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LIFT PLANNING DATA + RATED CAPACITY CHARTS

MAC 25

25 tonne articulated pick and carry crane

For developers, engineers, builders and lift planners

25,000 kg
Maximum rated capacity
counterweight on rear

23,900 kg
Counterweight on front
fall block at 1.4 m radius

18.42 m
Fully powered boom
6.12 m fully retracted

22.48 m
Longest configuration
with the 4 m fly jib

This document sets out the lifting capacities and planning data for our MAC 25 so you can check early whether a lift is workable: what it will pick up, at what radius, on which lifting point, and what has to be allowed for. The capacity figures are transcribed from the manufacturer's rated capacity manual for this model. Operator instructions are left out.

Planning reference only

Use this document to plan and price a lift, not to operate the crane. The rated capacity manual carried in the crane and the crane's load moment indicator (LMI) govern every lift, and final lift planning is confirmed by Whitsunday Crane Hire against site conditions on the day.

CICA The Crane Industry Council of Australia

CraneSafe®

Talk to us about your lift

Jack 0438 461 185 | Casey 0438 060 694
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WCH-MAC25-LPD Rev A October 2026. Capacity data source: Manufacturer's Rated Capacity Manual, Model MAC 25, book MXC1250A. Crane designed to AS 1418.1 and AS 1418.5 and tested to those standards for pick and carry operation on tyres.

Crane at a glance

Headline figures for a first-pass check. Full charts follow.

Specification

Item	Value
Crane type	Hydraulic all terrain articulated pick and carry crane, model MAC 25. Classified C3
Maximum rated capacity	25,000 kg at 1.4 m radius with the counterweight on the rear (fall block, butt lug, lug 1 or lug 2)
Counterweight on front	Maximum 23,900 kg on the fall block, 24,550 kg on lug 2, both at 1.4 m radius
Detachable counterweight	1,500 kg, part no. PLMXF2034. Fitted to the front or the rear of the crane, with a separate set of capacity charts for each. To be front mounted for road travel
Boom	6.12 m fully retracted to 18.42 m fully powered (boom pivot to head sheaves). The third boom extends beyond 14.32 m
Fly jib	3 m fly jib at 0° or 12.5° offset (maximum length 21.4 m). 4 m fly jib at 5° offset (22.48 m) or 17.5° offset (22.41 m)
Maximum working radius	Fall block with the boom at 0°: 15.71 m. Fly jib with the boom at 0°: up to 19.77 m
Spring lockouts	Front spring lockouts to be engaged for all lifting and pick and carry operations
Articulation	Up to 40° each way. Capacity reduces beyond 10°
Pick and carry	Permitted through the full articulation range. Maximum speed 0.4 m/s (1.44 km/h), transfer case in low range
Rated ground condition	Firm, level, uniform surface. Maximum 1% slope (0.6°)
Wind allowance	Wind on the boom up to 10 m/s (36 km/h) is included. Wind on the load is not
Winch rope	14 mm 35W x 7 NR 2070 MPa, minimum breaking force 165 kN, length 110 m
Tyres	Dual 14.00 x 20. Load ratings and pressures are on page 3
Design standards	AS 1418.1 and AS 1418.5

Lifting configurations

Lifting point	LMI duty front / rear	Boom length (m)	Max RC (kg) counterweight front	Max RC (kg) counterweight rear	Page front / rear
Fall block	101 / 201	6.12 to 18.42	**23,900**	**25,000**	7 / 13
Rhino hook	102 / 202	6.45 to 18.75	**15,000**	**15,000**	8 / 14
Offset head, bottom position	103 / 203	6.86 to 19.16	**8,400**	**8,400**	9 / 15
Offset head, top position	104 / 204	6.82 to 19.12	**8,400**	**8,400**	10 / 16
3 m fly jib, top position, 0° offset	105 / 205	Max length 21.4	**1,500**	**1,500**	19
3 m fly jib, top position, 12.5° offset	106 / 206	Max length 21.4	**1,300**	**1,300**	19
4 m fly jib, top position, 5° offset	107 / 207	Max length 22.48	**700**	**700**	19
4 m fly jib, bottom position, 17.5° offset	108 / 208	Max length 22.41	**600**	**600**	19
Man basket	109 / 209	See page 20	**275**	**275**	20
Butt lug	110 / 210	4.81	**23,550**	**25,000**	11 / 17
Lug 1 (boom 1)	111 / 211	5.36 to 9.46	**24,350**	**25,000**	11 / 17
Lug 2 (boom 2)	112 / 212	5.57 to 13.77	**24,550**	**25,000**	12 / 18

RC = rated capacity (shown as S.W.L. in the manufacturer's charts), the gross load on the lifting point including hooks, blocks and all lifting gear. Maximum RC is with articulation of 10° or less. Only one lifting point may be used at a time. Confirm with us which attachments are fitted and where the counterweight will be for your job.

How to use the charts

What the rated capacities include, and what you need to allow for.

Basis of the ratings

- Counterweight position. The 1,500 kg detachable counterweight can be fitted to the front or the rear of the crane. Each position has its own charts: LMI duties 101 to 112 for front, 201 to 212 for rear.
- Gross load. Rated capacity includes the hooks, blocks, slings, spreader bars and any other lifting gear. Deduct their mass to get the net load you can lift.
- Freely suspended loads only. No dragging, pushing or side loading of the boom or load.
- Firm, level ground. Ratings assume a firm, uniform surface within 1% (0.6°) of level, with the front spring lockouts engaged. Soft, uneven or sloping ground reduces capacity.
- Radius is measured horizontally from the centre of the front wheels forward to the centre of the rope or tackle, with the load applied.
- Two capacity sets. The crane steers by articulating. Ratings are given for 10° or less, and for greater than 10° up to 40°, either side of straight ahead. If the crane will articulate more than 10° at any point in the lift or carry, the greater than 10° figures apply.
- Structural or stability. Shaded capacities in each chart (above the red line in the manufacturer's charts) are limited by structural or hydraulic strength. Unshaded capacities are limited by stability.
- Between listed values. Where the boom length or radius falls between chart values, use the smallest capacity shown at either the next larger radius or boom length (or the interpolated value shown on the LMI).
- Boom angles are a setup guide only. They make no allowance for boom or tyre deflection, so plan to the radius.
- Wind. Wind on the boom up to 10 m/s (36 km/h) is built in. Any extra side loading from wind on the load reduces the rated capacity and must be considered.
- Hook reach. The range diagram on page 5 shows the areas where the fall block can reach the ground reeved on four parts and on six parts of rope.
- People. Personnel may only be lifted in the manufacturer's man basket correctly installed on the boom head (LMI duties 109 and 209), or other approved arrangement.
- Site factors. The operator reduces the working capacity for conditions on the day: ground, load swing, multi-crane lifts, powerlines, weather and surroundings.

Hook block capacity by parts of rope

Parts of rope	Permissible hook block RC (kg)
1	4,200
2	8,400
4	16,800
6	25,000

Attachment masses to deduct

Attachment	Part no.	Mass (kg)
Four / six part fall block	PLMXA3018	180
Four / six part fall block	PLMXA3033	230
25 tonne hook	PP2087500	20
9 tonne hook	PP2190200	10
Single part hook block	PL16M2090	30
Rhino hook	PLMXF3015	25
12 tonne spreader bar	PL16A3035	94
15 tonne spreader bar	PL15A8023	107

Masses apply to manufacturer supplied equipment. Slings, shackles and other rigging are additional.

Side slopes up to 5° (8.75%)

Travelling with a suspended load across a slope should be avoided (AS 2550.5). Where a side slope of up to 5° cannot be avoided, the rated capacity must be reduced by a percentage that depends on where the lifting point sits in the working range. In the manufacturer's side slope chart the reduction runs from 10% to 60%. The LMI does not apply this reduction automatically. Potholes and depressions have the same effect as a slope.

The manufacturer's side slope chart and worked example are on page 4.

Tyres: dual 14.00 x 20

Condition	Load rating per tyre
Pick and carry, under 1.44 km/h	10,500 kg at 830 kPa (120 psi)
Highway, 80 km/h	3,050 kg at 620 kPa (90 psi)

Inflation pressure	Pick and carry	Highway travel
Front	830 kPa (120 psi)	830 kPa (120 psi)
Rear	620 kPa (90 psi)	620 kPa (90 psi)

Dual fitment. Front pick and carry pressure of 830 kPa (120 psi) is for a maximum rated capacity of 25 tonne.

Not covered by the capacity charts: ask us

- Crane mass, axle loads and wheel loads for ground bearing, suspended slab, pavement and services checks.
- Overall dimensions, turning and access clearances for your site.
- Counterweight position, the attachments available for your job, and the crane's current inspection status.

Side slope reduction chart

Percentage reduction in rated capacity for the MAC 25 on a 5° (8.75%) side slope.

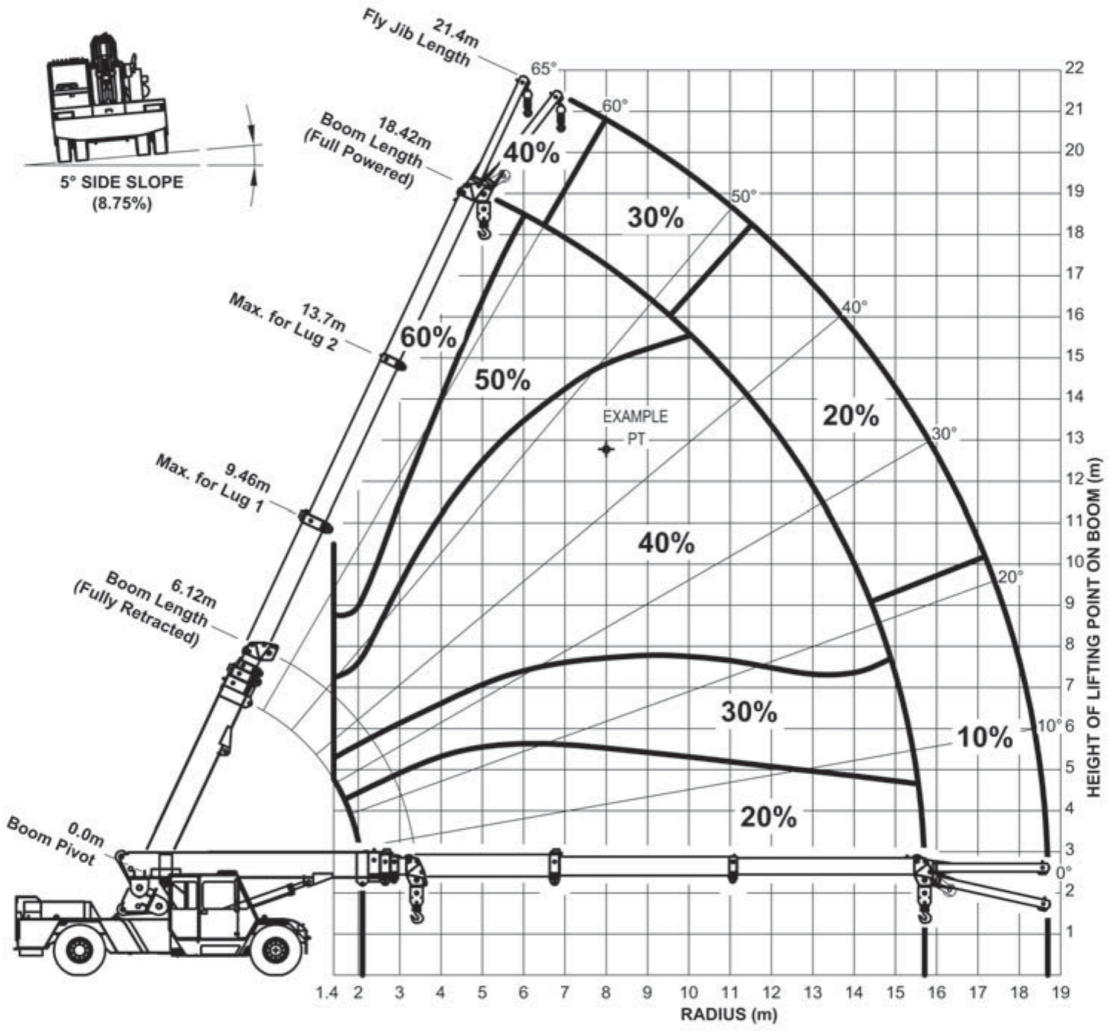


Diagram from the manufacturer's rated capacity manual for the MAC 25.

Chart notes

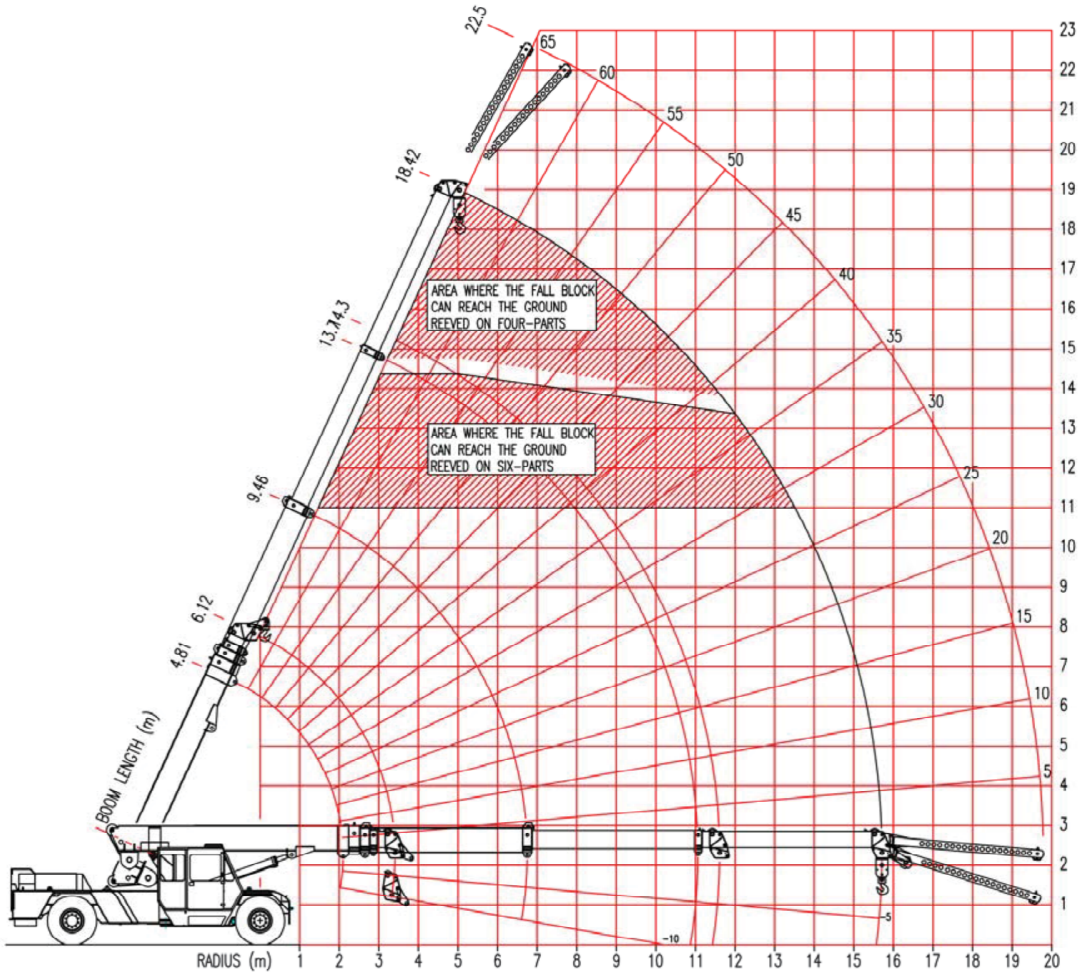
- The chart is based on 66.6% stability as per AS 1418.5 with the crane on a firm side slope of 5° (8.75% gradient).
- The percentage reduction depends on the location of the lifting point on the boom.
- Apply the percentage to the rated capacity read from the capacity chart for the applicable boom length, boom angle, load radius, articulation angle and counterweight position.
- The crane's load moment indicator does not apply this reduction automatically.

