9.1	37.5	8.7	49.0	9.0	56.0	8.3	60.8	7.6	64.4	7.3	16.0
17.0					8.6	7.9	32.6	7.8	45.9	8.0	53.6	7.9	58.9	7.2	62.7	6.8	17.0
18.0							26.9	6.7	42.7	7.2	51.2	7.3	56.9	6.8	61.0	6.3	18.0
19.0							19.6	5.8	39.2	6.4	48.7	6.6	54.9	6.4	59.3	5.9	19.0
20.0							4.7	4.9	35.4	5.8	46.0	6.0	52.8	6.0	57.6	5.6	20.0
21.0									31.2	5.2	43.3	5.4	50.6	5.5	55.8	5.2	21.0
22.0									26.4	4.5	40.4	4.8	48.4	5.0	54.0	4.9	22.0
23.0									20.4	3.9	37.3	4.4	46.1	4.5	52.1	4.6	23.0
24.0									11.6	3.4	33.9	3.9	43.7	4.1	50.2	4.1	24.0
25.0											30.2	3.5	41.2	3.7	48.2	3.8	25.0
26.0											26.0	3.1	38.6	3.3	46.2	3.4	26.0
27.0											21.0	2.7	35.8	3.0	44.1	3.1	27.0
28.0											14.2	2.3	32.8	2.6	41.9	2.8	28.0
29.0													29.4	2.4	39.6	2.5	29.0
30.0													25.7	2.1	37.2	2.2	30.0
31.0													21.4	1.8	34.6	1.9	31.0
32.0													15.8	1.5	31.8	1.7	32.0
33.0													6.2	1.2	28.8	1.5	33.0
34.0															25.5	1.3	34.0
35.0															21.7	1.1	35.0
36.0															17.0	0.9	36.0
37.0															10.2	0.7	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%									II
III	0%	0%	0%	0%	25%	50%	75%	100%									III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #7

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

MAIN BOOM with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	100.0	77.7	68.0												2.5	
3.0	72.5	91.5	75.9	66.8	78.1	56.7										3.0	
3.5	70.1	82.3	73.9	64.7	76.5	53.3	78.4	44.3								3.5	
4.0	67.6	76.7	72.0	62.1	74.9	50.1	77.0	41.1	79.3	30.7						4.0	
4.5	65.1	72.7	70.1	59.4	73.3	47.1	75.6	38.1	78.1	29.2						4.5	
5.0	62.6	68.3	68.1	57.1	71.7	44.8	74.3	36.2	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	55.2	64.0	50.5	68.4	40.3	71.4	33.0	74.7	24.4	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	41.2	59.8	40.1	65.0	36.6	68.6	29.4	72.4	22.2	75.0	20.5	76.9	18.6	78.4	15.7	7.0
8.0	45.2	31.6	55.3	31.3	61.4	31.0	65.6	26.3	70.0	20.5	73.0	19.7	75.2	17.7	76.9	15.1	8.0
9.0	38.0	25.2	50.6	25.0	57.8	24.9	62.6	23.7	67.6	19.6	71.0	18.9	73.5	16.5	75.4	14.4	9.0
10.0	29.1	20.7	45.5	20.5	54.0	20.5	59.5	20.5	65.2	18.1	69.0	17.3	71.7	15.3	73.9	13.7	10.0
11.0	15.5	17.3	39.8	17.1	50.0	17.1	56.3	17.2	62.7	16.8	66.9	16.0	70.0	14.1	72.3	13.0	11.0
12.0			33.3	14.5	45.7	14.5	53.0	14.6	60.1	15.4	64.8	15.6	68.2	13.1	70.8	12.0	12.0
13.0			25.1	12.5	41.0	12.5	49.5	12.6	57.5	13.3	62.7	13.8	66.4	12.4	69.2	11.4	13.0
14.0			11.9	10.7	35.8	10.8	45.8	10.9	54.8	11.6	60.5	12.1	64.6	11.6	67.6	10.8	14.0
15.0					29.7	9.4	41.8	9.5	51.9	10.2	58.3	10.6	62.7	10.9	66.0	10.0	15.0
16.0					22.1	8.2	37.5	8.3	49.0	9.0	56.0	9.4	60.8	9.8	64.4	9.3	16.0
17.0					8.6	7.2	32.6	7.3	45.9	8.0	53.6	8.4	58.9	8.8	62.7	8.8	17.0
18.0							26.9	6.4	42.7	7.1	51.2	7.5	56.9	7.9	61.0	8.1	18.0
19.0							19.6	5.6	39.2	6.3	48.7	6.7	54.9	7.1	59.3	7.3	19.0
20.0							4.7	4.9	35.4	5.6	46.0	6.0	52.8	6.4	57.6	6.6	20.0
21.0									31.2	5.0	43.3	5.4	50.6	5.8	55.8	6.0	21.0
22.0									26.4	4.5	40.4	4.9	48.4	5.2	54.0	5.4	22.0
23.0									20.4	4.0	37.3	4.4	46.1	4.7	52.1	4.9	23.0
24.0									11.6	3.5	33.9	4.0	43.7	4.3	50.2	4.5	24.0
25.0											30.2	3.5	41.2	3.9	48.2	4.1	25.0
26.0											26.0	3.1	38.6	3.5	46.2	3.7	26.0
27.0											21.0	2.7	35.8	3.1	44.1	3.4	27.0
28.0											14.2	2.4	32.8	2.8	41.9	3.0	28.0
29.0													29.4	2.4	39.6	2.7	29.0
30.0													25.7	2.1	37.2	2.4	30.0
31.0													21.4	1.9	34.6	2.1	31.0
32.0													15.8	1.6	31.8	1.8	32.0
33.0													6.2	1.4	28.8	1.6	33.0
34.0															25.5	1.4	34.0
35.0															21.7	1.2	35.0
36.0															17.0	1.0	36.0
37.0															10.2	0.8	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	II
III	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #8

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 2° TO 4°

MAIN BOOM with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	75.0	77.7	51.0												2.5	
3.0	72.5	68.6	75.9	50.1	78.1	42.0										3.0	
3.5	70.1	61.7	73.9	48.5	76.5	39.5	78.4	32.3								3.5	
4.0	67.6	57.5	72.0	46.6	74.9	37.1	77.0	30.0	79.3	22.1						4.0	
4.5	65.1	54.5	70.1	44.5	73.3	34.9	75.6	27.8	78.1	21.1						4.5	
5.0	62.6	51.2	68.1	42.8	71.7	33.2	74.3	26.5	77.0	19.9	78.9	15.8				5.0	
6.0	57.2	44.5	64.0	39.4	68.4	29.9	71.4	24.1	74.7	17.5	76.9	15.2	78.6	14.3		6.0	
7.0	51.5	38.5	59.8	34.9	65.0	27.0	68.6	21.5	72.4	16.0	75.0	14.6	76.9	13.7	78.4	12.2	7.0
8.0	45.2	31.1	55.3	29.0	61.4	24.3	65.6	19.2	70.0	14.8	73.0	14.0	75.2	13.0	76.9	11.7	8.0
9.0	38.0	24.7	50.6	24.5	57.8	21.5	62.6	17.3	67.6	14.1	71.0	13.4	73.5	12.2	75.4	11.2	9.0
10.0	29.1	20.2	45.5	20.1	54.0	19.4	59.5	15.7	65.2	13.0	69.0	12.3	71.7	11.3	73.9	10.7	10.0
11.0	15.5	16.8	39.8	16.8	50.0	17.0	56.3	14.1	62.7	12.1	66.9	11.3	70.0	10.4	72.3	10.1	11.0
12.0			33.3	14.2	45.7	14.4	53.0	12.8	60.1	11.5	64.8	11.1	68.2	9.7	70.8	9.3	12.0
13.0			25.1	12.1	41.0	12.4	49.5	12.1	57.5	11.1	62.7	10.4	66.4	9.1	69.2	8.9	13.0
14.0			11.9	10.4	35.8	10.7	45.8	10.6	54.8	10.7	60.5	9.6	64.6	8.6	67.6	8.4	14.0
15.0					29.7	9.3	41.8	9.2	51.9	9.7	58.3	8.9	62.7	8.1	66.0	7.8	15.0
16.0					22.1	8.1	37.5	8.0	49.0	8.7	56.0	8.3	60.8	7.6	64.4	7.3	16.0
17.0					8.6	7.0	32.6	7.0	45.9	7.7	53.6	7.9	58.9	7.2	62.7	6.8	17.0
18.0							26.9	6.1	42.7	6.8	51.2	7.1	56.9	6.8	61.0	6.3	18.0
19.0							19.6	5.3	39.2	6.1	48.7	6.4	54.9	6.4	59.3	5.9	19.0
20.0							4.7	4.6	35.4	5.4	46.0	5.8	52.8	5.9	57.6	5.6	20.0
21.0									31.2	4.8	43.3	5.2	50.6	5.3	55.8	5.2	21.0
22.0									26.4	4.2	40.4	4.7	48.4	4.8	54.0	4.9	22.0
23.0									20.4	3.7	37.3	4.2	46.1	4.3	52.1	4.4	23.0
24.0									11.6	3.2	33.9	3.8	43.7	3.9	50.2	4.0	24.0
25.0											30.2	3.3	41.2	3.5	48.2	3.6	25.0
26.0											26.0	2.9	38.6	3.2	46.2	3.3	26.0
27.0											21.0	2.5	35.8	2.9	44.1	2.9	27.0
28.0											14.2	2.1	32.8	2.6	41.9	2.6	28.0
29.0													29.4	2.2	39.6	2.4	29.0
30.0													25.7	1.9	37.2	2.1	30.0
31.0													21.4	1.7	34.6	1.9	31.0
32.0													15.8	1.4	31.8	1.6	32.0
33.0													6.2	1.1	28.8	1.4	33.0
34.0															25.5	1.2	34.0
35.0															21.7	1.0	35.0
36.0															17.0	0.8	36.0
37.0															10.2	0.6	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%									II
III	0%	0%	0%	0%	25%	50%	75%	100%									III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #9
NO TRAVEL – LEVEL 0° TO 2°

