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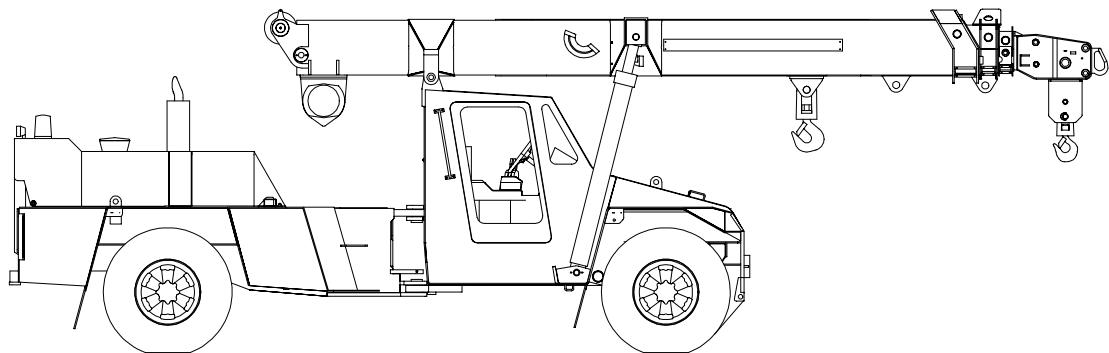
CRANE RATING MANUAL

MODEL AT-20

BOOK PART NUMBER 16C1320-

HYDRAULIC ALL TERRAIN PICK & CARRY CRANE

20 TONNE MAXIMUM CAPACITY



**Do not operate this
crane unless you have
read and understood
the information in this
book.**

**16C1320-
RATING CHART BOOK
AT-20**

ALL PAGES LISTED MUST BE INCLUDED IN THIS BOOK.

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SECTION 4 – CRANE DATA

MACHINE DIMENSIONS
HYDRAULIC DATA

SECTION 1

WARNINGS

CAUTION NOTE

DEFINITIONS

WARNINGS

! CAUTION !

**IMPROPER CRANE USE, CARE OR OPERATION CAN
CAUSE INJURY, DEATH OR PROPERTY DAMAGE.**

**DO NOT OPERATE THIS MACHINE UNLESS YOU
HAVE READ AND UNDERSTAND THE OPERATOR'S
MANUAL, SAFE OPERATING PRACTICES BOOKLET
AND CRANE RATING MANUAL.**

**COPIES OF OPERATOR'S MANUALS, SAFE OPERATING PRACTICES BOOKLET
AND CRANE RATING MANUAL MAY BE OBTAINED FROM:**



**TEREX LIFTING
AUSTRALIA PTY LTD**

DEFINITIONS

Articulation – The crane pivots in the middle to allow steering and slewing the load. Working areas for the purpose of load rating are less than 10° articulation either way and greater than 10° (up to 40° articulation is possible either way). see *working area diagram*

Freely Suspended Load – Load hanging free with no direct external force applied except by the hoist line.

Load Radius – Horizontal distance from the centre of the front wheels forwards to the centre of the hoist line or tackle with load applied.

Loaded Boom Angle – This is given to assist in setting up the crane only. It gives only an approximation of the radius for a specified boom length. No allowance is made for boom or tyre deflection. The ratings are for the boom length and Load Radius shown.

Rated Lifting Capacity – The total suspended load, including the weight of material and load handling equipment, that the machine can safely lift under ideal conditions at a given boom length and load radius.

Side Load – Any external force applied either to the boom or load in a horizontal direction.

Work Areas – Area measured in an arc about the centre pivot as shown on the working area diagram. Lamps on the dash indicate which zone the crane is in.

! WARNING !

SPECIAL PRECAUTIONS FOR ARTICULATED CRANES

THERE IS A POTENTIAL FOR CRUSHING BETWEEN FRONT AND REAR CHASSIS WHEN THE MACHINE ARTICULATES. NEVER STAND IN THE PIVOT AREA WHEN THE ENGINE IS RUNNING OR EMERGENCY STEERING PUMP IS OPERATING. ALWAYS REMOVE THE KEY FROM THE IGNITION BEFORE WORKING IN THE PIVOT AREA.
DO NOT LEAVE IGNITION KEY SWITCHED ON WITH ENGINE STOPPED AND PARK BRAKE OFF, AS EMERGENCY HYDRAULIC STEERING PUMP WILL ACTIVATE.

GENERAL

1. This machine has been designed to meet the requirements of AS1418.1 & 1418.5 and has been tested in accordance with these standards for pick and carry operation on tyres.
2. Rated lifting capacities shown are for this machine as originally manufactured by Terex Lifting Australia Pty Ltd. The lifting capacities only apply when all the instructions in this book are rigidly followed. Modifications to this machine or use of equipment other than that specified can result in a reduction of capacity.
3. If improperly operated or maintained, this machine can be hazardous. Operation and maintenance of this machine must be in compliance with the information in the operators, service, parts and safety manuals furnished. If these manuals are missing, obtain replacements through Terex Lifting Australia Pty Ltd or their agents.