WORKED EXAMPLE FROM THE MANUFACTURER

Counterweight fitted on the rear of the crane, boom 15.0 m, loaded boom angle 45°, radius 8.0 m, articulation greater than 10°. This is the "example pt" marked on the chart.
Rated capacity on level ground: 3,700 kg.
Reduction at 5° side slope: 40%.
Rated capacity on the slope: 3,700 kg less 40% = 2,220 kg.

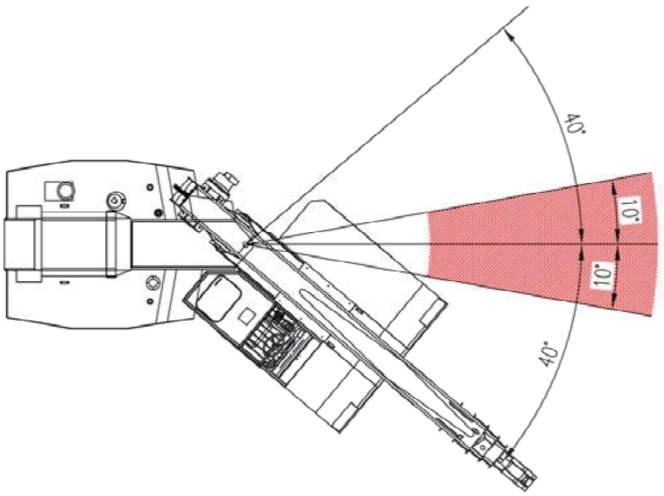
Range diagram and working area

Hook height against radius, and the two articulation zones.



Hatched areas show where the fall block can reach the ground reeved on four parts, and reeved on six parts. Diagram from the manufacturer's rated capacity manual for the MAC 25.

Working area diagram

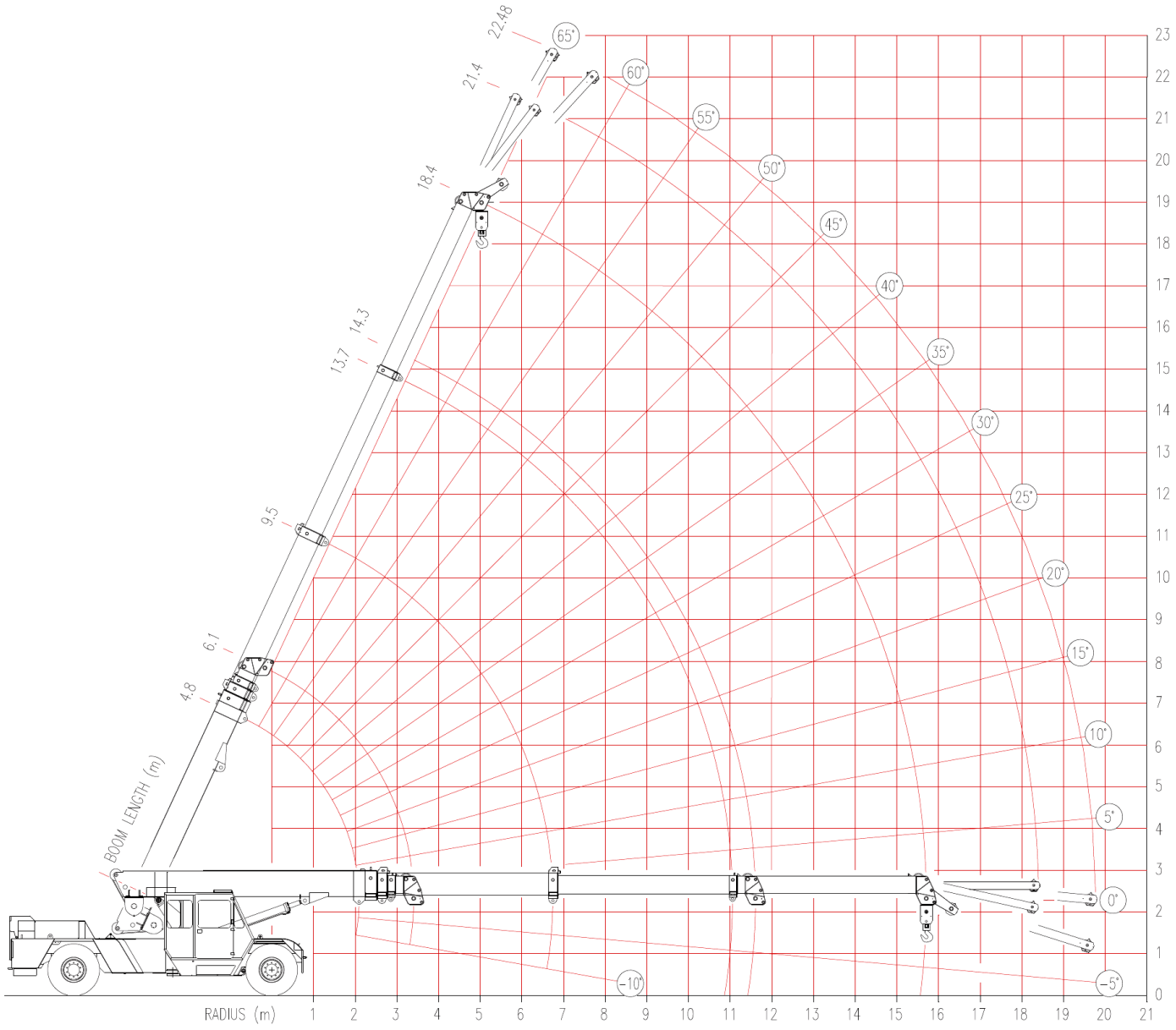


Rated capacities are given for two working areas: less than 10° of articulation, and greater than 10° of articulation, in either direction from straight ahead. Up to 40° of articulation is possible in either direction.

In the capacity charts the bold figures apply in the 10° or less zone and the regular figures in the greater than 10° zone.

Range diagram

Lifting capacity range diagram. Hook height (m) against radius (m).



Conditions: front spring lockouts to be engaged for all lifting and pick and carry operations.

Radius is measured from the centre of the front wheels. Diagram from the manufacturer's rated capacity manual for the MAC 25.

Fall block

COUNTERWEIGHT ON FRONT

LMI Duty 101. Boom pivot to head sheaves, 6.12 m to 18.42 m. Spring lockouts engaged.

23,900 Rated capacity in kg. Bold = articulation 10° or less. 23,900 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to head sheaves, third boom retracted (m)																Third boom extending (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	14.32	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42
1.4	≤10°	**23,900**	**23,850**	**23,750**	**23,800**	**23,800**	**23,750**	**23,750**	**23,750**																		
	>10°	23,750	22,450	20,950	19,200	17,750	16,600	15,600	14,750																		
	angle	*48*	*51*	*54*	*57*	*59*	*61*	*63*	*65*																		
2.0	≤10°	**19,950**	**19,900**	**19,850**	**19,800**	**19,750**	**19,750**	**19,700**	**19,650**	**19,650**	**19,600**	**19,300**															
	>10°	17,850	17,850	17,800	16,850	15,950	15,150	14,500	13,750	13,000	12,350	11,750															
	angle	*40*	*44*	*48*	*51*	*54*	*57*	*59*	*61*	*62*	*64*	*65*															
2.5	≤10°	**15,700**	**15,650**	**15,600**	**15,600**	**15,550**	**15,500**	**15,500**	**15,450**	**15,450**	**15,400**	**15,400**	**15,350**	**14,600**													
	>10°	14,000	14,000	13,950	13,900	13,900	13,400	12,800	12,300	11,800	11,400	10,950	10,500	10,050													
	angle	*32*	*37*	*42*	*46*	*50*	*52*	*55*	*57*	*59*	*61*	*62*	*63*	*65*													
3.0	≤10°	**12,800**	**12,800**	**12,800**	**12,750**	**12,700**	**12,700**	**12,650**	**12,650**	**12,600**	**12,600**	**12,600**	**12,550**	**12,550**	**12,550**	**12,500**	**12,250**										
	>10°	11,450	11,400	11,400	11,350	11,350	11,300	11,300	10,950	10,550	10,150	9,800	9,500	9,200	8,950	8,600	8,300										
	angle	*21*	*29*	*35*	*41*	*45*	*48*	*51*	*53*	*55*	*57*	*59*	*61*	*62*	*63*	*64*	*65*										
3.5	≤10°	**11,050**	**10,750**	**10,750**	**10,750**	**10,700**	**10,700**	**10,650**	**10,650**	**10,600**	**10,600**	**10,600**	**10,550**	**10,550**	**10,550**	**10,500**	**10,500**	**10,500**	**10,500**								
	>10°	9,800	9,550	9,550	9,550	9,500	9,500	9,450	9,450	9,450	9,150	8,850	8,550	8,300	8,050	7,850	7,650	7,300	7,250								
	angle	*(3.4)*	*17*	*28*	*34*	*39*	*43*	*47*	*49*	*52*	*54*	*56*	*58*	*59*	*61*	*62*	*63*	*65*	*65*								
4.0	≤10°		**9,750**	**9,200**	**9,200**	**9,200**	**9,150**	**9,150**	**9,150**	**9,100**	**9,100**	**9,100**	**9,050**	**9,050**	**9,050**	**9,050**	**9,000**	**9,000**	**9,000**	**9,050**	**9,100**						
	>10°		8,650	8,150	8,150	8,150	8,150	8,100	8,100	8,050	8,050	8,000	7,750	7,550	7,350	7,150	6,950	6,650	6,650	6,500	6,400						
	angle		*(3.8)*	*17*	*27*	*33*	*38*	*42*	*45*	*48*	*51*	*53*	*55*	*56*	*58*	*59*	*61*	*62*	*63*	*64*	*65*						
5.0	≤10°			**8,450**	**7,400**	**7,050**	**7,050**	**7,050**	**7,000**	**7,000**	**7,000**	**6,950**	**6,950**	**6,950**	**6,950**	**6,950**	**6,900**	**6,900**	**6,900**	**6,950**	**7,000**	**7,050**	**7,100**	**7,100**	**7,150**	**7,200**	
	>10°			7,450	6,500	6,200	6,200	6,200	6,200	6,150	6,150	6,150	6,150	6,100	6,100	6,000	5,800	5,600	5,550	5,500	5,400	5,350	5,300	5,200	5,150	5,100	
	angle			*(4.3)*	*(4.8)*	*16*	*25*	*31*	*36*	*40*	*43*	*46*	*48*	*50*	*52*	*54*	*56*	*58*	*58*	*59*	*61*	*62*	*63*	*63*	*64*	*65*	
6.0	≤10°					**6,550**	**5,850**	**5,600**	**5,600**	**5,600**	**5,600**	**5,550**	**5,550**	**5,550**	**5,550**	**5,550**	**5,500**	**5,500**	**5,500**	**5,550**	**5,600**	**5,650**	**5,700**	**5,700**	**5,750**	**5,750**	**5,800**
	>10°					5,750	5,100	4,900	4,900	4,900	4,900	4,850	4,850	4,850	4,850	4,850	4,850	4,750	4,750	4,700	4,650	4,600	4,550	4,500	4,450	4,400	4,350
	angle					*(5.3)*	*(5.8)*	*15*	*24*	*30*	*34*	*38*	*41*	*44*	*46*	*48*	*50*	*53*	*53*	*55*	*56*	*57*	*58*	*60*	*61*	*61*	*62*
7.0	≤10°							**5,250**	**4,750**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,500**	**4,500**	**4,500**	**4,550**	**4,600**	**4,650**	**4,650**	**4,700**	**4,750**	**4,750**	**4,800**
	>10°							4,600	4,100	3,950	3,950	3,950	3,950	3,950	3,950	3,950	3,950	3,900	3,950	3,950	4,000	4,000	3,950	3,900	3,850	3,850	3,800
	angle							*(6.3)*	*(6.8)*	*14*	*23*	*28*	*33*	*36*	*39*	*42*	*44*	*48*	*48*	*50*	*52*	*53*	*54*	*56*	*57*	*58*	*59*
8.0	≤10°									**4,300**	**3,900**	**3,800**	**3,800**	**3,800**	**3,800**	**3,750**	**3,750**	**3,750**	**3,750**	**3,800**	**3,850**	**3,900**	**3,900**	**3,950**	**4,000**	**4,000**	**4,050**
	>10°									3,700	3,400	3,250	3,250	3,250	3,250	3,250	3,250	3,250	3,250	3,300	3,350	3,350	3,400	3,450	3,400	3,350	3,350
	angle									*(7.3)*	*(7.8)*	*14*	*22*	*27*	*31*	*35*	*38*	*42*	*43*	*45*	*47*	*48*	*50*	*51*	*53*	*54*	*55*
9.0	≤10°											**3,600**	**3,300**	**3,200**	**3,200**	**3,200**	**3,200**	**3,150**	**3,200**	**3,250**	**3,250**	**3,300**	**3,350**	**3,350**	**3,400**	**3,400**	**3,450**
	>10°											3,100	2,800	2,700	2,700	2,700	2,700	2,700	2,700	2,750	2,800	2,850	2,850	2,900	2,950	2,950	2,950
	angle											*(8.3)*	*(8.8)*	*13*	*21*	*26*	*30*	*35*	*36*	*39*	*41*	*43*	*45*	*47*	*48*	*50*	*51*
10	≤10°													**3,000**	**2,800**	**2,700**	**2,700**	**2,700**	**2,700**	**2,750**	**2,800**	**2,850**	**2,850**	**2,900**	**2,900**	**2,950**	**2,950**
	>10°													2,550	2,350	2,300	2,300	2,300	2,300	2,350	2,400	2,400	2,450	2,450	2,500	2,550	2,550
	angle													*(9.3)*	*(9.8)*	*12*	*20*	*28*	*29*	*32*	*35*	*38*	*40*	*42*	*44*	*45*	*47*
11	≤10°															**2,550**	**2,350**	**2,300**	**2,350**	**2,350**	**2,400**	**2,450**	**2,450**	**2,500**	**2,550**	**2,550**	**2,600**
	>10°															2,150	2,000	1,950	1,950	2,000	2,050	2,050	2,100	2,150	2,150	2,200	2,200
	angle															*(10.3)*	*(10.8)*	*17*	*19*	*24*	*28*	*31*	*34*	*37*	*39*	*41*	*42*
12	≤10°																	**2,100**	**2,050**	**2,050**	**2,100**	**2,100**	**2,150**	**2,200**	**2,200**	**2,250**	**2,250**
	>10°																	1,750	1,700	1,700	1,750	1,750	1,800	1,850	1,850	1,900	1,900
	angle																	*(11.6)*	*(11.8)*	*12*	*19*	*23*	*27*	*30*	*33*	*36*	*37*
13	≤10°																			**1,950**	**1,850**	**1,850**	**1,850**	**1,900**	**1,950**	**1,950**	**2,000**
	>10°																			1,600	1,500	1,500	1,550	1,600	1,600	1,650	1,650
	angle																			*(12.3)*	*(12.8)*	*11*	*18*	*23*	*27*	*30*	*32*
14	≤10°																					**1,750**	**1,650**	**1,650**	**1,700**	**1,700**	**1,750**
	>10°																					1,450	1,350	1,350	1,400	1,400	1,450
	angle																					*(13.3)*	*(13.8)*	*11*	*18*	*22*	*25*
15	≤10°																							**1,600**	**1,500**	**1,500**	**1,550**
	>10°																							1,300	1,250	1,250	1,250
	angle																							*(14.3)*	*(14.8)*	*11*	*16*
15.71	≤10°																									**1,450**	**1,400**
	>10°																									1,150	1,100
	angle																									*(15.3)*	*(15.7)*

