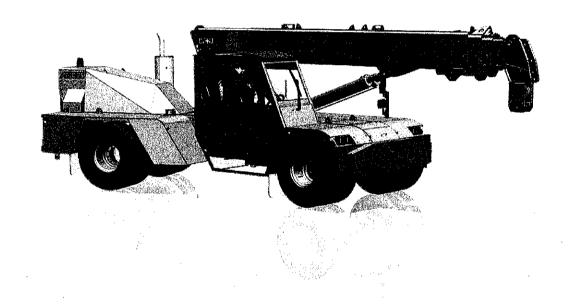


# MODEL MAC 25-4 SL RATED CAPACITY MANUAL Book Part Number: T139154C



# HYDRAULIC MOBILE ARTICULATED PICK & CARRY CRANE

# 25 tonne MAXIMUM RATED CAPACITY 16.6 tonne REAR AXLE WEIGHT

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

Terex Australia Pty. Ltd.

ABN: 86 010 671 048 E-Mail: info@terex.com.au

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NOTE: ALL PAGES MUST BE INCLUDED IN THIS BOOK.	

## **WARNINGS**

## **OPERATIONAL NOTICE**

# **A** DANGER

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 AND CRANE RATED CAPACITY MANUAL.

COPIES OF OPERATOR'S MANUALS AND CRANE RATED CAPACITY MANUAL MAY BE OBTAINED FROM:



#### ATTACHMENT NOTICE

# A CAUTION

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

## **DEFINITIONS**

**Articulation** – The crane pivots in the middle to allow steering and slewing of the load. Up to 40° Articulation is possible in either direction. See Working Area diagram

**Deration** – A decrease in the Rated Capacity due to external influences, expressed as a percentage.

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

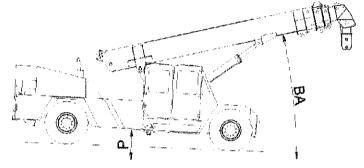
Gradient: Generalised slope of ground measured as a percentage.

**Load Radius** —The horizontal distance from the centre of the freely suspended hoisting hook perpendicular to a vertical plane containing the front axle.

**Loaded Boom Angle** – This is given to assist in setting up the crane only. It gives only an approximation of the Load Radius for a specified boom length. "Boom Angle" on Rated Capacity charts refers to the angle between the boom and true horizontal. (Refer to image below)

**Load Moment Indicator (LMI)** - A system that displays rated capacity for the given configuration. An audible warning sounds when rated capacity is approached and reached.

Pitch Angle – The forward tilt of the crane, the angle between the chassis of the front of the crane and true horizontal in the longitudinal direction. The pitch is positive when the front is higher than the rear. In the image shown, the pitch angle is negative.



Rated Capacity (RC) – The total Freely Suspended Load, including the mass of material and load handling equipment, that the machine can safely lift under ideal conditions at a given configuration.

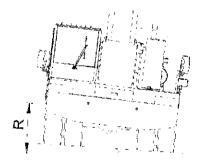
**Roll** – The side tilt of the crane chassis, the angle between the front chassis of the crane and true horizontal. The roll angle is positive when the left side of the crane is higher than the right side. In the image shown, which is a view on the front of the crane, the roll angle is negative.

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

**Slope:** Generalised angle of the ground measured in degrees.

Tilt: Generalised combination of pitch and roll.

**Work Areas** – Area measured in an arc about the centre pivot as shown on the Working Area diagram.



## 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 (2002) & 1418.5 (2002) and has been tested in accordance with these standards for pick and carry operation on tyres. The machine classification is C3.
- 2. Rated Capacities shown are for this machine as originally manufactured by Terex Australia Pty Ltd. The Rated 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 in Rated 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 documented in this rated capacity manual and in the operators, service and parts manuals furnished. If these manuals are missing, obtain replacements through Terex Australia Pty Ltd or their agents.

## **SET-UP**

- 4. Reduced crane Rated Capacities for the particular job shall be established, by the operator, 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 Capacity is based on Freely Suspended Loads. Lifting, or travelling with a load, on soft or uneven ground can be hazardous and will reduce the Rated Capacity of the crane. Refer to the section "Operation on Slope" for further information.
- 6. No attempt shall be made to drag the load along the ground in any direction.
- 7. Wind forces on the boom, resulting from winds up to 10 m/s (36 km/h), are incorporated in the Rated Capacity. Any additional Side Loading due to wind forces on the load will reduce the Rated Capacity, and must be considered.
- 8. Rated Capacities include the mass of hooks, blocks, slings and auxiliary lifting devices. Their mass must be subtracted, from the listed Rated Capacity, to determine the equivalent net load.

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9. Loaded Boom Angles at specified boom lengths give only an approximation of the Load Radius. The Boom Angle before loading should be greater to account for boom deflection increasing the Load Radius as the load is lifted.

#### **OPERATION**

- 10. Read and understand all warnings and instructional notes.
- 11. Do not tip the machine to determine allowable lifting capacities.
- 12. Loads may be lifted from:
  - The main boom head on the winch.
  - The rhino hook.
  - The fixed lug.
  - · Either of the two sliding lugs on the boom.
  - A flyjib is also available to extend the maximum boom length
  - A "manbasket" can be pinned to the head of the boom.

Always use the correct Rated Capacity chart for the lifting point in use, and the position of the counterweight. Ensure the LMI is set to the correct duty.

NOTE: Written authorisation from Terex Australia Pty Ltd is required prior to the use of any attachment not specified in the manual.

- 13. "Crane mode" can only be engaged when "low range" is selected. Selecting "crane mode" will cause the front suspension lockouts to engage.
- 14. Lifting from more than one lifting point simultaneously is neither intended nor approved.
- 15. Handling of personnel from the boom is neither intended nor approved, except in a Terex Australia Pty Ltd supplied manbasket, correctly installed on the head of the boom, or other approved arrangement.
- 16. When either the boom length or Load Radius or both are between values listed, the smallest load shown at either the next larger Load Radius or boom length shall be used, or the interpolated value shown on the LMI may be used.
- 17. 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
  - Sudden movement when articulating with a load.
  - Dragging a load.
  - Pushing a load.
  - Wind forces on load and boom structure.
- 18. It is safe to attempt to telescope any load within the limits of the Rated Capacity Manual. The maximum load that may be telescoped is limited by hydraulic pressure, Loaded Boom Angle and powered boom sections lubrication.

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- 19. Boom extension 1 and boom extension 2 move simultaneously. The winch rope is fully compensated for boom extension when boom extensions 1 & 2 are being telescoped. Boom extension 3 is powered on the MAC 25 however there is no compensation of the winch rope as the third extension is being extended. Operator to take care to extend rope as required while boom extension 3 is being telescoped.
- 20. Do not allow the winch rope to unwind fully. Always ensure a minimum of 2 wraps of rope remain on the winch drum.
- 21. Rated Capacity depends on tyre rating, tyre condition and tyre inflation pressure. All tyres must be in good condition and must be inflated to the recommended pressure before attempting a lift.
- 22. Pick & carry operation is permitted through the full Articulation range, however, Rated Capacity is reduced when articulating. On the series 4 MAC 25, the LMI dynamically calculates rated capacity taking crane tilt and articulation into account.
- The maximum speed for pick & carry operation is 0.4m/s (1.44km/h). The transfer case shall be set to low range.
- 24. Operation of this crane in excess of the Rated Capacity and disregard of the instructions is hazardous.

## LIFT AND CARRY OPERATION

Observe the following during travel with load on the crane:

- Keep the boom tip as close to the ground as possible by using:
  - The MINIMUM practical boom length
  - The MINIMUM practical Boom Angle.
- Keep the load as CLOSE to the ground as possible.
- Keep the load as **CLOSE** to the front of crane as possible
- Use the MINIMUM Articulation angle practical REMEMBER the crane will side tilt
  when articulated and hence the hook will move towards the direction of Articulation
  whilst steering.
- Load swing greatly reduces stability REMEMBER to tagline loads to prevent pendulum motion of the load. Travel and crane motions should be applied gently to minimise this effect.
- Always REMEMBER:
  - On flat ground Increased articulation reduces load capacity
  - On sloping ground Downhill articulation reduces load capacity.

## **OPERATION ON SLOPE**

The operation on slope of cranes that travel with a freely suspended loads should be avoided if at all possible (refer to AS 2550.5). Mobile Cranes are primarily designed to operate on firm, flat, level ground - within a 1% gradient (refer to AS 1418.5 (2002)). Any deviation from this requires that the Rated Capacity shall be reduced (derated) accordingly.

If it is necessary to operate on slope the precautions listed below must be taken.

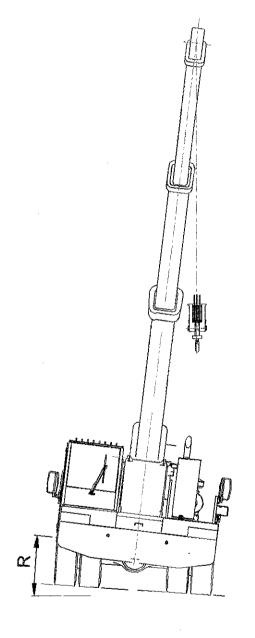
- REMEMBER that surface depressions and potholes will create the same effect as a sloping surface.
- Ensure the ground condition is **FIRM** enough to support the axle loads.
- Ensure the tyres are inflated to the correct operating pressures.
- Keep the load on the UPHILL side of the crane where possible. REMEMBER the working Load Radius will increase if the load is suspended in the downhill position.

#### NOTE:

The MAC 25 crane must at no time be operated on a slope greater than 5° (8.75% gradient).

In order to determine the slide slope of a particular site the crane's LMI can be used to give an approximation. Before commencing the lift, drive the un-laden crane slowly across the sloping surface and note the maximum slope displayed. Take the reading when the crane's articulation is zero (straight ahead) and with the boom (fully retracted) in its lowest position practical.

The MAC 25 is fitted with an LMI that calculates the rated capacity for the crane when the crane tilts in any direction.



#### SLOPE RATED CAPACITY

The degree of tilt of the front body results from a number of factors. Articulation of the crane induces tilt as does working on a slope. In combination the body tilt is increased when the load is on the DOWNHILL side of the crane (when the crane articulation direction is down a side slope).

The degree of tilt of the front body and boom is further increased by the deflection of the tyres. This is illustrated in Figure 1. For instance, a  $5^{\circ}$  ground side slope may result in chassis tilt of say  $7^{\circ}$ .

The LMI determines and displays the degree of body tilt measured by a sensor that is attached to the front body. This sensor measures the angle of the front body, <u>not</u> the angle of slope of the ground. When the crane is un-laden, the boom fully down, and the crane is at zero articulation, the body will be close to the same angle as the ground, for up to  $5^{\circ}$  slope.

This body tilt angle (the "Roll") is used by the LMI to derate the crane as this is also the angle the boom has been tilted sideways. When lifting or carrying a load in slope situations, the tilt of the body will change as the weight of load is taken by the crane. In most circumstances, this change will be further derate the crane. Hence in planning a lift, it is important to be conservative on lift capacity in any circumstance where the lift will induce significant front body tilt.

## **SPECIFICATIONS**

#### ATTACHMENT MASSES

Single part hook block	PL16M2090	30 kg		
Four/six part hook block	PLMXA3033	230 kg		
Rhino Hook	PLMXF3015	25 kg		
9 tonne hook	PP2190200	10 kg		
25 tonne hook	PP2087500	26 kg		
12 tonne spreader bar	PL16A3035	94 kg		
15 tonne spreader bar	PL15A8023	107 kg		
Adapter - Flyjib & Manbasket	PLMXF3018	25 kg		
Flyjib (3m)	PL16A3056	79 kg		
Mount arm - Manbasket	C2061	85 kg		
Manbasket	C2062	130 kg		

NOTE: These masses apply only to Terex Australia Pty Ltd supplied equipment.

