

# MAC 25-3



**Features: MAC 25-3**

- ▶ 25 tonne at 1.41 m radius
- ▶ 1.8 tonne at 15.71 m radius
- ▶ 18 m maximum hook height
- ▶ Hook block (6 parts) capacity 25 tonne
- ▶ Single line 4.2 tonne

## Key

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## Dimensions




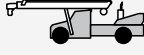

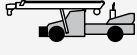







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## Technical description

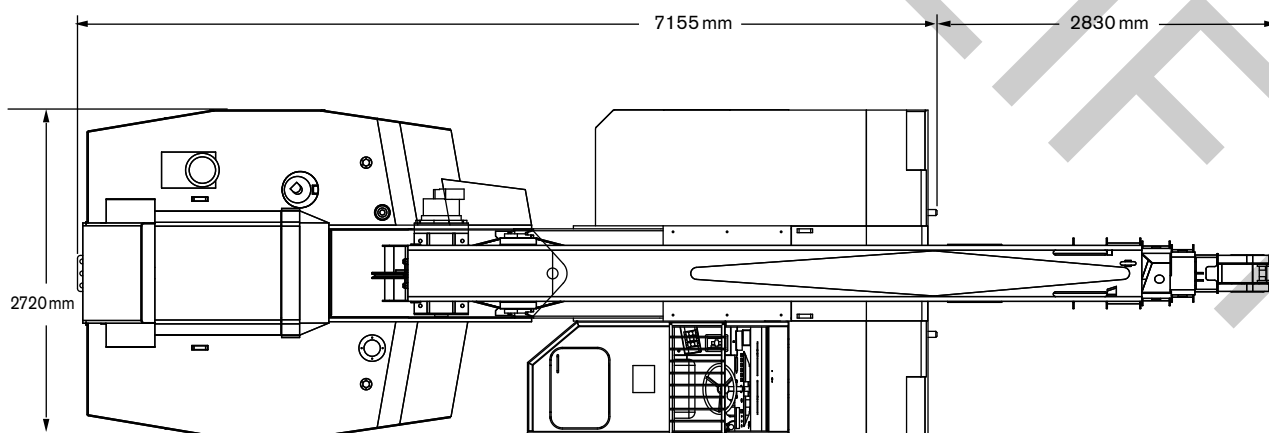
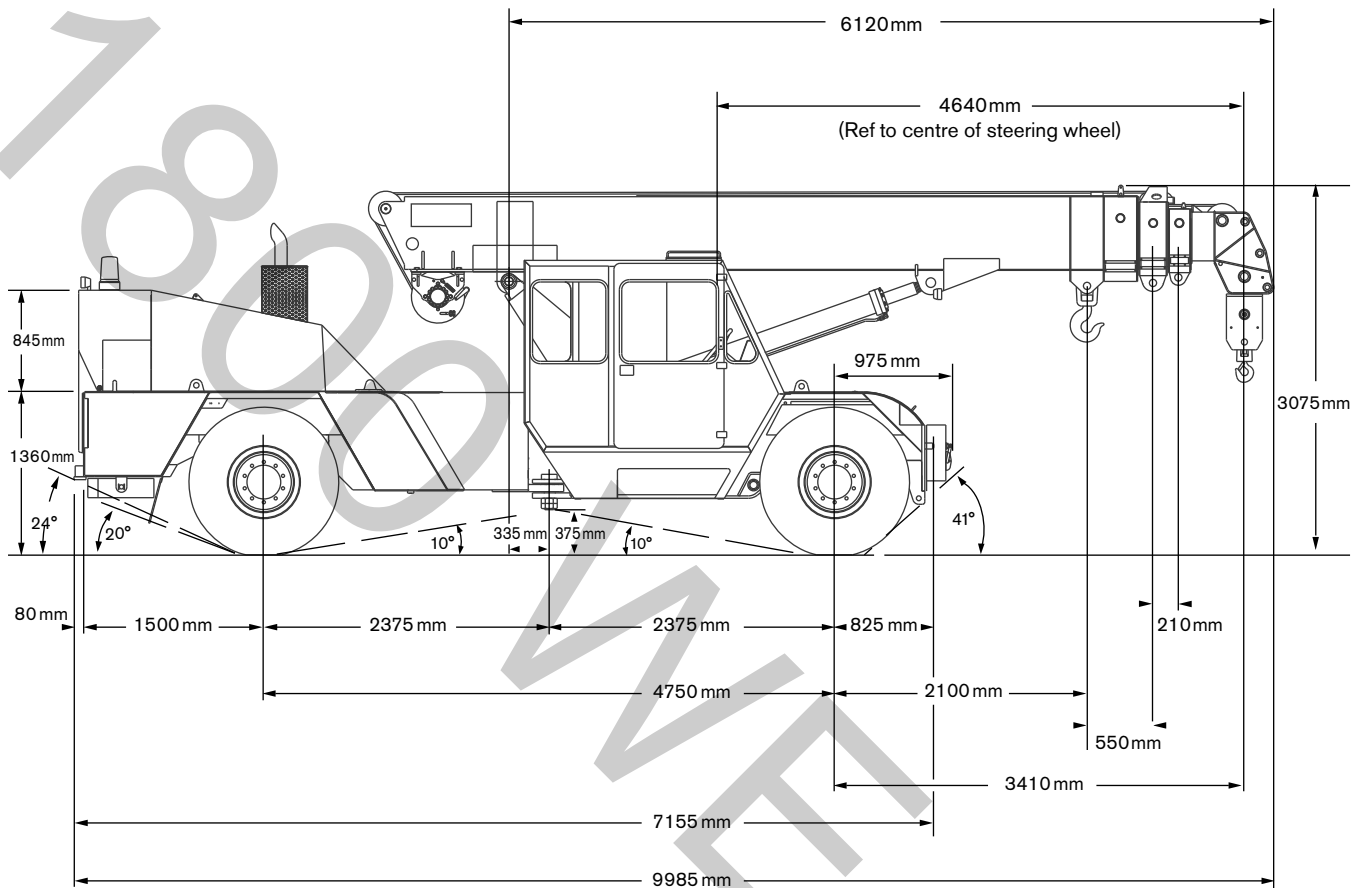
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	Boom length		Speed
	Hook height		Slewing / Allowable slewing range
	Boom with jib		Crane / Crane in standard configuration
	Telescoping mode		Gradeability
	Boom elevation angle		Gross vehicle weight
	Working radius		Counterweight on front
	Hook and block		Counterweight on rear
	On rubber		Controls
	Main winch		Cab
	Winch speed		Air conditioning / Cab heating
	Engine		Operator aids / Load limiter / Load indicator
	Transmission		Rope – Standard / Optional
	Hydraulics		Rope diameter
	Steering		Rope length
	Tyres		Maximum line pull

