

CRANE SPECIFICATION

25T TIDD PC25

COMPREHENSIVE LIFTING SOLUTIONS

We look forward to providing a full heavy lift engineering and crane solution for your next project. Our heavy lift engineers and on site personnel are experienced in managing and organising highly de-manding lift requirements.

Contact us to discuss your lifting requirements and a free quote.

BRISBANE (HQ)

07 3907 5800 37 Paringa Rd, Murarrie, QLD, 4172

BALLINA

02 6686 7748 5 Convair Ave, Ballina, NSW, 2478

GLADSTONE

07 4829 5219 7 Morgan St, Gladstone, QLD, 4680

ROMA

07 4622 5522 8 Wormwell Drive, Roma QLD 4455

TOWNSVILLE

07 4779 4088 16 Mackley St, Garbutt QLD 4814

RICHLANDS

07 3907 5800 462 Boundary Rd, Richlands QLD 4077

ROCKHAMPTON

07 4939 1095 39-42 Johnson St, Park Hurst, QLD, 4702

BILOELA

07 4939 1095 67 Dawson Hwy, Biloela QLD 4715

SUNSHINE COAST

0409 595 618 562 Maroochydore Rd, Kunda Park, QLD, 4556

MACKAY

07 4952 6998 135 Diesel Drive, Paget QLD 4740





TIDD PC25 RATED CAPACITY MANUAL



Do not operate this crane without reading and understanding the information contained in this document.

PC - D28

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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





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 less than 10° of articulation and greater than 10° of articulation, in either direction from straight ahead. Up to 42° articulation is possible in either direction - see the working area diagram.

Deration – External influences that result in a decrease to the rated capacity, are expressed as a factor to multiply the rated capacity (RC) by. E.g. RC x Factor = Derated capacity.

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.

Loaded boom angle – This is for reference to set up the crane only. It gives an approximation of the load radius for a given boom length, with no allowance given for deflection of the boom or tyres. 'Boom angle' on rated capacity charts refers to the loaded boom angle.

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 steer angle and will automatically update the allowable load at 10°.



CRUSH HAZARD

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 is running or the emergency pump is operating. 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 and 1418.5 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

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- 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 cross 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.

Operation

- 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
 - Rhino hook
 - Fixed 25T lug on base boom
 - 20T lug on tele boom 1

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.

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- 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. The LMI interpolated value may also be taken.
- 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. The manual extension rated capacity will vary depending on the loaded boom angle. The boom may be retracted and extended with the manual set. The rated capacity does not change for the fully extended position for any given loaded boom angle.
- 18. 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



- 19. The winch rope is fully compensated by the boom with exception of setting the manual extension. Check the operators manual for setting the extension, once set the compensation is fully functional.
- 20. 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 3 wrap indicator.
- 21. 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.
- 22. Pick and carry is available through full articulation, the rating decreases when above 10° articulation. Use reduced capabilities in the chart if going above 10° articulation.
- 23. The maximum speed for pick and carry operation is 1.5 km/h

24. Using this crane outside of the rated capacity or given instructions is hazardous.

OPERATIONS ON SIDE SLOPES.

Mobile cranes are designed to be used primarily on firm, flat and level ground (within 1º gradient) according to AS 1418.5. Any deviation from this requires an adjustment to the rated capacity. Freely suspended loads should be avoided above this gradient (AS 2550.5). The following precautions should be adhered to when negotiating side slopes up to 5º (8.75% gradient).

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

- Ensure the tyres are **inflated** to 130psi.
- Ensure the ground condition is **hard** enough to support the axle loads.
- Reduce the rated capacity of the crane by the deration factor for the crane as shown in the operating on cross slopes up to 5º (8.75% gradient) *fig.1 page 11*. The crane side load indicator will not automatically adjust the rated capacity.
- Use the crane slope inclinometer as a guide only, it is more accurate in a straight ahead position unloaded. The crane will show incline if articulated this could easily be confused with the grounds 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 of articulation as possible, the crane when steered will also move the hook equally as much.
- 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.