Rhino hook

COUNTERWEIGHT ON FRONT

LMI Duty 102. Boom pivot to hook centre, 6.45 m to 18.75 m. Spring lockouts engaged.

15,000 Rated capacity in kg. Bold = articulation 10° or less. 15,000 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to hook centre, third boom retracted (m)																Third boom extending (m)								
		6.45	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	14.65	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	18.75
1.4	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**																			
	>10°	15,000	15,000	15,000	15,000	15,000	15,000	14,850																			
	angle	*52*	*55*	*58*	*60*	*62*	*64*	*65*																			
2.0	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**																
	>10°	15,000	15,000	15,000	15,000	15,000	14,650	13,850	13,100	12,400	11,850																
	angle	*44*	*49*	*52*	*55*	*57*	*59*	*61*	*63*	*64*	*65*																
2.5	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**14,200**														
	>10°	14,200	14,150	14,100	14,050	13,550	12,950	12,400	11,950	11,500	11,050	10,550	10,100														
	angle	*37*	*43*	*47*	*50*	*53*	*56*	*58*	*59*	*61*	*63*	*64*	*65*														
3.0	≤10°	**13,000**	**12,950**	**12,900**	**12,900**	**12,850**	**12,800**	**12,800**	**12,750**	**12,750**	**12,700**	**12,700**	**12,700**	**12,650**	**12,300**												
	>10°	11,600	11,550	11,550	11,500	11,450	11,450	11,100	10,650	10,250	9,900	9,600	9,300	9,050	8,700												
	angle	*29*	*36*	*41*	*45*	*49*	*52*	*54*	*56*	*58*	*60*	*61*	*62*	*64*	*65*												
3.5	≤10°	**10,900**	**10,900**	**10,900**	**10,850**	**10,800**	**10,800**	**10,750**	**10,750**	**10,700**	**10,700**	**10,700**	**10,650**	**10,650**	**10,650**	**10,600**	**10,600**										
	>10°	9,750	9,700	9,700	9,650	9,650	9,600	9,600	9,550	9,250	8,950	8,650	8,400	8,150	7,950	7,700	7,500										
	angle	*17*	*29*	*35*	*40*	*44*	*47*	*50*	*52*	*55*	*56*	*58*	*60*	*61*	*62*	*63*	*64*										
4.0	≤10°	**10,050**	**9,350**	**9,350**	**9,300**	**9,300**	**9,250**	**9,250**	**9,250**	**9,200**	**9,200**	**9,150**	**9,150**	**9,150**	**9,150**	**9,100**	**9,100**	**9,100**	**9,100**	**9,150**							
	>10°	8,950	8,300	8,300	8,300	8,250	8,250	8,200	8,200	8,150	8,100	7,850	7,650	7,400	7,200	7,000	6,850	6,650	6,550	6,450							
	angle	*(3.7)*	*18*	*28*	*34*	*39*	*43*	*46*	*49*	*51*	*53*	*55*	*57*	*58*	*60*	*61*	*62*	*63*	*64*	*65*							
5.0	≤10°		**8,550**	**7,500**	**7,150**	**7,150**	**7,150**	**7,100**	**7,100**	**7,100**	**7,050**	**7,050**	**7,050**	**7,000**	**7,000**	**7,000**	**7,000**	**7,000**	**7,000**	**7,050**	**7,100**	**7,100**	**7,150**	**7,200**	**7,200**		
	>10°		7,600	6,650	6,300	6,300	6,300	6,300	6,250	6,250	6,250	6,200	6,200	6,200	6,050	5,900	5,750	5,550	5,500	5,450	5,350	5,300	5,250	5,150	5,100		
	angle		*(4.3)*	*(4.8)*	*17*	*26*	*32*	*37*	*40*	*44*	*46*	*49*	*51*	*53*	*54*	*56*	*57*	*59*	*60*	*61*	*62*	*63*	*64*	*65*	*65*		
6.0	≤10°				**6,650**	**5,900**	**5,700**	**5,700**	**5,650**	**5,650**	**5,650**	**5,650**	**5,600**	**5,600**	**5,600**	**5,600**	**5,600**	**5,550**	**5,600**	**5,650**	**5,650**	**5,700**	**5,750**	**5,750**	**5,800**	**5,850**	**5,850**
	>10°				5,850	5,200	5,000	5,000	5,000	4,950	4,950	4,950	4,950	4,900	4,900	4,900	4,900	4,750	4,700	4,650	4,600	4,550	4,500	4,450	4,400	4,350	4,350
	angle				*(5.3)*	*(5.8)*	*16*	*24*	*30*	*35*	*38*	*42*	*44*	*47*	*49*	*51*	*52*	*54*	*55*	*57*	*58*	*59*	*60*	*61*	*62*	*63*	*63*
7.0	≤10°						**5,300**	**4,800**	**4,650**	**4,650**	**4,600**	**4,600**	**4,600**	**4,600**	**4,600**	**4,600**	**4,550**	**4,550**	**4,600**	**4,650**	**4,650**	**4,700**	**4,750**	**4,750**	**4,800**	**4,800**	**4,800**
	>10°						4,650	4,200	4,050	4,050	4,050	4,000	4,000	4,000	4,000	4,000	4,000	3,950	4,000	4,050	4,000	3,950	3,900	3,900	3,850	3,800	3,800
	angle						*(6.3)*	*(6.8)*	*15*	*23*	*29*	*33*	*37*	*40*	*42*	*45*	*47*	*49*	*50*	*52*	*53*	*55*	*56*	*57*	*58*	*59*	*60*
8.0	≤10°								**4,350**	**3,950**	**3,850**	**3,850**	**3,850**	**3,850**	**3,850**	**3,800**	**3,800**	**3,800**	**3,850**	**3,850**	**3,900**	**3,950**	**3,950**	**4,000**	**4,000**	**4,050**	**4,050**
	>10°								3,800	3,450	3,350	3,350	3,300	3,300	3,300	3,300	3,300	3,300	3,300	3,350	3,400	3,400	3,450	3,400	3,400	3,350	3,350
	angle								*(7.3)*	*(7.8)*	*14*	*22*	*28*	*32*	*35*	*38*	*41*	*44*	*45*	*47*	*49*	*50*	*52*	*53*	*54*	*55*	*56*
9.0	≤10°										**3,650**	**3,350**	**3,250**	**3,250**	**3,250**	**3,250**	**3,200**	**3,200**	**3,250**	**3,300**	**3,300**	**3,350**	**3,350**	**3,400**	**3,450**	**3,450**	**3,450**
	>10°										3,150	2,850	2,750	2,750	2,750	2,750	2,750	2,750	2,800	2,800	2,850	2,900	2,900	2,950	2,950	3,000	2,950
	angle										*(8.3)*	*(8.8)*	*13*	*21*	*27*	*31*	*34*	*38*	*39*	*42*	*44*	*46*	*47*	*49*	*50*	*51*	*52*
10	≤10°												**3,050**	**2,800**	**2,750**	**2,750**	**2,750**	**2,750**	**2,750**	**2,800**	**2,850**	**2,850**	**2,900**	**2,950**	**2,950**	**3,000**	**3,000**
	>10°												2,600	2,400	2,350	2,350	2,350	2,300	2,350	2,400	2,400	2,450	2,500	2,500	2,550	2,550	2,550
	angle												*(9.3)*	*(9.8)*	*13*	*20*	*26*	*31*	*33*	*36*	*38*	*40*	*42*	*44*	*46*	*47*	*48*
11	≤10°														**2,600**	**2,400**	**2,350**	**2,350**	**2,400**	**2,400**	**2,450**	**2,500**	**2,500**	**2,550**	**2,550**	**2,600**	**2,600**
	>10°														2,200	2,000	1,950	1,950	2,000	2,050	2,050	2,100	2,150	2,150	2,200	2,200	2,200
	angle														*(10.3)*	*(10.8)*	*12*	*21*	*25*	*29*	*32*	*35*	*37*	*39*	*41*	*43*	*44*
12	≤10°																**2,250**	**2,000**	**2,050**	**2,100**	**2,100**	**2,150**	**2,200**	**2,200**	**2,250**	**2,250**	**2,250**
	>10°																1,850	1,650	1,700	1,750	1,750	1,800	1,850	1,850	1,900	1,900	1,950
	angle																*(11.3)*	*(11.9)*	*12*	*19*	*24*	*28*	*31*	*34*	*36*	*38*	*39*
13	≤10°																		**1,950**	**1,850**	**1,850**	**1,850**	**1,900**	**1,950**	**1,950**	**2,000**	**2,000**
	>10°																		1,600	1,500	1,500	1,550	1,600	1,600	1,650	1,650	1,700
	angle																		*(12.3)*	*(12.8)*	*12*	*18*	*23*	*27*	*30*	*33*	*34*
14	≤10°																				**1,750**	**1,650**	**1,650**	**1,700**	**1,700**	**1,750**	**1,750**
	>10°																				1,450	1,350	1,350	1,400	1,400	1,450	1,450
	angle																				*(13.3)*	*(13.8)*	*11*	*18*	*23*	*26*	*28*
15	≤10°																						**1,600**	**1,500**	**1,500**	**1,550**	**1,550**
	>10°																						1,300	1,250	1,250	1,250	1,250
	angle																						*(14.3)*	*(14.8)*	*11*	*17*	*20*
16	≤10°																								**1,450**	**1,400**	**1,350**
	>10°																								1,150	1,100	1,100
	angle																								*(15.3)*	*(15.8)*	*(16.)*

Offset head, bottom position

COUNTERWEIGHT ON FRONT

LMI Duty 103. Boom pivot to edge of sheave, 6.86 m to 19.16 m. Spring lockouts engaged.

