

TIDD
CRANE ///

TIDD PC28

RATED CAPACITY MANUAL



TRT ///
...for the long haul

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CONTENTS

Warnings	3
Definitions	4
Operation	5
Operations on Side Slopes	7
Range Diagram	9
Working Area Diagram	9
Lifting Device	10
LMI Duty	10
Load Charts	11

Warnings



DANGER

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

**DO NOT OPERATE THIS MACHINE UNLESS YOU HAVE READ AND
UNDERSTOOD THE OPERATING AND RATED CAPACITY MANUAL**

TIDD
CRANE ///



CAUTION

**WRITTEN AUTHORISATION IS REQUIRED FROM THE
MANUFACTURER 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 a lifted load. Working areas for the purpose of rated capacities are 0°-10°, 11°-20°, and 21°-30°, 31°-44° of articulation, in either direction from straight ahead. Up to 44° articulation is possible in either direction - see the working area diagram.

Deration – External influences that result in a decrease to the rated capacity, e.g. crane side slope.

Freely suspended load – A load hanging free with no forces other than the connection to the hook.

Load Radius – Is the forward horizontal distance between the centre of the front wheels to the vertical centre of the winch rope with a load applied. 'Radius' on the rated capacity charts refers to the load radius in meters.

Load moment indicator (LMI) – An Operator's visual and audible indicator for when the rated capacity is approached and reached.

Rated capacity (RC) – The total load including the load equipment freely suspended in ideal conditions that the crane can safely lift at a given boom length and load radius.

Side load – Any external, horizontal force applied to the boom or load.

Work areas – The work area given in the working range diagram is taken from the centre pivot. The LMI display indicates the current articulation angle and will automatically update the allowable load at the different articulation bands indicated on the load charts.

Crane side slope – Side tilt of the crane chassis relative to the true horizontal.

Pitch – The forward or rear tilt of the crane chassis relative to the true horizontal in the longitudinal axis.

Slope – The angle of the ground.

Operation

CRUSH HAZARD	
 DANGER	There is a crush hazard between the front and rear sections of the crane when articulating. Never stand in the pivot area with the crane engine running. Always remove the key, tag and lock out isolator switches located at the right hand side before carrying out any tasks within the pivot area.

General

1. This machine has been designed tested to standards AS1418.1, 1418.5 and EN13000:2010(MOD) for pick and carry operation on tyres.
2. The rated capacities given are for this crane as standard from factory and when all directions are strictly followed in this document. Any deviation from the intended use given in this document or modification of the crane from standard could result in the rated capacity being reduced.
3. This crane can be hazardous if operated or maintained in a manner outside of the parameters set out in the operating, service and parts manuals. If any of these manuals are missing contact your local authorised TIDD agent for replacements.

Set up

4. Reduced rated capacities for a task shall be dictated by the operator with allowance for adverse conditions such as but not limited to:
 - The supporting surface
 - Load pendulum actions
 - Jerking
 - Sudden stopping of the load
 - Weather
 - Dual lifting
 - Electrical wires
 - Hazardous surroundings
 - Experience of personnel
5. Rated capacities are based on perfect scenarios with flat, level and firm ground (max of 1% slope/0.6°). Lifting or travelling with a load on uneven or soft ground can be hazardous and reduces the rated capacity of the crane. Refer to 'Operation on side slopes' in this document.

Never attempt to drag the load.

6. Wind forces of up to 10 m/s or 36 km/h have been factored into the rated capacity. Any additional wind force should be taken into account and allowance given to the rated capacity.
7. The rated capacities given in the charts above the red line are based on the structural and hydraulic competence of the machine. Exceeding the rated capacity of the lift chart above red structural line will lead to damage of the crane. The capacities given below the red line take into account the cranes stability.
8. The rated capacities given include the mass of the hooks, slings, blocks and auxiliary lifting devices. The mass of these components must be subtracted from the capacity given on the chart to give the net load weight.
9. Loaded boom angles at specified lengths are an approximation only of the radius - The boom angle should be increased to allow for deflection increasing the load radius as the load is lifted.

10. Read and understand all warnings and instructional notes.
11. Do not tip the machine to determine allowable lifting capacities.
12. Loads can be lifted from;
 - Main boom head - main hook
 - Rhino hook
 - 28t fixed lug on base boom
 - 25t moving lug on tele boom 1
 - Fly jib - main hook

A man basket may also be attached to the head of the boom. Always use the correct rated capacity chart for the lifting point being used and ensure the LMI is set to the correct duty. Any attachment not specified in the manual needs to be authorised in writing by TIDD prior to use.