# DIMENSIONS

MAC 25-3

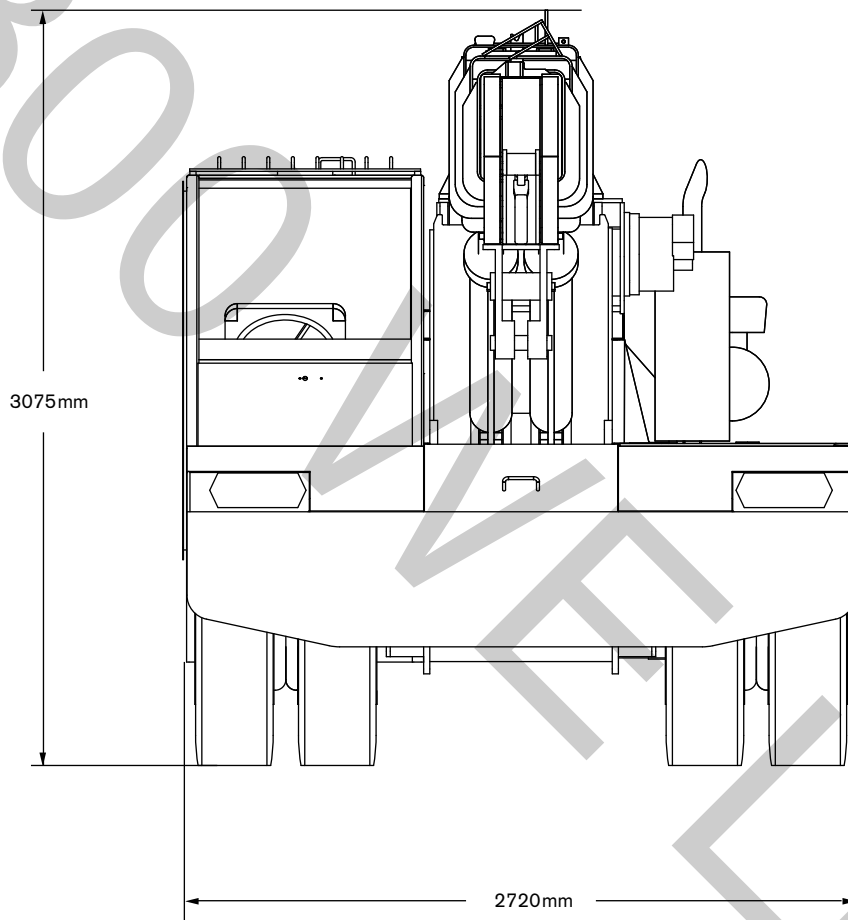
## Crane Dimensions



# DIMENSIONS

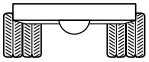
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## Crane Dimensions