8,400 Rated capacity in kg. Bold = articulation 10° or less. 8,400 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to edge of sheave, third boom retracted (m)																	Third boom extending (m)							
		6.86	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	15.06	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.16
1.4	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																				
	>10°	8,400	8,400	8,400	8,400	8,400	8,400																				
	angle	*55*	*56*	*59*	*61*	*63*	*65*																				
2.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																	
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400																	
	angle	*49*	*50*	*53*	*56*	*58*	*60*	*62*	*64*	*65*																	
2.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**															
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400															
	angle	*43*	*44*	*48*	*51*	*54*	*56*	*58*	*60*	*62*	*63*	*65*															
3.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**												
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400												
	angle	*36*	*38*	*43*	*46*	*50*	*52*	*55*	*57*	*59*	*60*	*62*	*63*	*64*	*65*												
3.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**										
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,250	8,050	7,850	7,600										
	angle	*27*	*30*	*36*	*41*	*45*	*48*	*51*	*53*	*55*	*57*	*59*	*60*	*62*	*63*	*64*	*65*										
4.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**								
	>10°	8,050	8,400	8,400	8,400	8,400	8,400	8,350	8,350	8,300	8,250	8,000	7,750	7,500	7,300	7,100	6,950	6,750	6,600								
	angle	*(4.2)*	*19*	*29*	*35*	*40*	*44*	*47*	*50*	*52*	*54*	*56*	*58*	*59*	*60*	*62*	*63*	*64*	*65*								
5.0	≤10°		**8,400**	**7,650**	**7,300**	**7,300**	**7,250**	**7,250**	**7,200**	**7,200**	**7,200**	**7,150**	**7,150**	**7,150**	**7,100**	**7,100**	**7,100**	**7,100**	**7,050**	**7,100**	**7,150**	**7,200**	**7,200**	**7,250**			
	>10°		7,750	6,750	6,450	6,450	6,450	6,400	6,400	6,350	6,350	6,350	6,300	6,300	6,150	6,000	5,850	5,700	5,550	5,500	5,400	5,350	5,250	5,200			
	angle		*(4.3)*	*(4.8)*	*18*	*27*	*33*	*38*	*41*	*44*	*47*	*49*	*52*	*53*	*55*	*57*	*58*	*59*	*61*	*61*	*62*	*63*	*64*	*65*			
6.0	≤10°				**6,750**	**6,050**	**5,800**	**5,800**	**5,800**	**5,750**	**5,750**	**5,750**	**5,700**	**5,700**	**5,700**	**5,700**	**5,650**	**5,650**	**5,650**	**5,700**	**5,700**	**5,750**	**5,800**	**5,800**	**5,850**	**5,850**	**5,850**
	>10°				5,950	5,300	5,100	5,100	5,100	5,050	5,050	5,050	5,050	5,000	5,000	5,000	5,000	4,850	4,750	4,700	4,650	4,600	4,550	4,500	4,450	4,400	4,300
	angle				*(5.3)*	*(5.8)*	*16*	*25*	*31*	*36*	*39*	*42*	*45*	*47*	*49*	*51*	*53*	*54*	*56*	*57*	*58*	*59*	*60*	*61*	*62*	*63*	*64*
7.0	≤10°						**5,400**	**4,900**	**4,750**	**4,750**	**4,700**	**4,700**	**4,700**	**4,700**	**4,700**	**4,650**	**4,650**	**4,650**	**4,650**	**4,650**	**4,700**	**4,750**	**4,750**	**4,800**	**4,800**	**4,850**	**4,900**
	>10°						4,750	4,300	4,150	4,150	4,150	4,100	4,100	4,100	4,100	4,050	4,050	4,050	4,050	4,050	4,050	4,000	3,950	3,900	3,850	3,850	3,800
	angle						*(6.3)*	*(6.8)*	*16*	*24*	*30*	*34*	*37*	*40*	*43*	*45*	*47*	*49*	*51*	*52*	*54*	*55*	*56*	*57*	*59*	*59*	*61*
8.0	≤10°								**4,450**	**4,050**	**3,950**	**3,950**	**3,950**	**3,900**	**3,900**	**3,900**	**3,900**	**3,900**	**3,850**	**3,900**	**3,950**	**3,950**	**4,000**	**4,050**	**4,050**	**4,100**	**4,100**
	>10°								3,900	3,500	3,400	3,400	3,400	3,400	3,400	3,400	3,350	3,350	3,350	3,400	3,400	3,450	3,450	3,450	3,400	3,400	3,350
	angle								*(7.3)*	*(7.8)*	*15*	*23*	*28*	*33*	*36*	*39*	*41*	*44*	*46*	*48*	*49*	*51*	*52*	*53*	*55*	*56*	*57*
9.0	≤10°										**3,700**	**3,400**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,300**	**3,350**	**3,400**	**3,400**	**3,450**	**3,450**	**3,500**	**3,500**
	>10°										3,200	2,950	2,850	2,850	2,850	2,850	2,850	2,800	2,800	2,850	2,900	2,900	2,950	2,950	3,000	3,000	2,950
	angle										*(8.3)*	*(8.8)*	*14*	*22*	*27*	*31*	*35*	*37*	*40*	*42*	*44*	*46*	*48*	*49*	*51*	*52*	*53*
10	≤10°												**3,150**	**2,900**	**2,800**	**2,800**	**2,800**	**2,800**	**2,800**	**2,850**	**2,850**	**2,900**	**2,950**	**2,950**	**3,000**	**3,000**	**3,050**
	>10°												2,700	2,450	2,400	2,400	2,400	2,400	2,400	2,400	2,450	2,500	2,500	2,550	2,550	2,600	2,600
	angle												*(9.3)*	*(9.8)*	*14*	*21*	*26*	*30*	*34*	*36*	*39*	*41*	*43*	*45*	*46*	*48*	*50*
11	≤10°														**2,650**	**2,450**	**2,400**	**2,400**	**2,400**	**2,450**	**2,450**	**2,500**	**2,550**	**2,550**	**2,600**	**2,600**	**2,650**
	>10°														2,250	2,100	2,050	2,050	2,050	2,050	2,100	2,150	2,150	2,200	2,200	2,250	2,250
	angle														*(10.3)*	*(10.8)*	*13*	*20*	*26*	*29*	*32*	*35*	*37*	*40*	*42*	*43*	*45*
12	≤10°																**2,300**	**2,100**	**2,050**	**2,100**	**2,150**	**2,200**	**2,200**	**2,250**	**2,250**	**2,300**	**2,300**
	>10°																1,900	1,750	1,700	1,750	1,800	1,850	1,850	1,900	1,900	1,950	1,950
	angle																*(11.3)*	*(11.8)*	*14*	*20*	*24*	*28*	*31*	*34*	*36*	*39*	*41*
13	≤10°																		**1,950**	**1,850**	**1,850**	**1,900**	**1,900**	**1,950**	**2,000**	**2,000**	**2,050**
	>10°																		1,600	1,550	1,550	1,550	1,600	1,650	1,650	1,700	1,700
	angle																		*(12.4)*	*(12.8)*	*12*	*19*	*24*	*27*	*30*	*33*	*36*
14	≤10°																				**1,750**	**1,700**	**1,700**	**1,700**	**1,750**	**1,750**	**1,800**
	>10°																				1,450	1,350	1,400	1,400	1,450	1,450	1,500
	angle																				*(13.3)*	*(13.8)*	*12*	*18*	*23*	*27*	*30*
15	≤10°																						**1,600**	**1,500**	**1,500**	**1,550**	**1,600**
	>10°																						1,300	1,250	1,250	1,250	1,300
	angle																						*(14.3)*	*(14.8)*	*12*	*18*	*24*
16.4	≤10°																								**1,450**	**1,400**	**1,300**
	>10°																								1,200	1,100	1,050
	angle																								*(15.3)*	*(15.8)*	*(16.4)*

Offset head, top position

COUNTERWEIGHT ON FRONT

LMI Duty 104. Boom pivot to edge of sheave, 6.82 m to 19.12 m. Spring lockouts engaged.

8,400 Rated capacity in kg. Bold = articulation 10° or less. 8,400 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to edge of sheave, third boom retracted (m)																	Third boom extending (m)							
		6.82	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	15.02	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.12
1.4	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																			
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400																			
	angle	*52*	*53*	*56*	*58*	*60*	*62*	*64*																			
2.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400																
	angle	*45*	*47*	*50*	*53*	*56*	*58*	*60*	*61*	*63*	*64*																
2.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**														
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400														
	angle	*39*	*41*	*45*	*49*	*52*	*54*	*56*	*58*	*60*	*61*	*63*	*64*														
3.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**											
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400											
	angle	*32*	*34*	*40*	*44*	*47*	*50*	*53*	*55*	*57*	*58*	*60*	*61*	*63*	*64*	*65*											
3.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**									
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,200	7,950	7,750	7,550	7,300									
	angle	*24*	*27*	*33*	*38*	*42*	*46*	*49*	*51*	*53*	*55*	*57*	*59*	*60*	*61*	*62*	*63*	*64*									
4.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**							
	>10°	8,150	8,400	8,400	8,350	8,350	8,300	8,250	8,250	8,200	8,150	7,900	7,650	7,450	7,250	7,050	6,850	6,700	6,550	6,450							
	angle	*(4.1)*	*16*	*26*	*32*	*37*	*41*	*45*	*47*	*50*	*52*	*54*	*56*	*57*	*59*	*60*	*61*	*62*	*63*	*64*							
5.0	≤10°		**8,400**	**7,600**	**7,250**	**7,200**	**7,200**	**7,150**	**7,150**	**7,150**	**7,100**	**7,100**	**7,050**	**7,050**	**7,050**	**7,000**	**7,000**	**7,000**	**6,950**	**7,000**	**7,050**	**7,100**	**7,100**	**7,150**	**7,200**		
	>10°		7,750	6,750	6,400	6,400	6,350	6,350	6,300	6,300	6,250	6,250	6,250	6,200	6,100	5,900	5,750	5,650	5,500	5,400	5,350	5,300	5,200	5,150	5,100		
	angle		*(4.3)*	*(4.8)*	*15*	*24*	*30*	*35*	*39*	*42*	*45*	*48*	*50*	*52*	*53*	*55*	*56*	*58*	*59*	*60*	*61*	*62*	*63*	*64*	*65*		
6.0	≤10°				**6,750**	**6,000**	**5,750**	**5,750**	**5,750**	**5,700**	**5,700**	**5,650**	**5,650**	**5,650**	**5,650**	**5,600**	**5,600**	**5,600**	**5,550**	**5,600**	**5,650**	**5,700**	**5,700**	**5,750**	**5,750**	**5,800**	**5,850**
	>10°				5,950	5,300	5,050	5,050	5,050	5,000	5,000	5,000	4,950	4,950	4,950	4,900	4,900	4,800	4,700	4,650	4,600	4,550	4,500	4,450	4,400	4,350	4,300
	angle				*(5.3)*	*(5.8)*	*14*	*23*	*29*	*34*	*37*	*40*	*43*	*46*	*48*	*50*	*51*	*53*	*54*	*56*	*57*	*58*	*59*	*60*	*61*	*62*	*63*
7.0	≤10°						**5,400**	**4,900**	**4,700**	**4,700**	**4,700**	**4,650**	**4,650**	**4,650**	**4,600**	**4,600**	**4,600**	**4,600**	**4,550**	**4,600**	**4,650**	**4,700**	**4,700**	**4,750**	**4,750**	**4,800**	**4,800**
	>10°						4,750	4,250	4,100	4,100	4,100	4,050	4,050	4,050	4,050	4,000	4,000	4,000	4,000	4,000	4,000	3,950	3,900	3,850	3,850	3,800	3,750
	angle						*(6.3)*	*(6.8)*	*14*	*22*	*28*	*32*	*36*	*39*	*41*	*44*	*46*	*48*	*50*	*51*	*53*	*54*	*55*	*56*	*57*	*58*	*59*
8.0	≤10°								**4,450**	**4,050**	**3,900**	**3,900**	**3,900**	**3,900**	**3,850**	**3,850**	**3,850**	**3,850**	**3,800**	**3,850**	**3,900**	**3,900**	**3,950**	**4,000**	**4,000**	**4,050**	**4,050**
	>10°								3,850	3,500	3,400	3,400	3,350	3,350	3,350	3,350	3,300	3,300	3,300	3,350	3,350	3,400	3,450	3,400	3,350	3,350	3,300
	angle								*(7.3)*	*(7.8)*	*13*	*21*	*27*	*31*	*34*	*37*	*40*	*42*	*44*	*46*	*48*	*49*	*51*	*52*	*53*	*55*	*56*
9.0	≤10°										**3,700**	**3,400**	**3,300**	**3,300**	**3,250**	**3,250**	**3,250**	**3,250**	**3,250**	**3,250**	**3,300**	**3,350**	**3,350**	**3,400**	**3,400**	**3,450**	**3,450**
	>10°										3,200	2,900	2,800	2,800	2,800	2,800	2,800	2,800	2,750	2,800	2,850	2,850	2,900	2,950	2,950	2,950	2,950
	angle										*(8.3)*	*(8.8)*	*12*	*20*	*25*	*30*	*33*	*36*	*39*	*41*	*43*	*45*	*46*	*48*	*49*	*51*	*52*
10	≤10°												**3,100**	**2,900**	**2,800**	**2,800**	**2,800**	**2,750**	**2,750**	**2,800**	**2,850**	**2,850**	**2,900**	**2,900**	**2,950**	**2,950**	**3,000**
	>10°												2,700	2,450	2,400	2,350	2,350	2,350	2,350	2,400	2,400	2,450	2,500	2,500	2,550	2,550	2,600
	angle												*(9.3)*	*(9.8)*	*12*	*19*	*25*	*29*	*32*	*35*	*37*	*40*	*42*	*43*	*45*	*47*	*48*
11	≤10°														**2,650**	**2,450**	**2,400**	**2,400**	**2,400**	**2,400**	**2,450**	**2,500**	**2,500**	**2,550**	**2,550**	**2,600**	**2,600**
	>10°														2,250	2,050	2,000	2,000	2,000	2,050	2,050	2,100	2,150	2,150	2,200	2,200	2,250
	angle														*(10.3)*	*(10.8)*	*12*	*19*	*24*	*28*	*31*	*34*	*36*	*38*	*40*	*42*	*44*
12	≤10°																**2,300**	**2,100**	**2,050**	**2,100**	**2,100**	**2,150**	**2,200**	**2,200**	**2,250**	**2,250**	**2,300**
	>10°																1,900	1,750	1,700	1,750	1,750	1,800	1,850	1,850	1,900	1,900	1,950
	angle																*(11.3)*	*(11.8)*	*12*	*18*	*23*	*27*	*30*	*33*	*35*	*37*	*40*
13	≤10°																		**1,950**	**1,850**	**1,850**	**1,900**	**1,900**	**1,950**	**1,950**	**2,000**	**2,000**
	>10°																		1,600	1,550	1,500	1,550	1,600	1,600	1,650	1,650	1,700
	angle																		*(12.3)*	*(12.8)*	*11*	*18*	*22*	*26*	*29*	*32*	*35*
14	≤10°																				**1,750**	**1,650**	**1,650**	**1,700**	**1,700**	**1,750**	**1,800**
	>10°																				1,450	1,350	1,350	1,400	1,400	1,450	1,500
	angle																				*(13.3)*	*(13.8)*	*11*	*17*	*22*	*25*	*29*
15	≤10°																						**1,600**	**1,500**	**1,500**	**1,550**	**1,550**
	>10°																						1,300	1,250	1,250	1,250	1,300
	angle																						*(14.3)*	*(14.8)*	*10*	*17*	*22*
16.45	≤10°																								**1,450**	**1,400**	**1,300**
	>10°																								1,200	1,100	1,050
	angle																								*(15.3)*	*(15.8)*	*(16.5)*

Butt lug and lug 1

COUNTERWEIGHT ON FRONT

LMI Duty 110 (butt lug) and LMI Duty 111 (lug 1, boom 1). Spring lockouts engaged.

LMI DUTY 110

Butt lug

Boom length 4.81 m

Radius (m)	Boom angle	RC ≤10° (kg)	RC >10° (kg)
1.4	32°	**23,550**	23,550
1.5	30°	**23,100**	23,100
1.6	27°	**22,700**	21,700
1.7	24°	**22,300**	20,300
1.8	21°	**21,400**	19,100
1.9	18°	**20,150**	17,950
2.1	0°	**17,950**	15,950

The rated capacity is at the radius shown. Shaded figures are limited by structural strength, unshaded figures by stability. Rated capacities are based on 66.7% stability and strength, on firm level ground (1% slope) with tyres inflated as per the tyre table. Add the weight of hooks, blocks and other load handling devices to the weight of the load.