13. Lifting from more than one point simultaneously is prohibited.
14. Personnel should never be handled via the boom except in an approved TIDD man basket. The basket should be fitted according to TIDD attachment specifications unless authorised to do otherwise.
15. When the boom length or radius are between given values use the lower rated capacity.
16. Side loading the machine can result in structural failure or tip over. Side loads can be generated by;
 - Lifting when not level
 - Sudden acceleration or deceleration when articulating a load
 - Dragging or pushing a load
 - Wind forces on the load and boom structure.
17. It is safe and acceptable to attempt to telescope any load within the limits of the rated capacity manual. The maximum load that may be telescoped is limited by;
 - Loaded boom angle
 - Hydraulic pressure
 - Lubrication of the boom sections
 - Boom length
18. Do not allow the winch to fully unwind, always ensure a minimum of 3 coils of rope remain on the winch drum. The winch is fitted with a 3rd wrap indicator.
19. Rated capacity is dictated by tyre condition, rating and pressure. All the tyres must be in good condition, inflated to the correct pressure and of the correct rating before attempting a lift.
20. Pick and carry is available through to full articulation, the rating decreases when moving through the articulation bands.
21. The maximum speed for pick and carry operation is 2.0 km/h
22. Using this crane outside of the rated capacity or given instructions is hazardous.



CAUTION

Operations on Side Slopes

Mobile cranes are designed to be used primarily on firm, flat and level ground (within 1% gradient) according to AS 1418.5 and EN13000:2010 (MOD). Any deviation from this requires an adjustment to the rated capacity. The following precautions should be adhered to when negotiating side slopes up to maximum allowed by the LMI.

Surface depressions and potholes will create the same effect as a side slope.

- Ensure the tyres are inflated to 130 psi.
- Ensure the ground condition is hard enough to support the axle loads.
- The crane LMI will automatically derate the rated capacity. Based on crane side slope, pitch and articulation.
- While lifting a load the crane side slope and pitch will change due to tyre and boom deflection.
- As articulation is increased this will also add to the induced crane side slope.
- Use the minimum boom length and boom angle to keep the boom tip as close as possible to the ground.
- Keep the load as close as possible to the ground.
- Use the minimum articulation as possible
- If possible keep the load uphill of the crane especially when articulated. The working radius will increase with a suspended downhill positioned load.
- Load swing will give greater instability, where possible tag line loads to prevent the pendulum type action of the load. Movements of the crane should be as smooth as possible.
- Planning a lift is important to keep within the rated capacity as the loading variables change as described above.

TYRE SPECIFICATIONS		
USE	SPEED	LOAD RATING
PICK & CARRY	0-2 Km/h	9250 KG
STATIC	0 KM/H	10500 KG
HIGHWAY	80 Km/h	3650KG

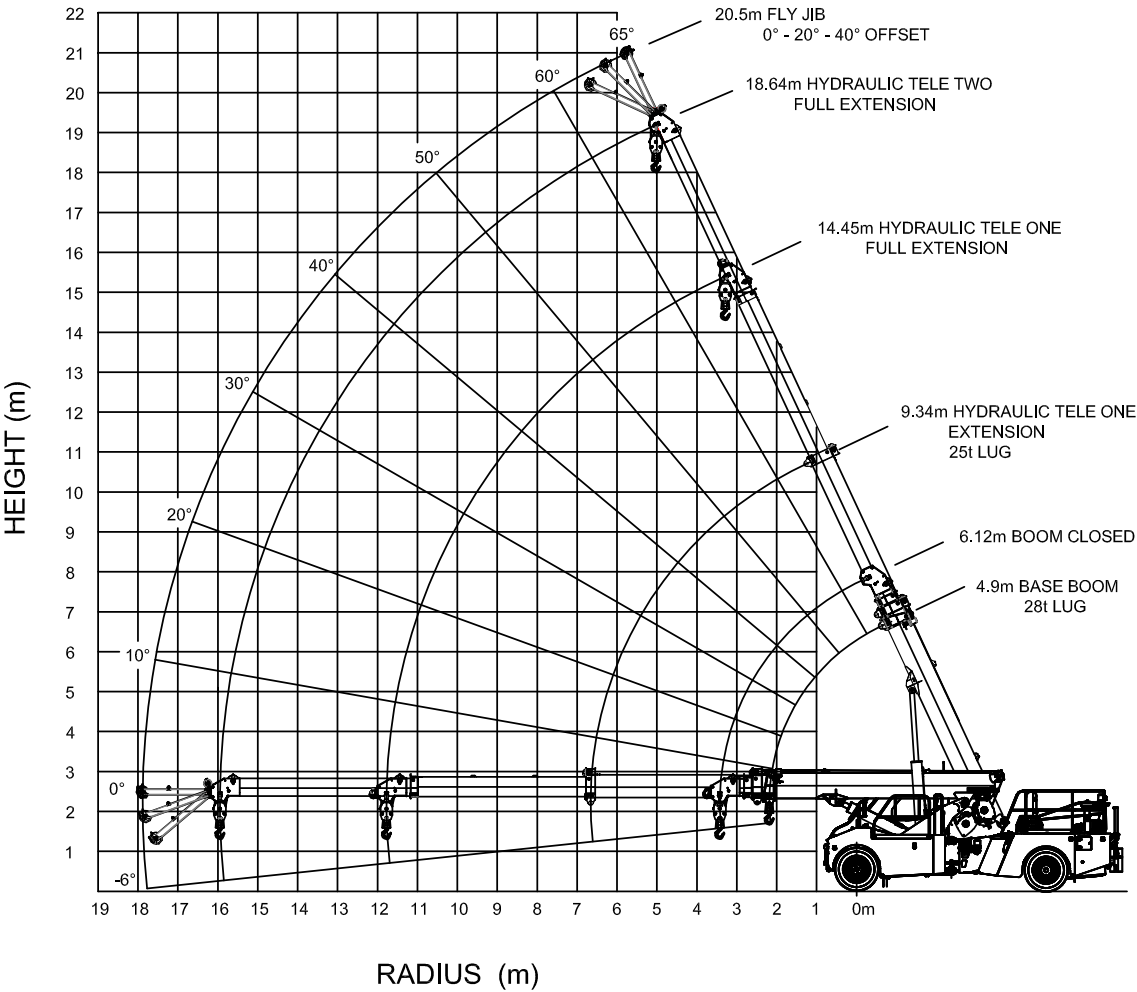
TYRE SPECIFICATION AND INFLATION CHART			
POSITION	SIZE	INFLATION PRESSURE (PSI)	
		PICK & CARRY	HIGHWAY TRAVEL
FRONT	12.00 X R20	130	130*
REAR	12.00 X R20	130	130*