MAIN BOOM with TRACKS FULLY EXTENDED																			
0t COUNTERWEIGHT																			
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)			
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0				
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°				
2.5	74.9	100.0	77.7	68.0												2.5			
3.0	72.5	91.5	75.9	66.8	78.1	56.7										3.0			
3.5	70.1	82.3	73.9	64.7	76.5	53.3	78.4	44.3								3.5			
4.0	67.6	76.7	72.0	62.1	74.9	50.1	77.0	41.1	79.3	30.7						4.0			
4.5	65.1	70.5	70.1	59.4	73.3	47.1	75.6	38.1	78.1	29.2						4.5			
5.0	62.6	58.3	68.1	52.7	71.7	44.8	74.3	36.2	77.0	27.6	78.9	22.3				5.0			
6.0	57.2	42.4	64.0	39.0	68.4	36.5	71.4	33.0	74.7	24.4	76.9	21.4	78.6	19.4		6.0			
7.0	51.5	32.6	59.8	30.3	65.0	28.6	68.6	27.1	72.4	22.2	75.0	20.5	76.9	18.6	78.4	15.7	7.0		
8.0	45.2	25.7	55.3	24.3	61.4	23.1	65.6	22.1	70.0	20.5	73.0	19.7	75.2	17.7	76.9	15.1	8.0		
9.0	38.0	20.1	50.6	19.9	57.8	19.0	62.6	18.3	67.6	18.0	71.0	17.6	73.5	16.5	75.4	14.4	9.0		
10.0	29.1	16.1	45.5	16.5	54.0	15.9	59.5	15.3	65.2	15.3	69.0	15.0	71.7	14.8	73.9	13.7	10.0		
11.0	15.5	13.1	39.8	13.6	50.0	13.4	56.3	13.0	62.7	13.1	66.9	12.9	70.0	12.8	72.3	12.5	11.0		
12.0			33.3	11.3	45.7	11.4	53.0	11.1	60.1	11.2	64.8	11.2	68.2	11.2	70.8	11.0	12.0		
13.0			25.1	9.4	41.0	9.7	49.5	9.5	57.5	9.7	62.7	9.8	66.4	9.8	69.2	9.7	13.0		
14.0			11.9	7.9	35.8	8.2	45.8	8.1	54.8	8.4	60.5	8.5	64.6	8.6	67.6	8.5	14.0		
15.0					29.7	6.9	41.8	6.9	51.9	7.3	58.3	7.4	62.7	7.6	66.0	7.6	15.0		
16.0					22.1	5.7	37.5	5.8	49.0	6.3	56.0	6.5	60.8	6.7	64.4	6.7	16.0		
17.0					8.6	4.8	32.6	4.8	45.9	5.5	53.6	5.7	58.9	5.9	62.7	5.9	17.0		
18.0							26.9	4.0	42.7	4.7	51.2	5.0	56.9	5.2	61.0	5.3	18.0		
19.0							19.6	3.3	39.2	4.0	48.7	4.3	54.9	4.6	59.3	4.7	19.0		
20.0							4.7	2.6	35.4	3.4	46.0	3.8	52.8	4.0	57.6	4.1	20.0		
21.0									31.2	2.8	43.3	3.2	50.6	3.5	55.8	3.6	21.0		
22.0									26.4	2.3	40.4	2.7	48.4	3.0	54.0	3.2	22.0		
23.0									20.4	1.8	37.3	2.3	46.1	2.6	52.1	2.8	23.0		
24.0									11.6	1.4	33.9	1.9	43.7	2.2	50.2	2.4	24.0		
25.0													30.2	1.5	41.2	1.9	25.0		
26.0													26.0	1.1	38.6	1.6	26.0		
27.0													21.0	0.8	35.8	1.2	27.0		
28.0													14.2	0.5	32.8	0.9	28.0		
29.0															29.4	0.7	39.6	29.0	
30.0															25.7	*	37.2	0.6	30.0
31.0															21.4	*	34.6	*	31.0
32.0															15.8	*	31.8	*	32.0
33.0															6.2	*	28.8	*	33.0
34.0																	25.5	*	34.0
35.0																	21.7	*	35.0
36.0																	17.0	*	36.0
37.0																	10.2	*	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line		
Telescoping Sequence (%)																			
I	0%		33%		67%		100%		100%		100%		100%		100%		I		
II	0%		0%		0%		0%		25%		50%		75%		100%		II		
III	0%		0%		0%		0%		25%		50%		75%		100%		III		

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #10
NO TRAVEL – LEVEL 2° TO 4°

MAIN BOOM with TRACKS FULLY EXTENDED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	75.0	77.7	51.0												2.5	
3.0	72.5	68.6	75.9	50.1	78.1	42.0										3.0	
3.5	70.1	61.7	73.9	48.5	76.5	39.5	78.4	32.3								3.5	
4.0	67.6	57.5	72.0	46.6	74.9	37.1	77.0	30.0	79.3	22.1						4.0	
4.5	65.1	54.5	70.1	44.5	73.3	34.9	75.6	27.8	78.1	21.1						4.5	
5.0	62.6	48.5	68.1	42.8	71.7	33.2	74.3	26.5	77.0	19.9	78.9	15.8				5.0	
6.0	57.2	36.5	64.0	32.9	68.4	29.9	71.4	24.1	74.7	17.5	76.9	15.2	78.6	14.3		6.0	
7.0	51.5	28.6	59.8	26.1	65.0	24.3	68.6	21.5	72.4	16.0	75.0	14.6	76.9	13.7	78.4	12.2	7.0
8.0	45.2	23.1	55.3	21.2	61.4	20.0	65.6	18.5	70.0	14.8	73.0	14.0	75.2	13.0	76.9	11.7	8.0
9.0	38.0	19.1	50.6	17.6	57.8	16.6	62.6	15.4	67.6	14.1	71.0	13.4	73.5	12.2	75.4	11.2	9.0
10.0	29.1	15.9	45.5	14.7	54.0	14.0	59.5	13.0	65.2	12.8	69.0	12.3	71.7	11.3	73.9	10.7	10.0
11.0	15.5	12.9	39.8	12.4	50.0	11.9	56.3	11.0	62.7	11.0	66.9	10.8	70.0	10.4	72.3	10.1	11.0
12.0			33.3	10.6	45.7	10.2	53.0	9.4	60.1	9.5	64.8	9.4	68.2	9.2	70.8	9.0	12.0
13.0			25.1	9.0	41.0	8.7	49.5	8.0	57.5	8.2	62.7	8.2	66.4	8.1	69.2	7.9	13.0
14.0			11.9	7.4	35.8	7.5	45.8	6.9	54.8	7.1	60.5	7.1	64.6	7.1	67.6	7.0	14.0
15.0					29.7	6.5	41.8	5.9	51.9	6.1	58.3	6.2	62.7	6.2	66.0	6.2	15.0
16.0					22.1	5.5	37.5	5.0	49.0	5.3	56.0	5.4	60.8	5.5	64.4	5.4	16.0
17.0					8.6	4.5	32.6	4.2	45.9	4.6	53.6	4.7	58.9	4.8	62.7	4.8	17.0
18.0							26.9	3.6	42.7	3.9	51.2	4.1	56.9	4.2	61.0	4.2	18.0
19.0							19.6	3.0	39.2	3.3	48.7	3.5	54.9	3.6	59.3	3.7	19.0
20.0							4.7	2.3	35.4	2.8	46.0	3.0	52.8	3.1	57.6	3.2	20.0
21.0									31.2	2.3	43.3	2.5	50.6	2.7	55.8	2.8	21.0
22.0									26.4	1.9	40.4	2.1	48.4	2.3	54.0	2.4	22.0
23.0									20.4	1.6	37.3	1.7	46.1	1.9	52.1	2.0	23.0
24.0									11.6	1.2	33.9	1.4	43.7	1.6	50.2	1.7	24.0
25.0											30.2	1.1	41.2	1.3	48.2	1.4	25.0
26.0											26.0	0.8	38.6	1.0	46.2	1.1	26.0
27.0											21.0	0.5	35.8	0.7	44.1	0.8	27.0
28.0											14.2	*	32.8	0.5	41.9	0.6	28.0
29.0													29.4	*	39.6	*	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%									II
III	0%	0%	0%	0%	25%	50%	75%	100%									III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #11