LMI DUTY 111

Lug 1 (boom 1)

Boom pivot to lug 1, 1st extension, third extension retracted: 5.36 m to 9.46 m

Radius (m)		Boom length (m)									
		5.36	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.46
1.4	≤10°	**24,350**	**24,300**	**24,100**	**23,950**	**23,750**	**23,600**	**23,450**	**23,250**	**23,100**	**22,950**
	>10°	24,350	24,300	23,450	21,550	17,850	16,350	15,100	14,100	13,200	12,450
	angle	*40*	*42*	*47*	*51*	*54*	*57*	*59*	*61*	*63*	*64*
2	≤10°	**19,500**	**19,400**	**19,100**	**18,850**	**18,600**	**18,400**	**18,200**	**18,000**	**17,900**	**17,750**
	>10°	17,450	17,350	17,000	16,750	16,500	15,650	14,700	13,850	13,100	11,300
	angle	*29*	*31*	*38*	*44*	*48*	*51*	*54*	*56*	*59*	*60*
2.5	≤10°	**15,250**	**15,200**	**14,950**	**14,700**	**14,500**	**14,300**	**14,150**	**14,000**	**13,850**	**13,750**
	>10°	13,600	13,500	13,250	13,050	12,800	12,650	12,500	12,100	11,400	10,900
	angle	*14*	*19*	*30*	*37*	*42*	*46*	*49*	*52*	*55*	*57*
3	≤10°	**14,200**	**13,350**	**12,100**	**11,950**	**11,750**	**11,600**	**11,450**	**11,300**	**11,200**	**11,100**
	>10°	12,650	11,850	10,750	10,550	10,350	10,200	10,050	9,900	9,800	9,550
	angle	*(2.7)*	*(2.8)*	*18*	*29*	*35*	*41*	*45*	*48*	*51*	*53*
3.5	≤10°			**10,800**	**9,950**	**9,800**	**9,650**	**9,500**	**9,400**	**9,300**	**9,200**
	>10°			9,500	8,750	8,600	8,450	8,300	8,200	8,100	8,000
	angle			*(3.3)*	*17*	*28*	*34*	*39*	*43*	*46*	*49*
4	≤10°				**8,900**	**8,300**	**8,150**	**8,050**	**7,950**	**7,850**	**7,750**
	>10°				7,800	7,250	7,150	7,000	6,900	6,800	6,700
	angle				*(3.8)*	*17*	*27*	*33*	*38*	*42*	*45*
5	≤10°					**7,500**	**6,350**	**6,000**	**5,900**	**5,800**	**5,750**
	>10°					6,500	5,500	5,150	5,050	5,000	4,900
	angle					*(4.3)*	*(4.8)*	*16*	*25*	*31*	*36*
6	≤10°							**5,400**	**4,650**	**4,450**	**4,400**
	>10°							4,650	3,950	3,750	3,700
	angle							*(5.3)*	*(5.8)*	*15*	*23*
6.8	≤10°									**4,000**	**3,500**
	>10°									3,350	2,900
	angle									*(6.3)*	*(6.8)*

Bold = articulation 10° or less. Regular = articulation greater than 10°, up to 40°. Shaded = structural limit, unshaded = stability limit.
Italic = boom angle in degrees, undeflected (reference). Brackets = actual radius in m at 0° boom angle.
Rated capacity in kg, gross: add the weight of hooks, blocks and other load handling devices to the load.

Lug 2 (boom 2)

COUNTERWEIGHT ON FRONT

LMI Duty 112. Boom pivot to lug 2, 5.57 m to 13.77 m. Spring lockouts engaged. Ensure winch rope is fully tensioned.

24,550 Rated capacity in kg. Bold = articulation 10° or less. 24,550 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to lug 2, 2nd extension, third extension retracted (m)																
		5.57	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	13.77
1.4	≤10°	**24,550**	**24,500**	**24,450**	**24,400**	**24,350**	**24,300**	**24,200**	**24,150**	**24,100**									
	>10°	24,550	23,850	22,150	18,400	17,000	15,850	14,900	14,100	13,350									
	angle	*42*	*46*	*50*	*54*	*57*	*59*	*61*	*63*	*64*									
2	≤10°	**19,650**	**19,600**	**19,600**	**19,550**	**19,550**	**19,500**	**19,500**	**19,450**	**19,450**	**19,450**	**19,400**	**19,400**						
	>10°	17,550	17,550	17,500	17,500	16,550	14,050	13,800	12,950	12,250	11,650	11,100	10,600						
	angle	*32*	*38*	*43*	*47*	*51*	*54*	*56*	*58*	*60*	*62*	*63*	*64*						
2.5	≤10°	**15,400**	**15,400**	**15,350**	**15,350**	**15,350**	**15,300**	**15,300**	**15,300**	**15,250**	**15,250**	**15,250**	**15,200**	**15,200**	**15,200**				
	>10°	13,700	13,700	13,700	13,700	13,650	13,650	13,200	12,600	12,100	11,650	10,300	9,850	9,450	9,050				
	angle	*20*	*29*	*36*	*42*	*46*	*49*	*52*	*54*	*57*	*58*	*60*	*62*	*63*	*64*				
3	≤10°	**13,150**	**12,550**	**12,550**	**12,500**	**12,500**	**12,500**	**12,450**	**12,450**	**12,450**	**12,450**	**12,400**	**12,400**	**12,400**	**12,400**	**12,200**			
	>10°	11,700	11,150	11,150	11,150	11,100	11,100	10,800	10,350	10,000	9,650	9,350	8,400	8,100	7,800	7,550			
	angle	*(2.9)*	*18*	*28*	*35*	*40*	*44*	*48*	*50*	*53*	*55*	*57*	*59*	*60*	*61*	*63*			
3.5	≤10°		**11,200**	**10,500**	**10,550**	**10,500**	**10,500**	**10,500**	**10,500**	**10,450**	**10,450**	**10,450**	**10,450**	**10,450**	**10,400**	**10,400**	**10,400**	**10,400**	**10,400**
	>10°		9,950	9,350	9,350	9,350	9,300	9,300	9,300	9,300	9,250	9,000	8,700	8,450	8,200	7,950	7,250	7,000	6,850
	angle		*(3.3)*	*17*	*27*	*34*	*39*	*43*	*46*	*49*	*51*	*54*	*55*	*57*	*59*	*60*	*61*	*62*	*63*
4	≤10°			**9,500**	**9,000**	**9,000**	**9,000**	**9,000**	**9,000**	**8,950**	**8,950**	**8,950**	**8,950**	**8,950**	**8,950**	**8,900**	**8,900**	**8,900**	**8,900**
	>10°			8,400	7,950	7,950	7,950	7,950	7,950	7,950	7,900	7,900	7,900	7,650	7,400	7,200	7,000	6,850	6,750
	angle			*(3.8)*	*16*	*26*	*33*	*38*	*42*	*45*	*48*	*50*	*52*	*54*	*56*	*57*	*59*	*60*	*61*
5	≤10°				**8,200**	**7,150**	**6,850**	**6,900**	**6,900**	**6,850**	**6,850**	**6,850**	**6,850**	**6,850**	**6,850**	**6,850**	**6,850**	**6,800**	**6,800**
	>10°				7,250	6,300	6,050	6,050	6,050	6,050	6,050	6,050	6,000	6,000	6,000	6,000	5,850	5,700	5,650
	angle				*(4.3)*	*(4.8)*	*15*	*25*	*31*	*36*	*39*	*43*	*45*	*48*	*50*	*52*	*53*	*55*	*56*
6	≤10°						**6,350**	**5,650**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,400**
	>10°						5,550	4,900	4,750	4,750	4,750	4,750	4,750	4,750	4,750	4,750	4,750	4,750	4,750
	angle						*(5.3)*	*(5.8)*	*14*	*23*	*29*	*34*	*37*	*41*	*43*	*46*	*48*	*50*	*51*
7	≤10°								**5,050**	**4,550**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**
	>10°								4,400	3,950	3,850	3,850	3,850	3,850	3,850	3,850	3,850	3,850	3,850
	angle								*(6.3)*	*(6.8)*	*14*	*22*	*28*	*32*	*36*	*39*	*42*	*44*	*45*
8	≤10°										**4,150**	**3,750**	**3,700**	**3,700**	**3,700**	**3,700**	**3,700**	**3,700**	**3,700**
	>10°										3,550	3,200	3,150	3,150	3,150	3,150	3,150	3,150	3,150
	angle										*(7.3)*	*(7.8)*	*13*	*21*	*27*	*31*	*34*	*37*	*39*
9	≤10°												**3,400**	**3,150**	**3,100**	**3,100**	**3,100**	**3,100**	**3,100**
	>10°												2,900	2,650	2,650	2,650	2,650	2,650	2,650
	angle												*(8.3)*	*(8.8)*	*12*	*20*	*26*	*30*	*32*
10	≤10°														**2,850**	**2,650**	**2,600**	**2,600**	**2,600**
	>10°														2,400	2,200	2,200	2,200	2,200
	angle														*(9.3)*	*(9.8)*	*12*	*19*	*23*
11	≤10°																**2,400**	**2,250**	**2,200**
	>10°																2,000	1,850	1,850
	angle																*(10.3)*	*(10.8)*	*6*
11.1	≤10°																		**2,150**
	>10°																		1,750
	angle																		*(11.1)*

Fall block

COUNTERWEIGHT ON REAR

LMI Duty 201. Boom pivot to head sheaves, 6.12 m to 18.42 m. Spring lockouts engaged.

25,000 Rated capacity in kg. Bold = articulation 10° or less. 25,000 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to head sheaves, third boom retracted (m)																Third boom extending (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	14.32	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42
1.4	≤10°	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**																		
	>10°	21,750	20,200	18,550	17,250	16,150	15,200	14,400	13,700																		
	angle	*48*	*51*	*54*	*57*	*59*	*61*	*63*	*65*																		
2.0	≤10°	**23,000**	**22,950**	**22,850**	**22,950**	**22,900**	**22,850**	**22,850**	**22,800**	**22,800**	**22,150**	**19,300**															
	>10°	19,850	18,700	17,500	16,150	15,000	14,100	13,300	12,600	12,000	11,450	10,950															
	angle	*40*	*44*	*48*	*51*	*54*	*57*	*59*	*61*	*62*	*64*	*65*															
2.5	≤10°	**18,200**	**18,150**	**18,150**	**18,100**	**18,050**	**18,000**	**18,000**	**17,950**	**17,950**	**17,900**	**17,750**	**15,550**	**14,600**													
	>10°	16,250	16,250	15,600	14,700	13,900	13,200	12,400	11,750	11,150	10,650	10,200	9,800	9,400													
	angle	*32*	*37*	*42*	*46*	*50*	*52*	*55*	*57*	*59*	*61*	*62*	*63*	*65*													
3.0	≤10°	**14,900**	**14,900**	**14,900**	**14,850**	**14,800**	**14,800**	**14,750**	**14,750**	**14,700**	**14,700**	**14,700**	**14,350**	**13,500**	**13,000**	**12,600**	**12,250**										
	>10°	13,300	13,300	13,250	13,250	12,500	11,900	11,400	10,900	10,400	9,900	9,500	9,100	8,750	8,450	8,150	7,850										
	angle	*21*	*29*	*35*	*41*	*45*	*48*	*51*	*53*	*55*	*57*	*59*	*61*	*62*	*63*	*64*	*65*										
3.5	≤10°	**12,900**	**12,550**	**12,550**	**12,500**	**12,500**	**12,500**	**12,450**	**12,450**	**12,400**	**12,400**	**12,400**	**12,350**	**12,350**	**12,150**	**11,750**	**11,400**	**10,850**	**10,750**								
	>10°	11,450	11,150	11,150	11,150	11,100	10,800	10,300	9,900	9,500	9,200	8,800	8,450	8,150	7,850	7,600	7,350	6,950	6,900								
	angle	*(3.4)*	*17*	*28*	*34*	*39*	*43*	*47*	*49*	*52*	*54*	*56*	*58*	*59*	*61*	*62*	*63*	*65*	*65*								
4.0	≤10°		**11,450**	**10,800**	**10,750**	**10,750**	**10,750**	**10,700**	**10,700**	**10,700**	**10,650**	**10,650**	**10,650**	**10,600**	**10,600**	**10,600**	**10,600**	**10,100**	**10,050**	**9,850**	**9,650**						
	>10°	10,150	9,550	9,550	9,550	9,550	9,400	9,000	8,650	8,350	8,100	7,850	7,550	7,300	7,050	6,850	6,500	6,450	6,300	6,150							
	angle	*(3.8)*	*17*	*27*	*33*	*38*	*42*	*45*	*48*	*51*	*53*	*55*	*56*	*58*	*59*	*61*	*62*	*63*	*64*	*65*							
5.0	≤10°			**9,900**	**8,700**	**8,300**	**8,300**	**8,300**	**8,250**	**8,250**	**8,250**	**8,250**	**8,200**	**8,200**	**8,200**	**8,200**	**8,200**	**8,150**	**8,200**	**8,200**	**8,250**	**8,300**	**8,250**	**8,150**	**8,000**	**7,900**	
	>10°	8,750	7,700	7,350	7,300	7,300	7,300	7,300	7,300	7,100	6,850	6,600	6,400	6,250	6,100	5,950	5,650	5,600	5,500	5,400	5,300	5,200	5,100	5,050	4,950		
	angle	*(4.3)*	*(4.8)*	*16*	*25*	*31*	*36*	*40*	*43*	*46*	*48*	*50*	*52*	*54*	*56*	*58*	*58*	*59*	*61*	*62*	*63*	*63*	*64*	*65*			
6.0	≤10°					**7,700**	**6,900**	**6,650**	**6,650**	**6,650**	**6,600**	**6,600**	**6,600**	**6,600**	**6,600**	**6,600**	**6,550**	**6,550**	**6,550**	**6,600**	**6,650**	**6,700**	**6,750**	**6,750**	**6,800**	**6,800**	**6,850**
	>10°	6,800	6,100	5,850	5,850	5,800	5,800	5,800	5,700	5,550	5,350	5,200	5,100	4,900	4,850	4,800	4,750	4,650	4,600	4,550	4,450	4,350					
	angle	*(5.3)*	*(5.8)*	*15*	*24*	*30*	*34*	*38*	*41*	*44*	*46*	*48*	*50*	*53*	*55*	*56*	*57*	*58*	*60*	*61*	*62*						
7.0	≤10°							**6,250**	**5,650**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,450**	**5,400**	**5,400**	**5,400**	**5,400**	**5,450**	**5,500**	**5,550**	**5,550**	**5,600**	**5,650**	**5,650**	**5,700**
	>10°	5,450	4,950	4,750	4,750	4,750	4,750	4,750	4,700	4,550	4,450	4,250	4,250	4,200	4,150	4,100	4,050	4,000	3,950	3,900	3,850						
	angle	*(6.3)*	*(6.8)*	*14*	*23*	*28*	*33*	*36*	*39*	*42*	*44*	*48*	*48*	*50*	*52*	*53*	*54*	*56*	*57*	*58*	*59*						
8.0	≤10°									**5,150**	**4,700**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,550**	**4,600**	**4,650**	**4,650**	**4,700**	**4,750**	**4,750**	**4,800**	**4,800**
	>10°	4,500	4,100	3,950	3,950	3,950	3,950	3,950	3,950	3,950	3,900	3,750	3,750	3,700	3,650	3,600	3,600	3,550	3,500	3,500	3,450						
	angle	*(7.3)*	*(7.8)*	*13*	*22*	*27*	*31*	*35*	*38*	*42*	*43*	*45*	*47*	*48*	*50*	*51*	*53*	*54*	*55*								
9.0	≤10°											**4,350**	**4,000**	**3,900**	**3,900**	**3,900**	**3,900**	**3,850**	**3,900**	**3,900**	**3,950**	**4,000**	**4,050**	**4,050**	**4,100**	**4,100**	**4,150**
	>10°	3,750	3,450	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,350	3,300	3,250	3,200	3,200	3,150	3,150	3,100	3,100							
	angle	*(8.3)*	*(8.8)*	*13*	*21*	*26*	*30*	*35*	*36*	*39*	*41*	*43*	*45*	*47*	*48*	*50*	*51*										
10	≤10°													**3,700**	**3,400**	**3,350**	**3,350**	**3,350**	**3,350**	**3,400**	**3,400**	**3,450**	**3,500**	**3,500**	**3,550**	**3,550**	**3,600**
	>10°	3,150	2,950	2,850	2,850	2,850	2,850	2,850	2,850	2,850	2,900	2,900	2,900	2,850	2,800	2,800	2,750										
	angle	*(9.3)*	*(9.8)*	*12*	*20*	*28*	*29*	*32*	*35*	*38*	*40*	*42*	*44*	*45*	*47*												
11	≤10°															**3,200**	**2,950**	**2,900**	**2,900**	**2,950**	**3,000**	**3,000**	**3,050**	**3,050**	**3,100**	**3,150**	**3,150**
	>10°	2,700	2,500	2,450	2,500	2,550	2,600	2,550	2,550	2,500	2,500																
	angle	*(10.3)*	*(10.8)*	*17*	*19*	*24*	*28*	*31*	*34*	*37*	*39*	*41*	*42*														
12	≤10°																	**2,650**	**2,600**	**2,550**	**2,600**	**2,650**	**2,650**	**2,700**	**2,750**	**2,750**	**2,800**
	>10°	2,200	2,150	2,200	2,250	2,250	2,300	2,300																			
	angle	*(11.6)*	*(11.8)*	*12*	*19*	*23*	*27*	*30*	*33*	*36*	*37*																
13	≤10°																			**2,450**	**2,350**	**2,300**	**2,350**	**2,400**	**2,400**	**2,450**	**2,450**
	>10°	2,050	1,950	1,950	2,000	2,050	2,100																				
	angle	*(12.3)*	*(12.8)*	*11*	*18*	*23*	*27*	*30*	*32*																		
14	≤10°																					**2,200**	**2,100**	**2,100**	**2,150**	**2,150**	**2,200**
	>10°	1,850	1,750	1,750	1,800	1,800	1,850																				
	angle	*(13.3)*	*(13.8)*	*11*	*18*	*22*	*25*																				
15	≤10°																							**2,050**	**1,950**	**1,950**	**1,950**
	>10°	1,700	1,600	1,600	1,650																						
	angle	*(14.3)*	*(14.8)*	*10*	*16*																						
15.71	≤10°																									**1,850**	**1,800**
	>10°	1,550	1,500																								
	angle	*(15.3)*	*(15.7)*																								