SET-UP

4. Reduced crane lifting capacities for the particular job shall be established by the user with due allowance for adverse operating conditions. These conditions include the supporting surface, pendulum action of the load, jerking or sudden stops of the load and other factors affecting stability, two machine lifts, electrical wires, adverse weather, wind, hazardous surroundings, experience of personnel, etc.
5. Rated lifting capacities are based on freely suspended loads with the machine on a firm, level (max. 1% slope / 0.6°) and uniform surface. Lifting or travelling with a load on soft or uneven ground can be hazardous and will reduce the capacity of the crane. No attempt shall be made to drag the load along the ground in any direction.

! WARNING !

6. Rated lifting capacities above the red line are based on the machine's hydraulic or structural competence and not on machine stability. Rated capacities below the red line are based on machine stability.
7. The Rated lifting capacities include the weight of hooks, blocks, slings and auxiliary lifting devices. Their weight must be subtracted from the listed rating to determine the net load that can be lifted.
8. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for boom deflection increasing the radius as the load is lifted.

OPERATION

9. Side loading of the machine and load swing out may cause structural failure or machine tip-over. Side loads may be generated by: lifting when not level; sudden acceleration or deceleration in articulating with a load; dragging a load; pushing a load; wind forces on load and boom structure.
10. The capacity of the manual extension is structurally limited. The boom may be retracted and extended with the manual set, however the rating does not change from the fully extended position for the given boom angle.
11. It is safe to attempt to telescope any load within the limits of the rating chart. The maximum load that may be telescoped is limited by hydraulic pressure, boom angle and powered boom sections lubrication.
12. Do not allow the winch rope to unwind fully. Always ensure a minimum of two (2) wraps of rope remain on the winch drum. Note the areas on the range diagram where the fall block cannot reach the ground on four (4) or three (3) parts of rope.
13. Crane lifting capacities on tyres depend on tyre capacity, condition of the tyres and tyre air pressure. Tyres must be inflated to the recommended pressure before lifting.
14. Pick & carry operation is permitted through the full articulation range, however capacity is reduced above 10° articulation. Use the reduced ratings in the chart if entering this articulation range during the operation.
15. The maximum speed for pick & carry operation is 0.4m/s (1.6km/h). The transmission shall be set to low range.
16. Operation of this crane in excess of rating configuration charts and disregard of the instructions is hazardous.

SECTION 2

OPERATIONS

ATTACHMENT NOTICE

WORKING AREAS & RANGE DIAGRAM

OPERATION (ON TYRES)