* Reduce tyre pressures accordingly when not driving on fully formed roads as this will generate excessive heat and pressure.

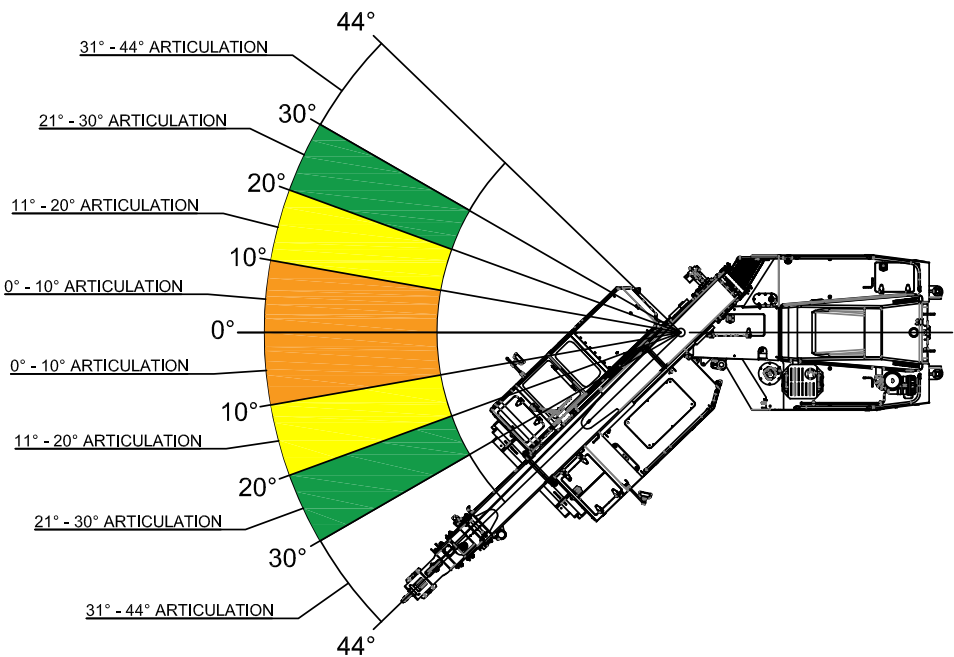
PC28: FRONT AXLE WEIGHTS

RADIUS (m)	FRONT AXLE WEIGHT (kg) AT MAXIMUM RATED CAPACITY	
	LMI Duty	
	001-66	101-66
1.0	35000	37000
1.5	33900	37000
2.0	34000	37000
2.5	30600	37000
3.0	29100	35300
3.5	26800	33400
4.0	25800	30400
4.5	24800	29200
5.0	23000	27800
6.0	21400	25700
7.0	19900	24100
8.0	18500	21900
9.0	18400	21100
10.0	17400	20100
11.0	16700	19500
12.0	16400	19500
13.0	16100	18700
14.0	15800	18300
15.0	15300	18000
15.9	14800	17600

Range Diagram



Working Area Diagram



Lifting Device

LIFTING DEVICE	PART #	MASS
6 PART 27.6T HOOK BLOCK	313-5006	230 KG
2 PART 9.2T HOOK BLOCK	313-5010	90 KG
15T RHINO HOOK	313-5009	22 KG
15T OFFSET RHINO HOOK	313-5007	27 KG
REMOVABLE COUNTERWEIGHT	313-3075	2270 KG
22T SWIVEL HOOK	PC1048886	20 KG
15T SPREADER BAR	PC-559	110 KG
1.9M FLY JIB 750KG SWL	PC-596	42 KG
FLY JIB OFFSET LINK	PC-598	6 KG
SUPERLIFT COUNTERWEIGHT	313-3077	1100 KG