Rhino hook

COUNTERWEIGHT ON REAR

LMI Duty 202. Boom pivot to hook centre, 6.45 m to 18.75 m. Spring lockouts engaged.

15,000 Rated capacity in kg. Bold = articulation 10° or less. 15,000 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to hook centre, third boom retracted (m)																Third boom extending (m)								
		6.45	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	14.65	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	18.75
1.4	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**																			
	>10°	15,000	15,000	15,000	15,000	15,000	14,500	13,800																			
	angle	*51*	*55*	*58*	*60*	*62*	*64*	*65*																			
2.0	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**																
	>10°	15,000	15,000	15,000	15,000	14,200	13,400	12,700	12,100	11,550	11,050																
	angle	*44*	*49*	*52*	*55*	*57*	*59*	*61*	*63*	*64*	*65*																
2.5	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**15,000**	**14,200**														
	>10°	15,000	15,000	14,850	14,050	13,300	12,500	11,850	11,250	10,750	10,300	9,850	9,500														
	angle	*37*	*43*	*47*	*50*	*53*	*56*	*58*	*59*	*61*	*63*	*64*	*65*														
3.0	≤10°	**15,000**	**15,000**	**15,000**	**15,000**	**14,950**	**14,900**	**14,900**	**14,850**	**14,850**	**14,800**	**14,800**	**13,200**	**12,750**	**12,300**												
	>10°	13,500	13,450	13,400	12,650	12,050	11,500	11,050	10,500	10,000	9,550	9,150	8,800	8,500	8,200												
	angle	*29*	*36*	*41*	*45*	*49*	*52*	*54*	*56*	*58*	*60*	*61*	*62*	*64*	*65*												
3.5	≤10°	**12,700**	**12,700**	**12,650**	**12,650**	**12,600**	**12,600**	**12,550**	**12,550**	**12,500**	**12,500**	**12,500**	**12,300**	**11,850**	**11,450**	**11,150**	**10,800**										
	>10°	11,350	11,300	11,300	11,250	10,900	10,400	10,000	9,600	9,300	8,900	8,550	8,200	7,900	7,650	7,400	7,150										
	angle	*17*	*29*	*35*	*40*	*44*	*47*	*50*	*52*	*55*	*56*	*58*	*60*	*61*	*62*	*63*	*64*										
4.0	≤10°	**11,750**	**10,900**	**10,900**	**10,900**	**10,850**	**10,850**	**10,800**	**10,800**	**10,800**	**10,750**	**10,750**	**10,750**	**10,700**	**10,700**	**10,400**	**10,100**	**9,750**	**9,600**	**9,450**							
	>10°	10,450	9,700	9,700	9,700	9,650	9,500	9,100	8,750	8,450	8,200	7,900	7,650	7,350	7,100	6,900	6,650	6,400	6,300	6,200							
	angle	*(3.7)*	*18*	*28*	*34*	*39*	*43*	*46*	*49*	*51*	*53*	*55*	*57*	*58*	*60*	*61*	*62*	*63*	*64*	*65*							
5.0	≤10°		**10,050**	**8,800**	**8,400**	**8,400**	**8,400**	**8,350**	**8,350**	**8,350**	**8,300**	**8,300**	**8,300**	**8,300**	**8,250**	**8,250**	**8,250**	**8,250**	**8,250**	**8,300**	**8,200**	**8,050**	**7,900**	**7,800**	**7,700**		
	>10°		8,900	7,800	7,450	7,450	7,400	7,400	7,400	7,150	6,900	6,700	6,500	6,300	6,150	6,000	5,800	5,600	5,500	5,400	5,300	5,200	5,150	5,050	4,950		
	angle		*(4.3)*	*(4.8)*	*16*	*26*	*32*	*37*	*40*	*44*	*46*	*49*	*51*	*53*	*54*	*56*	*57*	*59*	*60*	*61*	*62*	*63*	*64*	*65*	*65*		
6.0	≤10°				**7,800**	**7,000**	**6,750**	**6,700**	**6,700**	**6,700**	**6,700**	**6,700**	**6,650**	**6,650**	**6,650**	**6,650**	**6,650**	**6,600**	**6,650**	**6,700**	**6,700**	**6,750**	**6,800**	**6,800**	**6,850**	**6,800**	**6,650**
	>10°				6,900	6,150	5,900	5,900	5,900	5,900	5,900	5,750	5,600	5,450	5,300	5,150	5,000	4,850	4,850	4,750	4,700	4,600	4,550	4,450	4,400	4,350	4,300
	angle				*(5.3)*	*(5.8)*	*15*	*24*	*30*	*35*	*38*	*42*	*44*	*47*	*49*	*51*	*52*	*54*	*55*	*57*	*58*	*59*	*60*	*61*	*62*	*63*	*63*
7.0	≤10°						**6,300**	**5,750**	**5,550**	**5,550**	**5,500**	**5,500**	**5,500**	**5,500**	**5,500**	**5,500**	**5,450**	**5,450**	**5,500**	**5,550**	**5,550**	**5,600**	**5,650**	**5,650**	**5,700**	**5,700**	**5,700**
	>10°						5,550	5,000	4,850	4,850	4,850	4,800	4,800	4,750	4,600	4,500	4,350	4,250	4,200	4,150	4,100	4,050	4,000	4,000	3,900	3,850	3,850
	angle						*(6.3)*	*(6.8)*	*15*	*23*	*29*	*33*	*37*	*40*	*42*	*45*	*47*	*49*	*50*	*52*	*53*	*55*	*56*	*57*	*58*	*59*	*60*
8.0	≤10°								**5,200**	**4,800**	**4,650**	**4,650**	**4,650**	**4,600**	**4,600**	**4,600**	**4,600**	**4,600**	**4,600**	**4,650**	**4,700**	**4,700**	**4,750**	**4,800**	**4,800**	**4,850**	**4,850**
	>10°								4,550	4,150	4,000	4,000	4,000	4,000	4,000	3,950	3,850	3,750	3,700	3,650	3,650	3,600	3,550	3,500	3,500	3,450	3,450
	angle								*(7.3)*	*(7.8)*	*14*	*22*	*28*	*32*	*35*	*38*	*41*	*44*	*45*	*47*	*49*	*50*	*52*	*53*	*54*	*55*	*56*
9.0	≤10°										**4,400**	**4,050**	**3,950**	**3,950**	**3,950**	**3,950**	**3,900**	**3,900**	**3,950**	**4,000**	**4,000**	**4,050**	**4,050**	**4,100**	**4,150**	**4,150**	**4,150**
	>10°										3,800	3,500	3,400	3,400	3,400	3,400	3,400	3,300	3,300	3,250	3,250	3,200	3,150	3,150	3,100	3,100	3,050
	angle										*(8.3)*	*(8.8)*	*13*	*21*	*27*	*31*	*34*	*38*	*39*	*42*	*44*	*46*	*47*	*49*	*50*	*51*	*52*
10	≤10°												**3,750**	**3,450**	**3,350**	**3,350**	**3,350**	**3,350**	**3,400**	**3,450**	**3,450**	**3,500**	**3,550**	**3,550**	**3,600**	**3,600**	**3,600**
	>10°												3,200	2,950	2,900	2,900	2,900	2,900	2,900	2,950	2,900	2,850	2,850	2,800	2,800	2,750	2,750
	angle												*(9.3)*	*(9.8)*	*13*	*20*	*26*	*31*	*33*	*36*	*38*	*40*	*42*	*44*	*46*	*47*	*48*
11	≤10°														**3,200**	**3,000**	**2,900**	**2,900**	**2,950**	**3,000**	**3,000**	**3,050**	**3,100**	**3,100**	**3,150**	**3,150**	**3,150**
	>10°														2,750	2,550	2,450	2,500	2,500	2,550	2,600	2,600	2,550	2,550	2,550	2,500	2,500
	angle														*(10.3)*	*(10.8)*	*12*	*21*	*25*	*29*	*32*	*35*	*37*	*39*	*41*	*43*	*44*
12	≤10°																**2,800**	**2,550**	**2,550**	**2,600**	**2,650**	**2,700**	**2,700**	**2,750**	**2,750**	**2,800**	**2,800**
	>10°																2,350	2,150	2,150	2,200	2,250	2,250	2,300	2,300	2,300	2,300	2,250
	angle																*(11.3)*	*(11.9)*	*12*	*19*	*24*	*28*	*31*	*34*	*36*	*38*	*39*
13	≤10°																		**2,450**	**2,350**	**2,300**	**2,350**	**2,400**	**2,400**	**2,450**	**2,450**	**2,500**
	>10°																		2,050	1,950	1,950	2,000	2,000	2,050	2,050	2,100	2,100
	angle																		*(12.3)*	*(12.8)*	*12*	*18*	*23*	*27*	*30*	*33*	*34*
14	≤10°																				**2,200**	**2,100**	**2,100**	**2,150**	**2,150**	**2,200**	**2,200**
	>10°																				1,850	1,750	1,750	1,800	1,800	1,850	1,850
	angle																				*(13.3)*	*(13.8)*	*11*	*18*	*23*	*26*	*28*
15	≤10°																						**2,000**	**1,950**	**1,950**	**1,950**	**1,950**
	>10°																						1,700	1,600	1,600	1,650	1,650
	angle																						*(14.3)*	*(14.8)*	*11*	*17*	*20*
16	≤10°																								**1,850**	**1,750**	**1,750**
	>10°																								1,550	1,450	1,450
	angle																								*(15.3)*	*(15.8)*	*(16.)*

Offset head, bottom position

COUNTERWEIGHT ON REAR

LMI Duty 203. Boom pivot to edge of sheave, 6.86 m to 19.16 m. Spring lockouts engaged.

