



**PICK & CARRY CRANE
MAC 25-3**

DATASHEET - METRIC

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

WORKS FOR YOU.™



CONTENTS

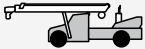
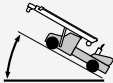
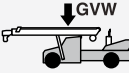
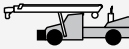
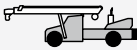
MAC 25-3

	Page:
Key	
.....	3
Dimensions	
Crane dimensions	4, 5
Range diagram	6
Area of operation	7
Load charts	
Fallblock, Front counterweight	
Third boom retracted	8
Third boom extending	9
Fallblock, Rear counterweight	
Third boom retracted	10
Third boom extending	11
Technical description	
Boom and Jib	12
Winch	12
Engine and transmission	12
Hydraulic system	13
Chassis	13
Tyres	13
Vehicle performance	14
Cab, controls, and operator aids	14



KEY

MAC 25-3

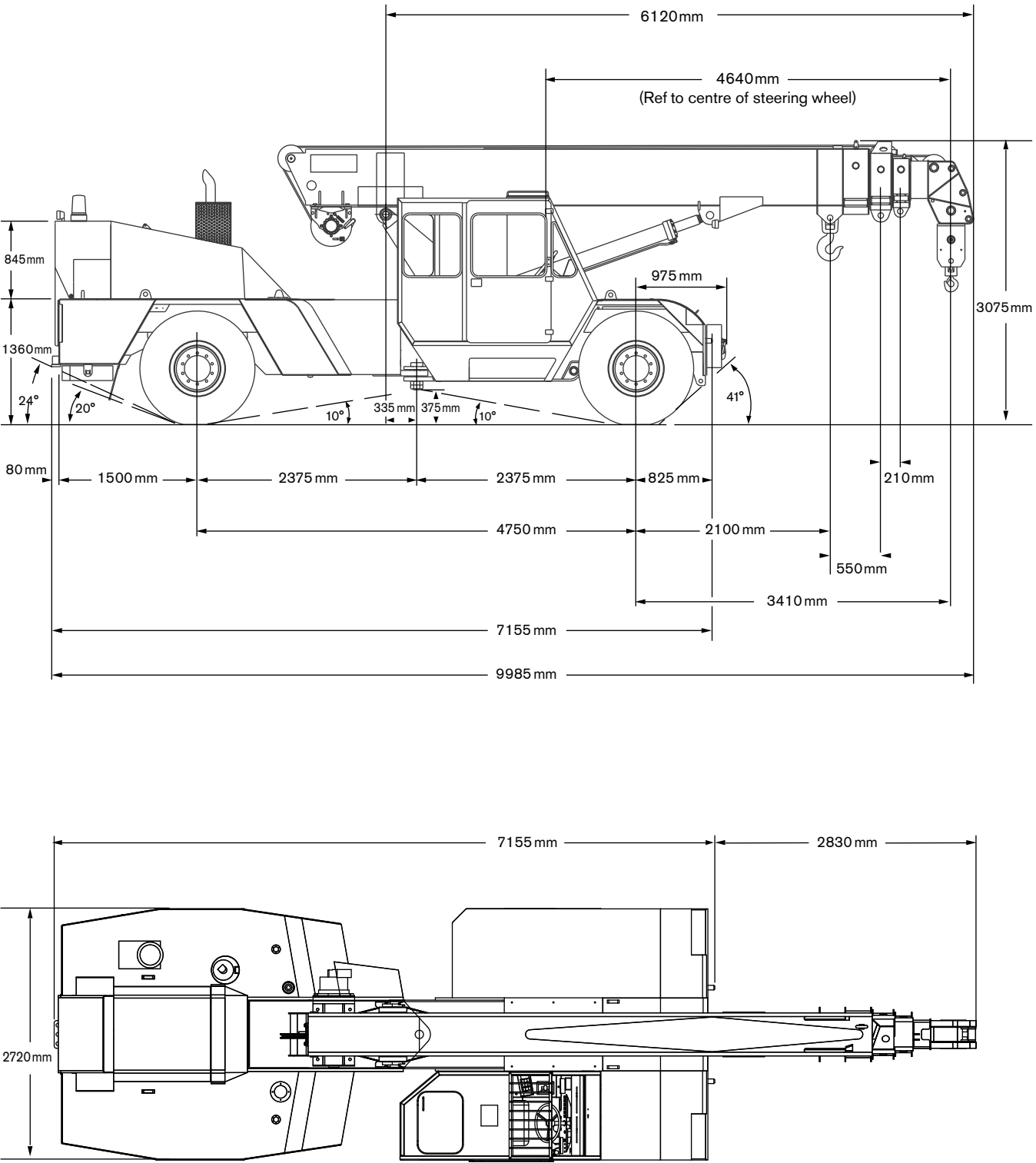
	Boom length		Speed
	Hook height		Slewing / Allowable slewing range
	Boom with jib		Crane / Crane in standard configuration
	Telescoping mode		Gradeability
	Boom elevation angle		Gross vehicle weight
	Working radius		Counterweight on front
	Hook and block		Counterweight on rear
	On rubber		Controls
	Main 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