#### HOOK BLOCK

Hook Block:	Number of Falls of Rope	Maximum Hook Block RC (kg)
	1	4200
	2	8400
	4	16800
	6	25000

## **WIRE ROPE**

Wire Rope:	Rope: Non-rotating Compak 2070 MPa.	Ø14 mm 35W x 7
	Minimum Breaking Force:	165 kN
	Rope Length:	110 m

#### TYRE SPECIFICATIONS

Condition	Speed	Rated Capacity (Min)
Pick & Carry	<1.44 km/h	10500 kg per tyre (dual fitment)
Highway	80 km/h	3000 kg per tyre (dual fitment)

## TYRE INFLATION CHART

Dition	Construction	Inflation Pressure					
Position	Construction	Pick & Carry	Highway Travel				
Front	14.00 x 20	830 kPa (120 psi)	620 – 830 kPa (90 – 120 psi)				
Rear	14.00 x 20	620 kPa (90 psi)	620 kPa (90 psi)				

#### **COUNTERWEIGHT DETAILS:**

Moveable Counterweight:	T139185	1280 kg
SL counterweight	PLMXF2019	2155 kg

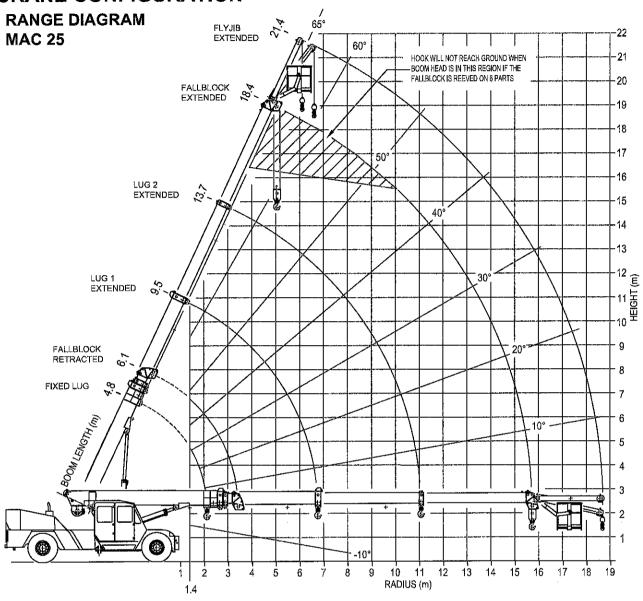
#### MAC 25 Axle Loads:

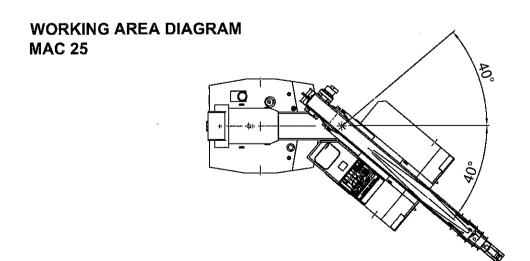
Axle loads for un-laden crane, boom fully retracted and boom angle at 0°.

No counterweight on crane:	Front Axle: Rear Axle:	10330 kg 12290 kg
Counterweight on front:	Front Axle: Rear Axle:	11900 kg 12000 kg
Counterweight on rear:	Front Axle: Rear Axle:	10010 kg 13890 kg
Rear SL counterweight	Front Axle: Rear Axle:	9465 kg 16590 kg

NOTE: The MAC 25 must not be driven on public roads and highways with counterweight mounted on the rear of the crane.

# **CRANE CONFIGURATION**





# RATED CAPACITY CHARTS

#### **DUTY NUMBERS AND COUNTERWEIGHT POSITIONS**

The MAC 25 crane is fitted with a moveable counterweight which is stored on the front of the crane during travel. The counterweight is mounted at the rear of the crane to increase the rated capacity.

Crane lifting configuration (Duty) is designated in this Rated Capacity Manual by the use of a three digit number. The first digit represents position of the counterweight, the second two designate the lifting configuration being used.

Counterweight Position	Duties
No counterweight on the crane (0):	001
Front Counterweight (1):	101 - 122
Rear Counterweight (2):	201 – 212
Rear SL counterweight (3):	301 - 313

#### CHART RELATED INFORMATION

- Pitch and Roll angles: Rated capacity values in the charts for the MAC 25 crane at 25° & at 40° articulation have been calculated using pitch and roll values consistent with lifting on firm level ground.
- Red Line on charts: Rated Capacities above the red line are based on the machine's hydraulic or structural competence. Rated Capacities below the red line are based on machine stability.
- RC are based on firm level ground with tyres at specified pressures. (AS1418.5: 1% max side slope (0.6°)).

NOTE: In determining the load that can be lifted, the weight of hooks & other load handling devices (including the fall block) shall be ADDED to the load being lifted.

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## **RATED CAPACITY CHART - FALL BLOCK**

COUNTERWEIGHT: POSITION:

NONE N.A.

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14 3450 3150

WINCH RATED CAPACITY

4200 SINGLE PART 8400 TWO PARTS FOUR PARTS 16800 25000 SIX PARTS

UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

KEY:

PITCH: -2.3 ROLL: -1.0 75,000 RC @ ARTIC: 0° ..6950 RC @ ARTIC: 25° PITCH: -2.3 ROLL: -3.0 5400 RC @ ARTIC: 40° PITCH: -2.3 ROLL: -3.5 BOOM ANGLE 63 RADIUS AT ZERO BOOM ANGLE (30.1)

Pitch & Roll angles indicated are representative of lifts based Note: on firm level ground with tyres at specified pressures.

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## **RATED CAPACITY CHART - FALL BLOCK**

COUNTERWEIGHT: POSITION:

STANDARD

FRONT OF CRANE

Duty:	101

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	9650	9650	9650	9600	9600	9600	9550	9550	9550	9500	9500	9100						
4.0	(3,5)	19	28	35	40	44	47	50	53 9200	57	61	63	alozona					4.
4.0	-	9200	9250 8850	8850	9250 8850	\$8820	9250 =8800	8800	88200 88200	100	87.50	87(00) 87(00)	8700		_			4.
		8550	8250	8250	8200	8200	8200	8200	8150	8150	8100	8050	8150					
		(3.9)	18 .	27	34	39	43	46	49	54	58	61	63	•		<u> </u>		
5.0			6600	7600	7/100	7/00	7/100	7/05(0)	#7/050R	7/050	~ 74000) ·	7/000	7/01/0	7050	7/15(1)	7/250		5.
			7950	46950	6750	6750	進6750	6750	6750	6700	6700	67,00%	8650	6750	<b>%6800</b>	69001		
			7350	6450	6250	6250	6250	6250	6250	6200	6200	6200	6050	5800	5550	5350		
			(4.4)	(4.9)	17	26	32	37	40	46	51	55	58	61	63	65 5800	i pratovo s	_
3.0					(64,61) (61,60)*	45760 25500	\$5050	(5660) (5660)	58:0		6050	5600 5800	( (april )	5660 6660	6450) 6450)	5500	\$5600M	6.
					5700	5050	4950	4950	4950	4950	4900	4900	4900	4850	4700	4550	4350	
					(5.4)	(5.9)	16	24	30	38	44	49	53	56	59	61	64	
'.O					<del>                                     </del>		5200	47(tj)	4(00)	4(000)	4600	4600	4550	4600	47(00)	4600	4(350)	7.
					Ľ		4950	4450	4350	4350	4850		4850	4400	4450	4550	4650	
							4550	4100	4000	4000	4000	4000	3950	4050	4050	3950	3800	
					<u> </u>	L	(6.4)	(6.9)	15	29	37	42	47	51	54	57	60	<u> </u>
									4 <u>5450</u> 84050	28600		36(0) 64(600	3600	3650 3650	3950 3750	(4000) (3800)	4900 <b>34900</b>	8.
									3700	3300	3300	3300	3300	3350	3450	3450	3350	ĺ
									(7.4)	14	27	35	41	45	49	52	56	İ
											3200		3200	3250	3860	3400	3500	9
										€350↑	3050	3050	3000	3100	8150	3250	3300	
										3050	2750	2750	2750	2800	2900	2950	2950	İ
										(8.4)	14	26	34	39	44	47	52	
											A CONTRACTOR OF THE PARTY OF TH	2450		2800	25.60	29.0	3000	10
											2850 2550	2300	2550 2300	2600 3 2400	2700 2450	2750 2500	2850 2600	
											(9.4)	13	25	33	38	42	47	1
											(0.4)		2850			2550		11
												2400	2200				2500	
NCH	RATED C	APACIT	Υ									2150	1950	2000	2100	2150	2250	
	SINGLE			4200								(10.4)	13	24	32	37	43	
	TWO PA			8400								<u> </u>				22(00)		12
	FOUR F			16800								<u> </u>	2050 1850	1900% 1700	2000* 1800	1850	2150 ¥ 1950	
	SIX PAF	(15		25000								<del> </del>	(11.4)	12	24	31	38	
ITS:												<u> </u>	\111. <del>4</del> /			1950		13
	ANGLES	IN DEG	REES											1800			1900	
-	LENGTH													1600	1550	1600	1700	l
-	LOAD IN													(12.4)	12	23	32	
																1500		14
Y:	Ann and Anna Mark			- 0	mimo	0.0	DC:	4.0				<u> </u>			1450	1400	1500	
	7(50)		ARTIC:		PITCH:		ROLL:					├			(13.4)	12	25	47
	6800	-	ARTIC:		PITCH:		ROLL:				<del></del>	<del>                                     </del>			<u> </u>		1300	15
	<b>5550</b>		) ARTIC: VI ANGLE		PITCH:	-2.3	ROLL:	-3.3			<del></del>	<del> </del>			<del>                                     </del>	1300 (14.4)	1300 17	l
	(30.1)		VI ANGLE US AT ZE		ЭМ АМСІ	F					<b></b>	$\vdash -$	$\vdash$	$\vdash$	$\vdash$	114.41	<b>3</b> 400	15.
	(30,1)	IVADI	00 AT ZE	.no bot	ZIVI TINUL										<del>                                     </del>	<del>                                     </del>	1150	'
												<del></del>			$\vdash$	-		l
	Note:	Pitch	& Roll an	ales indic	cated are	represen-	ative of t	itts based				l			ı	Į.	(15.8)	

## **RATED CAPACITY CHART - RHINO HOOK**

COUNTERWEIGHT:

STANDARD

POSITION:

FRONT OF CRANE

Rad				BOOM P	IVOT TO	HEAD S	HEAVES	- 3rd BC	OM RET	RACTE	)			3rd	BOOM	EXTEND	ING	Rad
	6.45	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	12.00	13.00	14.00	15.00	_	18.00	18.75	
1.4	M-5000	XI5000	15000	#75000	15000													1.4
	15000	15000	15000	15000	15000	15000								<u> </u>		<u> </u>		
2.0	52 45000	56	59	61 ************************************	64	65 30 50 00 2	<b>3</b> 440003	<b>CENTAL</b>						<del></del>		$\vdash$		2.0
2.0	15000	15000	15000	15000	15000	15000	15000	15000										2.0
	45	50	53	56	58	61	63	64										
2.5	15000	Bright Ship and	Carlo and boundary	1000				The second control of	Emplification Dymon	A CONTRACTOR OF THE PARTY OF TH								2.5
	15000	244 A 201 1 2 7 1 1 2 7 1 1 1 1 1 1 1 1 1 1 1 1	15000	15000	1-111 - 100	100001000000000000000000000000000000000	177 EWIT 2 TABLES - 4	15000	15000	- Apple 18 19 - RECEPT 18						<u> </u>		
	14300 38	14250 44	14250 48	14200 51	14150 54	14150 57	14100 59	14100 61	14050 63	14050 64				<u> </u>				
3.0	3130501										(2800)							3.0
	12500	12500	¥12450	12400			12350	12350	12300		12250							
	11700	11650	11650	11600	11550	11550	11500	11500	11500	11450	11450							
0.5	29	37	42 40950	46	49 10900	52	55	57	59	61	64	EGVIS/EII		<u> </u>	-			3.5
3.5	105002	10500	10450	10450	Contract of the same		10400	10350		10850	10300			<del>                                     </del>				3.0
	9800	9800	9750	9750	9700	9700	9700	9650	9650	9600	9600	9150						
	(3.8)	29	36	41	45	48	51	53	56	58	61	64						
4.0		9200	9400	9.00				9800	9800			9200	III Section 1995					4.0
		9000	9000	8950	8950	8950	8900	8900	8850	8850		8800	8800					
	$\vdash$	8350 (4.4)	8350 28	8350 34	8300 39	8300 43	8300 47	8250 49	8250 52	8250 54	8200 58	8100 61	8250 64	Ī				
5.0		(104)	7/100	7200	_		7/150		7/150	7/150				7/100	7250			5.0
			7050	6850	6850	6850	6850	6800	6800	6800	6800	¥6750×	6750	6750	6950			
			6550	6350	6350	6350	6350	6350	6300	6300	6300	6250	6150	5800	5400			
6.0			(4.9)	(5.4)	26 5850	32 5700	37 5700	41 5700	44 5700	47	52	55 5650	58 \$650	61 - \$650	65	5900	MEGEUM	6.0
0.0				<del> </del>	5600	\$54502	6450	5450	5450		5400		**************************************		5550	56001	5650	0,1
					5150	5050	5050	5050	5000	5000	5000	4950	4950	4900	4550	4450	4350	
					(5.9)	(6.4)	25	31	35	39	45	49	53	56	61	63	65	
7.0				┡			4760		46.0						46(010)		4500	7.0
							4550 4150	4450 4100	4450 4100	445U 4100	#4400 4050	4050	4400 4050	4400 4050	4550 3950	3850	4650 3750	
				<u> </u>			(6.9)	(7.4)	23	29	37	43	47	51	57	59	61	
							()	V	3950		3800	3850	3850	3900	40(4)	45(10)	All50	8.0
									3750		3700		3650	3700	3850	3900	3950	
									3450	3350	3350	3350	3350	3350	3450	3400 55	3300 57	
									(7.9)	15 8600	28 3250	35 3250	41 3250	46 3800	52 3450	3500	3550	9.0
										3450	3100	3100	(478Y 71 CR/TMS-	3100	3250	3300	3350	0.,
										3150	2800	2800	2800	2850	3000	3000	2950	
										(8.4)	14	27	34	40	48	51	53	
												2800 2600	2800 2600	28(00) #2650#	2850 2800	\$000 \$2850	\$000 \$2300	10.
											2600	2350	and a recommendation	2400	2550	2600	2650	
											(9.4)	14	26	33	43	46	48	
												2(5(11))		2400		2600		11.
									,			2450	2250	2250	2400	2450	2500 m	
												(10.4)	2000 13	2050 25	2200 37	2250 41	2300	
												(10.4)	2/2/50	2100		2800		12
													2100	1950	24(00)	2150		
													1850	1750	1900	1950	2000	
												<u> </u>	(11.4)	13	31	36	39	1.0
VITS:	AMOLEC	IN DEC	DEEC											1800	1950 21800	1900		13.
_	ANGLES LENGTH											<u> </u>	•••	1600	1650	1700	1750	
_	LOAD IN													(12.4)	23	30	34	
															1600	(1/4510)	<b>-1800</b>	14
Υ:		,													1400	1450	1500	
	7Z50		ARTIC:		PITCH:		ROLL:								(14.4)	22	28	1-
	6950		ARTIC:		PITCH:		ROLL:							$\vdash$	<del> </del>	1300 1300	1600 . 1300	15.
	<b>5400</b> 65		) ARTIC: VI ANGLE		CHUM:	-Z.J	NOLL:	-0,0				$\vdash$		$\vdash$		(15.4)	20	
	(35.)				OM ANGL	Æ						<b> </b>				,,	4400	16.1
	\- <del></del>	,															1150	
	Note:	Pitch	& Roll an	gles indic	cated are	represent	ative of li	fts based									(16.1)	
					i tyres at						12.00	13.00	14.00	15.00	17.00	18.00	18.75	_