WEIGHT OF HOOKS

WINCH LINE PULL

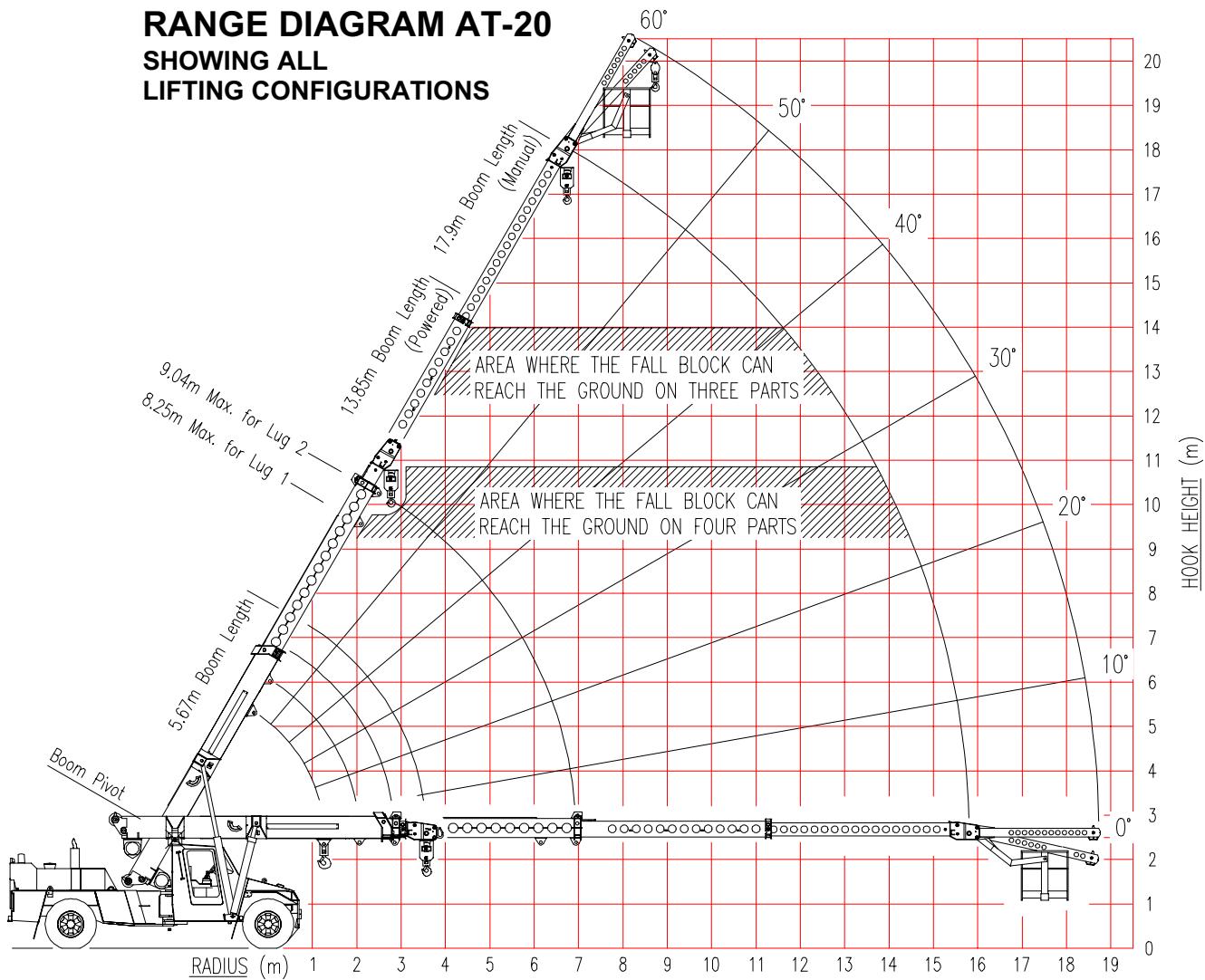
TYRE INFLATION PRESSURES

NOTICE

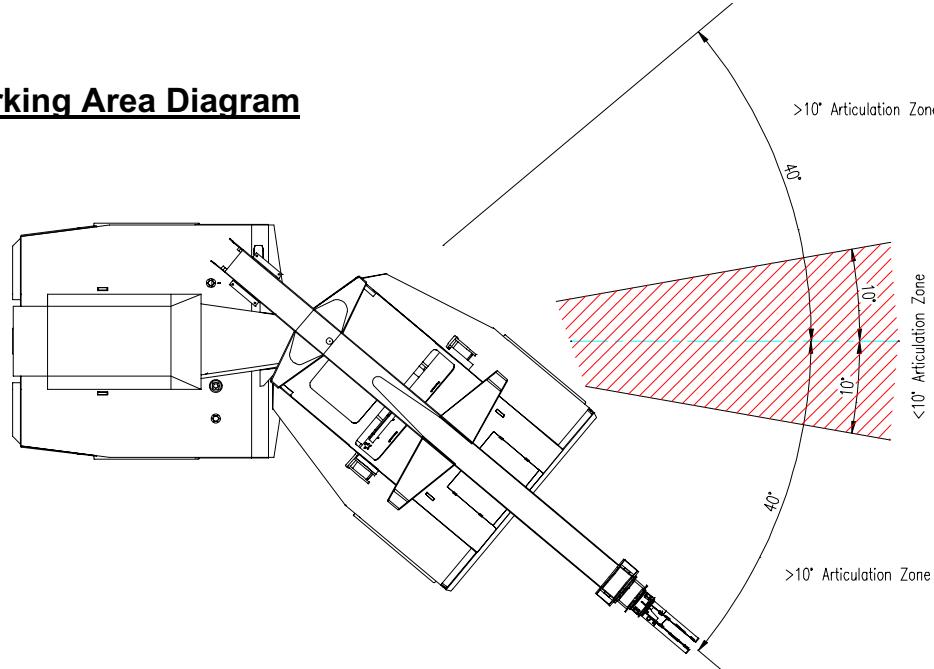
**WRITTEN AUTHORISATION IS REQUIRED
FROM TEREX LIFTING AUSTRALIA PTY LTD
PRIOR TO THE USE OF ANY ATTACHMENT
NOT SPECIFIED IN THE MANUAL.**

RANGE DIAGRAM AT-20

SHOWING ALL LIFTING CONFIGURATIONS



Working Area Diagram



OPERATION

1. Read and understand all warnings and instructional notes.
2. Rated lifting capacities above the red line are based on the machine's hydraulic or structural competence and not on machine stability. Rated capacities below the red line are based on machine stability.
3. Do not tip the machine to determine allowable lifting capacities.
4. The Rated lifting capacities include the weight of hooks, blocks, slings and auxiliary lifting devices. Their weight must be subtracted from the listed rating to determine the net load that can be lifted.
5. Crane lifting capacities on tyres depend on tyre capacity, condition of the tyres and tyre air pressure. Tyres must be inflated to the recommended pressure before lifting.
6. Pick & carry operation is permitted through the full articulation range, however capacity is reduced above 10° articulation. Use the reduced ratings in the chart if entering this articulation range during the operation.
7. Loads may be lifted from the main boom head on the winch or the rhino hook, the fixed lug, or either of the two sliding lugs on the boom. A flyjib is also available to extend the maximum boom length and a manbasket can be pinned to the head of the boom. Always use the correct rating chart for the lifting point in use and ensure the LMI is set to the correct duty.
8. Lifting from more than one lifting point simultaneously is neither intended nor approved.
9. When either the boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used, or the interpolated value shown on the LMI may be used
10. The winch rope is fully compensated for boom extension. The only exception is when the manual extension is being set. Refer to the operator's manual for the manual setting procedure. Once it is set the compensation is fully functional.
11. The maximum speed for pick & carry operation is 0.4m/s (1.6km/h). The transmission shall be set to low range.
12. Handling of personnel from the boom is neither intended nor approved, except in a Terex Lifting Australia supplied manbasket, correctly installed on the head of the boom, or other approved arrangement.