LMI Duty

LMI DUTY	2270kg COUNTERWEIGHT ON FRONT	2270kg COUNTERWEIGHT ON REAR	2270KG + 1100KG COUNTERWEIGHT ON REAR
MAIN HOIST - PICK AND CARRY	001-66	101-66	201-66
MAIN HOIST - STATIONARY	001-75	101-75	201-75
15T RHINO HOOK - PICK AND CARRY	002-66	102-66	202-66
15T RHINO HOOK - STATIONARY	002-75	102-75	202-75
TELE BOOM 1 - 25T LIFTING LUG - PICK AND CARRY	-----	105-66	-----
TELE BOOM 1 - 25T LIFTING LUG - STATIONARY	-----	105-75	-----
BASE BOOM - 28T LIFTING LUG - PICK AND CARRY	-----	106-66	-----
BASE BOOM - 28T LIFTING LUG - STATIONARY	-----	106-75	-----
MAN BASKET	007	107	-----
FLY JIB 0° OFFSET	008	108	-----
FLY JIB 20° OFFSET	009	109	-----
FLY JIB 40° OFFSET	010	110	-----

The weight specifications given in the table are for TIDD standard equipment.

HOIST - WIRE ROPE
18.4T MIN. BREAKING FORCE.
14mm Dyform 34LR RHLL - 1960 N/mm2
4600kg MAX LINE PULL

TRT | TIDD PC28 | 2020 | Rev C

0 - 0.6° CRANE SIDE SLOPE: PC28 MOBILE CRANE: MAIN HOIST - 2270kg COUNTER WEIGHT ON: FRONTSTATIONARY

001-75

LMI DUTY

THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY

STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED

OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING

LIFTING IS TO BE VERTICAL ONLY

MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD

DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)

READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING

BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL

SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT

LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY

LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

Rated Capacity /kg for 0°-10° articulation

Rated Capacity /kg for 11°-20° articulation

Rated Capacity /kg for 21°-30° articulation

Rated Capacity /kg for 31°-44° articulation

REV : E
23/07/2019

RADIUS	BOOM LENGTH (M)																				
	6.12	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	14.45	15.50	16.50	17.50	18.64
1	24860	24860	24860	24860	24860	24860															
	22870	22870	22870	22870	22870	22870															
	20390	20390	20390	20390	20390	20390															
	17400	17400	17400	17400	17400	17400															
	21940	21940	21940	21940	21940	21940	21940														
1.5	20180	20180	20180	20180	20180	20180	20180														
	17990	17990	17990	17990	17990	17990	17990														
	15360	15360	15360	15360	15360	15360	15360														
	20360	20360	20360	20360	20360	20360	20360	20360	20360	20360											
	18730	18730	18730	18730	18730	18730	18730	18730	18730	18730	18730										
2	16700	16700	16700	16700	16700	16700	16700	16700	16700	16700											
	14250	14250	14250	14250	14250	14250	14250	14250	14250	14250	14250										
	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480	16480
	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160	15160
	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510	13510
2.5	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540	11540
	14400	14290	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180	14180
	13250	13150	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050	13050
	11180	11120	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060	11060
	10080	10000	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940	9940
3	9870	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780	9780
	8850	8750	8650	8550	8450	8350	8250	8150	8050	7950	7850	7750	7650	7550	7450	7350	7250	7150	7050	6950	6850
	10690	10690	10580	10460	10460	10460	10460	10460	10460	10460	10460	10460	10350	10240	10130	10020	9910	9800	9690	9580	9470
	9830	9830	9730	9620	9620	9620	9620	9620	9620	9620	9620	9620	9520	9420	9320	9210	9100	8990	8880	8770	8660
	8770	8770	8680	8580	8480	8380	8280	8180	8080	7980	7880	7780	7680	7580	7480	7380	7280	7180	7080	6980	6880
4	7480	7480	7410	7320	7230	7140	7050	6960	6870	6780	6690	6600	6510	6420	6330	6240	6150	6060	5970	5880	5790
	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500	9500
	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800	8800
	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840	7840
	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690	6690
5	8100	8000	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040	8040
	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100	7100
	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100
	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100	5100
	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100
6	5670	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630	5630
	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530	4530
	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490	3490
	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450	2450
	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410	1410
7	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870	4870
	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730	3730
	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690	2690
	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650	1650
	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610
8	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380	4380
	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340
	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260	1260
	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
9	3840	3840	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880	3880
	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800	2800
	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760	1760
	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680
10	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320
	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280	2280
	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240	1240
	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
11	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870
	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830	1830
	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890
	450	450	450	450	450</																

0 - 0.6° CRANE SIDE SLOPE: PC28 MOBILE CRANE: RHINO																					- 2270kg COUNTER WEIGHT ON: FRONT										PICK AND CARRY									
RADIUS		BOOM LENGTH (M)																																						
1	6.12	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	14.45	15.50	16.50	17.50	18.64																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
1.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
2	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
2.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
3	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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3.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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4	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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4.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
6	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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7	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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8	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
10	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
11	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
12	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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13	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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14	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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15	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
15.9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000																			
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Rated Capacity (kg) for 0°-10° articulation