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

MAIN BOOM with TRACKS FULLY EXTENDED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)														RADIUS (m)		
	12.8		15.7		18.6		21.5		25.9		30.3		34.7			39.0	
	∠°		∠°		∠°		∠°		∠°		∠°		∠°			∠°	
2.5	74.9	100.0	77.7	68.0												2.5	
3.0	72.5	91.5	75.9	66.8	78.1	56.7										3.0	
3.5	70.1	82.3	73.9	64.7	76.5	53.3	78.4	44.3								3.5	
4.0	67.6	76.7	72.0	62.1	74.9	50.1	77.0	41.1	79.3	30.7						4.0	
4.5	65.1	66.8	70.1	59.4	73.3	47.1	75.6	38.1	78.1	29.2						4.5	
5.0	62.6	55.6	68.1	50.0	71.7	44.8	74.3	36.2	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	40.9	64.0	37.4	68.4	34.8	71.4	32.5	74.7	24.4	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	30.3	59.8	29.2	65.0	27.5	68.6	25.9	72.4	22.2	75.0	20.5	76.9	18.6	78.4	15.7	7.0
8.0	45.2	22.8	55.3	23.0	61.4	22.3	65.6	21.2	70.0	20.5	73.0	19.7	75.2	17.7	76.9	15.1	8.0
9.0	38.0	17.9	50.6	18.1	57.8	18.3	62.6	17.6	67.6	17.3	71.0	16.8	73.5	16.3	75.4	14.4	9.0
10.0	29.1	14.3	45.5	14.6	54.0	14.8	59.5	14.8	65.2	14.7	69.0	14.4	71.7	14.1	73.9	13.7	10.0
11.0	15.5	11.7	39.8	12.0	50.0	12.2	56.3	12.2	62.7	12.6	66.9	12.4	70.0	12.2	72.3	12.0	11.0
12.0			33.3	10.0	45.7	10.2	53.0	10.2	60.1	10.8	64.8	10.8	68.2	10.7	70.8	10.5	12.0
13.0			25.1	8.4	41.0	8.6	49.5	8.6	57.5	9.2	62.7	9.4	66.4	9.4	69.2	9.3	13.0
14.0			11.9	7.0	35.8	7.3	45.8	7.3	54.8	7.9	60.5	8.2	64.6	8.3	67.6	8.2	14.0
15.0					29.7	6.2	41.8	6.2	51.9	6.8	58.3	7.2	62.7	7.3	66.0	7.2	15.0
16.0					22.1	5.2	37.5	5.3	49.0	5.9	56.0	6.3	60.8	6.4	64.4	6.4	16.0
17.0					8.6	4.4	32.6	4.5	45.9	5.1	53.6	5.5	58.9	5.7	62.7	5.7	17.0
18.0							26.9	3.8	42.7	4.4	51.2	4.8	56.9	5.0	61.0	5.0	18.0
19.0							19.6	3.1	39.2	3.8	48.7	4.1	54.9	4.4	59.3	4.5	19.0
20.0							4.7	2.4	35.4	3.2	46.0	3.6	52.8	3.8	57.6	3.9	20.0
21.0									31.2	2.6	43.3	3.1	50.6	3.3	55.8	3.4	21.0
22.0									26.4	2.1	40.4	2.6	48.4	2.9	54.0	3.0	22.0
23.0									20.4	1.7	37.3	2.1	46.1	2.5	52.1	2.6	23.0
24.0									11.6	1.3	33.9	1.7	43.7	2.1	50.2	2.2	24.0
25.0											30.2	1.4	41.2	1.8	48.2	1.9	25.0
26.0											26.0	1.1	38.6	1.5	46.2	1.6	26.0
27.0											21.0	0.8	35.8	1.2	44.1	1.3	27.0
28.0											14.2	0.5	32.8	0.9	41.9	1.1	28.0
29.0													29.4	0.6	39.6	0.8	29.0
30.0													25.7	*	37.2	0.6	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #12

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 2° TO 4°

MAIN BOOM with TRACKS FULLY EXTENDED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)																RADIUS (m)
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	75.0	77.7	51.0													2.5
3.0	72.5	68.6	75.9	50.1	78.1	42.0											3.0
3.5	70.1	61.7	73.9	48.5	76.5	39.5	78.4	32.3									3.5
4.0	67.6	57.5	72.0	46.6	74.9	37.1	77.0	30.0	79.3	22.1							4.0
4.5	65.1	54.5	70.1	44.5	73.3	34.9	75.6	27.8	78.1	21.1							4.5
5.0	62.6	46.5	68.1	41.1	71.7	33.2	74.3	26.5	77.0	19.9	78.9	15.8					5.0
6.0	57.2	35.2	64.0	31.6	68.4	29.0	71.4	24.1	74.7	17.5	76.9	15.2	78.6	14.3			6.0
7.0	51.5	27.8	59.8	25.2	65.0	23.4	68.6	21.5	72.4	16.0	75.0	14.6	76.9	13.7	78.4	12.2	7.0
8.0	45.2	22.6	55.3	20.6	61.4	19.3	65.6	17.8	70.0	14.8	73.0	14.0	75.2	13.0	76.9	11.7	8.0
9.0	38.0	17.6	50.6	17.1	57.8	16.1	62.6	14.9	67.6	14.1	71.0	13.4	73.5	12.2	75.4	11.2	9.0
10.0	29.1	14.1	45.5	14.3	54.0	13.6	59.5	12.5	65.2	12.3	69.0	12.0	71.7	11.3	73.9	10.7	10.0
11.0	15.5	11.4	39.8	11.7	50.0	11.6	56.3	10.7	62.7	10.6	66.9	10.4	70.0	10.1	72.3	9.7	11.0
12.0			33.3	9.6	45.7	9.9	53.0	9.1	60.1	9.1	64.8	9.0	68.2	8.8	70.8	8.6	12.0
13.0			25.1	8.0	41.0	8.4	49.5	7.8	57.5	7.9	62.7	7.9	66.4	7.7	69.2	7.6	13.0
14.0			11.9	6.7	35.8	7.1	45.8	6.6	54.8	6.8	60.5	6.9	64.6	6.8	67.6	6.7	14.0
15.0					29.7	6.0	41.8	5.7	51.9	5.9	58.3	6.0	62.7	6.0	66.0	5.9	15.0
16.0					22.1	5.1	37.5	4.8	49.0	5.1	56.0	5.2	60.8	5.2	64.4	5.2	16.0
17.0					8.6	4.2	32.6	4.1	45.9	4.4	53.6	4.5	58.9	4.6	62.7	4.6	17.0
18.0							26.9	3.5	42.7	3.7	51.2	3.9	56.9	4.0	61.0	4.0	18.0
19.0							19.6	2.8	39.2	3.2	48.7	3.4	54.9	3.5	59.3	3.5	19.0
20.0							4.7	2.2	35.4	2.7	46.0	2.9	52.8	3.0	57.6	3.0	20.0
21.0									31.2	2.2	43.3	2.4	50.6	2.6	55.8	2.6	21.0
22.0									26.4	1.8	40.4	2.0	48.4	2.2	54.0	2.2	22.0
23.0									20.4	1.5	37.3	1.6	46.1	1.8	52.1	1.9	23.0
24.0									11.6	1.1	33.9	1.3	43.7	1.5	50.2	1.6	24.0
25.0											30.2	1.0	41.2	1.2	48.2	1.3	25.0
26.0											26.0	0.7	38.6	0.9	46.2	1.0	26.0
27.0											21.0	0.5	35.8	0.6	44.1	0.7	27.0
28.0											14.2	*	32.8	*	41.9	0.5	28.0
29.0													29.4	*	39.6	*	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #13
NO TRAVEL – LEVEL 0° TO 2°