8,400 Rated capacity in kg. Bold = articulation 10° or less. 8,400 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to edge of sheave, third boom retracted (m)																	Third boom extending (m)							
		6.86	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	15.06	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.16
1.4	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																				
	>10°	8,400	8,400	8,400	8,400	8,400	8,400																				
	angle	*55*	*56*	*59*	*61*	*63*	*65*																				
2.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																	
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400																	
	angle	*49*	*50*	*53*	*56*	*58*	*60*	*62*	*64*	*65*																	
2.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**															
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400															
	angle	*43*	*44*	*48*	*51*	*54*	*56*	*58*	*60*	*62*	*63*	*65*															
3.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**												
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,300												
	angle	*36*	*38*	*43*	*46*	*50*	*52*	*55*	*57*	*59*	*60*	*62*	*63*	*64*	*65*												
3.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**										
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,300	8,000	7,750	7,500	7,250										
	angle	*27*	*30*	*36*	*41*	*45*	*48*	*51*	*53*	*55*	*57*	*59*	*60*	*62*	*63*	*64*	*65*										
4.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**								
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,300	8,050	7,750	7,450	7,200	7,000	6,750	6,550	6,350								
	angle	*(4.2)*	*19*	*29*	*35*	*40*	*44*	*47*	*50*	*52*	*54*	*56*	*58*	*59*	*60*	*62*	*63*	*64*	*65*								
5.0	≤10°		**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,350**	**8,350**	**8,350**	**8,350**	**8,350**	**8,350**	**8,250**	**8,100**	**8,000**		
	>10°		8,400	7,950	7,600	7,550	7,550	7,550	7,500	7,300	7,050	6,800	6,600	6,400	6,250	6,100	5,900	5,750	5,550	5,450	5,350	5,250	5,150	5,050			
	angle		*(4.3)*	*(4.8)*	*18*	*27*	*33*	*38*	*41*	*44*	*47*	*49*	*52*	*53*	*55*	*57*	*58*	*59*	*61*	*61*	*62*	*63*	*64*	*65*			
6.0	≤10°				**7,950**	**7,100**	**6,850**	**6,850**	**6,850**	**6,800**	**6,800**	**6,800**	**6,750**	**6,750**	**6,750**	**6,750**	**6,700**	**6,700**	**6,700**	**6,750**	**6,750**	**6,800**	**6,850**	**6,850**	**6,900**	**6,500**	**5,850**
	>10°				7,050	6,300	6,050	6,050	6,000	6,000	6,000	5,900	5,700	5,550	5,350	5,250	5,100	5,000	4,850	4,800	4,700	4,650	4,550	4,500	4,450	4,350	4,300
	angle				*(5.3)*	*(5.8)*	*17*	*25*	*31*	*36*	*39*	*42*	*45*	*47*	*49*	*51*	*53*	*54*	*56*	*57*	*58*	*59*	*60*	*61*	*62*	*63*	*64*
7.0	≤10°						**6,400**	**5,800**	**5,650**	**5,650**	**5,600**	**5,600**	**5,600**	**5,600**	**5,600**	**5,550**	**5,550**	**5,550**	**5,550**	**5,550**	**5,600**	**5,650**	**5,650**	**5,700**	**5,700**	**5,750**	**5,800**
	>10°						5,650	5,100	4,950	4,950	4,950	4,900	4,900	4,850	4,700	4,550	4,450	4,350	4,250	4,200	4,150	4,100	4,050	4,000	3,950	3,900	3,850
	angle						*(6.3)*	*(6.8)*	*16*	*24*	*30*	*34*	*37*	*40*	*43*	*45*	*47*	*49*	*51*	*52*	*54*	*55*	*56*	*57*	*59*	*59*	*61*
8.0	≤10°								**5,300**	**4,850**	**4,700**	**4,700**	**4,700**	**4,700**	**4,700**	**4,700**	**4,700**	**4,650**	**4,650**	**4,700**	**4,750**	**4,750**	**4,800**	**4,800**	**4,850**	**4,850**	**4,900**
	>10°								4,650	4,250	4,100	4,100	4,100	4,100	4,100	4,050	3,950	3,850	3,750	3,700	3,650	3,600	3,600	3,550	3,500	3,500	3,450
	angle								*(7.3)*	*(7.8)*	*15*	*23*	*28*	*33*	*36*	*39*	*41*	*44*	*46*	*48*	*49*	*51*	*52*	*53*	*55*	*56*	*57*
9.0	≤10°										**4,450**	**4,100**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,000**	**4,050**	**4,050**	**4,100**	**4,150**	**4,150**	**4,200**	**4,200**
	>10°										3,900	3,550	3,450	3,450	3,450	3,450	3,450	3,400	3,300	3,300	3,250	3,200	3,200	3,150	3,150	3,100	3,050
	angle										*(8.3)*	*(8.8)*	*14*	*22*	*27*	*31*	*35*	*37*	*40*	*42*	*44*	*46*	*48*	*49*	*51*	*52*	*53*
10	≤10°												**3,800**	**3,550**	**3,450**	**3,450**	**3,450**	**3,450**	**3,450**	**3,450**	**3,500**	**3,550**	**3,550**	**3,600**	**3,600**	**3,650**	**3,650**
	>10°												3,300	3,050	2,950	2,950	2,950	2,950	2,950	2,950	2,900	2,900	2,850	2,850	2,800	2,800	2,750
	angle												*(9.3)*	*(9.8)*	*14*	*21*	*26*	*30*	*34*	*36*	*39*	*41*	*43*	*45*	*46*	*48*	*50*
11	≤10°														**3,300**	**3,050**	**3,000**	**3,000**	**3,000**	**3,000**	**3,050**	**3,100**	**3,100**	**3,150**	**3,150**	**3,200**	**3,200**
	>10°														2,800	2,600	2,550	2,550	2,550	2,550	2,600	2,600	2,600	2,550	2,550	2,550	2,500
	angle														*(10.3)*	*(10.8)*	*13*	*20*	*26*	*29*	*32*	*35*	*37*	*40*	*42*	*43*	*45*
12	≤10°																**2,850**	**2,650**	**2,600**	**2,650**	**2,650**	**2,700**	**2,750**	**2,750**	**2,800**	**2,800**	**2,850**
	>10°																2,400	2,250	2,200	2,200	2,250	2,300	2,300	2,350	2,300	2,300	2,300
	angle																*(11.3)*	*(11.8)*	*14*	*20*	*24*	*28*	*31*	*34*	*36*	*39*	*41*
13	≤10°																		**2,450**	**2,350**	**2,350**	**2,350**	**2,400**	**2,450**	**2,450**	**2,500**	**2,500**
	>10°																		2,050	1,950	1,950	2,000	2,050	2,050	2,100	2,100	2,100
	angle																		*(12.4)*	*(12.8)*	*12*	*19*	*24*	*27*	*30*	*33*	*36*
14	≤10°																				**2,250**	**2,150**	**2,100**	**2,150**	**2,200**	**2,200**	**2,250**
	>10°																				1,850	1,800	1,800	1,800	1,850	1,850	1,900
	angle																				*(13.3)*	*(13.8)*	*12*	*18*	*23*	*27*	*30*
15	≤10°																						**2,050**	**1,950**	**1,950**	**1,950**	**2,000**
	>10°																						1,700	1,600	1,600	1,650	1,700
	angle																						*(14.3)*	*(14.8)*	*12*	*18*	*24*
16.4	≤10°																								**1,850**	**1,800**	**1,700**
	>10°																								1,550	1,500	1,400
	angle																								*(15.3)*	*(15.8)*	*(16.4)*

Offset head, top position

COUNTERWEIGHT ON REAR

LMI Duty 204. Boom pivot to edge of sheave, 6.82 m to 19.12 m. Spring lockouts engaged.

8,400 Rated capacity in kg. Bold = articulation 10° or less. 8,400 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to edge of sheave, third boom retracted (m)																	Third boom extending (m)							
		6.82	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	15.02	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.12
1.4	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																			
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400																			
	angle	*52*	*53*	*56*	*58*	*60*	*62*	*64*																			
2.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**																
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400																
	angle	*45*	*47*	*50*	*53*	*56*	*58*	*60*	*61*	*63*	*64*																
2.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**														
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400														
	angle	*39*	*41*	*45*	*49*	*52*	*54*	*56*	*58*	*60*	*61*	*63*	*64*														
3.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**											
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,250	7,950											
	angle	*32*	*34*	*40*	*44*	*47*	*50*	*53*	*55*	*57*	*58*	*60*	*61*	*63*	*64*	*65*											
3.5	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**									
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,250	7,950	7,650	7,400	7,200	6,950									
	angle	*24*	*27*	*33*	*38*	*42*	*46*	*49*	*51*	*53*	*55*	*57*	*59*	*60*	*61*	*62*	*63*	*64*									
4.0	≤10°	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**							
	>10°	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,400	8,250	7,950	7,700	7,400	7,150	6,900	6,700	6,500	6,300	6,150							
	angle	*(4.1)*	*16*	*26*	*32*	*37*	*41*	*45*	*47*	*50*	*52*	*54*	*56*	*57*	*59*	*60*	*61*	*62*	*63*	*64*							
5.0	≤10°		**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,400**	**8,350**	**8,350**	**8,300**	**8,300**	**8,300**	**8,250**	**8,250**	**8,250**	**8,250**	**8,250**	**8,300**	**8,300**	**8,200**	**8,050**	**7,950**		
	>10°		8,400	7,900	7,550	7,500	7,500	7,450	7,450	7,200	6,950	6,750	6,550	6,350	6,200	6,000	5,850	5,700	5,500	5,400	5,300	5,200	5,100	5,050	4,950		
	angle		*(4.3)*	*(4.8)*	*15*	*24*	*30*	*35*	*39*	*42*	*45*	*48*	*50*	*52*	*53*	*55*	*56*	*58*	*59*	*60*	*61*	*62*	*63*	*64*	*65*		
6.0	≤10°				**7,950**	**7,100**	**6,800**	**6,800**	**6,800**	**6,750**	**6,750**	**6,700**	**6,700**	**6,700**	**6,700**	**6,650**	**6,650**	**6,650**	**6,600**	**6,650**	**6,700**	**6,750**	**6,750**	**6,800**	**6,800**	**6,850**	**6,300**
	>10°				7,000	6,250	6,000	6,000	5,950	5,950	5,950	5,850	5,650	5,450	5,300	5,200	5,050	4,950	4,800	4,750	4,700	4,600	4,550	4,450	4,400	4,300	4,250
	angle				*(5.3)*	*(5.8)*	*14*	*23*	*29*	*34*	*37*	*40*	*43*	*46*	*48*	*50*	*51*	*53*	*54*	*56*	*57*	*58*	*59*	*60*	*61*	*62*	*63*
7.0	≤10°						**6,400**	**5,800**	**5,600**	**5,600**	**5,550**	**5,550**	**5,550**	**5,550**	**5,500**	**5,500**	**5,500**	**5,500**	**5,450**	**5,500**	**5,550**	**5,550**	**5,600**	**5,650**	**5,650**	**5,700**	**5,700**
	>10°						5,650	5,100	4,900	4,900	4,900	4,850	4,850	4,800	4,650	4,550	4,400	4,300	4,200	4,150	4,100	4,050	4,000	3,950	3,900	3,850	3,800
	angle						*(6.3)*	*(6.8)*	*14*	*22*	*28*	*32*	*36*	*39*	*41*	*44*	*46*	*48*	*50*	*51*	*53*	*54*	*55*	*56*	*57*	*58*	*59*
8.0	≤10°								**5,300**	**4,850**	**4,700**	**4,700**	**4,650**	**4,650**	**4,650**	**4,650**	**4,650**	**4,600**	**4,600**	**4,650**	**4,700**	**4,700**	**4,750**	**4,750**	**4,800**	**4,800**	**4,850**
	>10°								4,650	4,250	4,100	4,100	4,050	4,050	4,050	4,000	3,900	3,800	3,700	3,650	3,600	3,600	3,550	3,500	3,500	3,450	3,400
	angle								*(7.3)*	*(7.8)*	*13*	*21*	*27*	*31*	*34*	*37*	*40*	*42*	*44*	*46*	*48*	*49*	*51*	*52*	*53*	*55*	*56*
9.0	≤10°										**4,450**	**4,100**	**4,000**	**4,000**	**3,950**	**3,950**	**3,950**	**3,950**	**3,950**	**3,950**	**4,000**	**4,050**	**4,050**	**4,100**	**4,100**	**4,150**	**4,150**
	>10°										3,900	3,550	3,450	3,450	3,450	3,400	3,400	3,400	3,300	3,250	3,200	3,200	3,150	3,150	3,100	3,100	3,050
	angle										*(8.3)*	*(8.8)*	*12*	*20*	*25*	*30*	*33*	*36*	*39*	*41*	*43*	*45*	*46*	*48*	*49*	*51*	*52*
10	≤10°												**3,800**	**3,500**	**3,400**	**3,400**	**3,400**	**3,400**	**3,400**	**3,450**	**3,450**	**3,500**	**3,500**	**3,550**	**3,600**	**3,650**	
	>10°												3,300	3,050	2,950	2,950	2,900	2,900	2,900	2,950	2,900	2,850	2,850	2,800	2,800	2,750	2,750
	angle												*(9.3)*	*(9.8)*	*12*	*19*	*25*	*29*	*32*	*35*	*37*	*40*	*42*	*43*	*45*	*47*	*48*
11	≤10°														**3,250**	**3,050**	**2,950**	**2,950**	**2,950**	**3,000**	**3,000**	**3,050**	**3,100**	**3,100**	**3,150**	**3,150**	**3,200**
	>10°														2,800	2,600	2,500	2,500	2,500	2,550	2,600	2,600	2,550	2,550	2,550	2,500	2,500
	angle														*(10.3)*	*(10.8)*	*12*	*19*	*24*	*28*	*31*	*34*	*36*	*38*	*40*	*42*	*44*
12	≤10°																**2,850**	**2,650**	**2,550**	**2,600**	**2,650**	**2,700**	**2,700**	**2,750**	**2,750**	**2,800**	**2,800**
	>10°																2,400	2,250	2,150	2,200	2,250	2,250	2,300	2,350	2,300	2,300	2,250
	angle																*(11.3)*	*(11.8)*	*12*	*18*	*23*	*27*	*30*	*33*	*35*	*37*	*40*
13	≤10°																		**2,450**	**2,350**	**2,350**	**2,350**	**2,400**	**2,400**	**2,450**	**2,450**	**2,500**
	>10°																		2,050	1,950	1,950	2,000	2,000	2,050	2,050	2,100	2,050
	angle																		*(12.3)*	*(12.8)*	*11*	*18*	*22*	*26*	*29*	*32*	*35*
14	≤10°																				**2,250**	**2,150**	**2,100**	**2,150**	**2,150**	**2,200**	**2,200**
	>10°																				1,850	1,800	1,750	1,800	1,800	1,850	1,900
	angle																				*(13.3)*	*(13.8)*	*11*	*17*	*22*	*25*	*29*
15	≤10°																						**2,050**	**1,950**	**1,950**	**1,950**	**2,000**
	>10°																						1,700	1,600	1,600	1,650	1,650
	angle																						*(14.3)*	*(14.8)*	*10*	*17*	*22*
16.45	≤10°																								**1,850**	**1,800**	**1,700**
	>10°																								1,550	1,500	1,400
	angle																								*(15.3)*	*(15.8)*	*(16.5)*

Butt lug and lug 1

COUNTERWEIGHT ON REAR

LMI Duty 210 (butt lug) and LMI Duty 211 (lug 1, boom 1). Spring lockouts engaged.

LMI DUTY 210

Butt lug

Boom length 4.81 m

Radius (m)	Boom angle	RC ≤10° (kg)	RC >10° (kg)
1.4	32°	**25,000**	25,000
1.5	30°	**24,650**	24,650
1.6	27°	**24,200**	24,200
1.7	24°	**23,800**	23,600
1.8	21°	**23,350**	22,200
1.9	18°	**22,950**	20,900
2.1	0°	**20,950**	18,650

The rated capacity is at the radius shown. Shaded figures are limited by structural strength, unshaded figures by stability. Rated capacities are based on 66.7% stability and strength, on firm level ground (1% slope) with tyres inflated as per the tyre table. Add the weight of hooks, blocks and other load handling devices to the weight of the load.