Rated Capacity (kg) for 11°-20° articulation

Rated Capacity (kg) for 21°-30° articulation

Rated Capacity (kg) for 31°-44° articulation

THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 PICK AND CARRY 66.6% OF TIPPING LOAD
OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
LIFTING IS TO BE VERTICAL ONLY
MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

REV : E
23/07/2019

LMI DUTY 002-75

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

	Rated Capacity (kg) for 0°-10° articulation
	Rated Capacity (kg) for 11°-20° articulation
	Rated Capacity (kg) for 21°-30° articulation
	Rated Capacity (kg) for 31°-44° articulation

REV : E
23/07/2019

STATIONARY

FRONT

RHINO

PC28 MOBILE CRANE:

0 - 0.6° CRANE SIDE SLOPE:

RADIUS	BOOM LENGTH (M)	6.12	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	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00
1	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
1.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
2	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
2.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
3	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
3.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
4	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
4.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
6	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
7	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
8	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
10	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
11	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
12	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
13	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
14	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
15	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
15.9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000

0° TO 5° CRANE SIDE SLOPE:
PC28 MOBILE CRANE: **MAN BASKET**

2270KG COUNTERWEIGHT ON: **FRONT**

RADIUS (m)	MAIN BOOM 6.12m to 18.64m			
	MAN BASKET 1.43m			
1	275	275	275	275
2	275	275	275	275
4	275	275	275	275
6	275	275	275	275
8	275	275	275	275
10	275	275	275	275
12	275	275	275	275
14	275	275	275	275
16	275	275	275	275
18	275	275	275	275
20.1	275	275	275	275

LMI DUTY **007**

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 5° CRANE SIDE SLOPE
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 PICK AND CARRY 66.6% OF TIPPING LOAD
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF LIFTING EQUIPMENT TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- HOOK BLOCK TO BE REMOVED
- MANBASKET CENTER FROM RHINO MOUNT IS 1.43M
- 275kg SWL BASKET CAPACITY
- 225kg BASKET TARE WEIGHT

	Rated Capacity (kg) for 0°-10° articulation
	Rated Capacity (kg) for 11°-20° articulation
	Rated Capacity (kg) for 21°-30° articulation
	Rated Capacity (kg) for 31°-44° articulation

REV : F
30/07/2019

0° TO 5° CRANE SIDE SLOPE:
PC28 MOBILE CRANE: **FLY JIB**

LMI DUTY **008, 009, 010**

2270KG COUNTERWEIGHT ON: **FRONT**

MAIN BOOM 6.12m to 18.64m			
FLY JIB 1.9m			
RADIUS (m)	0° OFFSET	20° OFFSET	40° OFFSET
LMI DUTY	008	009	010
1	750	750	
	750	750	
	750	750	
2	750	750	750
	750	750	750
	750	750	750
4	750	750	750
	750	750	750
	750	750	750
6	750	750	750
	750	750	750
	750	750	750
8	750	750	750
	750	750	750
	750	750	750
10	750	750	750
	750	750	750
	750	750	750
12	750	750	750
	750	750	750
	750	750	750
14	750	750	750
	750	750	750
	750	750	750
16	750	750	750
	750	750	750
	750	750	750
18	750	750	750
	750	750	750
	750	750	750
20.3	750	750	750
	750	750	750
	750	750	750
20.5	750	750	750
	750	750	750
	750	750	750

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 5°, CRANE SIDE
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1
- PICK AND CARRY 66.6% OF TIPPING LOAD
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF LIFTING EQUIPMENT TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- HOOK BLOCK TO BE REMOVED

Rated Capacity (kg) for 0°-10° articulation
Rated Capacity (kg) for 11°-20° articulation
Rated Capacity (kg) for 21°-30° articulation
Rated Capacity (kg) for 31°-44° articulation

REV : G
12/08/2019

17

0 - 0.6° CRANE SIDE SLOPE: PC28 MOBILE CRANE: MAIN HOIST - 2270kg COUNTER WEIGHT ON: REAR																					STATIONARY	
RADIUS	BOOM LENGTH (M)																					
	6.12	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	14.45	15.50	16.50	17.50	18.64	
1	27600	25000	25000	25000	25000	25000																
	25390	23000	23000	23000	23000	23000																
	22630	20500	20500	20500	20500	20500																
	19320	17500	17500	17500	17500	17500																
1.5	23500	23500	23500	23500	23500	23500	23500	23500														
	21620	21620	21620	21620	21620	21620	21620	21620														
	19270	19270	19270	19270	19270	19270	19270	19270														
2	16450	16450	16450	16450	16450	16450	16450	16450	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400	22400		
	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610	20610		
	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370	18370		
2.5	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680	15680		
	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370	21370		
	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660	19660		
	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520	17520		
3	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960	14960		
	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450		
	17190	17080	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970		
	15320	15220	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130		
3.5	16310	16200	16090	15980	15860	15750	15640	15530	15420	15300	15190	15080	14960	14850	14740	14630	14520	14410	14300	14190		
	15010	14900	14800	14690	14580	14470	14360	14250	14140	14030	13920	13810	13700	13590	13480	13370	13260	13150	13040	12930		
	13370	13260	13150	13040	12930	12820	12710	12600	12490	12380	12270	12160	12050	11940	11830	11720	11610	11500	11390	11280		
4	11420	11340	11100	11030	10950	10870	10790	10710	10630	10550	10470	10390	10310	10230	10150	10070	9990	9910	9830	9750		
	13560	13500	13380	13260	13140	13020	12900	12780	12660	12540	12420	12300	12180	12060	11940	11820	11700	11580	11460	11340		
	12480	12420	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220	12220		
	11120	11070	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890	10890		
	9490	9450	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300	9300		
4.5																						
	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090	12090		
	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120	11120		
	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910	9910		
	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460	8460		
5																						
	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690		
	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830		
	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770		
6																						
	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690		
	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830		
	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770		
7																						
	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690		
	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830		
	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770		
8																						
	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690		
	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830		
	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770		
9																						
	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690		
	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830	9830		
	8770	8770	8770	8770	8770	8770	8770	8770	8770	8770												