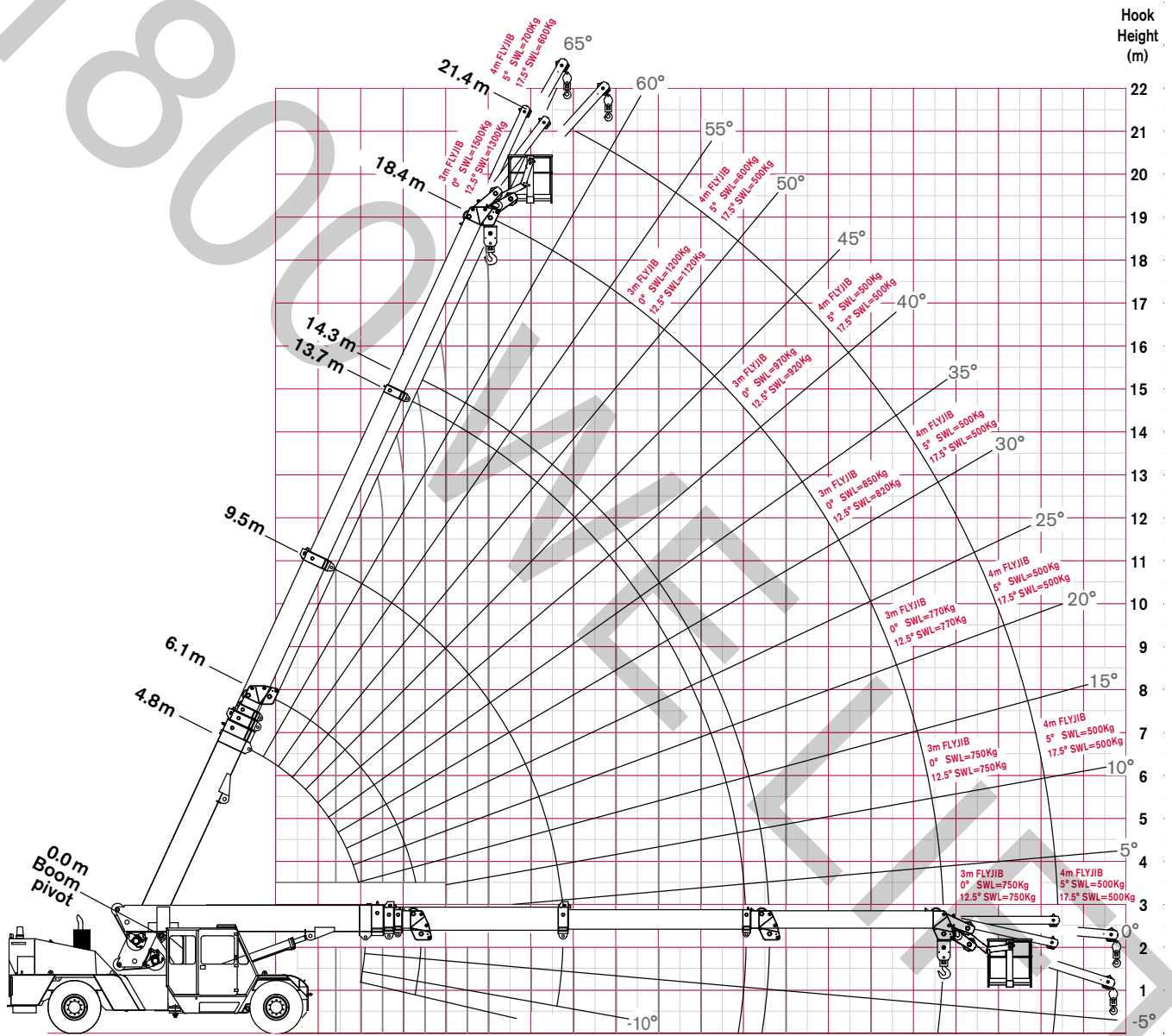


# RADIUS LOAD CHART

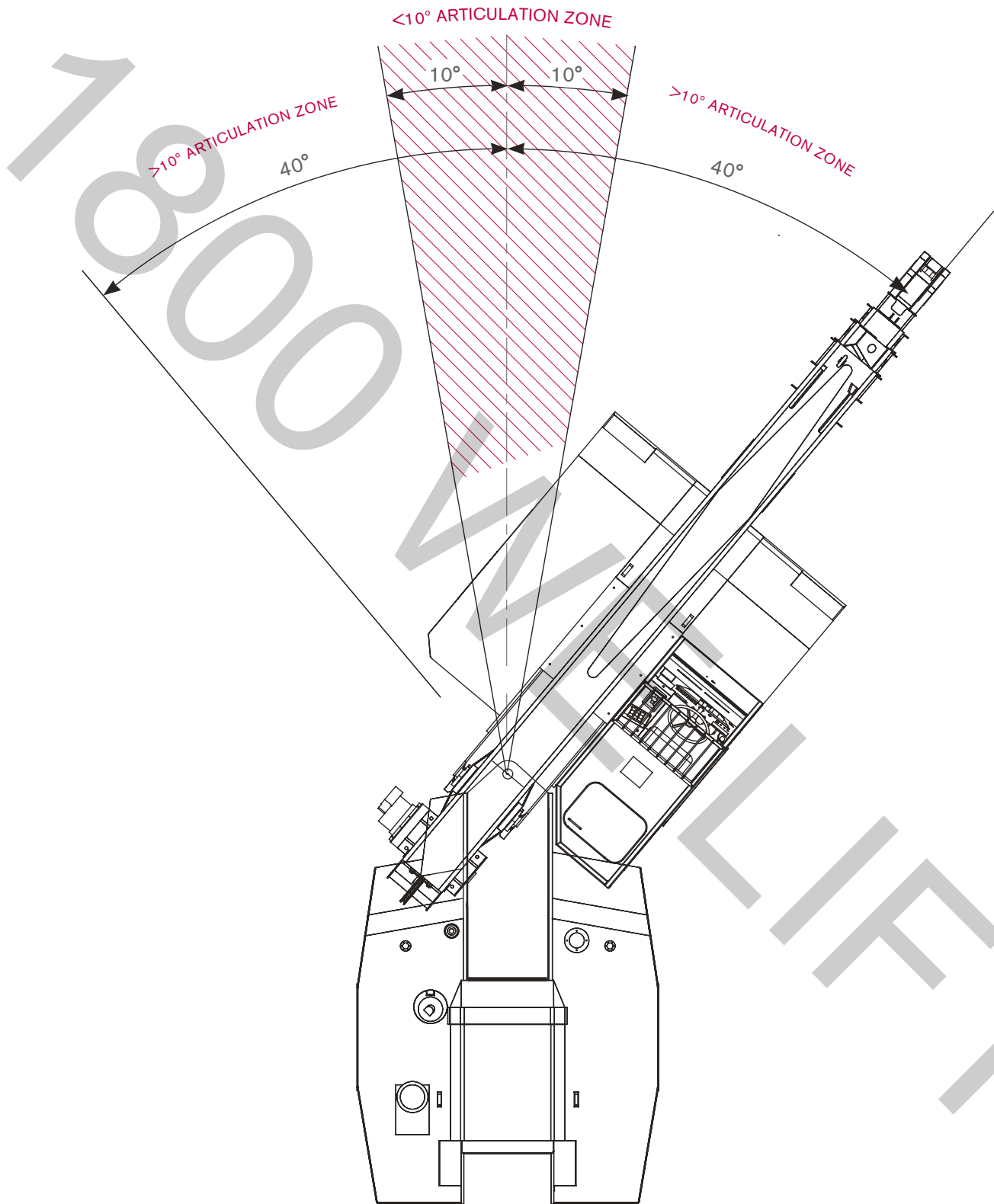
MAC 25-3



Pick & Carry 0.4m/s (1.44 km/h); On rubber 66.6%



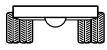
Radius (m)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
SWL (tonnes) 10° ARTIC	25	23	18	14.9	12.5	10.7	8.9	6.6	5.4	4.6	4.0	3.5	2.7	2.1	1.8							
SWL (tonnes) 40° ARTIC	25	20	16	13.3	11.1	9.5	7.3	5.8	4.7	3.9	3.3	2.9	2.3	1.8	1.5							