102

Duty:

#### **RATED CAPACITY CHART - FLYJIB**

COUNTERWEIGHT: POSITION:

STANDARD

FRONT OF CRANE

Rad

6.1

7.8

9.3

10.8

12.2

13.5

14.7

15.7

16.6

17.3

17.9

18.3

18.6

18.7

RC

4500 1440

65 (600)

1370 60

1220 55 (200)

1080 50 1030

1010 45 970

900 40 (103)

840 25

800 30 18(00)

750 25 7740

730 20 7(60)

730 15 (A)

720 10 7,650

7.20 -5 7610

720

## Duty:

105

<u>106</u> Duty:

#### FLYJIB at 0° OFFSET

Duty:

105

# FLYJIB at 12.5° OFFSET

Duty:

106

Rad	RC
6.6	1440 1440
8.2	65 <b>1370</b>
	60 1 <b>340</b>
9.8	1220 55 1200
11,2	<b>1080</b> 50
12.6	1080 1010 45
13.8	970 900 40
14.9	900 840
15.9	860 800 30
16.8	<b>750</b> 25
17.5	730 730 20
18.0	780 730 15
18.4	720 10
18.6	720 5
18.7	<b>7.50 720</b> 0

#### NOTE:

- RATED CAPACITY IS BASED ON THE STRENGTH OF THE FLYJIB ALONE - RC IS THE SAME FOR ALL BOOM LENGTHS.

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

900

RC @ ARTIC: 0° RC @ ARTIC: 40°

PITCH: -2.3 PITCH: -2.3

ROLL: -1.0 ROLL: -3.5

Boom Angle

Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

#### RATED CAPACITY CHART

COUNTERWEIGHT:

**STANDARD** 

POSITION:

FRONT OF CRANE

Duty:

109

110 Duty:

## **MANBASKET**

Duty:

109

<b>FIXED</b>	LUG	(BUT	T)
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Duty:

110

Rad	RC
1,4	23600) 23050 33
1.5	23200 22600
1.6	22800 21900 29
1.7	22400 20500 25.9
1.8	24(550) <b>19250</b> 23
1.9	<b>20300)</b> <b>18100</b> 20
2.0	17100 16
2.2	<b>15500</b> 0

	2/(0)
6.0	275
	65
	27.5
7.5	275
	60
	205
9.0	275
	55
	205
10.3	275
	50
	260
11.6	275
	45
	2765
12.8	275
	40
	27/5
13.8	275
10.0	35
	2705
14.7	275
17.1	30
	27/5
15.5	275
10.0	25
	2276
16.1	246
10.1	20
	275
16.6	- 11
10.0	216
	15
47.0	275
17.0	195
	10
	2165
17.2	182
	5.0
	204
17.3	176
	0

RC

Rad

NOTE:

MANBASKET RATED CAPACITY INCLUDES ALL PERSONELL AND ALL EQUIPMENT.

UNITS:

- ANGLES IN DEGREES

- LENGTHS IN METRES

- LOAD IN KILOGRAMS

KEY:

216

RC @ ARTIC: 0° RC @ ARTIC: 40° PITCH: -2.3 PITCH: -2.3

ROLL: -1.0 ROLL: -3.5

Boom Angle

Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

## **RATED CAPACITY CHART - LUG 1**

COUNTERWEIGHT:

STANDARD

POSITION:

FRONT OF CRANE

Duty:	111
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Rad		•		BO	OM LENG	3TH				Rad
	5.36	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.46	
1.4	26800	28650	28500	234007	28850	28250	28200	28160		1.4
	23250	23050	22950	22850	22750	22650	22600	21350		
	42	49	53	56	59	61	63	65		
2.0	E-1150315-541	<b>\$19250</b>	19000	****	18600	Carried Comments	#18250	18100		2.0
	17550	17200	16950	16700	16500	16350	16200	16050	15950	
	30	40	45	49	53	56	58	61	62	
2,5	Contract of the Contract of th	OR THE REAL PROPERTY.		400	14450		(4)50	( N. 12 20 20 11 12 12 12 12 12 12 12 12 12 12 12 12	139501	2.5
	14650	314350	14150	13950	13800	SEPSETATION CONTRACTOR	13500		13300	
	13700	13400	13150	12950	12800	12650	12500	12400	12300	į
	16	31	38	43	48	51	54	56	59	
3.0	(3900)	1	(2000)	ARTON DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COL	1/17/00		11450		CO-UNITED STATES	3.0
	413300	11650	11450	11300	11150	11000:	10900	10800	10700	
	12350	10800	10650	10500	10300	10200	10050	9950	9850	1
	(2.7)	20	30	37	42	46	49	52	55	
3.5		1	10000	9330	97/50		9500	9/100	6600	3.5
		10100	\$9550 <sup>8</sup>	9400	9250	9150	9000	8900	8850	- 1
		9400	8800	8700	8550	8450	8300	8200	8150	
		(3.4)	19	29	35	40	44	48	50	
4.0			8800		12E0	القاق	(0.50)	7950	70,50	4.0
			8400	7950	7850	7700	7600	7550	7450	
			7750	7300	7200	7100	7000	6900	6850	
			(3.9)	19	28	34	39	43	46	
5.0				7450	(0880)	CO20	5250	9500)	\$300	5.0
				7050	6000	5700	5650	5550	5500	- 1
				6500	5500	5200	5150	5050	5000	- 1
				(4.4)	(4.9)	17	26	32	36	
6.0						5/80	47(00)	4(610)	44 (40)	6.0
						5150.	4400	4250	4200/	1
						4700	4000	3800	3750	1
						(5.4)	(5.9)	16	24	
6.8								4H00	\$600	6.8
								3450	3000	
								(6.4)	(6.8)	
	5.36	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	

#### UNITS:

- ANGLES IN DEGREES
   LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

700 RC @ 7100 RC @ 34 BOOM	ARTIC: 0° ARTIC: 25° ARTIC: 40° MANGLE JS AT ZERO B	PITCH: -2.3 PITCH: -2.3 PITCH: -2.3	ROLL: -1.0 ROLL: -3.0 ROLL: -3.5
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on firm level ground with tyres at specified pressures.

Note: Pitch & Roll angles indicated are representative of lifts based

## **RATED CAPACITY CHART - LUG 2**

COUNTERWEIGHT: POSITION:

STANDARD FRONT OF CRANE

Duty: 112

₹ad						ВО	OM LENG	STH .						Rad
	5,57	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	11.00	12.00	13.00	13.77	1
1.4		23850	23800	23800	\$23800	23800	23800							1.4
	23300	23300	23300	23250	23250	23250	23250							i
	44	52	56	59	61	63	65							1
2.0							19650	96501	<b>2</b> 96501					2.0
2.10	17700	17700	17650	17650	17650	17600	17600	17600	17600					i
	33	45	49	53	55	58	60	62	64					1
2.5	£155001						13/30			15400				2.
2.5	14800	***************************************	100000000	14800	4800	4/4800		147.50	14750	14750				1 -
	SECOND-175EVS	Harry Street,	14800	I.FSCPEPECTOLIS D.	A WASH CHARGE	COURT CASE AT THE	GF1CFC1G1, SCH	HART TENEFOLD CHINE	11-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	13750				ł
	13800	13850	13850	13800	13800	13800	13800	13750	13750					ł
	22	38	43	47	51	54	56	58	60	64	2702501			-
3.0				1/2650			12600							3.0
	12300	12100	12100	12100	12050	Carrier Second Brooks	12050	1-LITE COLON	Error SPEEDS FILE-ST. C. L.	-12000	12000			1
	11450	11250	11250	11250	11250	11250	11250	11200	11200	11200	11200			
	0	30	36	41	46	49	52_	54	57	61	64		·	L
3.5		10500	10600	ALCOUN.	10000	(0.600)	(0.000)	(0.00	(0550)	(10550	10550	TiOE O		3.
		10100	#10100	10150	10100	a(0100)	110100	\$10100	210100	\$10100	10050	\$10050		]
		9400	9400	9400	9400	9400	9400	9400	9400	9350	9350	8950		1
		19	28	35	40	44	48	50	53	57	61	63		1
4.0		9400	9050	(2050)	9(050)	\$(050)	9050	20140	9050	9050	9050	S0(010)	8000	4.
	<u> </u>	8950	8650	8650		8650	The second second	8650		48650	#8600		8600	1
		8300	8000	8050	8050	8050	8050	8050	8000	8000	8000	7900	7450	1
		(3.9)	18	27	34	39	43	46	49	54	58	61	63	1
5.0		(3.5)		7/100			(5950)			6800				5.0
ບ,ຜ			- C	L. Zh. Dirizi	6600		6600	6800	6600	6600	6600	6550		1 "
			77750	2000	Sparring to Amoun	144	17 77 77 77 77 77 77 77 77 77 77 77 77 7		-0.70		6100	6100	6050	1
			7150	6250	6100	6100	6100	6100	6100	6100				1
			(4.4)	(4.9)	17	26	32	37	40	47	51	55	57	
6.0					(6800)		\$5500		6500	\$1:00	65(10)		(3:00)	6.0
					6000	5350	. Harons, type, Joseph J. Alrys	5200	5250	¥5250c	5200	¥5200	5200	
	L				5550	4900	4800	4800	4800	4800	4800	4800	4800	
				ļ	(5.4)	(5.9)	16	24	30	38	44	49	52	
7.0							6050	4550	7450	4500	ZE00	2500	4500	7.
						1	<b>~4800</b>	4350	4250	4250	4250	4250	4250	
							4400	3950	3900	3900	3900	3900	3900	]
							(6.4)	(6.9)	15	29	37	43	46	1
					•		<u> </u>		Z (810)	37(00)	87/00	37(00)	-3700	8.
									<b>3900</b>	3500	3500	3500	3500	
									3600	3200	3200	3200	3200	1
									(7.4)	14	27	35	40	1
									,		3100		33150	9.1
										3250	2950	*2950	2950	
							<del>                                     </del>		<b></b>	2950	2650	2650	2650	1
						<del></del>			<del>                                     </del>	(8.4)	14	26	32	ł
						<b>—</b>	-			10.4)		2650		10.
							ļ		<del></del>	<del></del>	27450			10
											an Vitajao m. a p. j. c.	2450	2500	1
									<u> </u>	<u> </u>	2450	2250	2250	1
									<u> </u>	ļ <u> </u>	(9.4)	13	23	<del>  -</del>
								L	ļ		<u> </u>	2450		11
												THE OWN PRO THE STATE	2100	4
												2050	1850	1
												(10.4)	8	L
										Γ			2220(1)	11
							ļ		<u> </u>			· · · · · ·	\$2050a	
							<b>-</b>		i e			i	1800	1
								<del>                                     </del>					(11.1)	1
						8.50	9.00	9.50	10.00	11.00	12.00	13.00	13,77	-

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

1000	1
	i
GENN	
6100	
7.07	
51	

RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0 RC @ ARTIC: 25° PITCH: -2.3 ROLL: -3.0 RC @ ARTIC: 40° PITCH: -2.3 ROLL: -3.5

BOOM ANGLE

(5.4) RADIUS AT ZERO BOOM ANGLE

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

## **RATED CAPACITY CHART - FALL BLOCK**

COUNTERWEIGHT: POSITION:

STANDARD **REAR OF CRANE** 

201 Duty:

₹ad				BOOM F	PIVOT TO	HEAD S									BOOM			Ra
1 1	6.12	6.50	7.00	7.50	8.00 <b>24500</b>	8.50	9.00	9.50	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18,42	1.4
1.4	24800	24800	24800	24750	24550	24000	23600		<u> </u>				-		<del> </del>			1.
	49	52	56	58	61	63	65											
2.0		22950			22850			III SANGER										2.
	20550 41	20550 45	20500 49	20450 52	20450 55	20400 58	20350 60	20350 62	20300 64			<del> </del>		_		-		
2.5	32811001				118000			47900		<b>£</b> 17850								2
	Total Control of the	-May-Continue	47250	17250	P. P. WHILLOW P. D. T.	PARAMETER SPECIAL	17/150	17150	17150									
	16150	16150	16100	16100	16050	16050	16000	16000	15950	15100			<u> </u>					
3.0	33 14800	38 \$128003	43	47	51 \$14750	54 (47/50)	56 #(4700)	58 4147/001	60	64 14650	(K550)				<del>                                     </del>			3.
0.0	14200	14150	14150				14050	14050	14050	14000	13450							ľ
	13200	13200	13200	13150	13150	13100	13100	13100	13050	12650	11450				L			
	22	30	36	41	46	49	52	54	57	60	64	l vasanus						_
.5	AND DESCRIPTION OF THE PARTY OF				(2450) F(6900)			(12400) (141850)	1/1800	(12850) (11800)	12800			├──				3
	11100	11100	11100	11050	11050	11050	11000	11000	11000	10850	9900	9100			<u> </u>			
	(3.5)	19	28	35	40	44	47	50	53	57	61	63						
.0			10000		1		His care Construction	(10.60)					(.0550)					4
		273 254 245	0500	COURT CHARGE SALE	THE PROPERTY AND ADDRESS OF THE PARTY AND ADDR	WELLOWS N. PR. PR.	The second section of the second seco	0.450	WAR THE STREET	Belleville Belleville	300000000000000000000000000000000000000	3/10/100 8050	9400		<del></del>	<u> </u>	<b></b>	
	$\vdash\vdash\vdash$	9850	9500 18	9500 27	9500 34	9500 39	9450 43	9450 46	9450 49	9400 54	8750 58	61	63	<del></del>	<del> </del>	<b></b>		
.0		(0.0)		18600				(EE50)				0.60	8(50)	(200)	F/(38000)	\$400°		5
			9200	8100	7,850		7850	7850	7,850	<b>7800</b>	7800		7750	7,850	7900	7950		
			8550	7500	7250	7250	7250	7250	7250	7250	7050	6500	6100	5800	5600	5400		
.0	<del> </del>	<del> </del>	(4.4)	(4.9)	17 7/550	26 (67/50)	32	37 6600	40	46 (600)	51 6550	55	58 6550	61 6000	63 (57/00)	65 8750	(350)	6
.0	$\vdash$	<u> </u>			7200	6450	6250	6250	6250	6250	6250			/6300	6850	6450	64100	ľ
					6650	5950	5800	5800	5800	5800	5750	5450	5100	4850	4700	4550	4400	
					(5.4)	(5.9)	16	24	30	38	44	49	53	56	59	61	64	
.0					<del> </del>			55650 5250	5400 5150	5150	54(00) 51(50)	\$400 \$500	(54(00) (51(00)	※50 第5150	55550 5250	15600 15650	57/00 5400	7
					╁		5350	4850	4750	4750	4700	4700	4350	4200	4050	3950	3800	
					<del> </del>		(6.4)	(6.9)	15	29	37	42	47	51	54	57	60	l
									5050	4550	Contract of the contract of	4660			4(350)	47/5(0)		8
									4800	38-38-38-34-34-34-3	4300	4300	4300	4350	4400	4500	4600	
									4400. (7.4)	3950 14	3950 27	3950 35	3850 41	3650 45	3550 49	3450 52	3350 56	
									L	4250	3850		\$850	3930	4000	4050		9
										4000	3650	-November 1 - November 1	3650	7X1100-0-1100-1112	×3750.	3850	A3445 A1745 A174	
										3650	3300	3300	3300	3250	3150	3050	2950	
										(8.4)	14	26 3800	34 3800	39	44 3/450	47 3500	52 3600	10
											3400	3100	3100	3150	3250	3300	3400	1,
											3100	2800	2800	2900	2850	2750	2650	
											(9.4)	13	25	33	38	42	47	
												3(U0) 2950	2850 82700	27.50 27.50	2850	3((50) 22(00)	3(50)	1
ICH	RATED C	CAPACIT	γ									2650	2400	2500	2550	2500	2400	
	SINGLE			4200	,							(10.4)	13	24	32	37	43	
	TWO PA			8400											2000			12
	FOUR P			16800									2550 2250	A STORY THE REAL PROPERTY.	2450%	2550 2300	#2600 2200	
	SIX PAF	RIS		25000								<del> </del>	(11.4)	2150 12	2200 24	31	38	
													(11.7)		2800			13
TS:		IN DEG	REES											2250	2150	2250	2300	
	ANGLES													2000	1950	2000	2050	
-	LENGTH		2 A B A C									<b></b>		(12.4)	12	23 2400	32	14
-			CIVIO									$\vdash$		-	1850	1750	1850	12
-	LENGTH		CAIVIO									<del> </del>			(13.4)	12	25	
-	LENGTH	i Kilogf		0°	PITCH:	-2.3	ROLL:	-1.0							, , ,			
-	LENGTH LOAD IN 8250 7850	KILOGF	ARTIC: ARTIC:		PITCH:	-2.3	ROLL:	-3.0							(1017)	2000	(800)	15
-	LENGTH LOAD IN 8250 7850 7250	RC (6 RC (6 RC (6	ARTIC: ARTIC: ARTIC:	25° 40°		-2.3		-3.0							(1011)	2000 1650	1950 1650	15
-	LENGTH LOAD IN 8250 7850 7250	RC @ RC @ RC @ RC @ BOOI	ARTIC: ARTIC: ARTIC: ARTIC:	25° 40° :	PITCH: PITCH:	-2.3 -2.3	ROLL:	-3.0								2000	1950 1650 17	15
-	LENGTH LOAD IN 8250 7850 7250	RC @ RC @ RC @ RC @ BOOI	ARTIC: ARTIC: ARTIC: ARTIC:	25° 40° :	PITCH:	-2.3 -2.3	ROLL:	-3.0								2000 1650	1650 1650 17 (1800	15 <b>1</b> 5
-	LENGTH LOAD IN 8250 7850 7250	RC @ RC @ RC @ RC @ BOOI RADI	ARTIC: ARTIC: ARTIC: ANGLE JS AT ZE	25° 40° : ERO BOO	PITCH: PITCH:	-2.3 -2.3 .E	ROLL:	-3.0 -3.5							(1811)	2000 1650	1950 1650 17	

## **RATED CAPACITY CHART - RHINO HOOK**

COUNTERWEIGHT:

STANDARD

POSITION:

REAR OF CRANE

March	Rad				BOOM P	IVOT TO	HEAD S	HEAVES	- 3rd BC	ÖM RET	RACTED	)			3rd	BOOM	EXTEND	NG	Rad
1900   1900	T LEX	6.45	7.00	7.50				9.50	10.00	10.50	11.00	12.00	13.00	14.00	15.00	17.00	18.00	18.75	
Book   1980	1.4	¥(5000)	5000	<b>3</b> (5000)	1,5000	15000	45000												1.4
2.0   150																			
April	0.0							E E E E E E	#4 Enony				-						2.0
## 45 60   \$53   \$65   \$80   \$10   \$30   \$40   \$10   \$100	2.0	Service Control of th	MANAGEMENT STORY		the same about the party	CONTRACTOR DESIGNATION OF THE PERSON OF THE	Telegraphic or the second							-					2.0
Second   S																			
15000   1500	2.5		-		The second second second				THE PROPERTY OF THE PERSON NAMED IN										2.5
Signature   Sign		ASSESSMENT OF	295 (1967 TABLE 201	BUILDING P. INT. III	REACHT, TARREST OF	A I GREAT CHIEF.		re-gard come; t ac-	44-1-17-18-22-22	Part College State State	Section of the section of								
30					_					_									
Second   S	3.0											44800	-	***					3.0
Section   Sect	0.0		CANADA WARRENDA					model to security of the				-							
3.5   3.6		13350	13350	13300	13300	13250	13250												
## 17200 # 17250 # 17200 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 17150 # 17200 # 172													PENENT S						2.5
## 1799   1799   1790	3.5	2.4		N. Inches Laboratoria						ACCOUNTS OF THE PROPERTY.						_	<b> </b> -		3.5
4.0 (3.8) 29 38 41 45 48 51 53 58 65 58 61 64		7. C.S. M. D. S. L. P. MI	WITE TO VINE TO	OCCUPATION NAMED IN	and the same of the same of	WATER STREET	F201 RE-14-14-14			CONTRACTOR CONTRACTOR	,,					-			
4.0   16.85 a minima mi							_												
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5.0    4(4)   28   34   39   43   47   49   52   54   58   61   64   54   54   54   54   54   54   54			PACKAGE IN THE PACKAG	100000000000000000000000000000000000000			221220224311175733	4-7		m-14-14-14-14-14-14-14-14-14-14-14-14-14-	200			all and a second	ļ	<u> </u>			
5.0   186		$\vdash \vdash$														<u> </u>	<del> </del>		
	50		(4.4)						_						<b>28250</b>	8400			5.0
Record   1,400   1,400   1,400   1,350   1,3	0.0	$\vdash \vdash$				140440	NAME AND ADDRESS OF THE OWNER, OWNER,			CONTRACTOR OF THE PARTY OF THE		_				THE RESERVE OF THE PARTY OF THE			
6.0   6.60   5.90   6.0				709/07/89/20/39/30/30	13,000 O D O D D	7400	2-4 RIF28-1530 JEC-5-1		7350	7350	7300	7100	6600	6150	5800				
				(4.9)	(5.4)								_	THE RESIDENCE AND ADDRESS.					
Company   Comp	6.0						1300										and a security of the contract of	22002	6.0
T.O.    1						CANCAGO NAME	TIME CONTRACTOR OF THE PARTY OF	All the second second	Service and party balls	NO. 12 SERVICE STAND	305A-200	Charles on Samuel	WINDS AT ANGEST IN		PCP SPROQUETO DES	ALLOWING THE PROPERTY OF	2000000 1200000		
7.0				-			_								_				
March   Marc	7.0						10		5500	5500	5500	5500	5450	5450	5500	\$(35U	57(00)	19750	7.0
								6350	5200	5200	5200	Mary September 2000	110,400-190,000	142399/ASC - 42500	ARTERIA SANAGE TRA	A PRODUCTION OF THE	Carron Tomographics	PERFECAND. CONTRACT	
Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are representative of lifts based   Note:   Pitch & Roll angles indicated are repr				1									_						
Harmon   H							L	(6.9)	(7.4)										8.0
										AND DESCRIPTION OF THE PARTY AND DESCRIPTION				Matter School of the last				The second second	510
## 100   \$00										estange - and repair		ARTERIA P. S. PRILLERS		man to colour at the	,	3450			
UNITS:  - ANGLES IN DEGREES - LOAD IN KILOGRAMS - LOAD IN KILOGRAMS - LOAD IN KILOGRAMS - LOAD IN KILOGRAMS - RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0 REF. (12.4) 23 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 ROLL: -3.5 ROLL: -2.3 ROLL: -3.5 RO										(7.9)					77-17-1				
## 1750   3350   3400   3350   3300   3100   3000   2950					•											A PARAMETER			9.0
Ref.   14   27   34   40   48   51   53   53   53   53   53   53   53											1111071 1101191 3				A STATE OF THE PARTY OF THE PAR		F-8 0-10-10-19-2	Transfer and the	
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  KEY:  - RO @ ARTIC: 2° PITCH: -2.3 ROLL: -1.0  - RO @ ARTIC: 2° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 2° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 2° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 2° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 40° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 40° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 40° PITCH: -2.3 ROLL: -3.0  - RO @ ARTIC: 40° PITCH: -2.3 ROLL: -3.5  - BOOM ANGLE  - RADIUS AT ZERO BOOM ANGLE  - Note: Pitch & Roil angles indicated are representative of lifts based  - 1450  - 3150  - 2850 - 2900 - 2																			
## 150												37/00	3860	38(50)	3490	3500	3(600)	3050	10.0
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  KEY:  - ANGLES IN DEGREES - LOAD IN KILOGRAMS  - ANGLES IN COMPANIE - ANGLES IN DEGREES - LOAD IN KILOGRAMS  - ANGLES IN DEGREES - L												1300-1000-000-000			34652-23113				
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  - ANGLES IN DEGREES - LOAD IN KILOGRAMS  - ANGLES												20.41							
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  - LOAD IN KILOGRAMS  - RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0 (11.4) 22 28 ROLL: -3.5 BOOM ANGLE  - RADIUS AT ZERO BOOM ANGLE  - Note: Pitch & Roll angles indicated are representative of lifts based  - 1450 - 1600 - 2450 - 2450 - 2500 - 2450 - 2500 - 2450												(9.4)							11.0
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  - L																			
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  KEY:  - ARG. ARTIC: 0° PITCH: -2.3 ROLL: -1.0  - RC @ ARTIC: 25° PITCH: -2.3 ROLL: -3.0  - RC @ ARTIC: 25° PITCH: -2.3 ROLL: -3.0  - RC @ ARTIC: 40° PITCH: -2.3 ROLL: -3.5  - BOOM ANGLE  - RADIUS AT ZERO BOOM ANGLE  - Note: Pitch & Roll angles indicated are representative of lifts based  - 12.0  - 2300 2150 2300 2250 2200 2200  - 2400 2250 2250 2250 2250 2250 2250 2250														2450		<u> </u>			
UNITS: - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS													(10.4)						400
UNITS: - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS																			12.0
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  KEY:  - ANGLES IN DEGREES - LOAD IN KILOGRAMS  - LOAD IN KILOGRAMS												$\vdash$	$\vdash$	3237320000000					
UNITS:  - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 22 200 200 200 200 200 200 200 200 200																	36	39	
- ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 23 30 34  (12.4) 25 200 200 200 200 14.0  (12.4) 25 20 200 200 14.0  (12.4) 25 200 200 200 14.0  (12.4) 26 200 200 200 14.0  (12.4) 27 200 200 200 14.0  (12.4) 28 20 200 200 14.0  (12.4) 29 200 200 200 14.0  (12.4) 20 200 200 200 14.0  (12.4) 20 200 200 200 14.0  (12.4) 20 200 200 200 200 200 14.0  (12.4) 20 200 200 200 200 200 200 14.0  (12.4) 20 200 200 200 200 200 200 200 200 200	UNITS:																		13.0
LOAD IN KILOGRAMS  (12.4) 23 30 34  2000 2200 14.0  KEY:  RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0  (14.4) 22 28  7900 RC @ ARTIC: 2° PITCH: -2.3 ROLL: -3.0  5400 RC @ ARTIC: 40° PITCH: -2.3 ROLL: -3.5  BOOM ANGLE  (35.) RADIUS AT ZERO BOOM ANGLE  Note: Pitch & Roll angles indicated are representative of lifts based  (16.1) 14.0  (12.4) 23 30 34  14.0  (14.4) 22 28  15.0  16.00 1650  15.0  16.10  16.10															AME - AND ESTANCE	37120-2011-10-Cont	AND CO. SCHOOL STREET		
KEY:    1750   1850   1900   14.0	-												<del> </del>						
KEY:       1750 1850 1900         B800 RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0       (14.4) 22 28         37900 RC @ ARTIC: 25° PITCH: -2.3 ROLL: -3.0       15.0         5400 RC @ ARTIC: 40° PITCH: -2.3 ROLL: -3.5       1600 1650         65 BOOM ANGLE       (15.4) 20         Note: Pitch & Roll angles indicated are representative of lifts based       (16.1)	-	LUAD IN	N KILOGI	KANIS								<del></del>	<del>                                     </del>	<del> </del>	(14.4)				14.0
RC @ ARTIC: 0° PITCH: -2.3 ROLL: -1.0   (14.4) 22 28   (15.0)   RC @ ARTIC: 25° PITCH: -2.3 ROLL: -3.0   (16.0)   (16.	KEY:												<u> </u>						
7900   RC @ ARTIC: 25°   PITCH: -2.3   ROLL: -3.0   15.0		6/4(00)	RC @	ARTIC:	$0^{o}$	PITCH:	-2.3	ROLL:	-1.0										
65   BOOM ANGLE   (15.4)   20			RC @	ARTIC:	25°												Processing and Processing	a market of a side a superior and	15.0
(35.) RADIUS AT ZERO BOOM ANGLE 16.102  Note: Pitch & Roll angles indicated are representative of lifts based (16.1)						PITCH:	-2.3	ROLL:	-3.5				<u> </u>			<del> </del>			
Note: Pitch & Roll angles indicated are representative of lifts based 1450 (16.1)						אוריו	E						-	<del>                                     </del>		<del> </del>	1 (13.4)		16.104
Note: Pitch & Roil angles indicated are representative of lifts based (16.1)		(30.)	I KADI	uo AI Z	LINO BU	JIVI MINGI							$\vdash$	1			† ·		13.104
		Note:	Pitch	& Roll an	ngles indic	cated are	represen	tative of I	ifts based	I								(16.1)	
												12.00	13.00	14.00	15,00	17.00	18.00	18.75	