REV : E
23/07/2019

LMI DUTY 102-75

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2 6.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

	Rated Capacity (kg) for 0° articulation
	Rated Capacity (kg) for 11.30° articulation
	Rated Capacity (kg) for 21.30° articulation
	Rated Capacity (kg) for 31.44° articulation

 REV: E
23/07/2019

STATIONARY

REAR

RHINO

PC28 MOBILE CRANE:

0 - 0.6° CRANE SIDE SLOPE:

RADIUS	BOOM LENGTH (M)	6.12	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	14.45	15.50	16.50	17.50	18.64
1	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
1.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
2	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
2.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
3	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
3.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
4	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
4.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
6	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
7	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
8	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
10	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
11	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
12	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
13	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
14	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
15	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
15.9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000

0 - 0.6° CRANE SIDE SLOPE:

PC28: TELE BOOM 1 - 25t LIFTING LUG
(2270kg COUNTERWEIGHT ON REAR)

LMI DUTY 105-66
PICK AND CARRY

BOOM LENGTH	6.12	7.15	8.15	9.15	10.15	11.15	12.15	13.15	14.15	14.45
LUG LENGTH	5.19	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.35
RADIUS 1.0	25000	25000	25000	25000	25000	25000				
	23000	23000	23000	23000	23000	23000				
	20500	20500	20500	20500	20500	20500				
	17500	17500	17500	17500	17500	17500				
1.5	23000	23000	23000	23000	23000	23000	23000	23000		
	21160	21160	21160	21160	21160	21160	21160	21160		
	18860	18860	18860	18860	18860	18860	18860	18860		
	16100	16100	16100	16100	16100	16100	16100	16100		
2.0	18450	18450	18450	18450	18450	18450	18450	18450	18450	18450
	16970	16970	16970	16970	16970	16970	16970	16970	16970	16970
	15130	15130	15130	15130	15130	15130	15130	15130	15130	15130
	12920	12920	12920	12920	12920	12920	12920	12920	12920	12920
2.5	17100	17100	17100	17100	17100	17100	17100	17100	17100	17100
	15730	15730	15730	15730	15730	15730	15730	15730	15730	15730
	14020	14020	14020	14020	14020	14020	14020	14020	14020	14020
	11970	11970	11970	11970	11970	11970	11970	11970	11970	11970
3.0	14850	14760	14760	14760	14760	14760	14760	14760	14760	14760
	13660	13580	13580	13580	13580	13580	13580	13580	13580	13580
	12180	12100	12100	12100	12100	12100	12100	12100	12100	12100
	10400	10330	10330	10330	10330	10330	10330	10330	10330	10330
3.5		12240	12160	11990	11990	11990	11990	11990	11990	11990
		11260	11190	11030	10950	10950	10950	10950	10950	10950
		10040	9970	9830	9760	9760	9760	9760	9760	9760
		8570	8510	8330	8330	8330	8330	8330	8330	8330
4.0			9600	9440	9440	9440	9440	9440	9440	9440
			8830	8680	8680	8680	8680	8680	8680	8680
			7870	7740	7740	7740	7740	7740	7740	7740
			6720	6610	6610	6610	6610	6610	6610	6610
4.5				8600	8600	8600	8600	8600	8600	8600
				7910	7910	7910	7910	7910	7910	7910
				7050	7050	7050	7050	7050	7050	7050
				6020	6020	6020	6020	6020	6020	6020
5.0					7600	7600	7600	7600	7600	7600
					6990	6990	6990	6990	6990	6990
					6230	6230	6230	6230	6230	6230
					5320	5320	5320	5320	5320	5320
5.5						6230	6230	6230	6230	6230
						5730	5730	5730	5730	5730
						5110	5110	5110	5110	5110
						4360	4360	4360	4360	4360
6.0							5390	5390	5390	5390
							4960	4960	4960	4960
							4420	4420	4420	4420
							3770	3770	3770	3770
6.5								4970	4970	4970
								4570	4570	4570
								4080	4080	4080
								3480	3480	3480