# LOAD CHART

MAC 25-3

## Fallblock, Front Counterweight, 3rd Boom Retracted



Pick & Carry 0.4 m/s (1.44 km/h); On rubber 66.6%



6.12–14.32 m

AS 1418.5

		Boom Length (m)																	
		6.12	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50		
m		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	m
1.4		23900	23850	23750	23800	23800	23750	23750	23750										1.4
	48°	51°	54°	57°	59°	61°	63°	65°											
2.0		19950	19900	19850	19800	19750	19750	19700	19650	19600	19300								2.0
	40°	44°	48°	51°	54°	57°	59°	61°	62°	64°	65°								
2.5		15700	15650	15600	15600	15550	15500	15500	15450	15400	15400	15400	15350	14600					2.5
	32°	37°	42°	46°	50°	52°	55°	57°	59°	61°	62°	63°	65°						
3.0		12800	12800	12800	12750	12700	12700	12650	12650	12600	12600	12600	12550	12550	12550	12500	12250		3.0
	21°	29°	35°	41°	45°	48°	51°	53°	55°	57°	59°	61°	62°	63°	64°	65°			
3.5		11050	10750	10750	10750	10700	10700	10650	10650	10600	10600	10600	10550	10550	10550	10500	10500	10500	3.5
	(3.4)	17°	28°	34°	39°	43°	47°	49°	52°	54°	56°	58°	59°	61°	62°	63°	65°		
4.0		9750	9200	9200	9200	9150	9150	9150	9150	9100	9100	9100	9050	9050	9050	9050	9000	9000	4.0
	(3.8)	17°	27°	33°	38°	42°	45°	48°	51°	53°	55°	56°	58°	59°	61°	62°			
5.0			8450	7400	7050	7050	7050	7000	7000	7000	6950	6950	6950	6950	6950	6950	6900	6900	5.0
	(4.3)		16°	25°	31°	36°	40°	43°	46°	48°	50°	52°	54°	56°	58°				
6.0					6550	5850	5600	5600	5600	5600	5550	5550	5550	5550	5550	5550	5500	5500	6.0
	(5.3)	(5.8)	15°	24°	30°	34°	38°	41°	44°	46°	48°	50°	53°						
7.0						5250	4750	4550	4550	4550	4550	4550	4550	4550	4550	4500	4500	4500	7.0
	(6.3)	(6.8)	14°	23°	28°	33°	36°	39°	42°	44°	48°								
8.0							4300	3900	3800	3800	3800	3800	3800	3800	3750	3750	3750	3750	8.0
	(7.3)	(7.8)	14°	22°	27°	31°	35°	38°	42°										
9.0										3600	3300	3200	3200	3200	3200	3200	3150	3150	9.0
	(8.3)	(8.8)	13°	21°	26°	30°	35°												
10													3000	2800	2700	2700	2700	2700	10
	(9.3)	(9.8)	12°	20°	28°														
11															2550	2350	2300	2300	11
	(10.3)	(10.8)	17°																
12																		2100	12
	(11.6)																		
13																			13
14																			14
15																			15
15.71																			15.71

- RC (kg) < than 10° articulation
- RC (kg) > than 10° articulation
- Boom angle
- Radius at 0° boom angle
- Loads above red line are structural

### Notes to lifting capacity

Lifting capacities do not exceed 66.6% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult Rated Capacity Manual for further details.

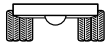
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# LOAD CHART

MAC 25-3

## Fallblock, Front Counterweight, 3rd Boom Extending



Pick & Carry 0.4 m/s (1.44 km/h); On rubber 66.6%



14.50–18.42 m

AS 1418.5

m	Boom Length (m)									m
	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42	
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
1.4										1.4
2.0										2.0
2.5										2.5
3.0										3.0
3.5	10500									3.5
	7250									
	65°									
4.0	9000	9050	9100							4.0
	6650	6500	6400							
	63°	64°	65°							
5.0	6900	6950	7000	7050	7100	7100	7150	7200		5.0
	5550	5500	5400	5350	5300	5200	5150	5100		
	58°	59°	61°	62°	63°	63°	64°	65°		
6.0	5500	5550	5600	5650	5700	5700	5750	5750	5800	6.0
	4750	4700	4650	4600	4550	4500	4450	4400	4350	
	53°	55°	56°	57°	58°	60°	61°	61°	62°	
7.0	4500	4550	4600	4650	4650	4700	4750	4750	4800	7.0
	3950	3950	4000	4000	3950	3900	3850	3850	3800	
	48°	50°	52°	53°	54°	56°	57°	58°	59°	
8.0	3750	3800	3850	3900	3900	3950	4000	4000	4050	8.0
	3250	3300	3350	3350	3400	3450	3400	3350	3350	
	43°	45°	47°	48°	50°	51°	53°	54°	55°	
9.0	3200	3250	3250	3300	3350	3350	3400	3400	3450	9.0
	2700	2750	2800	2850	2850	2900	2950	2950	2950	
	36°	39°	41°	43°	45°	47°	48°	50°	51°	
10	2700	2750	2800	2850	2850	2900	2900	2950	2950	10
	2300	2350	2400	2400	2450	2450	2500	2550	2550	
	29°	32°	35°	38°	40°	42°	44°	45°	47°	
11	2350	2350	2400	2450	2450	2500	2550	2550	2600	11
	1950	2000	2050	2050	2100	2100	2150	2200	2200	
	19°	24°	28°	31°	34°	37°	39°	41°	42°	
12	2050	2050	2100	2100	2150	2200	2200	2250	2250	12
	1700	1700	1750	1750	1800	1850	1850	1900	1900	
	(11.8)	12°	19°	23°	27°	30°	33°	36°	37°	
13		1950	1850	1850	1850	1900	1950	1950	2000	13
		1600	1500	1500	1550	1600	1600	1650	1650	
		(12.3)	(12.8)	11°	18°	23°	27°	30°	32°	
14				1750	1650	1650	1700	1700	1750	14
				1450	1350	1350	1400	1400	1450	
				(13.3)	(13.8)	11°	18°	22°	25°	
15						1600	1500	1500	1550	15
						1300	1250	1250	1250	
						(14.3)	(14.8)	11°	16°	
15.71								1450	1400	15.71
								1150	1100	
								(15.3)	(15.7)	