MAIN BOOM with TRACKS RETRACTED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	*	77.7	*												2.5	
3.0	72.5	*	75.9	66.8	78.1	56.7										3.0	
3.5	70.1	63.6	73.9	57.6	76.5	52.8	78.4	44.3								3.5	
4.0	67.6	53.8	72.0	49.2	74.9	45.3	77.0	41.1	79.3	30.7						4.0	
4.5	65.1	46.4	70.1	42.6	73.3	39.5	75.6	36.8	78.1	29.2						4.5	
5.0	62.6	40.6	68.1	37.4	71.7	34.8	74.3	32.5	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	32.1	64.0	29.6	68.4	27.7	71.4	26.0	74.7	24.4	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	25.9	59.8	24.1	65.0	22.5	68.6	21.2	72.4	20.9	75.0	20.4	76.9	18.6	78.4	15.7	
8.0	45.2	20.8	55.3	20.0	61.4	18.7	65.6	17.6	70.0	17.6	73.0	17.3	75.2	16.9	76.9	15.1	
9.0	38.0	17.1	50.6	16.6	57.8	15.7	62.6	14.7	67.6	14.9	71.0	14.8	73.5	14.6	75.4	14.3	
10.0	29.1	14.2	45.5	13.8	54.0	13.3	59.5	12.4	65.2	12.7	69.0	12.8	71.7	12.6	73.9	12.5	
11.0	15.5	12.0	39.8	11.6	50.0	11.3	56.3	10.5	62.7	10.9	66.9	11.1	70.0	11.0	72.3	10.9	
12.0			33.3	9.8	45.7	9.6	53.0	8.9	60.1	9.4	64.8	9.6	68.2	9.7	70.8	9.6	
13.0			25.1	8.4	41.0	8.0	49.5	7.6	57.5	8.1	62.7	8.4	66.4	8.5	69.2	8.5	
14.0			11.9	7.0	35.8	6.7	45.8	6.4	54.8	7.0	60.5	7.3	64.6	7.5	67.6	7.5	
15.0					29.7	5.6	41.8	5.4	51.9	6.1	58.3	6.4	62.7	6.6	66.0	6.7	
16.0					22.1	4.6	37.5	4.4	49.0	5.2	56.0	5.6	60.8	5.8	64.4	5.9	
17.0					8.6	3.8	32.6	3.6	45.9	4.5	53.6	4.8	58.9	5.1	62.7	5.2	
18.0							26.9	2.9	42.7	3.8	51.2	4.2	56.9	4.4	61.0	4.6	
19.0							19.6	2.2	39.2	3.2	48.7	3.6	54.9	3.9	59.3	4.0	
20.0							4.7	1.6	35.4	2.6	46.0	3.1	52.8	3.4	57.6	3.5	
21.0									31.2	2.1	43.3	2.6	50.6	2.9	55.8	3.1	
22.0									26.4	1.6	40.4	2.2	48.4	2.5	54.0	2.7	
23.0									20.4	1.2	37.3	1.8	46.1	2.1	52.1	2.3	
24.0									11.6	0.8	33.9	1.4	43.7	1.7	50.2	1.9	
25.0											30.2	1.0	41.2	1.4	48.2	1.6	
26.0											26.0	0.7	38.6	1.1	46.2	1.3	
27.0											21.0	*	35.8	0.8	44.1	1.0	
28.0											14.2	*	32.8	0.5	41.9	0.8	
29.0													29.4	*	39.6	0.5	
30.0													25.7	*	37.2	*	
31.0													21.4	*	34.6	*	
32.0													15.8	*	31.8	*	
33.0													6.2	*	28.8	*	
34.0															25.5	*	
35.0															21.7	*	
36.0															17.0	*	
37.0															10.2	*	
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #14

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

MAIN BOOM with TRACKS RETRACTED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	*	77.7	*												2.5	
3.0	72.5	*	75.9	64.9	78.1	56.7										3.0	
3.5	70.1	60.6	73.9	54.6	76.5	49.8	78.4	44.3								3.5	
4.0	67.6	51.6	72.0	46.9	74.9	43.0	77.0	39.7	79.3	30.7						4.0	
4.5	65.1	44.7	70.1	40.8	73.3	37.6	75.6	34.9	78.1	29.2						4.5	
5.0	62.6	39.2	68.1	35.9	71.7	33.2	74.3	30.9	77.0	27.6	78.9	22.3				5.0	
6.0	57.2	29.6	64.0	28.6	68.4	26.6	71.4	24.8	74.7	24.1	76.9	21.4	78.6	19.4		6.0	
7.0	51.5	23.0	59.8	22.5	65.0	21.7	68.6	20.3	72.4	20.0	75.0	19.4	76.9	18.6	78.4	15.7	7.0
8.0	45.2	18.4	55.3	18.0	61.4	17.7	65.6	16.9	70.0	16.8	73.0	16.5	75.2	16.1	76.9	15.1	8.0
9.0	38.0	15.2	50.6	14.8	57.8	14.5	62.6	14.2	67.6	14.3	71.0	14.2	73.5	13.9	75.4	13.6	9.0
10.0	29.1	12.6	45.5	12.3	54.0	12.0	59.5	11.8	65.2	12.3	69.0	12.2	71.7	12.1	73.9	11.9	10.0
11.0	15.5	10.6	39.8	10.3	50.0	10.1	56.3	9.9	62.7	10.5	66.9	10.6	70.0	10.6	72.3	10.4	11.0
12.0			33.3	8.7	45.7	8.5	53.0	8.3	60.1	9.0	64.8	9.2	68.2	9.3	70.8	9.2	12.0
13.0			25.1	7.4	41.0	7.2	49.5	7.0	57.5	7.7	62.7	8.1	66.4	8.1	69.2	8.1	13.0
14.0			11.9	6.3	35.8	6.1	45.8	5.9	54.8	6.7	60.5	7.0	64.6	7.2	67.6	7.2	14.0
15.0					29.7	5.2	41.8	5.0	51.9	5.7	58.3	6.1	62.7	6.3	66.0	6.4	15.0
16.0					22.1	4.4	37.5	4.2	49.0	4.9	56.0	5.4	60.8	5.5	64.4	5.6	16.0
17.0					8.6	3.6	32.6	3.4	45.9	4.3	53.6	4.6	58.9	4.9	62.7	5.0	17.0
18.0							26.9	2.7	42.7	3.6	51.2	4.0	56.9	4.2	61.0	4.4	18.0
19.0							19.6	2.1	39.2	3.0	48.7	3.4	54.9	3.7	59.3	3.8	19.0
20.0							4.7	1.5	35.4	2.4	46.0	2.9	52.8	3.2	57.6	3.4	20.0
21.0									31.2	1.9	43.3	2.5	50.6	2.7	55.8	2.9	21.0
22.0									26.4	1.5	40.4	2.0	48.4	2.3	54.0	2.5	22.0
23.0									20.4	1.1	37.3	1.7	46.1	1.9	52.1	2.1	23.0
24.0									11.6	0.7	33.9	1.3	43.7	1.6	50.2	1.8	24.0
25.0											30.2	1.0	41.2	1.3	48.2	1.5	25.0
26.0											26.0	0.7	38.6	1.0	46.2	1.2	26.0
27.0											21.0	*	35.8	0.7	44.1	0.9	27.0
28.0											14.2	*	32.8	*	41.9	0.7	28.0
29.0													29.4	*	39.6	*	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	10		8		7		6		4		3		3		3		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #15
NO TRAVEL – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.2	66.0	8.2	15.0
16.0					22.1	8.2	37.5	8.2	49.0	8.2	56.0	8.2	60.8	8.2	64.4	8.2	16.0
17.0					8.6	8.2	32.6	8.2	45.9	8.2	53.6	8.2	58.9	8.2	62.7	8.2	17.0
18.0							26.9	8.2	42.7	8.2	51.2	8.2	56.9	8.2	61.0	8.0	18.0
19.0							19.6	8.2	39.2	8.2	48.7	8.2	54.9	8.2	59.3	7.5	19.0
20.0							4.7	7.8	35.4	8.2	46.0	8.2	52.8	8.0	57.6	7.1	20.0
21.0									31.2	7.6	43.3	8.0	50.6	7.5	55.8	6.6	21.0
22.0									26.4	6.9	40.4	7.3	48.4	7.1	54.0	6.2	22.0
23.0									20.4	6.2	37.3	6.6	46.1	6.8	52.1	5.9	23.0
24.0									11.6	5.5	33.9	5.9	43.7	6.1	50.2	5.6	24.0
25.0											30.2	5.4	41.2	5.6	48.2	5.3	25.0
26.0											26.0	4.8	38.6	5.0	46.2	5.0	26.0
27.0											21.0	4.4	35.8	4.6	44.1	4.7	27.0
28.0											14.2	3.9	32.8	4.1	41.9	4.2	28.0
29.0												29.4	3.7	39.6	3.8	29.0	
30.0												25.7	3.4	37.2	3.5	30.0	
31.0												21.4	3.0	34.6	3.1	31.0	
32.0												15.8	2.7	31.8	2.8	32.0	
33.0												6.2	2.4	28.8	2.5	33.0	
34.0														25.5	2.2	34.0	
35.0														21.7	1.9	35.0	
36.0														17.0	1.7	36.0	
37.0														10.2	1.5	37.0	
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #16
NO TRAVEL- LEVEL 2° TO 4°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.0	66.0	7.7	15.0
16.0					22.1	8.2	37.5	8.2	49.0	8.2	56.0	8.2	60.8	7.5	64.4	7.2	16.0
17.0					8.6	8.2	32.6	8.2	45.9	8.2	53.6	7.8	58.9	7.1	62.7	6.7	17.0
18.0							26.9	7.8	42.7	7.5	51.2	7.4	56.9	6.7	61.0	6.2	18.0
19.0							19.6	7.3	39.2	7.1	48.7	6.9	54.9	6.3	59.3	5.8	19.0
20.0							4.7	6.9	35.4	6.9	46.0	6.5	52.8	5.9	57.6	5.5	20.0
21.0									31.2	6.8	43.3	6.1	50.6	5.5	55.8	5.1	21.0
22.0									26.4	6.3	40.4	5.8	48.4	5.2	54.0	4.8	22.0
23.0									20.4	5.7	37.3	5.5	46.1	5.0	52.1	4.6	23.0
24.0									11.6	5.0	33.9	5.2	43.7	4.8	50.2	4.4	24.0
25.0											30.2	4.9	41.2	4.5	48.2	4.1	25.0
26.0											26.0	4.5	38.6	4.3	46.2	3.9	26.0
27.0											21.0	4.0	35.8	4.0	44.1	3.7	27.0
28.0											14.2	3.6	32.8	3.8	41.9	3.5	28.0
29.0													29.4	3.5	39.6	3.3	29.0
30.0													25.7	3.2	37.2	3.1	30.0
31.0													21.4	2.8	34.6	2.9	31.0
32.0													15.8	2.5	31.8	2.6	32.0
33.0													6.2	2.2	28.8	2.3	33.0
34.0															25.5	2.0	34.0
35.0															21.7	1.8	35.0
36.0															17.0	1.5	36.0
37.0															10.2	1.3	37.0
Parts of Line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	II
III	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #17