HOOK BLOCK WEIGHTS

SINGLE PART HOOK BLOCK	30 kg
TWO/THREE PART HOOK BLOCK	95 kg
FOUR PART HOOK BLOCK	125 kg
20 METRIC TONNE HOOK	15 kg

NOTE : THESE WEIGHTS APPLY ONLY TO TEREX LIFTING AUSTRALIA PTY LTD SUPPLIED EQUIPMENT.

WINCH LOAD CHART

Number of Parts of Rope	Permissible Winch Load (kg)
1	4 200
2	8 400
3	12 600
4	16 800

Wire Rope : 14mm 35W x 7 Non-rotating Compak
Minimum Breaking Force 165 kN

TYRE INFLATION CHART

Position	Construction & Ply Rating	Inflation Pressure - PSI	
		Pick & Carry	Highway Travel
Front	12.00 – 20 x 20 Ply	125	125
Rear	12.00 – 20 x 20 Ply	90	90

SECTION 3

LIFTING CAPACITY

RANGE DIAGRAM (ALL LIFTS)

LMI DUTY 01 : LIFTING CAPACITY ON WINCH -POWERED SECTIONS

LMI DUTY 03 : LIFTING CAPACITY ON WINCH –MANUAL EXTENSION

LMI DUTY 02 : LIFTING CAPACITY ON RHINO HOOK -POWERED SECTIONS

LMI DUTY 04 : LIFTING CAPACITY ON RHINO HOOK – MANUAL EXTENSION

**LMI DUTY 05 : LIFTING CAPACITY ON FLYJIB
(0° OFFSET) - POWERED SECTIONS**

**LMI DUTY 06 : LIFTING CAPACITY ON FLYJIB
(0° OFFSET) - MANUAL EXTENSION**

**LMI DUTY 07 : LIFTING CAPACITY ON FLYJIB
(12.5° OFFSET) - POWERED SECTIONS**

**LMI DUTY 08 : LIFTING CAPACITY ON FLYJIB
(12.5° OFFSET) - MANUAL EXTENSION**

LMI DUTY 09 : LIFTING CAPACITY ON FIXED LUG ON BUTT

LMI DUTY 10 : LIFTING CAPACITY ON INNER LUG ON FIRST EXT.

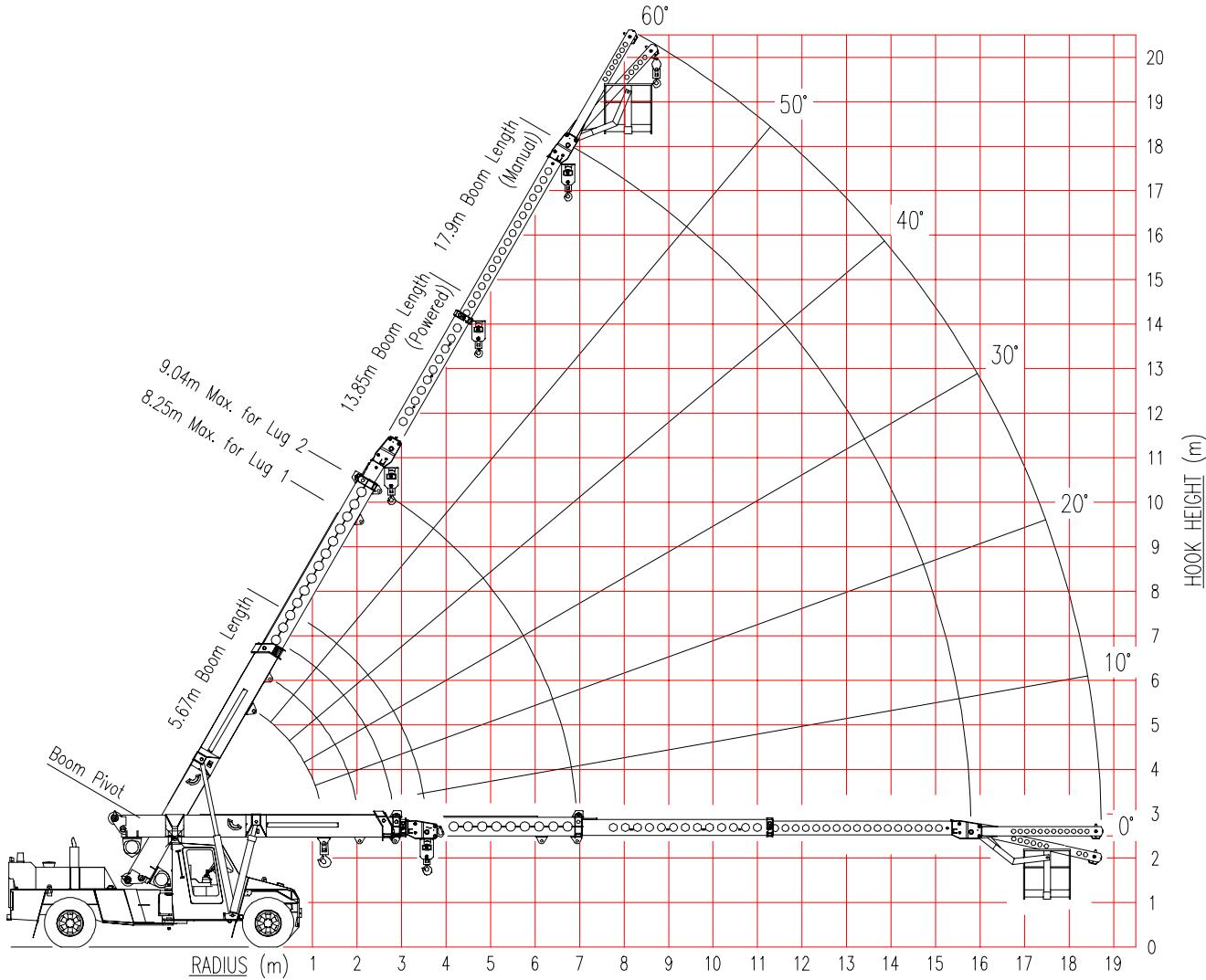
LMI DUTY 11 : LIFTING CAPACITY ON OUTER LUG ON FIRST EXT.