202

Duty:

#### **RATED CAPACITY CHART - FLYJIB**

COUNTERWEIGHT:

STANDARD

POSITION:

REAR OF CRANE

#### 205 Duty:

#### 206 Duty:

## FLYJIB at 0° OFFSET

Duty:

205

Rad	RC
	1600
6.1	1440
	65
	1500
7.8	1370
	60
	(0X0)
9.3	1220
	55
	1200
10.8	1080
	50
	10.00
12.2	1010
	45
	£70
13.5	900
	40
	£100)
14.7	840
	35
	850
15.7	800
	30
	800
16.6	750
	25
47.0	7/7()
17.3	730
	20
. 470	760 730
17.9	15
<u> </u>	
	7450

## FLYJIB at 12.5° OFFSET

Duty:

206

Rad	RC
6.6	1440
	65 (1500)
8.2	<b>1370</b> 60
9.8	1340 1220
11.2	55 1200 1080
	50 1080
12.6	<b>1010</b> 45
13.8	900 40
14.9	900 840
15.9	35 860 800 30
16.8	750 25
17.5	7770 730 20
18.0	760 730
18.4	7/50 720
18.6	7/50 720
18.7	720 0

#### NOTE:

- RATED CAPACITY IS BASED ON THE STRENGTH OF THE FLYJIB ALONE - RC IS THE SAME FOR ALL BOOM LENGTHS.

18.3

18.6

720 10

720

720

## UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

900

RC @ ARTIC: 0°

PITCH: -2.3 PITCH: -2.3

ROLL: -1.0

ROLL: -3.5

RC @ ARTIC: 40° Boom Angle

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

# RATED CAPACITY CHART

COUNTERWEIGHT:

STANDARD

POSITION:

REAR OF CRANE

Duty: 209

Duty: 210

## **MANBASKET**

Duty:

209

Rad	RC
6.0	275 275
	65 275
7.5	<b>275</b> 60
9.0	275 275
	55 127,5
10.3	<b>275</b> 50
11.6	275 275
, ((0	45 2765
12.8	<b>275</b>
13.8	275 275
1	35 275
14.7	<b>275</b> 30
15.5	275 275
	25 276
16.1	<b>275</b> 20
16.6	275 275
17.0	275 275
17.2	275 275
17.3	275 275

## **FIXED LUG (BUTT)**

Duty:

210

	r
Rad	RC
	25000
1.4	24400
	33
	24600
1.5	23950
	31
	24150
1.6	23500
	29
	20750
1.7	23050
	26
	23300
1.8	22050
	23.0
	22900
1.9	20800
	19,7
	22050
2.0	19600
	16
	200100
2.2	17850
	0

NOTE:

MANBASKET RATED CAPACITY INCLUDES ALL PERSONELL AND ALL EQUIPMENT.

UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

KEY:

275	_
275	٦
n	7

RC @ ARTIC: 40°

PITCH: -2.3

ROLL: -1.0

RC @ ARTIC: 40° PITCH: -2.3

ROLL: -3.5

0 Boom Angle

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

## **RATED CAPACITY CHART - LUG 1**

COUNTERWEIGHT: POSITION:

STANDARD **REAR OF CRANE**  Duty:

Rad	· ·			ВО	OM LENG	3TH				Rad
	5.36	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.46	
1,4	25000)	25000	24950	24850	247/50	24650	24600	28800		1.4
	24600	24450	24300	24200	24100	24000	23250	21350		
	42	49	53	56	59	61	63	65		
2.0	222550	22[50]	\$21900	\$21650	<b>\$2</b> (450)	2 300	21150	20300	19450	2.0
	20100	19750	19450	19250	19050	18900	18700	18600	17900	
	30	40	45	49	53	56	58	61	62	
2.5	17650	17350	717150	(16950)	16750	16600	16500	F16850	<b>3</b> (6250)	2.5
	16850	16550	16350	16150	46000	15850	15700	15600	15500	
	15700	15400	15200	15000	14850	14700	14550	14450	14300	
	16	31	38	43	48	51	54	56	59	
3.0	16000	(KHE)	13950	13800	13650	(3500)	¥13350)	43250	13150	3.0
	15300	13500	[13300]	131,50	13000	12850	12750	12600	12550	
	14250	12500	12350	12150	12000	11900	11750	11650	11550	
	(2.7)	20	30	37	42	46	49	52	55	
3.5		([28]-0]	11(650)	11(500)	11K00	1 (250)	XIII.50	41 <b>0</b> 50	(10950)	3.5
		11750	11100	10950	10850	10700	10600	10500	1,0400	
		10900	10250	10150	10000	9900	9750	9650	9600	
		(3.4)	19	29	35	40	44	48	50	
4.0			4108000	9800	9700	9600	9500	SX00	8600	4.0
			<b>49800</b> /	9300	9200	9100	9000	8900	8800	
			9050	8600	8500	8350	8250	8150	8100	
			(3.9)	19	28	34	39	43	46	
5.0				67/510	7/650	7200	7/150	7/05/0	7(000)	5.0
				8300	7150	6800	×6750	6650	6600	
				7650	6550	6250	6150	6100	6000	
				(4.4)	(4.9)	17	26	32	36	
6.0						(6650)	57.00	N5XE0	(200)	6.0
:						6150	5350	<b>35150</b>	25100	
:						5600	4850	4650	4600	
						(5.4)	(5.9)	16	24	
6.8								\$1000	4450	6.8
								4250	3750	
								(6.4)	(6.8)	
	5.36	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	

#### UNITS:

- ANGLES IN DEGREES
   LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

## **RATED CAPACITY CHART - LUG 2**

COUNTERWEIGHT: POSITION:

STANDARD REAR OF CRANE Duty: 212

₹ad						ВО	OM LENG	3TH						Rad
	5.57	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	11.00	12.00	13.00	13.77	
1.4	25000	25000	25000	25000	25000	25000	25000							1.4
	24650	24650	24650	24650	24650	24600	24600							1
	44	52	56	59	61	63	65							
2.0	22650	22650	22/650	22600	22600	222600	22550	22550	22550					2.0
	20250	20200	20200	20200	20150	20150	20150	20150	20100					]
	33	45	49	53	55	58	60	62	64					<u>L</u>
2.5	117/800	77800	17/600	47/800	£(77/50)	177/50	17/1/50		117750	(6850)				2.5
	17000	17000	17000	17000	17000	17000	16950	16950	16950	15700				1
	15850	15850	15850	15850	15850	15800	15800	15800	15800	14850				1
	22	38	43	47	51	54	56	58	60	64				<u></u>
3.0	(4950)	14550	[4550]	(14550)	(14550)	(4550)	[4550]	14500	(K.200)	[K/500)	141160			3.0
	14200	13900	13900	13900	13900	13900	13900	13900	13850	13850	13200			
	13200	12950	12950	12950	12950	12950	12900	12900	12900	12400	11250			1
	0	30	36	41	46	49	52	54	57	61	64			<u> </u>
3.5		1244.0	(12250)	(2250)	(2250)	(223)	[225]	((2250)	1255000	(22(0)	12200	[22(00)		3.5
		11700	11700	M1700.	311700	3117,007	#11700	11650	1.1650	410650	11650	11400		]
		10850	10850	10850	10850	10850	10850	10850	10850	10650	9750	8950		Ì
		19	28	35	40	44	48	50	53	57	61	63		
4.0		1.0900	(105110)	(0500)	1050	jusiu).	10500	105UD	10:00	40500	110500	(0450	[0.450]	4.0
		10400		10050	410050	10050	10050	10000	#10000	10000	\$1,0000	1,0000	*10000	
		9650	9300	9300	9300	9300	9300	9300	9300	9300	8550	7900	7500	
		(3.9)	18	27	34	39	43	46	49	54	58	61	63	
5.0			9250	(880)	8(050)	8.00	800	Sill	allon:	8100	8060	8080	8050	5.0
			9000	7900	7700	#7700	77700	2007	7700	77.00	1///00	7650	7650	
			8350	7300	7100	7100	7100	7100	7100	7100	6900	6400	6050	
			(4.4)	(4.9)	17	26	32	37	40	47	51	55	57	1
6.0	1		<u> </u>	` '	7400	(3600)	(6450)	(3450)	(3450)	(3450)	(2450)	(3450)	(F)(E)()	6.0
					7000	6300	(6150	6150	6150	6150	6150	6150	6150	1
					6500	5800	5650	5650	5650	5650	5650	5350	5050	1
					(5.4)	(5.9)	16	24	30	38	44	49	52	1
7.0	<u> </u>						\$950	<b>1 2 0 0 2</b>	5800	5800	5800	5800	-(5k(t))-	7.0
			i				5650	THE ACCUSAGE VALUE OF THE PARTY.	5000	5050	5050	5050	5050	
				<u> </u>			5200	4700	4600	4600	4600	4600	4350	1
			<u> </u>				(6.4)	(6.9)	15	29	37	43	46	1
				•					4950	4450	4850	4KP0	4K(20)	8.0
							1		4660	4200	4200	4200	4200	
									4250	3850	3850	3850	3800	1
									(7.4)	14	27	35	40	
										4150		3750	3750	9.0
										3900	#(8550) <del>*</del>	-3550	3550	]
										3550	3200	3250	3250	1
										(8.4)	14	26	32	]
												3200	\$250	10.
							T	1			3300	3000	3050	
											3000	2750	2750	] .
											(9.4)	13	23	L
							1			1	I	3(JF(I))	27(50)	11.
												2850		
												2550	2350	1
							<b>T</b>	İ		<b>1</b>		(10.4)	8	1
							T	<del> </del>	ì	<b>†</b>	i	<u> </u>	- 27(010)	11.
							<del> </del>	i	1				2550	
						1	<b>—</b>	l	<del> </del>		$\overline{}$		2250	1
							<del>                                     </del>	<b></b>	<del>                                     </del>	· · · · ·	<del>                                     </del>	i	(11.1)	1
						8.50	9.00	9.50	10.00	11.00	12.00	13.00	13.77	