Rated capacity deration on 5º cross slope

- The deration factor is a function of boom angle
- From the Rated Capacity Manual or LMI. The rated capacity of the lift you are undertaking can be read.
- From Fig 1. Range Diagram the deration factor can be found.
- Multiply the Rated Capacity by deration factor to calculate the derated capacity

- Example load case: (From PC25-LC01 load chart)
- Boom angle = 53°
- Boom length = 10.0m
- Radius = 3.5m
- Rated Capacity = 9520kg 0<10° articulation

9520 kg x 0.4 = 3808 kg Derated Capacity

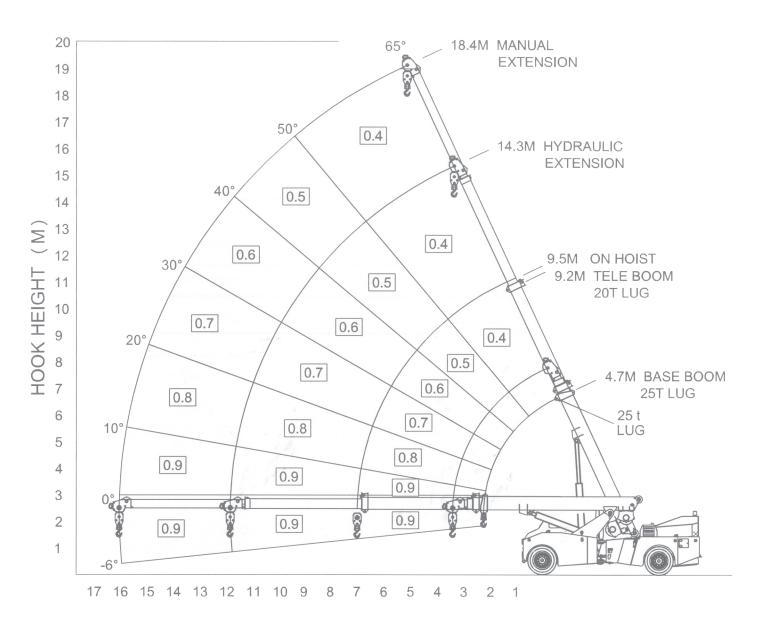


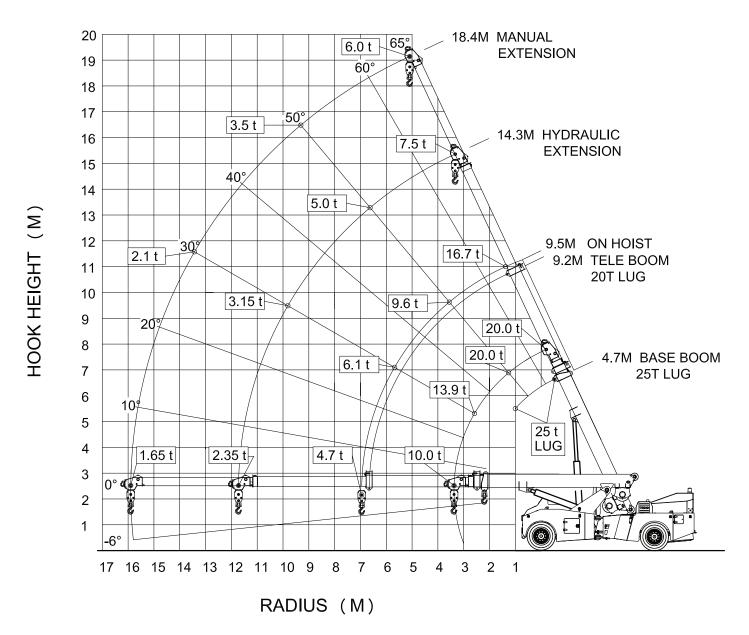
Fig. 1 RADIUS (M)

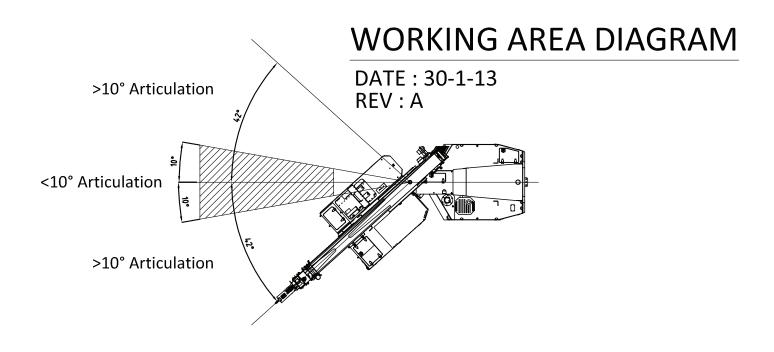
Range diagram

RANGE DIAGRAM PC25

DATE: 30-1-13

REV: A





ATTACHME	NT MASSES	
	PART #	MASS
4 PART 20T HOOK BLOCK	PC22-517	135 KG
19 METRIC TONNE HOOK	PC-8-175N-0-15	17 KG
10 TONNE RHINO HOOK	PC22-519	18 KG
15 METRIC TONNE SPREADER BAR	PC22-559	110 KG