- RC (kg) < than 10° articulation
- RC (kg) > than 10° articulation
- Boom angle
- Radius at 0° boom angle
- Loads above red line are structural

### Notes to lifting capacity

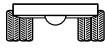
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# LOAD CHART

MAC 25-3

## Fallblock, Rear Counterweight, Third Boom Retracted



Pick & Carry 0.4 m/s (1.44 km/h); On rubber 66.6%



6.12–14.32 m

AS 1418.5

		Boom Length (m)																	
		6.12	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50		
m		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	m
1.4		25000	25000	25000	25000	25000	25000	25000	25000										1.4
	48°	21750	20200	18550	17250	16150	15200	14400	13700										
2.0		23000	22950	22850	22950	22900	22850	22800	22800	22150	19300								2.0
	40°	19850	18700	17500	16150	15000	14100	13300	12600	12000	11450	10950							
2.5		18200	18150	18150	18100	18050	18000	18000	17950	17950	17900	17750	15550	14600					2.5
	32°	16250	16250	15600	14700	13900	13200	12400	11750	11150	10650	10200	9800	9400					
3.0		14900	14900	14900	14850	14800	14800	14750	14750	14700	14700	14700	14350	13500	13000	12600	12250		3.0
	21°	13300	13300	13250	13250	12500	11900	11400	10900	10400	9900	9500	9100	8750	8450	8150	7850		
3.5		12900	12550	12550	12500	12500	12500	12450	12450	12400	12400	12400	12350	12350	12150	11750	11400	10850	3.5
	(3.4)	11450	11150	11150	11150	11100	10800	10300	9900	9500	9200	8800	8450	8150	7850	7600	7350	6950	
4.0		11450	10800	10750	10750	10750	10700	10700	10700	10700	10650	10650	10650	10600	10600	10600	10600	10100	4.0
	(3.8)	10150	9550	9550	9550	9550	9400	9000	8650	8350	8100	7850	7550	7300	7050	6850	6500	6200	
5.0			9900	8700	8300	8300	8300	8250	8250	8250	8250	8200	8200	8200	8200	8200	8200	8150	5.0
	(4.3)		8750	7700	7350	7300	7300	7300	7300	7100	6850	6600	6400	6250	6100	5950	5650	5800	
6.0					7700	6900	6650	6650	6650	6600	6600	6600	6600	6600	6600	6600	6550	6550	6.0
	(5.3)				6800	6100	5850	5850	5800	5800	5800	5700	5550	5350	5200	5100	4900	5300	
7.0						6250	5650	5450	5450	5450	5450	5450	5450	5450	5400	5400	5400	7.0	
	(6.3)					5450	4950	4750	4750	4750	4750	4750	4750	4700	4550	4450	4250		4800
8.0									5150	4700	4550	4550	4550	4550	4550	4550	4550	8.0	
	(7.3)								4500	4100	3950	3950	3950	3950	3950	3900	3750		4200
9.0												4350	4000	3900	3900	3900	3900	9.0	
	(8.3)											3750	3450	3350	3350	3350	3350		3500
10														3700	3400	3350	3350	10	
	(9.3)													3150	2950	2850	2850		2850
11																3200	2950	11	
	(10.3)															2700	2500		2450
12																		12	
	(11.6)																		2650
13																		13	
	(10.8)																		2200
14																		14	
	(11.6)																		2650
15																		15	
	(11.6)																		2200
15.71																		15.71	
	(11.6)																		2650

- RC (kg) < than 10° articulation
- RC (kg) > than 10° articulation
- Boom angle
- Radius at 0° boom angle
- Loads above red line are structural

### Notes to lifting capacity

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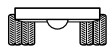
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# LOAD CHART