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.2	66.0	8.2	15.0
16.0					22.1	8.2	37.5	8.2	49.0	8.2	56.0	8.2	60.8	8.2	64.4	8.2	16.0
17.0					8.6	8.2	32.6	8.2	45.9	8.2	53.6	8.2	58.9	8.2	62.7	8.2	17.0
18.0							26.9	8.2	42.7	8.2	51.2	8.2	56.9	8.2	61.0	8.0	18.0
19.0							19.6	7.8	39.2	8.2	48.7	8.2	54.9	8.2	59.3	7.5	19.0
20.0							4.7	7.0	35.4	7.5	46.0	7.8	52.8	8.0	57.6	7.1	20.0
21.0									31.2	6.8	43.3	7.1	50.6	7.2	55.8	6.6	21.0
22.0									26.4	6.1	40.4	6.4	48.4	6.6	54.0	6.2	22.0
23.0									20.4	5.6	37.3	5.9	46.1	6.0	52.1	5.9	23.0
24.0									11.6	5.0	33.9	5.3	43.7	5.5	50.2	5.6	24.0
25.0											30.2	4.9	41.2	5.0	48.2	5.1	25.0
26.0											26.0	4.4	38.6	4.6	46.2	4.7	26.0
27.0											21.0	4.1	35.8	4.2	44.1	4.3	27.0
28.0											14.2	3.7	32.8	3.8	41.9	3.9	28.0
29.0												29.4	3.5	39.6	3.6	29.0	
30.0												25.7	3.1	37.2	3.3	30.0	
31.0												21.4	2.8	34.6	2.9	31.0	
32.0												15.8	2.5	31.8	2.6	32.0	
33.0												6.2	2.2	28.8	2.3	33.0	
34.0														25.5	2.1	34.0	
35.0														21.7	1.8	35.0	
36.0														17.0	1.6	36.0	
37.0														10.2	1.4	37.0	
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #18

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 2° TO 4°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.0	66.0	7.7	15.0
16.0					22.1	8.2	37.5	8.2	49.0	8.2	56.0	8.2	60.8	7.5	64.4	7.2	16.0
17.0					8.6	8.2	32.6	8.2	45.9	8.2	53.6	7.8	58.9	7.1	62.7	6.7	17.0
18.0							26.9	7.8	42.7	7.5	51.2	7.4	56.9	6.7	61.0	6.2	18.0
19.0							19.6	7.3	39.2	7.1	48.7	6.9	54.9	6.3	59.3	5.8	19.0
20.0							4.7	6.8	35.4	6.9	46.0	6.5	52.8	5.9	57.6	5.5	20.0
21.0									31.2	6.4	43.3	6.1	50.6	5.5	55.8	5.1	21.0
22.0									26.4	5.7	40.4	5.8	48.4	5.2	54.0	4.8	22.0
23.0									20.4	5.2	37.3	5.5	46.1	5.0	52.1	4.6	23.0
24.0									11.6	4.6	33.9	5.1	43.7	4.8	50.2	4.4	24.0
25.0											30.2	4.6	41.2	4.5	48.2	4.1	25.0
26.0											26.0	4.2	38.6	4.3	46.2	3.9	26.0
27.0											21.0	3.8	35.8	4.0	44.1	3.7	27.0
28.0											14.2	3.4	32.8	3.7	41.9	3.5	28.0
29.0													29.4	3.3	39.6	3.3	29.0
30.0													25.7	3.0	37.2	3.1	30.0
31.0													21.4	2.6	34.6	2.8	31.0
32.0													15.8	2.3	31.8	2.5	32.0
33.0													6.2	2.1	28.8	2.2	33.0
34.0															25.5	1.9	34.0
35.0															21.7	1.7	35.0
36.0															17.0	1.4	36.0
37.0															10.2	1.2	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #19
NO TRAVEL – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.2	66.0	8.2	15.0
16.0					22.1	8.2	37.5	8.2	49.0	8.2	56.0	8.2	60.8	8.2	64.4	8.2	16.0
17.0					8.6	7.9	32.6	8.1	45.9	8.2	53.6	8.2	58.9	8.2	62.7	8.2	17.0
18.0							26.9	7.0	42.7	7.9	51.2	8.2	56.9	8.2	61.0	8.0	18.0
19.0							19.6	6.1	39.2	6.9	48.7	7.5	54.9	7.7	59.3	7.5	19.0
20.0							4.7	5.2	35.4	6.1	46.0	6.7	52.8	7.0	57.6	7.0	20.0
21.0									31.2	5.4	43.3	5.9	50.6	6.4	55.8	6.4	21.0
22.0									26.4	4.7	40.4	5.3	48.4	5.7	54.0	5.8	22.0
23.0									20.4	4.1	37.3	4.7	46.1	5.1	52.1	5.3	23.0
24.0									11.6	3.6	33.9	4.1	43.7	4.6	50.2	4.8	24.0
25.0											30.2	3.7	41.2	4.1	48.2	4.3	25.0
26.0											26.0	3.2	38.6	3.6	46.2	3.9	26.0
27.0											21.0	2.8	35.8	3.2	44.1	3.5	27.0
28.0											14.2	2.4	32.8	2.8	41.9	3.1	28.0
29.0												29.4	2.5	39.6	2.8	29.0	
30.0												25.7	2.2	37.2	2.4	30.0	
31.0												21.4	1.9	34.6	2.1	31.0	
32.0												15.8	1.6	31.8	1.9	32.0	
33.0												6.2	1.3	28.8	1.6	33.0	
34.0														25.5	1.4	34.0	
35.0														21.7	1.1	35.0	
36.0														17.0	0.9	36.0	
37.0														10.2	0.7	37.0	
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #20
NO TRAVEL – LEVEL 2° TO 4°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.0	66.0	7.7	15.0
16.0					22.1	8.2	37.5	8.2	49.0	8.2	56.0	8.2	60.8	7.5	64.4	7.2	16.0
17.0					8.6	7.8	32.6	7.7	45.9	7.9	53.6	7.8	58.9	7.1	62.7	6.7	17.0
18.0							26.9	6.6	42.7	7.1	51.2	7.2	56.9	6.7	61.0	6.2	18.0
19.0							19.6	5.7	39.2	6.3	48.7	6.5	54.9	6.3	59.3	5.8	19.0
20.0							4.7	4.8	35.4	5.7	46.0	5.9	52.8	5.9	57.6	5.5	20.0
21.0									31.2	5.1	43.3	5.3	50.6	5.4	55.8	5.1	21.0
22.0									26.4	4.4	40.4	4.7	48.4	4.9	54.0	4.8	22.0
23.0									20.4	3.8	37.3	4.3	46.1	4.4	52.1	4.5	23.0
24.0									11.6	3.3	33.9	3.8	43.7	4.0	50.2	4.0	24.0
25.0											30.2	3.4	41.2	3.6	48.2	3.7	25.0
26.0											26.0	3.0	38.6	3.2	46.2	3.3	26.0
27.0											21.0	2.6	35.8	2.9	44.1	3.0	27.0
28.0											14.2	2.2	32.8	2.5	41.9	2.7	28.0
29.0													29.4	2.3	39.6	2.4	29.0
30.0													25.7	2.0	37.2	2.1	30.0
31.0													21.4	1.7	34.6	1.8	31.0
32.0													15.8	1.4	31.8	1.6	32.0
33.0													6.2	1.1	28.8	1.4	33.0
34.0															25.5	1.2	34.0
35.0															21.7	1.0	35.0
36.0															17.0	0.8	36.0
37.0															10.2	0.6	37.0
Parts of Line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	II
III	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #21