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

WIRE ROPE	
18.4T	20.0T
14mm Dyform 34LR RH4LL 2160	14mm Dyform 34LR RH4LL
N/mm2	2160 N/mm2

	TYRE SPECIFICATIONS	
USE	SPEED	LOAD RATING
PICK & CARRY	0-2 Km/h	8695 KG
STATIC	0 KM/H	9250 KG
HIGHWAY	80 Km/h	3000KG

	TYRE INFLA	TION CHART	
DOCITION	CIZE	INFLATION PF	RESSURE (PSI)
POSITION	SIZE	PICK & CARRY	HIGHWAY TRAVEL
FRONT	12.00 X 20	130	130
REAR	12.00 X 20	130	130

LMI DUTY

LC01 MAIN HOIST MANUAL EXTENSION RETRACTED

LC02 RHINO HOOK WITH MANUAL EXTENSION RETRACTED

LC03 MAIN HOIST MANUAL EXTENSION EXTENDED

LC04 RHINO HOOK WITH MANUAL EXTENSION EXTENDED

LC05 TELE BOOM 1 WITH 20T LIFTING LUG

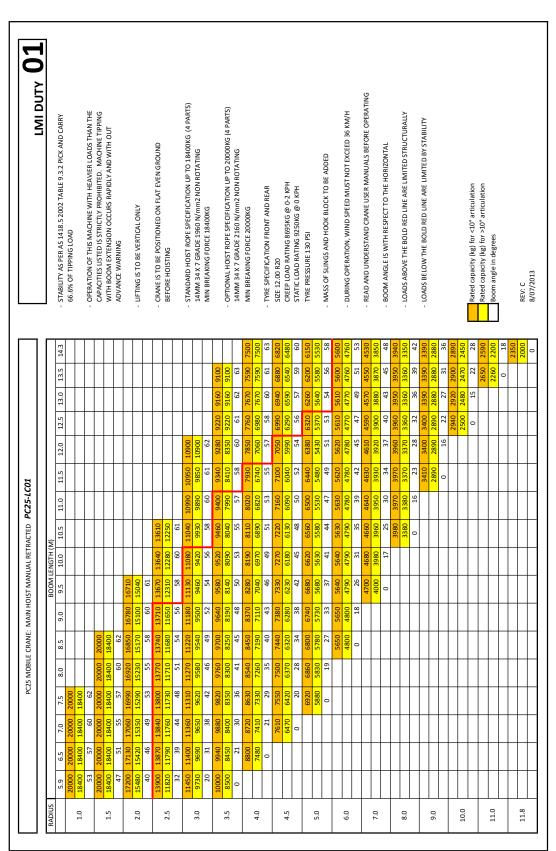
LC06 BASE BOOM 1 WITH 25T LIFTING LUG

LC07 SIDE SLOPE DERATION 5º

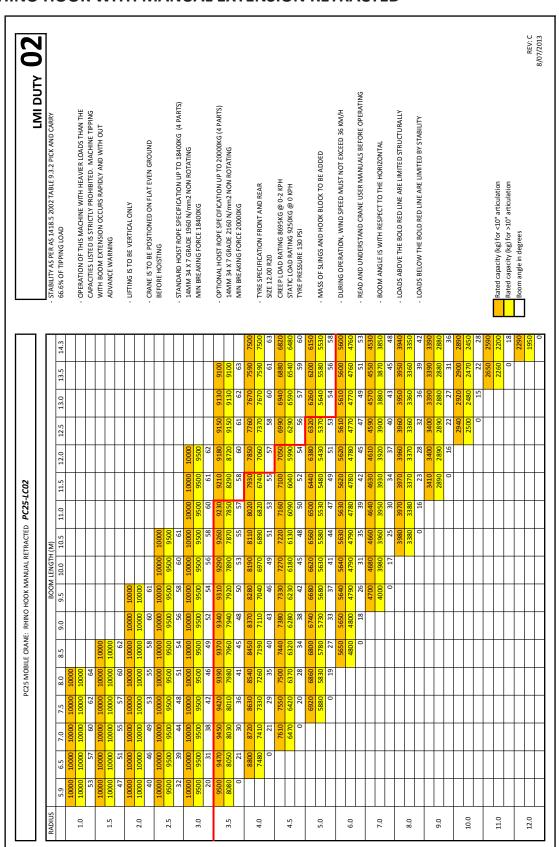
LC08 MAN BASKET MANUAL RETRACTED

LC09 MAN BASKET MANUAL EXTENDED

LC01 MAIN HOIST MANUAL EXTENSION RETRACTED



LC02 RHINO HOOK WITH MANUAL EXTENSION RETRACTED



LC03 MAIN HOIST MANUAL EXTENSION EXTENDED

PC25 MOBILE CRANE: MAIN HOIST MANUAL EXTENDED **PC25-LC03**

RADIUS FROM	BOOM LENGTH
FRONT AXLE (M)	18.45M
F 4	6000
5.1	6000
	65
	6000
6.0	5700
	62
	4900
7.0	4410
	59
	4090
8.0	3470
	55
	3510
9.0	2980
	51
	3110
10.0	2640
	47
	2710
11.0	2300
	43
	2390
12.0	2030
	38
	2110
13.0	1790
	33
	1930
14.0	1640
	26
	1760
15.0	1500
	18
	1650
15.9	1400
	0

LMI DUTY 03

- STABILITY AS PER AS 1418.5 2002 TABLE 9.3.2 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 WITH OUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- CRANE IS TO BE POSITIONED ON FLAT EVEN GROUND REFORE HOISTING
- STANDARD HOIST ROPE SPECIFICATION UP TO 18400KG (4 PARTS) 14MM 34 X 7 GRADE 1960 N/mm2 NON ROTATING MIN BREAKING FORCE 18400KG
- OPTIONAL HOIST ROPE SPECIFICATION UP TO 20000KG (4 PARTS)
 14MM 34 X 7 GRADE 2160 N/mm2 NON ROTATING