# MAC 25-3

## Fallblock, Rear Counterweight, Third Boom Extending



Pick & Carry 0.4 m/s (1.44 km/h); On rubber 66.6%



14.50–18.42 m

AS 1418.5

m	Boom Length (m)									m	
	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42		
kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	
1.4											1.4
2.0											2.0
2.5											2.5
3.0											3.0
3.5	10750										3.5
	6900										
4.0	65°										4.0
	10050	9850	9650								
5.0	6450	6300	6150								5.0
	63°	64°	65°								
6.0	8200	8200	8250	8300	8250	8150	8000	7900			6.0
	5600	5500	5400	5300	5200	5100	5050	4950			
7.0	58°	59°	61°	62°	63°	63°	64°	65°			7.0
	6550	6600	6650	6700	6750	6750	6800	6800	6850		
8.0	4850	4800	4750	4650	4600	4550	4450	4400	4350		8.0
	53°	55°	56°	57°	58°	60°	61°	61°	62°		
9.0	5400	5450	5500	5550	5550	5600	5650	5650	5700		9.0
	4250	4200	4150	4100	4050	4000	3950	3900	3850		
10.0	48°	50°	52°	53°	54°	56°	57°	58°	59°		10.0
	4550	4600	4650	4650	4700	4750	4750	4800	4800		
11.0	3750	3700	3650	3600	3600	3550	3500	3500	3450		11.0
	43°	45°	47°	48°	50°	51°	53°	54°	55°		
12.0	3900	3900	3950	4000	4050	4050	4100	4100	4150		12.0
	3350	3300	3250	3200	3200	3150	3150	3100	3100		
13.0	36°	39°	41°	43°	45°	47°	48°	50°	51°		13.0
	3350	3400	3400	3450	3500	3500	3550	3550	3600		
14.0	2850	2900	2900	2900	2850	2850	2800	2800	2750		14.0
	29°	32°	35°	38°	40°	42°	44°	45°	47°		
15.0	2900	2950	3000	3000	3050	3050	3100	3150	3150		15.0
	2450	2500	2550	2550	2600	2550	2550	2500	2500		
16.0	19°	24°	28°	31°	34°	37°	39°	41°	42°		16.0
	2600	2550	2600	2650	2650	2700	2750	2750	2800		
17.0	2150	2150	2200	2250	2250	2300	2300	2300	2300		17.0
	(11.8)	12°	19°	23°	27°	30°	33°	36°	37°		
18.0		2450	2350	2300	2350	2400	2400	2450	2450		18.0
		2050	1950	1950	2000	2000	2050	2050	2100		
19.0		(12.3)	(12.8)	11°	18°	23°	27°	30°	32°		19.0
				2200	2100	2100	2150	2150	2200		
20.0				1850	1750	1750	1800	1800	1850		20.0
				(13.3)	(13.8)	11°	18°	22°	25°		
21.0						2050	1950	1950	1950		21.0
						1700	1600	1600	1650		
22.0						(14.3)	(14.8)	11°	16°		22.0
								1850	1800		
23.0								1550	1500		23.0
								(15.3)	(15.7)		


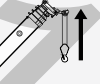



- RC (kg) < than 10° articulation
- RC (kg) > than 10° articulation
- Boom angle
- Radius at 0° boom angle
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### Notes to lifting capacity



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## Boom and Jib

	<b>Four section boom:</b> Main boom and three powered sections	
	Maximum hook height	18 m
	Boom elevation angle range (min. / max.)	-10° / 65°
	Maximum hook height with jib	22 m
	40° articulation each side of centre providing a total 80° slewing arc	80°
	Machinery hook	15 tonne


## Winch

	<b>Winch:</b> Fully compensated hook height when telescoping boom 1 and 2 Anti two-block system	
	Maximum line pull	4.2 tonne
	Two speed winch	41 m/min / 82 m/min
	Hook block, two, four, or six part, maximum rated capacity	25 tonne

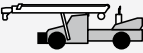
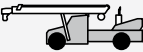


## Engine and Transmission

	Mercedes OM 906 EUROMOT 3a turbo charged and intercooled diesel engine with hinged engine cover and mid cover for easy serviceability	205 kW
	Engine torque	1100 Nm
	Fuel capacity	440 l
	Fuel type	diesel
	Allison 3000	6-speed automatic
	<b>Transfer Case:</b> Styer VG 750 2:1 ratio High/low range via airshift 2WD/4WD via airshift, disconnect to rear axle	


## Hydraulic System

	<b>Hydraulic Pump:</b> Load sensing axial piston Maximum pump flow rate Maximum working pressure	150 litre/min 250 bar
	Hydraulic tank with top mounted return and in-tank suction filters	380 l


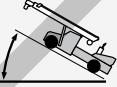
## Chassis

	<b>Drive axles:</b> Kessler D71 PL477 heavy duty high speed planetary axle Front axle fitted with driver selectable diff lock and reinforced for pick and carry operation	
	<b>Removable counterweight on front:</b> Front axle Rear axle	11,900 kg 12,000 kg
	<b>Removable counterweight on rear:</b> Front axle Rear axle	9,900 kg 14,000 kg
	<b>Total:</b>	23,900 kg
	Full power Orbitrol with twin hydraulic double acting rams Priority flow from main pump supply plus electro-hydraulic emergency supply Turning Circle: Outside wheels radius	7.9 m
	<b>Brakes:</b> Air operated high capacity Large wedge style twin circuit service and spring applied park brakes on both front and rear axles Crane operation hold brake on right side front wheel Driver selectable engine exhaust brake is available in all gears - automatically selects converter lockup	
	<b>Suspension:</b> Two semi-elliptic springs on front and rear axle with automatic hydraulic spring lockouts on front axle	