	Rated Capacity (kg) for 0°-10° articulation
	Rated Capacity (kg) for 11°-20° articulation
	Rated Capacity (kg) for 21°-30° articulation
	Rated Capacity (kg) for 31°-44° articulation

REV : E
23/07/2019

0 - 0.6° CRANE SIDE SLOPE:**PC28: TELE BOOM 1 - 25t LIFTING LUG
(2270kg COUNTERWEIGHT ON REAR)****LMI DUTY 105-75
STATIONARY**

BOOM LENGTH LUG LENGTH	6.12	7.15	8.15	9.15	10.15	11.15	12.15	13.15	14.15	14.45
RADIUS	5.19	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.35
1.0	25000	25000	25000	25000	25000	25000				
	23000	23000	23000	23000	23000	23000				
	20500	20500	20500	20500	20500	20500				
	17500	17500	17500	17500	17500	17500				
1.5	24860	24860	24860	24860	24860	24860	24860	24860		
	22870	22870	22870	22870	22870	22870	22870	22870		
	20390	20390	20390	20390	20390	20390	20390	20390		
	17400	17400	17400	17400	17400	17400	17400	17400		
2.0	20760	20760	20760	20760	20760	20760	20760	20760	20760	20760
	19100	19100	19100	19100	19100	19100	19100	19100	19100	19100
	17020	17020	17020	17020	17020	17020	17020	17020	17020	17020
	14530	14530	14530	14530	14530	14530	14530	14530	14530	14530
2.5	19240	19240	19240	19240	19240	19240	19240	19240	19240	19240
	17700	17700	17700	17700	17700	17700	17700	17700	17700	17700
	15780	15780	15780	15780	15780	15780	15780	15780	15780	15780
	13470	13470	13470	13470	13470	13470	13470	13470	13470	13470
3.0	16710	16610	16610	16610	16610	16610	16610	16610	16610	16610
	15370	15280	15280	15280	15280	15280	15280	15280	15280	15280
	13700	13620	13620	13620	13620	13620	13620	13620	13620	13620
	11700	11630	11630	11630	11630	11630	11630	11630	11630	11630
3.5	13770	13680	13680	13390	13390	13390	13390	13390	13390	13390
	12670	12590	12400	12320	12320	12320	12320	12320	12320	12320
	11290	11220	11050	10980	10980	10980	10980	10980	10980	10980
	9640	9580	9440	9370	9370	9370	9370	9370	9370	9370
4.0			10800	10620	10620	10620	10620	10620	10620	10620
			9940	9770	9770	9770	9770	9770	9770	9770
			8860	8710	8710	8710	8710	8710	8710	8710
			7560	7430	7430	7430	7430	7430	7430	7430
4.5				9680	9680	9680	9680	9680	9680	9680
				8910	8910	8910	8910	8910	8910	8910
				7940	7940	7940	7940	7940	7940	7940
				6780	6780	6780	6780	6780	6780	6780
5.0					8550	8550	8550	8550	8550	8550
					7870	7870	7870	7870	7870	7870
					7010	7010	7010	7010	7010	7010
					5990	5990	5990	5990	5990	5990
5.5						7010	7010	7010	7010	7010
						6450	6450	6450	6450	6450
						5750	5750	5750	5750	5750
						4910	4910	4910	4910	4910
6.0							6060	6060	6060	6060
							5580	5580	5580	5580
							4970	4970	4970	4970
							4240	4240	4240	4240
6.5								5590	5590	5590
							5140	5140	5140	5140
							4580	4580	4580	4580
							3910	3910	3910	3910

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- BOOM LENGTH TO NOT EXCEED 14.45m

Rated Capacity (kg) for 0°-10° articulation
Rated Capacity (kg) for 11°-20° articulation
Rated Capacity (kg) for 21°-30° articulation
Rated Capacity (kg) for 31°-44° articulation

REV : E
23/07/2019

0 - 0.6° CRANE SIDE SLOPE

LUG LENGTH (m)	4.89
RADIUS (m) 1	25000
	23000
	20500
	17500
1.5	23000
	21160
	18860
	16100
2	20500
	18860
	16810
	14350
2.2	19000
	17480
	15580
	13300

PC28: BASE BOOM - 28t LIFTING LUG
(2270kg COUNTERWEIGHT ON REAR)

LMI DUTY 106-66
PICK AND CARRY

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 PICK AND CARRY 66.6% OF TIPPING LOAD
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- BOOM TO BE FULLY RETRACTED

Rated Capacity (kg) for 0°-10° articulation
Rated Capacity (kg) for 11°-20° articulation
Rated Capacity (kg) for 21°-30° articulation
Rated Capacity (kg) for 31°-44° articulation

REV : E
23/07/2019

0 - 0.6° CRANE SIDE SLOPE

PC28: BASE BOOM - 28t LIFTING LUG (2270kg COUNTERWEIGHT ON REAR)