 MIN BREAKING FORCE 20000KG
- TYRE SPECIFICATION FRONT AND REAR SIZE 12.00 R20 CREEP LOAD RATING 8695KG @ 0-2 KPH STATIC LOAD RATING 9250KG @ 0 KPH TYRE PRESSURE 130 PSI
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- WHEN IN THE STRUCTURAL REGION, DETERMINED LOAD FOR MANUAL EXTENSIONS ARE BASED ON LUFFING ANGLE, NOT RADIUS
- WHEN IN THE STABILITY REGION, DETERMINED LOADS FOR MANUAL EXTENSION ARE BASED ON LOAD RADIUS, NOT LUFFING ANGLE

Rated capacity (kg) for <10° articulation
Rated capacity (kg) for >10° articulation
Boom angle in degrees

REV : C 8/07/2013

LC04 RHINO HOOK WITH MANUAL EXTENSION EXTENDED

PC25 MOBILE CRANE: RHINO HOOK MANUAL EXTENDED **PC25-LC04**

RADIUS FROM	BOOM LENGTH
FRONT AXLE (M)	18.77M
PROINT AXLE (IVI)	
5.2	6000
5.2	6000
	65
6.0	6000
6.0	5700
	63
7.0	4900
7.0	4410
	59
	4090
8.0	3470
	56
	3510
9.0	2980
	52
	3110
10.0	2640
	48
	2710
11.0	2300
	44
	2390
12.0	2030
	39
	2110
13.0	1790
	34
	1930
14.0	1640
	28
	1760
15.0	1500
	21
	1630
16.0	1390
	9
	1610
16.2	1370
10.2	0
	U

LMI DUTY 0

- STABILITY AS PER AS 1418.5 2002 TABLE 9.3.2 PICK AND CARRY 66.6% OF TIPPING LOAD
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- STANDARD HOIST ROPE SPECIFICATION UP TO 18400KG (4 PARTS) 14MM 34 X 7 GRADE 1960 N/mm2 NON ROTATING
 - MIN BREAKING FORCE 18400KG
- OPTIONAL HOIST ROPE SPECIFICATION UP TO 20000KG (4 PARTS)
 14MM 34 X 7 GRADE 2160 N/mm2 NON ROTATING
 MIN BREAKING FORCE 20000KG
- TYRE SPECIFICATION FRONT AND REAR SIZE 12.00 R20 CREEP LOAD RATING 8695KG @ 0-2 KPH STATIC LOAD RATING 9250KG @ 0 KPH TYRE PRESSURE 130 PSI
- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY
- WHEN IN THE STRUCTURAL REGION, DETERMINED LOAD FOR MANUAL EXTENSIONS ARE BASED ON LUFFING ANGLE, NOT RADIUS
- WHEN IN THE STABILITY REGION, DETERMINED LOADS FOR MANUAL EXTENSION ARE BASED ON LOAD RADIUS, NOT LUFFING ANGLE