## Tyres

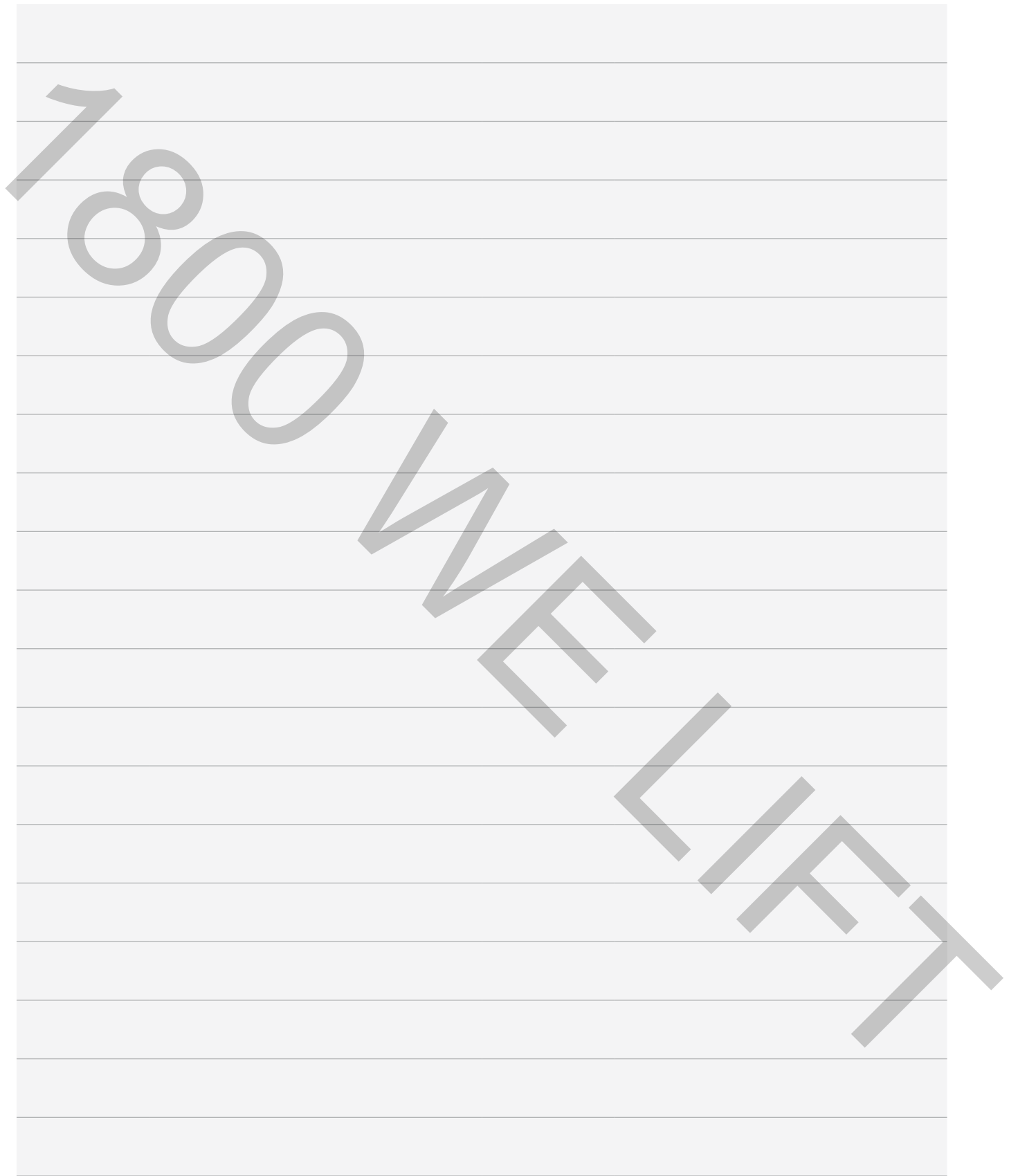
	14.00 x 20 bias ply duals 20 in x 10 in heavy duty ISO 10 stud 335 PCD spigot mount rims
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## Vehicle performance

	Maximum rated travel speed	75 kph
	Gradeability	45%

## Cab, Controls, and Operator aids

	<b>Two person, insulated lock up cabin:</b> <ul style="list-style-type: none"><li>KAB suspension driver's and passenger seats, including retracting seat belts</li><li>Colour LCD display</li><li>Radio/CD player with Bluetooth handsfree</li><li>Reversing camera</li><li>Centralised greasing</li><li>Cruise control</li><li>Engine monitoring</li><li>Service diagnostics</li></ul>
	3B6 rated capacity indicator with audio/visual overload pre-warning and motion cut-outs
	3 pilot control levers for crane functions
	Air conditioned and heated



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