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.2	66.0	8.2	15.0
16.0					22.1	8.1	37.5	8.2	49.0	8.2	56.0	8.2	60.8	8.2	64.4	8.2	16.0
17.0					8.6	7.1	32.6	7.2	45.9	7.9	53.6	8.2	58.9	8.2	62.7	8.2	17.0
18.0							26.9	6.3	42.7	7.0	51.2	7.4	56.9	7.8	61.0	8.0	18.0
19.0							19.6	5.5	39.2	6.2	48.7	6.6	54.9	7.0	59.3	7.2	19.0
20.0							4.7	4.8	35.4	5.5	46.0	5.9	52.8	6.3	57.6	6.5	20.0
21.0									31.2	4.9	43.3	5.3	50.6	5.7	55.8	5.9	21.0
22.0									26.4	4.4	40.4	4.8	48.4	5.1	54.0	5.3	22.0
23.0									20.4	3.9	37.3	4.3	46.1	4.6	52.1	4.8	23.0
24.0									11.6	3.4	33.9	3.9	43.7	4.2	50.2	4.4	24.0
25.0											30.2	3.4	41.2	3.8	48.2	4.0	25.0
26.0											26.0	3.0	38.6	3.4	46.2	3.6	26.0
27.0											21.0	2.6	35.8	3.0	44.1	3.3	27.0
28.0											14.2	2.3	32.8	2.7	41.9	2.9	28.0
29.0													29.4	2.3	39.6	2.6	29.0
30.0													25.7	2.0	37.2	2.3	30.0
31.0													21.4	1.8	34.6	2.0	31.0
32.0													15.8	1.5	31.8	1.7	32.0
33.0													6.2	1.3	28.8	1.5	33.0
34.0															25.5	1.3	34.0
35.0															21.7	1.1	35.0
36.0															17.0	0.9	36.0
37.0															10.2	0.7	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #22

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 2° TO 4°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
8.2t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	8.2	35.8	8.2	45.8	8.2	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	8.2	41.8	8.2	51.9	8.2	58.3	8.2	62.7	8.0	66.0	7.7	15.0
16.0					22.1	8.0	37.5	7.9	49.0	8.2	56.0	8.2	60.8	7.5	64.4	7.2	16.0
17.0					8.6	6.9	32.6	6.9	45.9	7.6	53.6	7.8	58.9	7.1	62.7	6.7	17.0
18.0							26.9	6.0	42.7	6.7	51.2	7.0	56.9	6.7	61.0	6.2	18.0
19.0							19.6	5.2	39.2	6.0	48.7	6.3	54.9	6.3	59.3	5.8	19.0
20.0							4.7	4.5	35.4	5.3	46.0	5.7	52.8	5.8	57.6	5.5	20.0
21.0									31.2	4.7	43.3	5.1	50.6	5.2	55.8	5.1	21.0
22.0									26.4	4.1	40.4	4.6	48.4	4.7	54.0	4.8	22.0
23.0									20.4	3.6	37.3	4.1	46.1	4.2	52.1	4.3	23.0
24.0									11.6	3.1	33.9	3.7	43.7	3.8	50.2	3.9	24.0
25.0											30.2	3.2	41.2	3.4	48.2	3.5	25.0
26.0											26.0	2.8	38.6	3.1	46.2	3.2	26.0
27.0											21.0	2.4	35.8	2.8	44.1	2.8	27.0
28.0											14.2	2.0	32.8	2.5	41.9	2.5	28.0
29.0													29.4	2.1	39.6	2.3	29.0
30.0													25.7	1.8	37.2	2.0	30.0
31.0													21.4	1.6	34.6	1.8	31.0
32.0													15.8	1.3	31.8	1.5	32.0
33.0													6.2	1.0	28.8	1.3	33.0
34.0															25.5	1.1	34.0
35.0															21.7	0.9	35.0
36.0															17.0	0.7	36.0
37.0															10.2	0.5	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #23
NO TRAVEL – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	7.8	35.8	8.1	45.8	8.0	54.8	8.2	60.5	8.2	64.6	8.2	67.6	8.2	14.0
15.0					29.7	6.8	41.8	6.8	51.9	7.2	58.3	7.3	62.7	7.5	66.0	7.5	15.0
16.0					22.1	5.6	37.5	5.7	49.0	6.2	56.0	6.4	60.8	6.6	64.4	6.6	16.0
17.0					8.6	4.7	32.6	4.7	45.9	5.4	53.6	5.6	58.9	5.8	62.7	5.8	17.0
18.0							26.9	3.9	42.7	4.6	51.2	4.9	56.9	5.1	61.0	5.2	18.0
19.0							19.6	3.2	39.2	3.9	48.7	4.2	54.9	4.5	59.3	4.6	19.0
20.0							4.7	2.5	35.4	3.3	46.0	3.7	52.8	3.9	57.6	4.0	20.0
21.0									31.2	2.7	43.3	3.1	50.6	3.4	55.8	3.5	21.0
22.0									26.4	2.2	40.4	2.6	48.4	2.9	54.0	3.1	22.0
23.0									20.4	1.7	37.3	2.2	46.1	2.5	52.1	2.7	23.0
24.0									11.6	1.3	33.9	1.8	43.7	2.1	50.2	2.3	24.0
25.0											30.2	1.4	41.2	1.8	48.2	1.9	25.0
26.0											26.0	1.0	38.6	1.5	46.2	1.6	26.0
27.0											21.0	0.7	35.8	1.1	44.1	1.3	27.0
28.0											14.2	0.4	32.8	0.8	41.9	1.0	28.0
29.0													29.4	0.6	39.6	0.8	29.0
30.0													25.7	0.3	37.2	0.5	30.0
31.0													21.4	*	34.6	0.3	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #24
NO TRAVEL – LEVEL 2° TO 4°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	7.9	57.5	8.1	62.7	8.1	66.4	8.0	69.2	7.8	13.0
14.0			11.9	7.3	35.8	7.4	45.8	6.8	54.8	7.0	60.5	7.0	64.6	7.0	67.6	6.9	14.0
15.0					29.7	6.4	41.8	5.8	51.9	6.0	58.3	6.1	62.7	6.1	66.0	6.1	15.0
16.0					22.1	5.4	37.5	4.9	49.0	5.2	56.0	5.3	60.8	5.4	64.4	5.3	16.0
17.0					8.6	4.4	32.6	4.1	45.9	4.5	53.6	4.6	58.9	4.7	62.7	4.7	17.0
18.0							26.9	3.5	42.7	3.8	51.2	4.0	56.9	4.1	61.0	4.1	18.0
19.0							19.6	2.9	39.2	3.2	48.7	3.4	54.9	3.5	59.3	3.6	19.0
20.0							4.7	2.2	35.4	2.7	46.0	2.9	52.8	3.0	57.6	3.1	20.0
21.0									31.2	2.2	43.3	2.4	50.6	2.6	55.8	2.7	21.0
22.0									26.4	1.8	40.4	2.0	48.4	2.2	54.0	2.3	22.0
23.0									20.4	1.5	37.3	1.6	46.1	1.8	52.1	1.9	23.0
24.0									11.6	1.1	33.9	1.3	43.7	1.5	50.2	1.6	24.0
25.0											30.2	1.0	41.2	1.2	48.2	1.3	25.0
26.0											26.0	0.7	38.6	0.9	46.2	1.0	26.0
27.0											21.0	0.4	35.8	0.6	44.1	0.7	27.0
28.0											14.2	*	32.8	0.4	41.9	0.5	28.0
29.0													29.4	*	39.6	*	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #25