Rated capacity (kg) for <10° articulation
Rated capacity (kg) for >10° articulation
Boom angle in degrees

REV : C 8/07/2013

LC05 TELE BOOM 1 WITH 20T LIFTING LUG

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PC25 MOBILE CRANE: TELE BOOM 1 - 20T LIFTING LUG PC25-LC05	00 00	6.0 6.5 7.0 7.5 8.0	19800 19800 18300	18800 18800 17300	54 57 60 62 64	20000 17500 17500 15500 12800 12700	0 18000 16600 16600 14700 12100 12000	51 55 57 60	15800 15600 13700 12800 10800	0 13700 15000 14800 13000 12100 10200	46 49 53 55	13400 13400 13400 13400 9500	10 11300 12000 12000 11600 10700 9000	39 44 48 51 54	11000 11000 11000 8500	9300 9300 10400 9500 8000	31 38 42 46 49	9200 9200 9200 7800	7800 7800 8200 8700 7400	21 30 36 41 45	7800 7800 7800 7200	21 29 35 40	0089 0089 0089	5700 5700 6100	20 28 34	0009 0009	5100 5100	19 27	5300	4500	19				43	38				
PC25 MOBILE CRANE: TELE BOOM 1 - 20T LIFTING LUG PC25-LC05	70 80 00 100 110	5.5 6.0 6.5 7.0 7.5 8.0	20000 19800 19800 18300	19000 18800 18800 17300	50 54 57 60 62 64	20000 20000 17500 17500 15500 12800 12700	0 18000 18000 16600 16600 14700 12100 12000	48 51 55 57 60	16400 16100 15800 15600 13700 12800 10800	0 13900 13700 15000 14800 13000 12100 10200	34 41 46 49 53 55	13400	11300 12000 12000 11600 10700 9000	33 39 44 48 51 54	11000	9300 9300 9300 10400 9500 8000	22 31 38 42 46 49	9200 9200 9200 7800	7800 7800 8200 8700 7400	21 30 36 41 45	7800 7800 7800 7200	21 29 35 40	0089 0089 0089	5700 5700 6100	20 28 34	0009 0009	5100 5100	19 27	5300	4500	19				43	36				

LC06 BASE BOOM 1 WITH 25T LIFTING LUG

PC25 MOBILE CRANE: BASE BOOM
- 25T LIFTING LUG **PC25-LC06**

LUG LENGTH (M)	4.748
RADIUS (M)	25000
1.0	20800
1.0	42
	18000
1.5	15000
	31
	16000
2.0	13300
	17
	15100
2.2	12500
	0

LMI DUTY 06

- STABILITY AS PER AS 1418.5 2002 TABLE 9.3.2 PICK AND CARRY 66.6% OF TIPPING LOAD
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 14MM 34 X 7 GRADE 2160 N/mm2 NON ROTATING
 MIN BREAKING FORCE 20000KG
- TYRE SPECIFICATION FRONT AND REAR SIZE 12.00 R20

CREEP LOAD RATING 8695KG @ 0-2 KPH STATIC LOAD RATING 9250KG @ 0 KPH

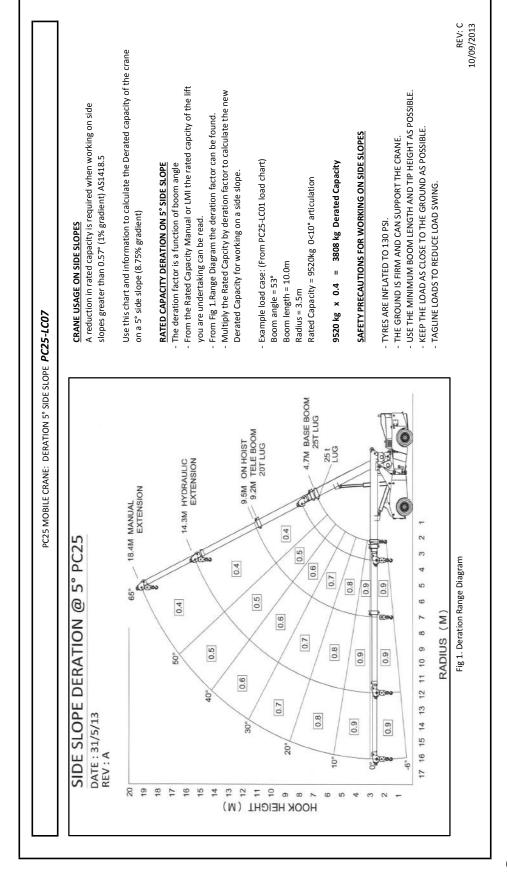
TYRE PRESSURE 130 PSI

- MASS OF SLINGS AND HOOK BLOCK TO BE ADDED
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL
- LOADS ABOVE THE BOLD RED LINE ARE LIMITED STRUCTURALLY
- LOADS BELOW THE BOLD RED LINE ARE LIMITED BY STABILITY