LMI DUTY 106-75 STATIONARY

LUG LENGTH (m)	4.89
1	28000
	25760
	22960
	19600
1.5	25000
	23000
	20500
	17500
2	23060
	21220
	18910
	16140
2.2	21380
	19670
	17530
	14970

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6°. CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- BOOM TO BE FULLY RETRACTED

Rated Capacity (kg) for 0°-10° articulation
Rated Capacity (kg) for 11°-20° articulation
Rated Capacity (kg) for 21°-30° articulation
Rated Capacity (kg) for 31°-44° articulation

REV : E
23/07/2019

0° TO 5° CRANE SIDE SLOPE:PC28 MOBILE CRANE: **MAN BASKET****LMI DUTY 107****2270kg COUNTERWEIGHT ON: REAR**

MAIN BOOM 6.12m to 18.64m	
MAN BASKET 1.43m	
RADIUS (m)	
1	275 275 275
2	275 275 275
4	275 275 275
6	275 275 275
8	275 275 275
10	275 275 275
12	275 275 275
14	275 275 275
16	275 275 275
18	275 275 275
20.1	275 275 275

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 5° CRANE SIDE SLOPE
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 PICK AND CARRY 66.6% OF TIPPING LOAD
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF LIFTING EQUIPMENT TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- HOOK BLOCK TO BE REMOVED
- MANBASKET CENTER FROM RHINO MOUNT IS 1.43M
- 275kg SWL BASKET CAPACITY
- 225kg BASKET TARE WEIGHT

Rated Capacity (kg) for 0°-10° articulation
Rated Capacity (kg) for 11°-20° articulation
Rated Capacity (kg) for 21°-30° articulation
Rated Capacity (kg) for 31°-44° articulation

REV : F
30/07/2019

0° TO 5° CRANE SIDE SLOPE:
PC28 MOBILE CRANE: **FLY JIB**

LMI DUTY **108, 109, 110**

2270KG COUNTERWEIGHT ON: **REAR**

RADIUS (m)	MAIN BOOM 6.12m to 18.64m			
	FLY JIB 1.9m			
LMI DUTY	0° OFFSET	20° OFFSET	40° OFFSET	
1	108	109	110	
	750	750	750	
	750	750	750	
	750	750	750	
2	750	750	750	750
	750	750	750	750
	750	750	750	750
4	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
6	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
8	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
10	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
12	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
14	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
16	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
18	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
20.3	750	750	750	750
	750	750	750	750
	750	750	750	750
	750	750	750	750
20.5	750	750	750	750
	750	750	750	750
	750	750	750	750

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 5°. CRANE SIDE
- STABILITY AS PER EN13000:2010 (MOD) AND AS1418.5 2013 PART 4.1.2.6.1 PICK AND CARRY 66.6% OF TIPPING LOAD
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF LIFTING EQUIPMENT TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- HOOK BLOCK TO BE REMOVED

Rated Capacity (kg) for 0°-10° articulation
Rated Capacity (kg) for 11°-20° articulation
Rated Capacity (kg) for 21°-30° articulation
Rated Capacity (kg) for 31°-44° articulation

REV : G
12/08/2019

REV: H
6/09/2019

	Rated Capacity (kg) for 0°-10° articulation
	Rated Capacity (kg) for 11°-20° articulation
	Rated Capacity (kg) for 21°-30° articulation
	Rated Capacity (kg) for 31°-44° articulation

REV: J
4/10/2019

LMI DUTY 202-75

- THIS CHART IS FOR CRANE SIDE SLOPE FROM 0° TO 0.6° CRANE SIDE SLOPE LARGER THAN 0.6° THE LMI WILL DERATE AUTOMATICALLY
- STABILITY AS PER EN13000:2010 [MOD] AND AS1418.5 2013 PART 4.1.2.6.1 STATIONARY 75% OF TIPPING LOAD WITH HOLD BRAKE APPLIED
- OPERATION OF THIS MACHINE WITH HEAVIER LOADS THAN THE CAPACITIES LISTED IS STRICTLY PROHIBITED. MACHINE TIPPING WITH BOOM EXTENSION OCCURS RAPIDLY AND WITHOUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED TO LOAD
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H (10 M/S)
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- SPARE WHEEL NOT INCLUDED AS COUNTERWEIGHT
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

	Rated Capacity (kg) for 0°-10° articulation
	Rated Capacity (kg) for 11°-20° articulation
	Rated Capacity (kg) for 21°-30° articulation
	Rated Capacity (kg) for 31°-44° articulation

REV: J
4/10/2019

STATIONARY

2270kg plus 1100kg S.L COUNTERWEIGHT ON REAR

RHINO

0 - 0.6° CRANE SIDE SLOPE: PC28 MOBILE CRANE:

RADIUS	6.12	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	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00
1	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
1.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
2	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
2.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
3	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
3.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
4	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
4.5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
5	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
6	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
7	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
8	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
10	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
11	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
12	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
13	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
14	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
15	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
15.9	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000



TIDD PC28

RATED CAPACITY MANUAL

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...for the long haul

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