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

8050 7700 6900	RC @ ARTIC; 0° RC @ ARTIC; 25° RC @ ARTIC; 40°	PITCH: -2.3 PITCH: -2.3 PITCH: -2.3	ROLL: -1.0 ROLL: -3.0 ROLL: -3.5
51	BOOM ANGLE		
(5.4)	RADIUS AT ZERO B	OOM ANGLE	

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

## **RATED CAPACITY CHART - FALL BLOCK**

COUNTERWEIGHT: POSITION:

STANDARD + EXTRA (SL) REAR OF CRANE Duty: 301

				_				- 3rd BC								EXTEND		Ra
	6.12	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	11.00	12,00	13.00	14.00	15.00	16.00	17.00	18.42	ļ .
1.4		(American States )	2450000			A A			<u> </u>	<u> </u>							ļ	1.4
	25000	25000	25000	25000	24550	24000	23600		├				<del>                                     </del>			├		ł
η Δ	49	52	56	58	61	63	65	72250	22200	<del> </del>			<del> </del>			<del> </del>	<del> </del>	2,0
2.0	23350 22550	23300 22500	23300 22500	23300 22500	23250 22450	23250 22450	23250 22450	23250 22400	23200 22400							<del> </del>		4.1
	41	45	49	52	55	58	60	62	64		<del></del>		┢──			<del></del>		1
2.5			221450							19100						<del>                                     </del>		2.
	20550	20500		The State of the State of Stat	20450	20400		20350		177/50								1 -
	19100	19050	19050	19000	19000	18950	18950	18900	17950	15900								1
	33	38	43	47	51	54	56	58	60	64								1
3.0	\$17,650	17650	17(00)	317600	17,600	17/300	(7550)	17/550	(17/500)	\$17500	14550							3.
	16850	16850		16800	16800	167,50	16750	16750	16700	16350	13450							]
	15650	15650	15650	15600	15600	15550	15550	15550	14900	13350	12100							1
	22_	30	36	41	46	49	52	54	57	60	64							<u> </u>
3.5			14900		[2850]	CUT THE PROPERTY OF THE PARTY.		148001	4	1/48/00	48450	THE PERSON NAMED IN COLUMN				L		3.
	7375.71	14200		4200	14200	THE PERSON NAMED IN		¥14150°			12450	207-1-1-1						4
	13200	13200	13200	13150	13150	13150	13100	13100	12750	11500	10500	9650	<u> </u>		<del></del>			
	(3.5)	19	28	35	40	44	47	50	53	57	61	63	### CV000					4.
1.0			12(350)	CONTRACTOR OF THE PARTY OF THE	A NAME OF THE PARTY OF THE PART	12200		12800				(1)(600) (10850)	a10200		-	-	1	┨ ⁴ॱ
		11750	12250 11350	11350	12200	11300	11300	11300	112(50) 11150	\$12150 10050	9250	8550	10050			_		┨
		(3.9)	18	27	34	39	43	46	49	54	58	61	63			<del>                                     </del>	<del> </del>	1
i.0	<u> </u>	(3.0)	MINE 00			9950	.9950	9950			9900			9200	8950	67/00×		5
,,,		_	11050			9450	and the second second	9450		9400		9400	9000	8600	38200	7950		1 ຶ
	<b></b>		10200	9000	8750	8750	8750	8750	8700	8100	7450	6900	6450	6150	5950	5750		1
			(4.4)	(4.9)	17	26	32	37	40	46	51	55	58	61	63	65		1
1.0			<u> </u>		9150	(9200)	8000	8000	8000	8000	£(0)000	7/950	7/250	8000	UE00	7/6000	(6930)	6.
					98700€	7800	7,600	7600	7/600P	表7,600	7600	7550	7,550	7550	7300	<b>7100</b> ±	6400	1
					8000	7200	7000	7000	7000	6850	6250	5800	5400	5200	5000	4850	· 4650	1
					(5.4)	(5.9)	16	24	30	38	44	49	53	56	59	61	64	<u> </u>
.0							76,150	6800		(6650)			6600	(5(510)	37500-H. J. R. GER CO.		E(400)	7.
							7050	6450	6300	6300	6300	6250	6250	6300	6400	6400	FIRST CONTRACTOR	4
	<u> </u>						6500	5900	5800	5800	5400	-5000	4650	4450	4300	4200	4050	
	<u> L</u>	<u> </u>					(6.4)	(6.9)	15	29	37	42	47	51	54	57	60	
									6/200		5600	Marketon exploration in	5600	5650	67/50	5800	(5800)	8.
									5400	\$5300 4850	5300	5300 4400	5300 4100	5350	5450	5500	5550	
											4850	_		3900	3800	3700	3550	-
									(7.4)	14	27	35	41	45	49	52	56	1 0
										14 5250	27 4800	35 4800	41 4800	45 4850	49 4950	52 (5000)	56 5100	9.
										14 5250 5000	27 4800 4550	35 4800 4550	41 4800 4550	45 4850 4600	49 4950 4650	52 (5000) 4750	56 55 (0.0) 4800	9.
										14 5250 5000 4550	27 4800 4550 4150	35 4800 4550 4000	41 4800 4550 3650	45 4850 4600 3500	49 4950 4650 3350	52 (5000) (47/50) 3300	56 5100 4800 3150	9
										14 5250 5000	27 4800 4550 4150 14	35 4800 4550 4000 26	41 4550 3650 34	45 4850 4600 3500 39	49 4950 4650 3350 44	52 (5000) 4750 3300 47	56 5100 4800 3150 52	
										14 5250 5000 4550	27 4800 4550 4150 14	35 4800 4550 4000 26 44150	41 4800 4550 3650	45 4850 4600 3500	49 4950 4650 3350 44	52 \$5000 \$47/50 3300 47 4850	56 5100 4800 3150 52	
										14 5250 5000 4550	27 4800 4550 4150 14 4550	35 4800 4550 4000 26 44150	41 4800 4550 3650 34 4150	45 4850 4600 3500 39 4200	49 4950 4650 3350 44 4800	52 \$5000 \$47/50 3300 47 4850	56 5100 4800 3150 52 4/150	
										14 5250 5000 4550	27 4800 4550 4150 14 4550 4500	35 4800 4550 4000 26 44150 3900 3550 13	41 4800 3650 3650 34 44(50) 3900 3350 25	45 4850 4800 3500 39 42200 4000 3150 33	49 4950 4650 3350 44 4300 4050 3050 38	52 5000 37/50 3300 47 4850 41/50 2950 42	56 55[00] 4800 3150 52 44450 4200 2850 47	10
										14 5250 5000 4550	27 4800 4550 4150 14 4350 4300 3900	35 4500 4000 26 4150 3900 3550 13	41 4800 4550 3650 34 4450 3900 3350 25	45 4850 4600 3500 39 4200 4000 3150 33	49 4950 34650 3350 44 4300 4050 3050 38 8800	52 50000 27/506 3300 47 4860 2950 42 8880	56 5100 4800 3150 52 4450 2200 2850 47	10
										14 5250 5000 4550	27 4800 4550 4150 14 4350 4300 3900	35 4800 4550 4000 26 44150 3900 3550 13	41 4800 3650 3650 34 4160 3900 3350 25 3650 3400	45 4650 3500 39 4200 4000 3150 33 3700 3500	49 4950, 4650 3350 44 4300, 4050 3050 38 3800, 3550	52 5000 27/50/ 3300 47 (4850 4150 2950 42 3880 3650	56 5100 4800 3150 52 4750 4200 2850 47 3050 3700	10
КСН	RATED (	CAPACIT	<b>Y</b>							14 5250 5000 4550	27 4800 4550 4150 14 4350 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4150 3900 3350 25 6650 3400 3050	45 4600 3500 39 4200 4000 3150 33 3700 2900	49 4950 4650 3350 44 2800 4050 3050 38 8800 3550 2800	52 \$5000 \$47,50 3300 47 (4850 2950 42 3880 3650 2700	56 5100 4800 3150 52 4/50 4200 2850 47 3330 3700 2600	10
Ю́СН	SINGLE	PART	·Y	4200						14 5250 5000 4550	27 4800 4550 4150 14 4350 4300 3900	35 24800 4450 4000 26 24150 3900 3550 13 3950 3700	41 4800 4550 3650 34 4150 3900 3350 25 3650 3400 3050 13	45 4850 3500 39 44200 3150 33 3700 3500 2900 24	49 4950 4650 3350 44 2800 3050 38 8800 3550 2800 32	52 5000 37/50 3300 47 (1950 2950 42 3880 3650 2700 37	56 5100 4800 3150 52 4/50 4200 2850 47 3630 3700 2600 43	10
ІСН	SINGLE TWO PA	PART ARTS	·Y	8400						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4450 3900 3350 25 6650 3400 3050 13	45 4850 3850 39 4200 3150 3150 33 3,000 2900 24 3250	49 4950 4650 3350 44 2800 4050 3050 38 2800 2800 32 3050	52 5000 2750 3300 47 4850 4450 2950 42 3650 2700 37	56 2 5(90) 4800 3150 52 4450 4200 2850 47 3350 3700 2600 43	11
ІСН	SINGLE TWO PA FOUR F	PART ARTS PARTS	·Y	8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 3650 3650 34 4450 3900 3350 25 3650 3400 3050 13	45 4850 3600 3500 39 4200 4000 3150 33 6700 2900 24 3250 3050	49 4950 4650 3350 44 2800 4050 3050 38 8800 2800 32 3650 3150	52 \$5000 \$4750 3300 47 44850 4450 2950 42 8800 3650 2700 37 \$400 \$3200	56 2 5(90) 4800 3150 52 4450 4200 2850 47 3350 2600 43 3600 3300	11
ІСН	SINGLE TWO PA	PART ARTS PARTS	Y	8400						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4850 34600 3500 39 42200 4000 3150 33 6,000 2900 24 3250 3050 2650	49 4950, 4650 3350 44 43800 3050 3050 38800 2800 32 3850 3150 2550	52 \$0000 \$4750 3300 47 4350 2950 42 3880 2700 37 \$600 2700 37 \$600 2500	56 5100 4800 3150 52 6/450 4200 2850 47 3080 2600 43 3500 3300 2350	11