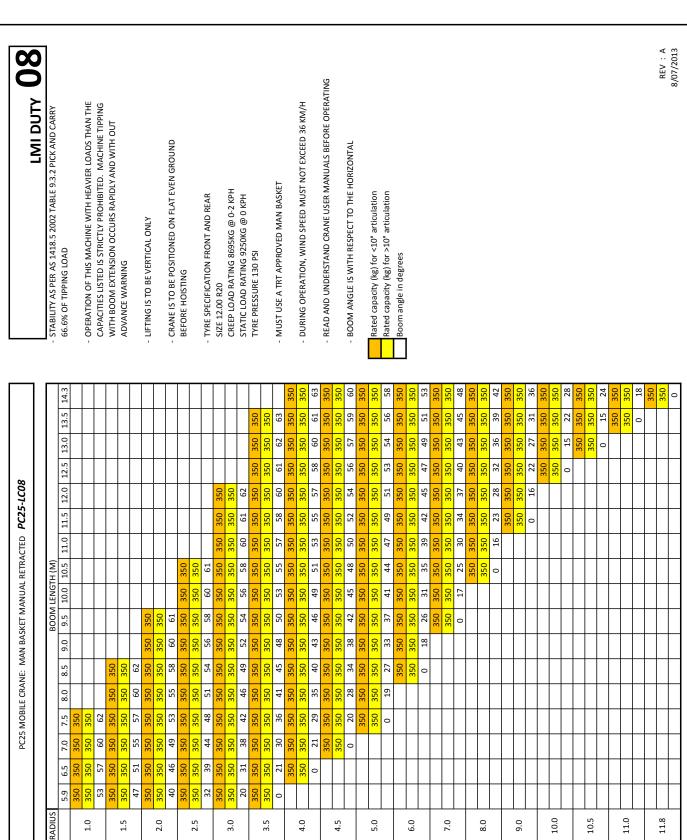
Rated capacity (kg) for <10° articulation
Rated capacity (kg) for >10° articulation
Boom angle in degrees

REV : C 8/07/2013

LC07 DERATION 5º



LC08 Man basket manual retracted



REV A

LC09 Man basket manual extended

PC25 MOBILE CRANE: MAN BASKET MANUAL EXTENDED **PC25-LC09**

RADIUS FROM FRONT AXLE (M) 18.45M 5.1 350 65 350 65 350 62 350 62 7.0 350 59 350 8.0 350
5.1 350 65 350 6.0 350 62 350 7.0 350 59 350
5.1 350 65 350 6.0 350 62 350 7.0 350 59 350
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7.0 350 350 59 350
7.0 350 59 350
59 350
350
8.0
330
55
350
9.0 350
51
350
10.0 350
47
350
11.0 350
43
350
12.0 350
38
350
13.0 350
33
350
14.0 350
26
350
15.0 350
18

350

350

0

15.9

LMI DUTY

09

- STABILITY AS PER AS 1418.5 2002 TABLE 9.3.2 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 WITH OUT ADVANCE WARNING
- LIFTING IS TO BE VERTICAL ONLY
- CRANE IS TO BE POSITIONED ON FLAT EVEN GROUND BEFORE HOISTING
- TYRE SPECIFICATION FRONT AND REAR SIZE 12.00 R20 CREEP LOAD RATING 8695KG @ 0-2 KPH STATIC LOAD RATING 9250KG @ 0 KPH TYRE PRESSURE 130 PSI
- MUST USE A TRT APPROVED MAN BASKET
- DURING OPERATION, WIND SPEED MUST NOT EXCEED 36 KM/H
- READ AND UNDERSTAND CRANE USER MANUALS BEFORE OPERATING
- BOOM ANGLE IS WITH RESPECT TO THE HORIZONTAL

Rated capacity (kg) for <10° articulation
Rated capacity (kg) for >10° articulation
Boom angle in degrees

REV: A 8/07/2013