LMI DUTY 12 : LIFTING CAPACITY IN MAN BASKET – POWERED SECTIONS

LMI DUTY 13 : LIFTING CAPACITY IN MAN BASKET – MANUAL EXTENSION

RANGE DIAGRAM AT-20

SHOWING ALL LIFT CONFIGURATIONS



SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

		BOOM LENGTH (m)															
RADIUS	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	13.85
1.6	16800	16250	15450	14900													
	12600	12600	12600	12600													
2.0	16800	16800	16500	15700	15100	14700	14350										
	12600	12600	12600	12600	12600	12600	12600										
2.5	13900	13900	13900	13850	13850	13850	13850	13200	13000								
	12150	12150	12100	12100	12100	12100	12100	12050	12050								
3.0	11450	11450	11450	11400	11400	11400	11400	11400	11400	11150	10250						
	9950	9950	9950	9950	9950	9950	9950	9900	9900	9900	9900						
3.5	9650	9650	9650	9650	9650	9650	9650	9500	9500	9150	7500						
	8400	8400	8400	8400	8400	8400	8400	8350	8350	8150	7500						
4.0	9450	8550	8350	8350	8350	8350	8350	8300	8300	8300	7600	7000	6700	6450			
	8200	7450	7250	7250	7250	7250	7250	7200	7200	7200	7200	7000	6700	6450			
4.5	7500	7300	7300	7300	7300	7300	7300	7300	7300	7150	6550	6250	6050	5800	5650		
	6500	6350	6350	6350	6350	6350	6350	6300	6300	6300	6300	6250	6050	5800	5650		
5.0	(4.40)	19	27	34	38	42	45	48	50	52	54	56	58	59	60		
	6650	6500	6500	6500	6500	6500	6500	6500	6500	6150	5900	5650	5450	5300	5150		
	5750	5600	5600	5600	5600	5600	5600	5600	5600	5600	5600	5450	5300	5150			
6.0	(4.90)	18	27	33	37	41	44	47	49	51	55	56	58	59			
	5950	5350	5250	5050	4850	4700	4600										
	5100	4600	4550	4550	4550	4550	4550	4500									
	(5.40)	(5.90)	17	25	31	35	39	42	45	47	49	51	53	54			
7.0																	
	4200	3800	3750														
	(6.40)	(6.90)	16	24	29	34	37	40	43	45	47	48					
8.0																	
	4100	3750	3700														
	3500	3200	3150														
9.0																	
	2950	2750	2700														
	(8.40)	(8.90)	15	22	27	31	34	36									
10.0																	
	2550	2400	2350														
11.0																	
	(10.40)	(10.90)	14	21	26	29											
11.75																	
	2350	2200	2100	2050													
	1950	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
	(11.40)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)	(11.75)

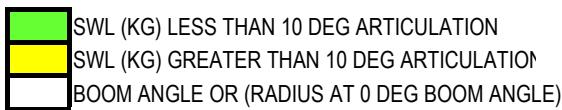
SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE

*Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural*

MANUAL EXT'N	
MAX LENGTH 17.90	
MAX	SWL
RADIUS	2550
6.74	2550
	60
9.31	2250
	2250
	50
11.53	2050
	2050
	40
13.34	1900
	1700
	30
14.67	1800
	1500
	20
15.51	1650
	1350
	10
15.80	1600
	1300
	0

NOTE :

17.9m Boom length includes Manual 3rd extension.
Ratings for Manual extension are structural & based
on Boom Angle, not radius. The ratings do not
change if the power sections are retracted with the
manual extended.



Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

RADIUS	BOOM LENGTH (m)																	
	5.97	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.16
1.6	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
	51	54	57	60														
2.0	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
	46	50	53	56	58	60												
2.5	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
	39	44	48	51	54	57	59	60										
3.0	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
	30	37	42	46	50	52	55	57	59	60								
3.5	9750	9750	9750	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700	9700
	8500	8500	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450	8450
4.0	8700	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400	8400
	7550	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300
(3.88)	19	29	35	40	43	47	49	52	54	56	57	59	60					
4.5	7550	7400	7400	7400	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350	7350
	6550	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400	6400
5.0	6700	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550	6550
	5800	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650	5650
6.0	6000	5400	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300	5300
	5150	4650	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550	4550
(5.40)	17	25	31	35	37	41	44	47	49	51	53	55	56	58	59	59	59	59
7.0	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200
	(6.40)	(6.90)	16	24	29	34	37	40	43	45	47	49						
8.0			4100	3800	3750	3750	3750	3750	3750	3750	3750	3750						
			3550	3250	3200	3200	3200	3200	3200	3200	3200	3200						
9.0			(7.40)	(7.90)	15	23	28	32	36	39	41	43						
10.0																		
11.0																		
12.00																		

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE

*Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural*

MANUAL EXT'N	
MAX LENGTH 18.20	
MAX	SWL
RADIUS	2400
6.91	2400
	60
9.52	2100
	2100
	50
11.78	1900
	1900
	40
13.62	1800
	1650
	30
14.97	1750
	1450
	20
15.81	1550
	1350
	10
16.11	1550
	1300
	0

NOTE :

18.2m Boom length includes Manual 3rd extension.
Ratings for Manual extension are structural & based
on Boom Angle, not radius. The ratings do not
change if the power sections are retracted with the
manual extended.

LMI Duty
Lifting on FLYJIB (0 offset)

05

FLYJIB	
MAX LENGTH	16.78
MAX RADIUS	SWL
6.23	1500
	1500
	60
8.62	1200
	1200
	50
10.69	970
	970
	40
12.37	850
	850
	30
13.62	770
	770
	20
14.40	750
	750
	10
14.68	750
	750
	0


 SWL (KG) LESS THAN 10 DEG ARTICULATION
 SWL (KG) GREATER THAN 10 DEG ARTICULATION
 BOOM ANGLE

Weight of slings & hook block to be added to load
Read and understand warning notes before
operating crane
Loads above bold red line are structural

NOTE :

16.78m Boom length includes Flyjib.
 Ratings for Flyjib are structural & based
 on Boom Angle, not radius. The ratings do not
 change if the power sections are retracted with
 the Flyjib installed

MANUAL EXT'N	
MAX LENGTH	20.83
MAX RADIUS	SWL
8.25	1500
	1500
	60
11.22	1200
	1200
	50
13.79	970
	970
	40
15.88	850
	850
	30
17.43	770
	770
	20
18.39	750
	750
	10
18.73	750
	750
	0


 SWL (KG) LESS THAN 10 DEG ARTICULATION
 SWL (KG) GREATER THAN 10 DEG ARTICULATION
 BOOM ANGLE

Weight of slings & hook block to be added to load
Read and understand warning notes before
operating crane
Loads above bold red line are structural

NOTE :

20.83m Boom length includes Manual 3rd extension
 & Flyjib. Ratings for Flyjib are structural & based
 on Boom Angle, not radius. The ratings do not
 change if the power sections are retracted with
 the manual extended.

LMI Duty

Lifting on FLYJIB
(12.5 deg offset)

07

FLYJIB	
MAX LENGTH	16.71
MAX RADIUS	SWL
6.71	1500
	1500
	60
9.04	1200
	1200
	50
11.03	970
	970
	40
12.63	850
	850
	30
13.78	770
	770
	20
14.46	750
	750
	10
14.64	750
	750
	0


 SWL (KG) LESS THAN 10 DEG ARTICULATION
 SWL (KG) GREATER THAN 10 DEG ARTICULATION
 BOOM ANGLE

Weight of slings & hook block to be added to load
Read and understand warning notes before
operating crane
Loads above bold red line are structural

NOTE :

16.71m Boom length includes Flyjib.
 Ratings for Flyjib are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the Flyjib installed

LMI Duty

Lifting on FLYJIB
(12.5 deg offset)

08

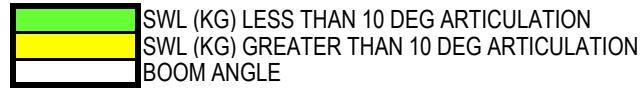
MANUAL EXT'N	
MAX LENGTH	20.76
MAX RADIUS	SWL
8.73	1300
	1300
	60
11.64	1120
	1120
	50
14.13	920
	920
	40
16.14	820
	820
	30
17.59	770
	770
	20
18.45	750
	750
	10
18.69	750
	750
	0


 SWL (KG) LESS THAN 10 DEG ARTICULATION
 SWL (KG) GREATER THAN 10 DEG ARTICULATION
 BOOM ANGLE

Weight of slings & hook block to be added to load
Read and understand warning notes before
operating crane
Loads above bold red line are structural

NOTE :

20.76m Boom length includes Manual 3rd extension & Flyjib. Ratings for Flyjib are structural & based on Boom Angle, not radius. The ratings do not change if the power sections are retracted with the manual extended.



*Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural*

FIXED LUG	
BOOM LENGTH 3.36	
MAX RADIUS	SWL
0.86	20000
	20000
	30
1.09	20000
	20000
	20
1.23	20000
	20000
	10
1.26	20000
	20000
	0

Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

		BOOM LENGTH (m)								
RADIUS		4.16	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.25
1.4	20000	20000	20000	19300	18100	17200				
	16000	16000	16000	16000	16000	16000				
	34	40	46	51	55	58				
1.7	19000	19000	19000	18700	17600	16500	15600	15000		
	16000	16000	16000	16000	16000	16000	15600	15000		
	25	33	41	47	51	55	58	60		
2.0	16950	16900	16800	16700	16650	16000	14650	14100		
	14750	14700	14600	14500	14400	14350	14300	14100		
	11	25	36	43	48	52	55	57		
2.5	16400	13800	13150	13100	13050	12950	12900	12750	11350	
	14300	11950	11400	11350	11250	11200	11150	11100	11050	
	(2.06)	(2.40)	24	34	41	46	50	53	57	
3.0			11100	10700	10650	10600	10550	10500	10450	
			9600	9200	9150	9100	9050	9000	8950	
			(2.90)	23	33	39	44	48	52	
3.5			9200	8900	8850	8800	8800	8750		
			7900	7650	7600	7550	7500	7450		
			(3.40)	22	31	38	42	48		
4.0				7800	7550	7550	7500	7450		
				6700	6450	6450	6400	6350		
				(3.90)	21	30	36	43		
4.5					6700	6550	6500	6450		
					5700	5550	5500	5500		
					(4.40)	20	29	37		
5.0						5850	5700	5650		
						4950	4800	4800		
						(4.90)	19	31		
5.5							5150	5000		
							4350	4200		
							(5.40)	23		
6.0								4450		
								3700		
								11		
6.15								4300		
								3600		
								(6.15)		

Weight of slings & hook block to be added to load
Read and understand warning notes before operating crane
Loads above bold red line are structural

SWL (KG) LESS THAN 10 DEG ARTICULATION
SWL (KG) GREATER THAN 10 DEG ARTICULATION
BOOM ANGLE OR (RADIUS AT 0 DEG BOOM ANGLE)

RADIUS	BOOM LENGTH (m) - READ OFF SCALE FOR INNER LUG									
	4.16	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.25	
1.4	20000	20000	20000	19900						
	16000	16000	16000	16000						
	46	50	54	57						
1.7	19000	19000	19000	18850	17400	15650				
	16000	16000	16000	16000	16000	15650				
	41	45	50	54	57	59				
2.0	17400	17300	17150	17050	16350	14700	13400			
	15200	15100	14950	14850	14750	14650	13400			
	35	40	46	50	54	56	59			
2.5	13700	13600	13500	13400	13300	13250	12350	11150	10150	
	11950	11850	11750	11650	11550	11500	11400	11150	10150	
	23	31	38	44	48	52	54	57	60	
3.0	11850	11150	11050	11000	10900	10850	10750	10300	9350	
	10300	9700	9600	9500	9450	9350	9300	9250	9150	
	(2.85)	17	29	37	42	46	50	53	56	
3.5	10350	9300	9250	9150	9100	9050	9000	8650		
	9000	8050	8000	7900	7850	7800	7750	7650		
	(3.20)	16	28	35	41	45	48	52		
4.0		8700	7900	7850	7800	7750	7700	7650		
		7550	6800	6750	6700	6650	6600	6550		
		(3.70)	15	27	34	39	43	48		
4.5			7450	6850	6800	6750	6700	6650		
			6400	5850	5800	5750	5750	5650		
			(4.20)	15	26	33	38	44		
5.0				6500	6000	5950	5900	5850		
				5550	5100	5050	5000	4950		
				(4.70)	14	25	32	39		
5.5					5700	5250	5250	5200		
					4850	4450	4450	4400		
					(5.20)	14	24	33		
6.0						5050	4700	4650		
						4250	3950	3900		
						(5.70)	13	27		
6.5							4500	4200		
							3750	3500		
							(6.20)	19		
6.9								3800		
								3150		
								(6.94)		

LMI Duty
Lifting in MANBASKET

12

MANBASKET	
MAX LENGTH	13.85
MAX RADIUS	SWL
6.18	250
	250
	60
	250
8.36	250
	50
	250
10.22	250
	40
	250
11.71	250
	30
	250
12.79	250
	20
	250
13.42	250
	10
	250
13.58	250
	0