LMI DUTY 211

Lug 1 (boom 1)

Boom pivot to lug 1, 1st extension, third extension retracted: 5.36 m to 9.46 m

Radius (m)		Boom length (m)									
		5.36	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.46
1.4	≤10°	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**24,800**	**24,650**	**24,000**
	>10°	25,000	24,900	19,800	17,850	16,350	15,100	14,100	13,200	12,400	11,800
	angle	*40*	*42*	*47*	*51*	*54*	*57*	*59*	*61*	*63*	*64*
2	≤10°	**22,650**	**22,550**	**22,250**	**21,950**	**21,750**	**21,500**	**21,350**	**21,150**	**21,000**	**20,900**
	>10°	20,250	20,150	19,500	17,800	15,200	13,900	12,850	11,950	11,200	10,600
	angle	*29*	*31*	*38*	*44*	*48*	*51*	*54*	*56*	*59*	*60*
2.5	≤10°	**17,750**	**17,700**	**17,450**	**17,200**	**17,000**	**16,800**	**16,650**	**16,500**	**16,400**	**16,300**
	>10°	15,800	15,750	15,500	15,250	14,600	13,550	12,700	11,050	10,300	9,750
	angle	*14*	*19*	*30*	*37*	*42*	*46*	*49*	*52*	*55*	*57*
3	≤10°	**16,600**	**15,600**	**14,200**	**14,000**	**13,850**	**13,700**	**13,550**	**13,400**	**13,300**	**13,200**
	>10°	14,750	13,850	12,600	12,400	12,200	12,050	11,300	10,650	10,050	8,950
	angle	*(2.7)*	*(2.8)*	*18*	*29*	*35*	*41*	*45*	*48*	*51*	*53*
3.5	≤10°			**12,700**	**11,750**	**11,600**	**11,450**	**11,300**	**11,200**	**11,100**	**11,000**
	>10°			11,200	10,350	10,200	10,050	9,900	9,550	9,000	8,550
	angle			*(3.3)*	*17*	*28*	*34*	*39*	*43*	*46*	*49*
4	≤10°				**10,550**	**9,850**	**9,750**	**9,600**	**9,500**	**9,400**	**9,350**
	>10°				9,300	8,650	8,550	8,400	8,300	8,100	7,700
	angle				*(3.8)*	*17*	*27*	*33*	*38*	*42*	*45*
5	≤10°					**8,950**	**7,650**	**7,250**	**7,150**	**7,100**	**7,000**
	>10°					7,800	6,650	6,300	6,200	6,100	6,050
	angle					*(4.3)*	*(4.8)*	*16*	*25*	*31*	*36*
6	≤10°							**6,600**	**5,750**	**5,500**	**5,450**
	>10°							5,700	4,900	4,700	4,650
	angle							*(5.3)*	*(5.8)*	*15*	*23*
6.8	≤10°									**5,000**	**4,450**
	>10°									4,250	3,750
	angle									*(6.3)*	*(6.8)*

Bold = articulation 10° or less. Regular = articulation greater than 10°, up to 40°. Shaded = structural limit, unshaded = stability limit.
Italic = boom angle in degrees, undeflected (reference). Brackets = actual radius in m at 0° boom angle.
Rated capacity in kg, gross: add the weight of hooks, blocks and other load handling devices to the load.

Lug 2 (boom 2)

COUNTERWEIGHT ON REAR

LMI Duty 212. Boom pivot to lug 2, 5.57 m to 13.77 m. Spring lockouts engaged. Ensure winch rope is fully tensioned.

25,000 Rated capacity in kg. Bold = articulation 10° or less. 25,000 Regular = articulation greater than 10°, up to 40°. Shaded = structural limit. Unshaded = stability limit.

48 Boom angle in degrees, undeflected (reference). A figure in brackets is the actual radius in metres at 0° boom angle. Gross ratings: add the weight of hooks, blocks and other load handling devices to the load.

Radius (m)		Boom pivot to lug 2, 2nd extension, third extension retracted (m)																	
		5.57	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	13.77
1.4	≤10°	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**	**25,000**									
	>10°	22,150	20,050	18,300	16,900	15,750	14,800	14,000	13,300	12,650									
	angle	*42*	*46*	*50*	*54*	*57*	*59*	*61*	*63*	*64*									
2	≤10°	**22,800**	**22,750**	**22,750**	**22,700**	**22,700**	**22,650**	**22,650**	**22,600**	**22,600**	**22,550**	**21,850**	**19,400**						
	>10°	20,350	19,900	18,400	15,800	14,600	13,650	12,850	12,150	11,550	11,050	10,550	10,100						
	angle	*32*	*38*	*43*	*47*	*51*	*54*	*56*	*58*	*60*	*62*	*63*	*64*						
2.5	≤10°	**17,900**	**17,900**	**17,900**	**17,850**	**17,850**	**17,850**	**17,800**	**17,800**	**17,800**	**17,750**	**17,750**	**17,700**	**16,550**	**15,650**				
	>10°	15,950	15,950	15,950	15,350	14,450	13,700	11,950	11,300	10,750	10,250	9,800	9,400	9,000	8,700				
	angle	*20*	*29*	*36*	*42*	*46*	*49*	*52*	*54*	*57*	*58*	*60*	*62*	*63*	*64*				
3	≤10°	**15,350**	**14,650**	**14,600**	**14,600**	**14,600**	**14,600**	**14,550**	**14,550**	**14,550**	**14,550**	**14,500**	**14,400**	**13,600**	**12,900**	**12,200**			
	>10°	13,650	13,000	13,000	12,300	11,700	11,200	10,000	9,500	9,100	8,700	8,350	8,050	7,800	7,500	7,300			
	angle	*(2.9)*	*18*	*28*	*35*	*40*	*44*	*48*	*50*	*53*	*55*	*57*	*59*	*60*	*61*	*63*			
3.5	≤10°		**13,150**	**12,300**	**12,300**	**12,300**	**12,300**	**12,300**	**12,300**	**12,250**	**12,250**	**12,250**	**12,250**	**12,250**	**12,200**	**12,200**	**11,900**	**11,250**	**10,900**
	>10°		11,650	10,950	10,950	10,950	10,900	10,600	10,100	9,700	8,850	8,450	8,100	7,750	7,500	7,250	7,000	6,750	6,650
	angle		*(3.3)*	*17*	*27*	*34*	*39*	*43*	*46*	*49*	*51*	*54*	*55*	*57*	*59*	*60*	*61*	*62*	*63*
4	≤10°			**11,200**	**10,550**	**10,600**	**10,550**	**10,550**	**10,550**	**10,550**	**10,550**	**10,550**	**10,500**	**10,500**	**10,500**	**10,500**	**10,500**	**10,450**	**10,150**
	>10°			9,900	9,350	9,350	9,350	9,350	9,250	8,850	8,500	8,200	7,550	7,250	6,950	6,750	6,500	6,300	6,200
	angle			*(3.8)*	*16*	*26*	*33*	*38*	*42*	*45*	*48*	*50*	*52*	*54*	*56*	*57*	*59*	*60*	*61*
5	≤10°				**9,650**	**8,500**	**8,150**	**8,150**	**8,150**	**8,150**	**8,100**	**8,100**	**8,100**	**8,100**	**8,100**	**8,100**	**8,100**	**8,100**	**8,050**
	>10°				8,550	7,450	7,150	7,150	7,150	7,150	7,150	6,950	6,700	6,500	6,300	6,150	5,650	5,500	5,400
	angle				*(4.3)*	*(4.8)*	*15*	*25*	*31*	*36*	*39*	*43*	*45*	*48*	*50*	*52*	*53*	*55*	*56*
6	≤10°						**7,500**	**6,700**	**6,500**	**6,500**	**6,500**	**6,500**	**6,500**	**6,500**	**6,500**	**6,500**	**6,500**	**6,450**	**6,450**
	>10°						6,600	5,900	5,700	5,700	5,700	5,700	5,700	5,600	5,400	5,250	5,100	5,000	4,900
	angle						*(5.3)*	*(5.8)*	*14*	*23*	*29*	*34*	*37*	*41*	*43*	*46*	*48*	*50*	*51*
7	≤10°								**6,050**	**5,500**	**5,350**	**5,350**	**5,350**	**5,350**	**5,350**	**5,350**	**5,350**	**5,350**	**5,350**
	>10°								5,300	4,750	4,650	4,650	4,650	4,650	4,650	4,600	4,450	4,350	4,300
	angle								*(6.3)*	*(6.8)*	*14*	*22*	*28*	*32*	*36*	*39*	*42*	*44*	*45*
8	≤10°										**5,000**	**4,550**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**	**4,450**
	>10°										4,300	3,950	3,850	3,850	3,850	3,850	3,850	3,800	3,750
	angle										*(7.3)*	*(7.8)*	*13*	*21*	*27*	*31*	*34*	*37*	*39*
9	≤10°												**4,200**	**3,850**	**3,800**	**3,800**	**3,800**	**3,800**	**3,800**
	>10°												3,600	3,300	3,250	3,250	3,250	3,250	3,250
	angle												*(8.3)*	*(8.8)*	*12*	*20*	*26*	*30*	*32*
10	≤10°														**3,550**	**3,300**	**3,250**	**3,250**	**3,250**
	>10°														3,000	2,800	2,750	2,750	2,750
	angle														*(9.3)*	*(9.8)*	*12*	*19*	*23*
11	≤10°																**3,050**	**2,800**	**2,800**
	>10°																2,550	2,350	2,350
	angle																*(10.3)*	*(10.8)*	*6*
11.1	≤10°																		**2,700**
	>10°																		2,250
	angle																		*(11.1)*

Fly jib

LMI Duties 105 to 108 (counterweight on front) and 205 to 208 (counterweight on rear). The figures are the same for both.

LMI DUTY 105 / 205

3 m fly jib, top position, 0° offset

Pivot to fly jib maximum length 21.4 m

Boom angle	Maximum radius (m)	Rated capacity (kg)
65°	6.10	**1,500**
60°	7.76	**1,500**
55°	9.34	**1,200**
50°	10.83	**1,200**
45°	12.22	**970**
40°	13.49	**970**
35°	14.65	**850**
30°	15.67	**850**
25°	16.55	**770**
20°	17.29	**770**
15°	17.88	**750**
10°	18.31	**750**
5°	18.58	**750**
0°	18.69	**750**

LMI DUTY 106 / 206

3 m fly jib, top position, 12.5° offset

Pivot to fly jib maximum length 21.4 m

Boom angle	Maximum radius (m)	Rated capacity (kg)
65°	6.60	**1,300**
60°	8.23	**1,300**
55°	9.78	**1,120**
50°	11.24	**1,120**
45°	12.59	**920**
40°	13.83	**920**
35°	14.94	**820**
30°	15.92	**820**
25°	16.76	**770**
20°	17.45	**770**
15°	17.99	**750**
10°	18.37	**750**
5°	18.59	**750**
0°	18.65	**750**

LMI DUTY 107 / 207

4 m fly jib, top position, 5° offset

Pivot to fly jib maximum length 22.48 m

Boom angle	Maximum radius (m)	Rated capacity (kg)
65°	6.85	**700**
60°	8.58	**600**
55°	10.23	**600**
50°	11.77	**600**
45°	13.21	**600**
40°	14.53	**500**
35°	15.72	**500**
30°	16.77	**500**
25°	17.67	**500**
20°	18.42	**500**
15°	19.00	**500**
10°	19.43	**500**
5°	19.68	**500**
0°	19.77	**500**

LMI DUTY 108 / 208

4 m fly jib, bottom position, 17.5° offset

Pivot to fly jib maximum length 22.41 m

Boom angle	Maximum radius (m)	Rated capacity (kg)
65°	7.82	**600**
60°	9.50	**600**
55°	11.09	**600**
50°	12.57	**500**
45°	13.94	**500**
40°	15.18	**500**
35°	16.29	**500**
30°	17.25	**500**
25°	18.07	**500**
20°	18.72	**500**
15°	19.22	**500**
10°	19.55	**500**
5°	19.70	**500**
0°	19.70	**500**

- Rated capacities are for slew (articulation) angles up to 40° either side of straight ahead.
- All fly jib rated capacities are structural. They are based on 66.6% stability and strength, on firm level ground (1% slope) with tyres inflated as per the tyre table.
- Capacities and radii are based on the fully extended boom. For operation with the boom part or fully retracted, the capacity is based on the boom angle, not the actual radius.
- Boom angles are undeflected (reference). Spring lockouts are to be engaged for all lifting operations.
- Add the weight of hooks, blocks and other load handling devices to the weight of the load.

Man basket

LMI Duty 109 (counterweight on front) and LMI Duty 209 (counterweight on rear). Spring lockouts engaged.

Item	Value
Maximum man basket rated capacity	275 kg
Basket weight	225 kg

The total weight of the man basket plus men and equipment is not to exceed one third of the safe working load read from the fall block chart for the boom length and radius being used: LMI Duty 101 (page 7) with the counterweight on the front, or LMI Duty 201 (page 13) with the counterweight on the rear.

Terms used in this document

Rated capacity (RC)	The total freely suspended load, including the load and all load handling equipment, that the crane can safely lift under ideal conditions at a given boom length and load radius. The manufacturer's charts show it as S.W.L.
Load radius	Horizontal distance from the centre of the front wheels forward to the centre of the winch rope or tackle with the load applied.
Loaded boom angle	Given to assist in setting up the crane only. It gives only an approximation of the load radius for a specified boom length. No allowance is made for boom or tyre deflection.
Articulation	The crane pivots in the middle to steer and to slew the load, up to 40° either way. Working areas for rating purposes are less than 10° and greater than 10° from straight ahead.
Deration	A decrease in rated capacity due to external influences, expressed as a percentage.
Side load	Any external force applied to the boom or the load in a horizontal direction.
LMI	Load moment indicator. A system which indicates, visually and audibly, to the operator when the rated capacity is approached and reached.

Planning a lift? Send us the details.

Load mass and dimensions, pick up and set down positions, access, ground conditions and any overhead services.

Jack 0438 461 185 **Casey 0438 060 694** **whitsundaycranes.com.au**

Capacity data in this document is transcribed from the Manufacturer's Rated Capacity Manual, Model MAC 25, book MXC1250A, for the crane as originally manufactured. Ratings apply only when the manufacturer's instructions are followed, and modifications or non-specified attachments can reduce them. If anything here differs from the manual carried in the crane, the manual in the crane applies.