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED

0t COUNTERWEIGHT

MAIN BOOM LENGTH (m)

RADIUS (m)	MAIN BOOM LENGTH (m)																RADIUS (m)
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2													2.5
3.0	72.5	8.2	75.9	8.2	78.1	8.2											3.0
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2									3.5
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2							4.0
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2							4.5
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2					5.0
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2			6.0
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	8.2	49.5	8.2	57.5	8.2	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	6.9	35.8	7.2	45.8	7.2	54.8	7.8	60.5	8.1	64.6	8.2	67.6	8.1	14.0
15.0					29.7	6.1	41.8	6.1	51.9	6.7	58.3	7.1	62.7	7.2	66.0	7.1	15.0
16.0					22.1	5.1	37.5	5.2	49.0	5.8	56.0	6.2	60.8	6.3	64.4	6.3	16.0
17.0					8.6	4.3	32.6	4.4	45.9	5.0	53.6	5.4	58.9	5.6	62.7	5.6	17.0
18.0							26.9	3.7	42.7	4.3	51.2	4.7	56.9	4.9	61.0	4.9	18.0
19.0							19.6	3.0	39.2	3.7	48.7	4.0	54.9	4.3	59.3	4.4	19.0
20.0							4.7	2.3	35.4	3.1	46.0	3.5	52.8	3.7	57.6	3.8	20.0
21.0									31.2	2.5	43.3	3.0	50.6	3.2	55.8	3.3	21.0
22.0									26.4	2.0	40.4	2.5	48.4	2.8	54.0	2.9	22.0
23.0									20.4	1.6	37.3	2.0	46.1	2.4	52.1	2.5	23.0
24.0									11.6	1.2	33.9	1.6	43.7	2.0	50.2	2.1	24.0
25.0											30.2	1.3	41.2	1.7	48.2	1.8	25.0
26.0											26.0	1.0	38.6	1.4	46.2	1.5	26.0
27.0											21.0	0.7	35.8	1.1	44.1	1.2	27.0
28.0											14.2	0.4	32.8	0.8	41.9	1.0	28.0
29.0													29.4	0.5	39.6	0.7	29.0
30.0													25.7	0.3	37.2	0.5	30.0
31.0													21.4	*	34.6	0.3	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

- Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
- During operation the wind speed must not exceed 36 km/hr.
- An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #26

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 2° TO 4°

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	8.2	77.7	8.2												2.5	
3.0	72.5	8.2	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	7.9	41.0	8.2	49.5	7.7	57.5	7.8	62.7	7.8	66.4	7.6	69.2	7.5	13.0
14.0			11.9	6.6	35.8	7.0	45.8	6.5	54.8	6.7	60.5	6.8	64.6	6.7	67.6	6.6	14.0
15.0					29.7	5.9	41.8	5.6	51.9	5.8	58.3	5.9	62.7	5.9	66.0	5.8	15.0
16.0					22.1	5.0	37.5	4.7	49.0	5.0	56.0	5.1	60.8	5.1	64.4	5.1	16.0
17.0					8.6	4.1	32.6	4.0	45.9	4.3	53.6	4.4	58.9	4.5	62.7	4.5	17.0
18.0							26.9	3.4	42.7	3.6	51.2	3.8	56.9	3.9	61.0	3.9	18.0
19.0							19.6	2.7	39.2	3.1	48.7	3.3	54.9	3.4	59.3	3.4	19.0
20.0							4.7	2.1	35.4	2.6	46.0	2.8	52.8	2.9	57.6	2.9	20.0
21.0									31.2	2.1	43.3	2.3	50.6	2.5	55.8	2.5	21.0
22.0									26.4	1.7	40.4	1.9	48.4	2.1	54.0	2.1	22.0
23.0									20.4	1.4	37.3	1.5	46.1	1.7	52.1	1.8	23.0
24.0									11.6	1.0	33.9	1.2	43.7	1.4	50.2	1.5	24.0
25.0											30.2	0.9	41.2	1.1	48.2	1.2	25.0
26.0											26.0	0.6	38.6	0.8	46.2	0.9	26.0
27.0											21.0	0.4	35.8	0.5	44.1	0.6	27.0
28.0											14.2	*	32.8	0.3	41.9	0.4	28.0
29.0													29.4	*	39.6	*	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Parts of Line
Telescoping Sequence (%)																	
I	0%	33%	67%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	I
II	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	100%	II
III	0%	0%	0%	0%	0%	25%	50%	75%	100%	100%	100%	100%	100%	100%	100%	100%	III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #27
NO TRAVEL – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS RETRACTED																	
16.1t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	*	77.7	*												2.5	
3.0	72.5	*	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	8.2	41.0	7.9	49.5	7.5	57.5	8.0	62.7	8.2	66.4	8.2	69.2	8.2	13.0
14.0			11.9	6.9	35.8	6.6	45.8	6.3	54.8	6.9	60.5	7.2	64.6	7.4	67.6	7.4	14.0
15.0					29.7	5.5	41.8	5.3	51.9	6.0	58.3	6.3	62.7	6.5	66.0	6.6	15.0
16.0					22.1	4.5	37.5	4.3	49.0	5.1	56.0	5.5	60.8	5.7	64.4	5.8	16.0
17.0					8.6	3.7	32.6	3.5	45.9	4.4	53.6	4.7	58.9	5.0	62.7	5.1	17.0
18.0							26.9	2.8	42.7	3.7	51.2	4.1	56.9	4.3	61.0	4.5	18.0
19.0							19.6	2.1	39.2	3.1	48.7	3.5	54.9	3.8	59.3	3.9	19.0
20.0							4.7	1.5	35.4	2.5	46.0	3.0	52.8	3.3	57.6	3.4	20.0
21.0									31.2	2.0	43.3	2.5	50.6	2.8	55.8	3.0	21.0
22.0									26.4	1.5	40.4	2.1	48.4	2.4	54.0	2.6	22.0
23.0									20.4	1.1	37.3	1.7	46.1	2.0	52.1	2.2	23.0
24.0									11.6	0.7	33.9	1.3	43.7	1.6	50.2	1.8	24.0
25.0											30.2	0.9	41.2	1.3	48.2	1.5	25.0
26.0											26.0	0.6	38.6	1.0	46.2	1.2	26.0
27.0											21.0	0.3	35.8	0.7	44.1	0.9	27.0
28.0											14.2	*	32.8	0.4	41.9	0.7	28.0
29.0													29.4	*	39.6	0.4	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #28