 SWL (KG) LESS THAN 10 DEG ARTICULATION
 SWL (KG) GREATER THAN 10 DEG ARTICULATION
 BOOM ANGLE

*Read and understand warning notes before
operating crane*
Loads above bold red line are structural

NOTE :
13.85m Boom length does not include Manbasket.
Ratings for Manbasket are structural & based
on Boom Angle, not radius. The ratings do not
change if the power sections are retracted with
the Manbasket installed

LMI Duty
Lifting in MANBASKET

13

MANUAL EXT'N	
MAX LENGTH	17.90
MAX RADIUS	SWL
8.20	250
	250
	60
	250
10.96	250
	50
	250
13.32	250
	40
	250
15.22	250
	30
	250
16.59	250
	20
	250
17.41	250
	10
	250
17.63	250
	0


 SWL (KG) LESS THAN 10 DEG ARTICULATION
 SWL (KG) GREATER THAN 10 DEG ARTICULATION
 BOOM ANGLE

*Read and understand warning notes before
operating crane*
Loads above bold red line are structural

NOTE :
17.90m Boom length includes Manual 3rd extension
but not Manbasket. Ratings for Manbasket are structural &
based on Boom Angle, not radius. The ratings do not
change if the power sections are retracted with
the manual extended.

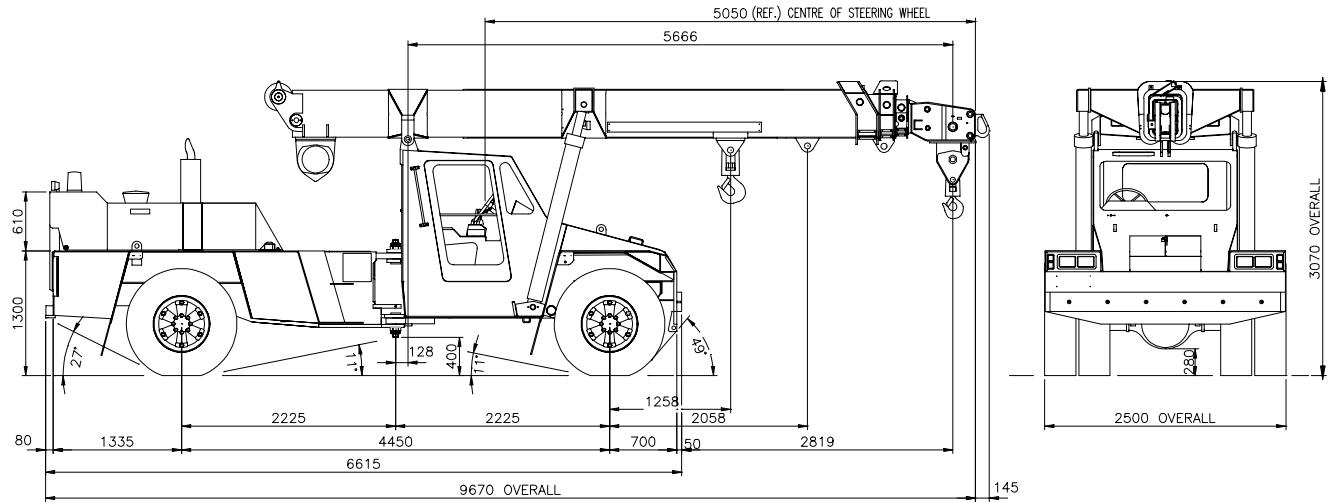
SECTION 4

CRANE DATA

MACHINE DIMENSIONS

HYDRAULIC DATA

INFORMATIONAL DATA



Crane Dimensions

Length (carrier)	6 615
Width	2 500
Height (with Boom)	3 070
Length Overall	9 670
Wheelbase	4 450
Front Axle Weight	8 000 kg
Rear Axle Weight	11 500 kg

HYDRAULIC DATA

MACHINE IS DESIGNED TO OPERATE AT THESE MAXIMUM PRESSURES.

FUNCTION	PUMP STANDBY PRESSURE	PUMP PRESSURE COMPENSATOR	STEERING RELIEF	TELE PORT RELIEF
SETTING (BAR)	30	220	175	210
TEST POINT	G1	G1	G2	G3

HYDRAULIC OIL TEMPERATURE MUST BE BETWEEN PLUS 20°C AND 40°C WHEN SETTING ABOVE PRESSURES.

PRESSURES TO BE CHECKED AT 1000 RPM – STANDBY PRESSURE CAN BE CHECKED AT IDLE.

DO NOT HOLD ON RELIEF MORE THAN 10 SECONDS TO AVOID OVERHEATING THE OIL AND HYDRAULIC COMPONENT DAMAGE.

UNAUTHORISED PRESSURE SETTINGS IN EXCESS OF THE ABOVE VALUES WILL RESULT IN DENIAL OF WARRANTY CLAIMS.

PRESSURES TO BE WITHIN 5 BAR OF THE ABOVE VALUES.