	SINGLE TWO PA FOUR F	PART ARTS PARTS	·Y	8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 3650 3650 34 4450 3900 3350 25 3650 3400 3050 13	45 4850 3500 3500 39 4000 3150 33 3,000 2900 24 3250 3050 2650 12	49 4950, 4650 3350 44 2800 4050 3050 38 8800 2550 2800 32 3650 32 3650 2550 24	52 5000 47/50 3300 47 4560 41/50 2950 42 3850 3650 37 3/00 3200 2500 31	56 5100 4800 3150 52 4450 2850 47 3950 3700 43 3500 3300 2350 38	111
TS:	SINGLE TWO PA FOUR F SIX PAI	PART ARTS PARTS RTS		8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3500 39 44000 3150 3150 3500 2900 24 3250 3650 12	49 4950, 4650 3350 44 4050 3050 38 3800 3550 2800 32 3350 2550 24	52 5000 47,50 3300 47 (1550 4150 2950 42 3350 3650 2700 37 3400 3200 2500 31	56 5100 4800 3150 52 4750 2850 47 3950 2600 43 3300 2350 38 3100	111
TS:	SINGLE TWO PA FOUR F SIX PAI	PART ARTS PARTS RTS	REES	8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3500 39 44000 3150 33 3,000 2900 24 3,550 2650 12 3,000 2900	49 4950, 4650 3350 44 4800 3050 38 3800 3550 2800 32 3850 3150 24 2950 2800 2800	52 5000 47,50 3300 47 4850 4150 2950 42 3850 2700 37 5400 3200 2500 31	56 5100 4800 3150 52 4750 2850 47 3950 2600 43 3500 3300 3300 3300 3300 38 3100 3950	11
TS:	SINGLE TWO PA FOUR F SIX PAI ANGLES LENGTH	E PART ARTS PARTS RTS B IN DEG	REES	8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3600 2900 24 3250 2600 2900 2200 20	49 4950, 4650 3350 44 4800, 4050, 3050 38 3800, 3550, 2800 32 3550, 2800 2250 24 2950, 2400	52 5000 47,50 3300 47 4850 4150 2950 42 3850 2700 37 3(00) 3200 2500 2500 2100 31 3050 2300 2300 2300 2300	56 \$5000 4800 3150 52 4450 4200 2850 47 3950 2600 43 \$500 3300 2350 3300 2350 3300 2250 3300 2250 2200	111
TS:	SINGLE TWO PA FOUR F SIX PAI	E PART ARTS PARTS RTS B IN DEG	REES	8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3500 39 44000 3150 33 3,000 2900 24 3,550 2650 12 3,000 2900	49 4950, 4650 3350 44 2800, 4050, 3050 3050 2800 32 8350, 2800 3150, 2550 2400 2400	52 5000 47,50 3300 47 4850 4150 2950 42 3880 2700 37 3400 3200 250 250 2700 37 3200 250 2300 2300 2300 2300 2300	56 \$5100 4800 3150 52 4450 4200 2850 47 3380 2600 43 4500 3300 2350 3380 2350 3300 2350 3300 2350 3300 2350 3300 2350 3300 2350 3300 3000 3	111
TS: - -	SINGLE TWO PA FOUR F SIX PAI ANGLES LENGTH	E PART ARTS PARTS RTS B IN DEG	REES	8400 16800						14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3600 2900 24 3250 2600 2900 2200 20	49 4950, 4650 3350 44 2800, 4050, 3050 3350 2800 32 5350, 2800 3150, 2550 2400 12	52 5000 47,50 3300 47 4850 4150 2950 42 3880 2700 37 3400 3200 2500 2100 2300 2300 2300	56 \$5100 4800 3150 52 4450 4200 2850 47 3380 2600 43 43 4500 3300 2350 3380 2250 3380 2250 3380 2350 3380 2350 3380 2350 3380 2350 338	111
ITS:	SINGLE TWO P. FOUR F SIX PAI ANGLES LENGTH LOAD IN	E PART ARTS PARTS RTS S IN DEG HS IN ME	GREES ETRES RAMS	8400 16800 25000		22	DOI!	10		14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3600 2900 24 3250 2600 2900 2200 20	49 4950, 4650 3350 44 4800 4050 3050 3050 2800 32 6650 3150 2550 24 29502 2400 12	52 50000 47,50 3300 47 4850 4150 2950 2700 37 5000 3200 2500 2500 31 3050 2200 2500 23 2000 23	56 \$5100 4800 3150 52 4450 4200 2850 47 \$3800 2600 43 \$500 3300 2350 38 \$100 2250 32 2800 200 200 200 200 200 200 2	111
TS:	SINGLE TWO PA FOUR F SIX PAI ANGLES LENGTH LOAD IN	E PART ARTS PARTS RTS S IN DEG HS IN ME KILOGF	REES TRES RAMS	8400 16800 25000	PITCH:		ROLL:			14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3700 2900 24 3250 2600 2600	49 4950, 4650 3350 44 2800, 4050, 3050 3350 2800 32 3550, 2800 3150, 2550 2400 12	52 \$5000 \$4750 3300 47 \$4860 \$4150 2950 42 \$880 2700 37 \$400 \$3200 2500 31 \$3000 2500 2300 2300 2300 230 2150 12	56 \$5100 4800 3150 52 \$4150 4200 2850 47 30500 2800 43 3500 2350 38 \$3100 2250 32 2200 2250 2250 2250 2250	111
TS:	SINGLE TWO PA FOUR F SIX PAI ANGLES LENGTH LOAD IN	E PART ARTS PARTS RTS S IN DEG HS IN ME KILOGH RC @ RC @	REES TRES RAMS ARTIC:	8400 16800 25000 0° 25°	PITCH: PITCH:	-2.3	ROLL:	-3.0		14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3700 2900 24 3250 2600 2600	49 4950, 4650 3350 44 4800 4050 3050 3050 2800 32 6650 3150 2550 24 29502 2400 12	52 \$5000 \$4750 3300 47 \$4860 \$4150 2950 42 \$880 \$3650 2700 37 \$400 \$3200 2500 31 \$800 \$2500 2150 2350 2300 235	56 \$5100 4800 3150 52 \$4150 4200 2850 47 30500 2800 43 3500 2350 38 \$3100 2250 32 2200 2250 2250 2250 2250 2250 2250 2250	111
ITS:	SINGLE TWO P. FOUR F SIX PAI ANGLES LENGTH LOAD IN	E PART ARTS PARTS RTS S IN DEG HS IN ME KILOGH RC @ RC @ RC @	REES ETRES RAMS ARTIC: ARTIC:	8400 16800 25000 0° 25° 40°	PITCH:	-2.3		-3.0		14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3700 2900 24 3250 2600 2600	49 4950, 4650 3350 44 4800 4050 3050 3050 2800 32 6650 3150 2550 24 29502 2400 12	52 \$5000 \$4750 3300 47 4860 2950 42 8880 3650 2700 3200 2500 31 3050 2850 2300 2300 2300 2300 2300 2300 2300 2150 12	56 \$5100 4800 3150 52 \$4150 4200 2850 47 3050 2600 43 3500 2350 38 \$100 2250 2200 2250 2200 2250 2250 2250 2250 2250 2250 21	111
ITS:	SINGLE TWO PA FOUR F SIX PAI ANGLES LENGTH LOAD IN	E PART ARTS PARTS RTS S IN DEG HS IN ME H KILOGH RC @ RC @ RC @ BOOI	REES ETRES RAMS ARTIC: ARTIC: ARTIC: ARTIC:	8400 16800 25000 0° 25° 40°	PITCH: PITCH: PITCH:	-2.3 -2.3	ROLL:	-3.0		14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3700 2900 24 3250 2600 2600	49 4950, 4650 3350 44 4800 4050 3050 3050 2800 32 6650 3150 2550 24 29502 2400 12	52 \$5000 \$4750 3300 47 \$4860 \$4150 2950 42 \$880 \$3650 2700 37 \$400 \$3200 2500 31 \$800 \$2500 2150 2350 2300 235	56 5100 4800 3150 52 4750 2850 47 3950 2600 43 3500 3300 2300 2300 2200 32 2500 2000 17	10 11 12 13
ITS:	SINGLE TWO P. FOUR F SIX PAI ANGLES LENGTH LOAD IN	E PART ARTS PARTS RTS S IN DEG HS IN ME H KILOGH RC @ RC @ RC @ BOOI	REES ETRES RAMS ARTIC: ARTIC:	8400 16800 25000 0° 25° 40°	PITCH: PITCH: PITCH:	-2.3 -2.3	ROLL:	-3.0		14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3700 2900 24 3250 2600 2600	49 4950, 4650 3350 44 4800 4050 3050 3050 2800 32 6650 3150 2550 24 29502 2400 12	52 \$5000 \$4750 3300 47 4860 2950 42 8880 3650 2700 3200 2500 31 3050 2850 2300 2300 2300 2300 2300 2300 2300 2150 12	56 5100 4800 3150 52 4750 2850 47 3950 2600 43 3500 3300 2300 2950 2200 32 2200 250 250 250 250 250 250 2	110 111 12 13
TS:	SINGLE TWO PA FOUR F SIX PAI ANGLES LENGTH LOAD IN	PARTS PARTS RTS S IN DEG HS IN ME KILOGH RC @ RC @ BOOH RADI	REES ETRES RAMS ARTIC: ARTIC: ARTIC: ARTIC:	8400 16800 25000 0° 25° 40° ERO BOO	PITCH: PITCH: PITCH: DM ANGL	-2.3 -2.3 .E	ROLL: ROLL:	-3.0 -3.5	(7.4)	14 5250 5000 4550	27 4800 4550 4150 14 4550 4300 3900	35 4800 4550 4000 26 4150 3900 3550 13 3950 3700 3350	41 4800 4550 3650 34 4350 3900 3350 25 3650 3050 13 2450 2250 2900	45 4650 3600 39 4200 3150 33 3700 2900 24 3250 2600 2600	49 4950, 4650 3350 44 4800 4050 3050 3050 2800 32 6650 3150 2550 24 29502 2400 12	52 \$5000 \$4750 3300 47 4860 2950 42 8880 3650 2700 3200 2500 31 3050 2850 2300 2300 2300 2300 2300 2300 2300 2150 12	56 5100 4800 3150 52 4750 2850 47 3950 2600 43 3500 3300 2300 2300 2200 32 2500 2000 17	12