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

AUXILIARY NOSE SHEAVE with TRACKS RETRACTED																	
0t COUNTERWEIGHT																	
RADIUS (m)	MAIN BOOM LENGTH (m)															RADIUS (m)	
	12.8		15.7		18.6		21.5		25.9		30.3		34.7		39.0		
	∠°		∠°		∠°		∠°		∠°		∠°		∠°		∠°		
2.5	74.9	*	77.7	*												2.5	
3.0	72.5	*	75.9	8.2	78.1	8.2										3.0	
3.5	70.1	8.2	73.9	8.2	76.5	8.2	78.4	8.2								3.5	
4.0	67.6	8.2	72.0	8.2	74.9	8.2	77.0	8.2	79.3	8.2						4.0	
4.5	65.1	8.2	70.1	8.2	73.3	8.2	75.6	8.2	78.1	8.2						4.5	
5.0	62.6	8.2	68.1	8.2	71.7	8.2	74.3	8.2	77.0	8.2	78.9	8.2				5.0	
6.0	57.2	8.2	64.0	8.2	68.4	8.2	71.4	8.2	74.7	8.2	76.9	8.2	78.6	8.2		6.0	
7.0	51.5	8.2	59.8	8.2	65.0	8.2	68.6	8.2	72.4	8.2	75.0	8.2	76.9	8.2	78.4	8.2	7.0
8.0	45.2	8.2	55.3	8.2	61.4	8.2	65.6	8.2	70.0	8.2	73.0	8.2	75.2	8.2	76.9	8.2	8.0
9.0	38.0	8.2	50.6	8.2	57.8	8.2	62.6	8.2	67.6	8.2	71.0	8.2	73.5	8.2	75.4	8.2	9.0
10.0	29.1	8.2	45.5	8.2	54.0	8.2	59.5	8.2	65.2	8.2	69.0	8.2	71.7	8.2	73.9	8.2	10.0
11.0	15.5	8.2	39.8	8.2	50.0	8.2	56.3	8.2	62.7	8.2	66.9	8.2	70.0	8.2	72.3	8.2	11.0
12.0			33.3	8.2	45.7	8.2	53.0	8.2	60.1	8.2	64.8	8.2	68.2	8.2	70.8	8.2	12.0
13.0			25.1	7.3	41.0	7.1	49.5	6.9	57.5	7.6	62.7	8.0	66.4	8.0	69.2	8.0	13.0
14.0			11.9	6.2	35.8	6.0	45.8	5.8	54.8	6.6	60.5	6.9	64.6	7.1	67.6	7.1	14.0
15.0					29.7	5.1	41.8	4.9	51.9	5.6	58.3	6.0	62.7	6.2	66.0	6.3	15.0
16.0					22.1	4.3	37.5	4.1	49.0	4.8	56.0	5.3	60.8	5.4	64.4	5.5	16.0
17.0					8.6	3.5	32.6	3.3	45.9	4.2	53.6	4.5	58.9	4.8	62.7	4.9	17.0
18.0							26.9	2.6	42.7	3.5	51.2	3.9	56.9	4.1	61.0	4.3	18.0
19.0							19.6	2.0	39.2	2.9	48.7	3.3	54.9	3.6	59.3	3.7	19.0
20.0							4.7	1.4	35.4	2.3	46.0	2.8	52.8	3.1	57.6	3.3	20.0
21.0									31.2	1.8	43.3	2.4	50.6	2.6	55.8	2.8	21.0
22.0									26.4	1.4	40.4	1.9	48.4	2.2	54.0	2.4	22.0
23.0									20.4	1.0	37.3	1.6	46.1	1.8	52.1	2.0	23.0
24.0									11.6	0.6	33.9	1.2	43.7	1.5	50.2	1.7	24.0
25.0											30.2	0.9	41.2	1.2	48.2	1.4	25.0
26.0											26.0	0.6	38.6	0.9	46.2	1.1	26.0
27.0											21.0	0.3	35.8	0.6	44.1	0.8	27.0
28.0											14.2	*	32.8	0.3	41.9	0.6	28.0
29.0													29.4	*	39.6	0.3	29.0
30.0													25.7	*	37.2	*	30.0
31.0													21.4	*	34.6	*	31.0
32.0													15.8	*	31.8	*	32.0
33.0													6.2	*	28.8	*	33.0
34.0															25.5	*	34.0
35.0															21.7	*	35.0
36.0															17.0	*	36.0
37.0															10.2	*	37.0
Parts of Line	1		1		1		1		1		1		1		1		Parts of Line
Telescoping Sequence (%)																	
I	0%		33%		67%		100%		100%		100%		100%		100%		I
II	0%		0%		0%		0%		25%		50%		75%		100%		II
III	0%		0%		0%		0%		25%		50%		75%		100%		III

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHARTS #29 & 30

NO TRAVEL – LEVEL 0° TO 2°

10.7m EXTENSION & 7.6m JIB with TRACKS FULLY EXTENDED						
16.1t COUNTERWEIGHT						
10.7m EXTENSION			7.6m JIB			
Boom Angle	Total Boom Length		Jib Offset Angles			Boom Angle
	23.5m to 45.7m	> 45.7m	0°	15°	30°	
80°	11.3†	11.3†	5.4	3.3	1.8	80°
78°	8.6†	8.6†	5.3	3.1	1.7	78°
75°	7.3	7.3	4.6	2.9	1.6	75°
72°	6.4	6.4	4.2	2.6	1.6	72°
70°	5.6	5.6	3.8	2.5	1.5	70°
68°	5.0	5.0	3.4	2.3	1.5	68°
65°	4.5	4.5	3.2	2.1	1.4	65°
62°	4.2	4.2	2.9	2.0	1.4	62°
60°	3.9	3.9	2.6	1.6	1.1	60°
58°	3.7	3.7	2.1	1.1	0.8	58°
55°	3.4	3.4	1.6	0.5	0.3	55°
52°	3.2	3.2	1.1	*	*	52°
50°	3.1	3.1	0.9	*	*	50°
48°	2.9	2.8	X			48°
45°	2.7	2.3	X			45°

Notes:

1. Capacities followed by † require 2 part reeving.
2. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
3. During operation the wind speed must not exceed 36 km/hr.
4. Never use jib or extension with counterweights installed.
5. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHARTS #31 & 32

TRAVEL SPEEDS UP TO 1.0 km/h – LEVEL 0° TO 2°

10.7m EXTENSION & 7.6m JIB with TRACKS FULLY EXTENDED						
16.1t COUNTERWEIGHT						
10.7m EXTENSION			7.6m JIB			
Boom Angle	Total Boom Length		Jib Offset Angles			Boom Angle
	23.5m to 45.7m	> 45.7m	0°	15°	30°	
80°	11.3†	11.3†	5.4	3.3	1.8	80°
78°	8.6†	8.6†	5.3	3.1	1.7	78°
75°	7.3	7.3	4.6	2.9	1.6	75°
72°	6.4	6.4	4.2	2.6	1.6	72°
70°	5.6	5.6	3.8	2.5	1.5	70°
68°	5.0	5.0	3.4	2.3	1.5	68°
65°	4.5	4.5	3.2	2.1	1.4	65°
62°	4.2	4.2	2.9	2.0	1.4	62°
60°	3.9	3.9	2.6	1.6	1.1	60°
58°	3.7	3.7	2.1	1.1	0.8	58°
55°	3.4	3.4	1.6	0.5	0.3	55°
52°	3.2	3.1	1.1	*	*	52°
50°	3.1	2.8	0.9	*	*	50°
48°	2.9	2.5				48°
45°	2.7	2.0				45°

Notes:

1. Capacities followed by † require 2 part reeving.
2. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 66.6% of tipping.
3. During operation the wind speed must not exceed 36 km/hr.
4. Never use jib or extension with counterweights installed.
5. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**

CHART #33

360 DEGREE RATING - LEVEL 0° TO 1°

ONLY FOR INSTALLATION AND REMOVAL OF TRACK FRAMES

MAIN BOOM on CARBODY JACKS	
0t COUNTERWEIGHT	
RADIUS (m)	MAIN BOOM LENGTH 12.8m
2.5	15.9
3.0	15.9
3.5	15.9
4.0	14.6
4.5	12.8
5.0	10.9
5.5	9.3
6.0	7.8
6.5	6.4
7.0	5.3
7.5	4.3
8.0	3.4
8.5	2.6
9.0	2.2
9.5	*
10.0	*
Parts of Line	4
% Boom extension	
I	0%
II	0%
III	0%

Notes:

1. Capacities appearing above the bold line are based on structural strength. Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.
2. During operation the wind speed must not exceed 36 km/hr.
3. An * on the chart indicates positions without rated loads. These areas are susceptible to instability either in the forward direction or the backwards direction. Even without a load, the boom should not be positioned in these specific configurations of the load chart to avoid tipping. **Warning: All stowed load handling devices are considered loads. See deduction chart for values.**
4. **USE OF CARBODY JACKS IS ONLY INTENDED FOR INSTALLATION AND REMOVAL OF TRACK FRAMES. CARBODY JACKS SHOULD ALWAYS BE FULLY RETRACTED AND STOWED FOR ALL NORMAL LIFTS.**

RANGE CHART
MANTIS Model GTC-1000EX
as originally manufactured and equipped by Tadano Mantis Corporation.