# **RATED CAPACITY CHART - RHINO HOOK**

COUNTERWEIGHT:

STANDARD + EXTRA (SL)

POSITION:

REAR OF CRANE

### 1990   1990	Rad				BOOM P	IVOT TO	HEAD S	HEAVES	- 3rd BC	OM RET	RACTED	)			3rd	BOOM	EXTEND	NG	Ra
### 1990   1990								9.50	10.00	10.50	11.00	12.00	13.00	14.00	15.00	17.00	18.00	18.75	
Second Bridger   1500	1.4	15000	(5000)	(5000)	15000	\$15000	15000												1.4
15000   1500		52	56	59	61	64	65												
45 50 53 58 58 61 63 64 4 50 50 50 50 50 50 50 50 50 50 50 50 50	.0	(15000)	(5000)	ME000)	1,6000	#16000	15000	46000	\$15000										2.
Section   Sect		15000	15000	15000	15000	15000	15000	15000	15000										
Section   1900		45	50																
15000   1500	2.5	15000	15000	15000	445000	16000	<b>ALOOO</b>	45000	45000	15000	450001								2,
BB   44   45   51   54   57   59   61   63   64   57   59   61   63   64   54   57   59   61   63   64   54   57   59   61   63   64   54   55   64   64   54   55   64   64		15000	15000	15000	15000.	15000	15000	15000	15000	15000	15000							$oxed{oxed}$	
Seption   Sept		15000	15000	15000	15000	15000	15000	15000	15000	15000	15000								
\$5000, \$1500, \$15000,		38	44	48	51	54													
\$5000   1500	3.0	15000	15000	45000	(15000)	15000	45000	15000	15000	15000									3.
193   37   42   46   49   52   55   57   59   61   64   64   64   64   64   64   64		<15000;	15000	15000	15000	-15000	£15000	15000	15000	15000	15000	13300							
1450  1450		15000	15000	15000	15000	15000	15000	15000	15000	14200	13450	12200							
\$3.550   1.4350   1.4		29	37	42	46	49													_
13390 13390 13390 13390 13290	3.5	4(E000)	15000	4K000	15000	15000	14910	(4950)	14900	[4800]	[4900]	165(00)	12850						3.
(2.8) 73 56 41 45 48 65 15 53 56 58 58 61 54 64 50 51 53 56 58 57 51 51 51 51 51 51 51 51 51 51 51 51 51		14350	4350	14350	14300	14300	14250	14250	414250	14200	14200	12350	1,1550						ı
## 2550   16350   1625		13350	13350	13300	13300	13250	13250	13200	12850	12200	11600	10600	9750						ļ
11450   1145		(3.8)	29	36	41	45						61	64						Щ
11450	.0		(2950)	12850	(128E(1)	F12950)													4.
(4.4) 25 34 39 43 47 49 52 52 54 58 61 64 64 64 64 64 64 64 64 64 64 64 64 64			12350	12350	12850	2350	12300	12300		APPRICAL APPRICATION		The Control of the Co	1,-2-2may/14112/04	100 100 100 100 100 100 100 100 100 100		<u> </u>	<b></b>	<u> </u>	l
10860   1006			11450	11450	11450	11400	11400	11400	11250	10700	10200	9300		9750					
\$1,000   \$			(4.4)	28	34	39													L_
9400   8850   8850   8850   8850   8850   8800   8800   8800   8800   8200   7550   7500   7550	0.0			(0860)	10050	10050	4(0)0(50)	10050				7000			-	100			5
(4.9)   (5.4)   26   32   37   41   44   47   52   55   58   61   65				9850	49550	9550	9550	9550	9550	9500	95009	9500	9450		Marie Contract Contra	Section of the second			
1,00   1,00				9100	8850	8850	8850	8800	8800	8600	8200	7550	7000	6550		_			
				(4.9)	(5.4)							52			7			1400400400	L.
	.0				Ī	88(10)	ENDO	8(00)	8100	8(00)	3100	100-10	<b>28050</b>	<b>28050</b> 1	7,950				6
(5.9)						7900	7700	7700	7700	7700	77700	7650	7650	7650	7500	7000	6850	6300	
						7300	7100	7100	7100	7100	6900	6350	5850	5500	5200	4900	4750	4650	1
						(5.9)	(6.4)	25	31	35	39	45	49	53	56	61	63	65	
	'.O	$\vdash$				<del></del>		6850	67/00	(G7/00)	6700	(FAM)	(700)	6650	6700	(67/00)	6550	(GE(II))	7
(6.9) (7.4) 23 29 37 43 47 51 57 59 61 61 6600 85600 8	,-							6500	-6350	6350	6950	.6350	46350	6300	6350	6300	6150	5850	
SB00   1590   2690		$\vdash$						6000	5850	5850	5850	5500	5050	4700	4500	4200	4100	4050	]
Sign   15350   15350   15350   15350   15550								(6.9)	(7.4)	23	29	37	43	47	51	57	59	61	<u> </u>
Solid   Soli					•				1	5800	5650	5650	5(650)	<b>E</b> 5650	5550	5800	5900	5750	8
(7.9) 15 28 35 41 46 52 55 57    \$6500   \$6500   \$6500   \$6500   \$5000   \$5100   \$61500   \$61500   \$6500   \$60000   \$6000   \$6000   \$6000   \$6000   \$60000   \$6000   \$60000										5450	\$5350°	5350	5350	/5350/	5350	\$5500	5550	5450	]
\$600   \$6										5000	4900	4900	4500	4150	3950	3700	3600	3550	]
\$5050    \$4600    \$4600    \$4600    \$4500    \$3750    \$4900    \$4850    \$4850    \$4600    \$400    \$4100    \$3700    \$3500    \$3300    \$3200    \$3150    \$150										(7.9)	15	28	35	41	46	52	55	57	]
4600   4200   4100   3700   3500   3300   3200   3150     (8.4)   14   27   34   40   48   51   53     (4600   4700   4700   4700   4700   4700   4700   4750   4700   4750     (4700   3850   3950   3950   3950   3400   3150   2950   2900   2850     (9.4)   14   26   33   43   46   48     (400   3700   3700   3700   3850   3950   3950   3950     (9.4)   14   26   33   43   46   48     (400   3700   3700   3700   3850   3700   3700   3850     (10.4)   13   25   37   41   44     (10.4)   13   25   37   41   44     (10.4)   13   25   37   41   44     (10.4)   13   25   37   41   44     (10.4)   13   25   37   41   44     (10.4)   13   31   36   39     (11.4)   13   31   36   39     (11.4)   13   31   36   39     (11.4)   13   31   36   39     (11.4)   13   31   36   39     (11.4)   23   30   34     (11.4)   23   30   34     (11.4)   23   30   34     (11.4)   22   28     (11.4)   22   28     (11.4)   22   28     (11.4)   22   28     (11.4)   22   28     (11.4)   22   28     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20   20     (11.4)   20   20     (11.4)   20   20   20     (11.4)   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20     (11.4)   20   20   20     (11.4)   20   20   20   20     (11.4)   20   20   20   20     (11.4)   20   20   20   20   20     (11.4)   20   20   20   20   20     (11.4)   20   20   20   20   20     (11.4)   20   20   20   20   20     (11.											55650	4850	4850	4850	4900	5000	500	5160	9
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3950 3950 3950 3950 3950 3950 3950 3950												14	27	34	40	48	51	53	1
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(9.4)   14   26   33   43   46   48												All more than the second of the			Company of the second			4250	1
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2000   3700   3700   3700   3900   3950   1   3760   3450   3650   3700   39750   3400   3100   2900   2700   2650   2600   (10.4)   13   25   37   41   44   44   3600   3200   3300																			1
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(11.4)   13   31   36   39													-	Y-802010-000-004-00	A Control of the Control	WILL LEAVE A 124			4
SE SANGLES IN DEGREES - ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS - LO												I	l	2950	<b>1</b> 2700	1 ZOUU	<b>Z4</b> UU		ı
- ANGLES IN DEGREES - LENGTHS IN METRES - LOAD IN KILOGRAMS - LOAD															-				
- LENGTHS IN METRES - LOAD IN KILOGRAMS - 2650 2300 2250 2200 - 1 2200 2300 2250 2200 2250 2200 2250 2200 2250 2200 2250 2200 2250 2200 2250 2200 2250	ITO.														13	31	36	39	1:
- LOAD IN KILOGRAMS  - LOAD IN			2 IN DEC	DETTO											13 33(00)	31 3080	36 3(00)	39 3150	
200   2800   2	-	ANGLES													13 \$ [00] 2900	31 8050 2850	36 3(00) 2950	39 3(50) 2950	
2150 2100 2050	-	ANGLES LENGTH	HS IN ME	TRES											13 (3) (00) 2900) <b>26</b> 50	31 3050 2860 2300	36 3000 2950 2250	39 23(50) 2950 2200	
30508   RC @ ARTIC: 0°   PITCH: -2.3   ROLL: -1.0   (14.4)   22   28     37900   RC @ ARTIC: 25°   PITCH: -2.3   ROLL: -3.0   (15.4)   20   2500   1   2500   20   20   20   20   20   20	-	ANGLES LENGTH	HS IN ME	TRES											13 (3) (00) 2900) <b>26</b> 50	31 28050 2860 2300 23	36 3100 2950 2250 30	39 23(50) 2950 2200 34	
Total   Tota	-	ANGLES LENGTH	HS IN ME	TRES											13 (3) (00) 2900) <b>26</b> 50	31 \$6050 \$2850 2300 23 \$2600	36 3100 2950 2250 30 2800	39 23(50) 2950 2200 34 2350	
5750         RC @ ARTIC: 40°         PITCH: -2.3         ROLL: -3.5         1950         1900           65         BOOM ANG! F         (15.4)         20	-	ANGLES LENGTH LOAD IN	HS IN ME N KILOGI	TRES RAMS											13 (3) (00) 2900) <b>26</b> 50	31 8080 2860 2300 23 2700 2150	36 31(00) 2950 2250 30 28(00) 2100	39 2950 2200 34 2850 2050	
65 ROOM ANGLE (15.4) 20	-	ANGLES LENGTH LOAD IN	HS IN ME N KILOGI RC @	TRES RAMS DARTIC:											13 (3) (00) 2900) <b>26</b> 50	31 8080 2860 2300 23 2700 2150	36 31(00) 2950 2250 30 2800 2100 22	39 2950 2200 34 2850 2050 28	14
	-	ANGLES LENGTH LOAD IN	HS IN ME N KILOGI RC @ RC @	TRES RAMS  ARTIC: ARTIC:	25°	PITCH:	-2.3	ROLL:	-3.0						13 (3) (00) 2900) <b>26</b> 50	31 8080 2860 2300 23 2700 2150	36 3100 2950 2250 30 2800 2100 22 2500	39 2950/ 2290 34 2850 2050 28	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	ANGLES LENGTH LOAD IN	HS IN ME N KILOGI RC @ RC @	TRES RAMS  ARTIC: ARTIC:	25°	PITCH:	-2.3	ROLL:	-3.0						13 (3) (00) 2900) <b>26</b> 50	31 8080 2860 2300 23 2700 2150	36 3100 2950 2250 30 2800 2100 22 2500 1950	39 29502 2200 34 2850 2050 28 2850 1900	14

7900 5750	RC @ ARTIC: 0° RC @ ARTIC: 25° RC @ ARTIC: 40°	PITCH: -2.3 PITCH: -2.3 PITCH: -2.3	ROLL: -1.0 ROLL: -3.0 ROLL: -3.5
65 (35.)	BOOM ANGLE RADIUS AT ZERO B	OOM ANGLE	

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

1800 (16.1)

302

Duty:

## **RATED CAPACITY CHART - FLYJIB**

COUNTERWEIGHT:

STANDARD + EXTRA (SL)

POSITION:

**REAR OF CRANE** 

305 Duty:

306 Duty:

# FLYJIB at 0° OFFSET

Duty:

305

Rad	RC
6.1	1440
	65
7.8	1500 A
, , ,	60
	1040
9,3	1220

15.7 800 30  $\{(0,0)\}$ 16.6 750. 25 70(0) 17.3 730

10

720

18.7 720

18.6

# FLYJIB at 12.5° OFFSET

Duty:

306

Rad	RC
6.6	1440
8.2	65 <b>1500</b> <b>1370</b>
9.8	60 (340) 1220
11.2	55 (200 1080
12.6	50 1080 1010
13.8	45 970 <b>900</b>
14.9	40 900 <b>840</b>
15.9	35 850 <b>800</b>
16.8	30 <b>800</b> <b>750</b>
17.5	25 4770 <b>730</b>
18.0	20 7/60 <b>730</b>
18.4	15 7/50 <b>720</b>
18.6	10 750 <b>720</b>
18.7	5 7/50 720
	0

## NOTE:

- RATED CAPACITY IS BASED ON THE STRENGTH OF THE FLYJIB ALONE - RC IS THE SAME FOR ALL BOOM LENGTHS.

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

40

RC @ ARTIC: 0° RC @ ARTIC: 40°

PITCH: -2.3 PITCH: -2.3

ROLL: -1.0 ROLL: -3.5

Boom Angle

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

#### **RATED CAPACITY CHART**

COUNTERWEIGHT:

STANDARD + EXTRA (SL)

**POSITION:** 

**REAR OF CRANE** 

309 Duty:

310 Duty:

#### **MANBASKET**

Duty:

309

Rad	RC
6.0	<b>276</b> <b>275</b> 65
7.5	<b>275</b> <b>275</b> 60
9.0	275 275 55
10.3	275 275 50
11.6	275 45
12.8	27/5 27/5 40
13.8	275 275 35
14.7	27/5 27/5 30
15.5	27/5 275 25
16.1	275 275 20
16.6	275 275
17.0	275 275 10
17.2	275 5
173	275

## **FIXED LUG (BUTT)**

Duty:

310

Rad	RC
	¥250002
1.4	24800
	33
	25000
1.5	24300
	31
	24550
1.6	23800
	29
	224150
1.7	23350
	26
	28700
1.8	22900
	23.0
	28300
1.9	22500
	19.7
	222900
2.0	22050
	15.6
	21050
2.2	21050
L.L	0

NOTE:

MANBASKET RATED CAPACITY INCLUDES ALL PERSONELL AND ALL EQUIPMENT.

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

KEY:

RC @ ARTIC: 0° RC @ ARTIC: 40° PITCH: -2.3 PITCH: -2.3

ROLL: -1.0 ROLL: -3.5

Boom Angle

Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

## **RATED CAPACITY CHART - LUG 1**

COUNTERWEIGHT:

STANDARD + EXTRA (SL)

POSITION:

**REAR OF CRANE** 

Rad	BOOM LENGTH			ВО	OM LEN	GTH				Rad
'	5.36	6.00	6.50	7.00	7.50	8.00	8,50	9.00	9.46	
1.4	25000	250001	25000	250001	25000	25000	25000	23300		1.4
	24950	24800	24650	24550	24450	24400	23250	21350		
	42	49	53	56	59	61	63	65		
2.0	23150	22950	22850	227/50	22650	22600	+22500	20800	46540	2.0
	22300	22100	22000	21900	21800	21700	21050	19250	17900	
	30	40	45	49	53	56	58	61	62	
2.5	2240502	20750	20550	20650	20200	20050	[[9900]	19150	17.650	2.5
	20100	19800	19550	19400	19200	19050	18900	18050	16800	
	18650	18350	18150	17950	17750	17600	17500	17350	16550	
	16	31	38	43	48	51	54	56	59	
3.0	18700	16950	(6800)	16600	16450	(6850)	4(62(00)	16100	#16000F	3.0
	18250	16150	16000	15800	15650	15550	15400	15300	15200	
	16950	14950	14800	14600	14450	14300	14200	14100	13550	
	3	20	30	37	42	46	49	52	55	
3.5		14900	(Kildo)	(8950)	(608st)	1(07/00)	13(600)	13500	18X00	3.5
		14150	-13400	13250	<b>#13150</b>	13000	#12900	12800	12700	
		13100	12350	12250	12100	11950	11850	11750	11400	
		3	19	29	35	40	44	48	50	
4.0	Ī		(25±0)	1(9:0	(0081)	(h7/00)	TAGOD	inkoo.	(jaso	4.0
			711900	11350	11200	4111002	11000	10900	10850	
			10950	10400	10300	10200	10100	10000	9800	
			4	19	28	34	39	43	46	
5.0				HUNUU:	9800	(\$900)	8850	8750	-87/00	5.0
				310150	8800	8450	8350	8250	8200	
				9350	8050	7700	7600	7550	7500	
				4	5	17	26_	32	36	
6.0						3(00)	7/160	(8900)	6.650	6.0
						7650	6750	6500	6450	
						7000	6100	5900	5850	
			Ċ			5	6	16	24	
6.8								6350	£700 a	6.8
								5400	4800	
								6	7	
	5.36	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9,50	

Duty:

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

(17,00)	RC @ ARTIC: 0°	PITCH: -2.3	ROLL: -1.0
(11,100)	RC @ ARTIC: 25°	PITCH: -2.3	ROLL: -3.0
(10,200)	RC @ ARTIC: 40°	PITCH: -2.3	ROLL: -3.5
(3.9)	BOOM ANGLE RADIUS AT ZERO BI	OOM ANGLE	

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

#### **RATED CAPACITY CHART - LUG 2**

COUNTERWEIGHT:

STANDARD + EXTRA (SL)

POSITION: REAR OF CRANE

9.00 9.50 10.00 11.00

12.00

13.00 13.77

#### UNITS:

- ANGLES IN DEGREES
- LENGTHS IN METRES
- LOAD IN KILOGRAMS

#### KEY:

\$9750 9300 7300	RC @ ARTIC: 0° RC @ ARTIC: 25° RC @ ARTIC: 40°	PITCH: -2.3 PITCH: -2.3 PITCH: -2.3	ROLL: -1.0 ROLL: -3.0 ROLL: -3.5
51	BOOM ANGLE		
(5,4)	RADIUS AT ZERO B	OOM ANGLE	

Note: Pitch & Roll angles indicated are representative of lifts based on firm level ground with tyres at specified pressures.

<u>312</u>

Duty:

8.50



## AFTERMARKET CONTACTS LIST

AFTER HOURS SUPPORT: from anywhere within Australia

**National Technical Support Contact (24/7)** 

PH: **1800 837 395** (1800TEREXL)

#### **BUSINESS HOURS SUPPORT:**

Contact the relevant state office on the numbers shown below for all enquiries regarding:

- Spare parts
- Product support
- Service
- Warranty

Queensland:	+61 7 3868 9600
New South Wales:	+61 2 8788 4444
Victoria:	+61 3 9551 8644
Western Australia:	+61 8 9232 0000

## Please have the following information available before calling:

- Company name
- Contact name
- Phone number
- E-mail contact
- Crane model and serial number
- Crane hours and kilometres