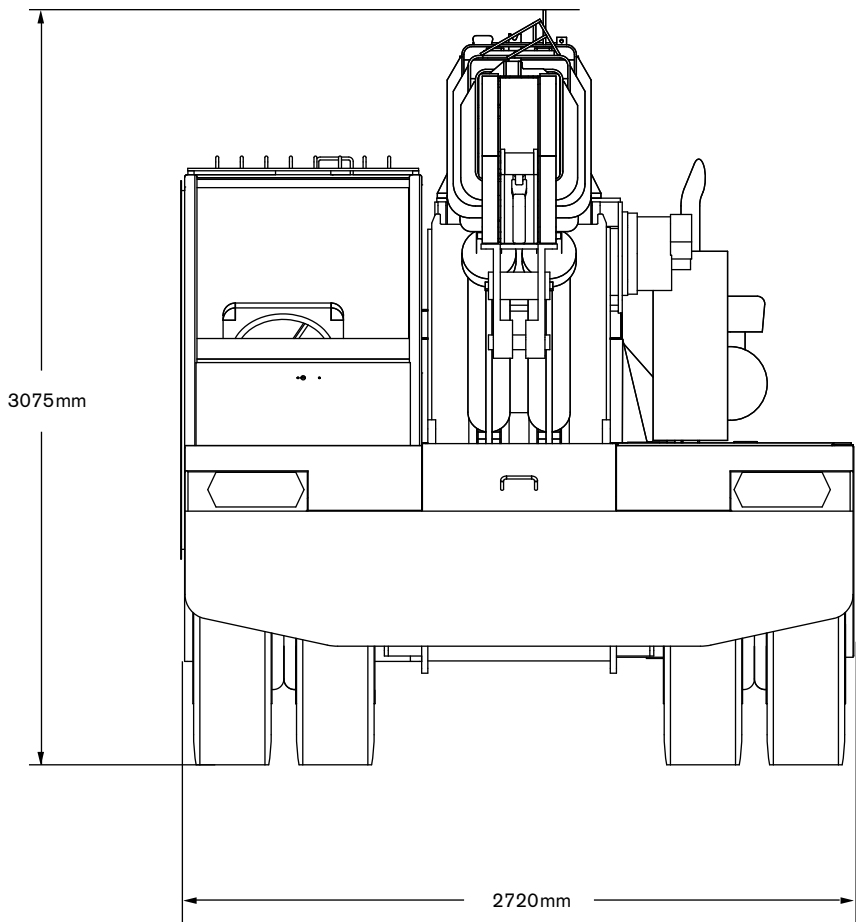




DIMENSIONS

MAC 25-3

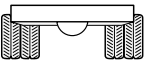
Crane Dimensions



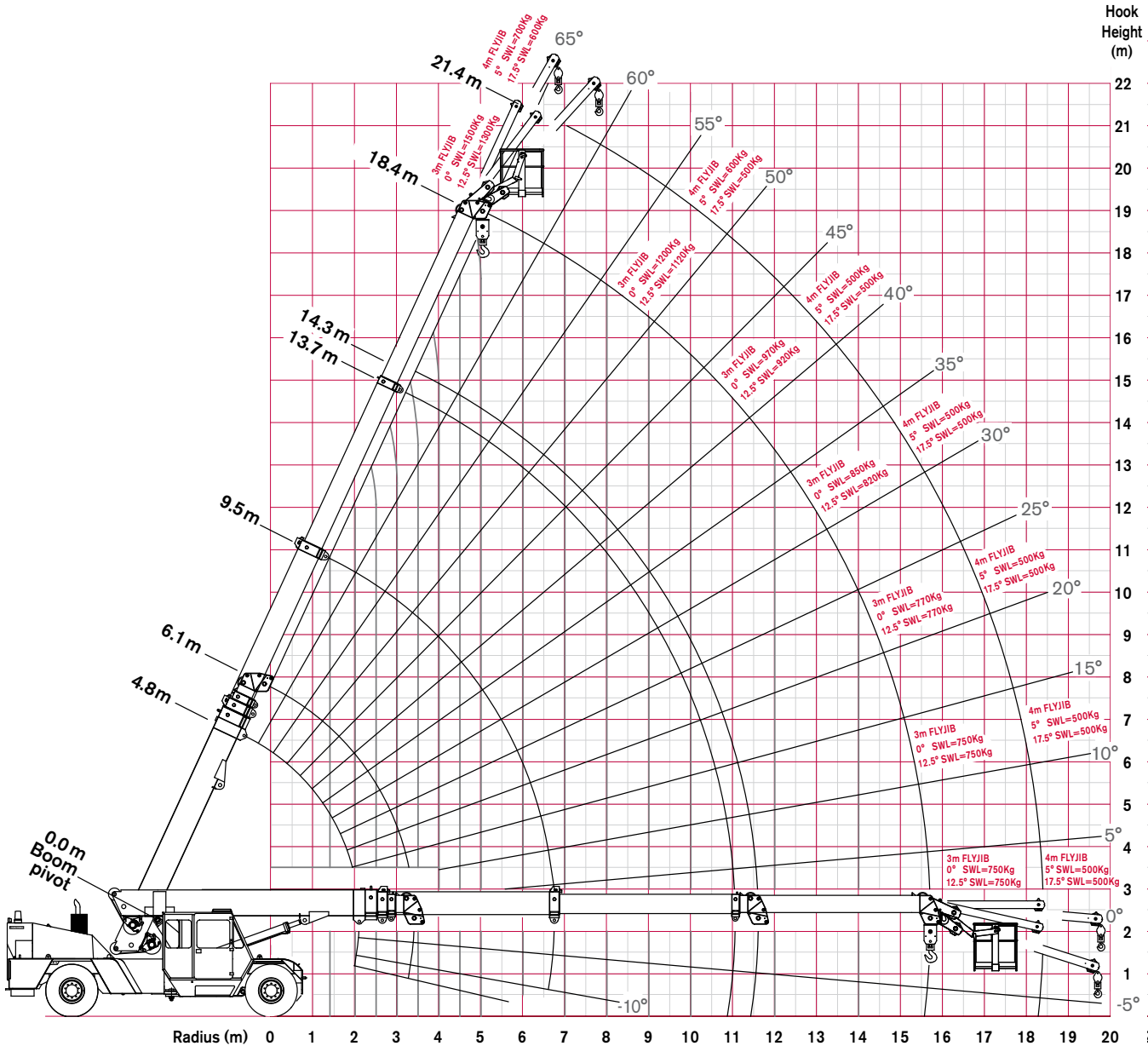


RADIUS LOAD CHART

MAC 25-3



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

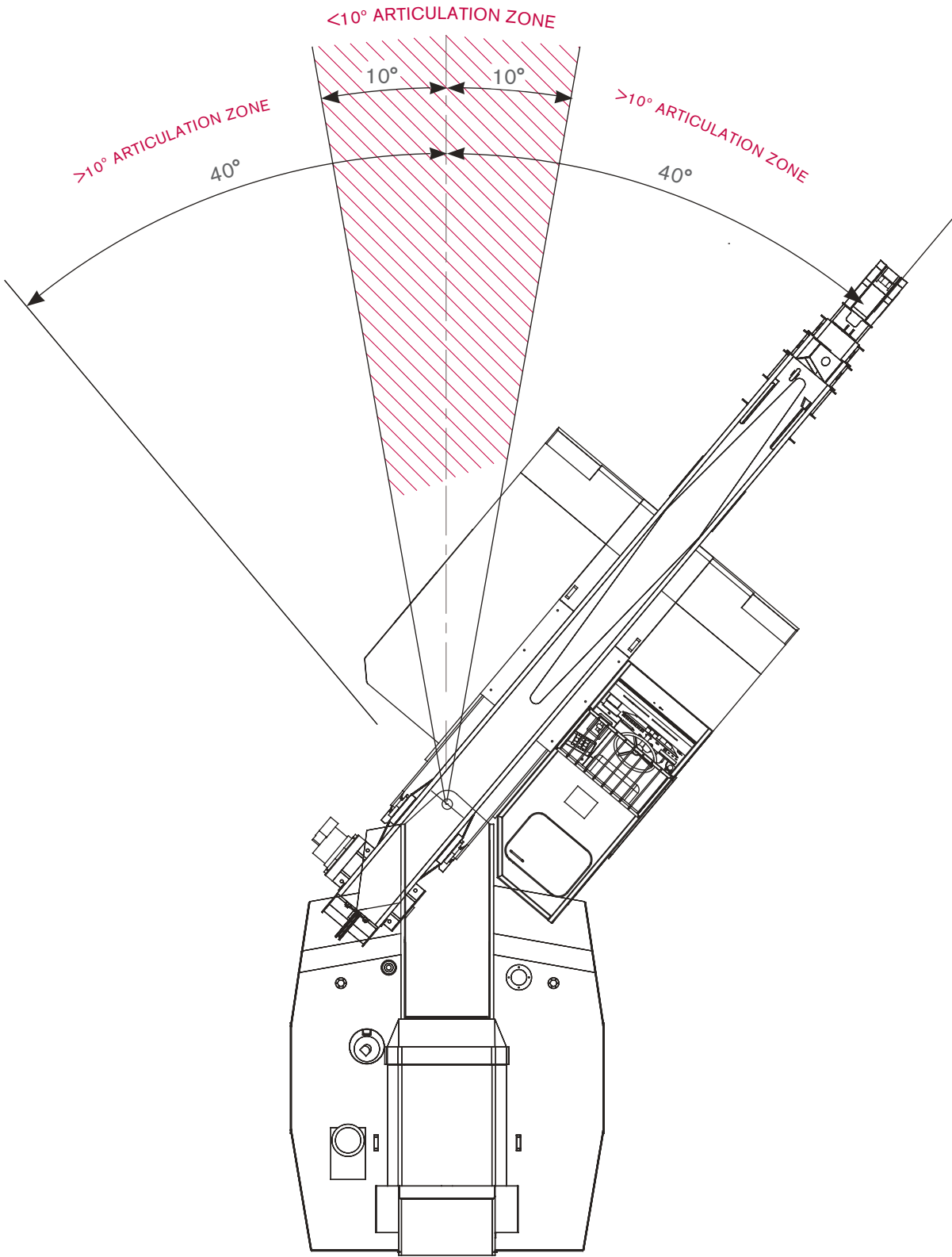


SWL (tonnes) 10° ARTIC	25	23	18	14.9	12.5	10.7	8.3	6.6	5.4	4.6	4.0	3.5	2.7	2.1	1.8
SWL (tonnes) 40° ARTIC	25	20	16	13.3	11.1	9.5	7.3	5.8	4.7	3.9	3.3	2.9	2.3	1.8	1.5



AREA OF OPERATION

MAC 25-3





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	14.32	
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	23750	23750	23750	23750										1.4
	23750	22450	20950	19200	17750	16600	15600	14750										
	48°	51°	54°	57°	59°	61°	63°	65°										
2.0	19950	19900	19850	19800	19750	19750	19700	19650	19650	19600	19300							2.0
	17850	17850	17800	16850	15950	15150	14500	13750	13000	12350	11750							
	40°	44°	48°	51°	54°	57°	59°	61°	62°	64°	65°							
2.5	15700	15650	15600	15600	15550	15500	15500	15450	15450	15400	15400	15350	14600					2.5
	14000	14000	13950	13900	13900	13400	12800	12300	11800	11400	10950	10500	10050					
	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
	11450	11400	11400	11350	11350	11300	11300	10950	10550	10150	9800	9500	9200	8950	8600	8300		
	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
	9800	9550	9550	9550	9500	9500	9450	9450	9450	9150	8850	8550	8300	8050	7850	7650	7300	
	(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	9100	9100	9100	9100	9050	9050	9050	9050	9000	9000	4.0
	8650	8150	8150	8150	8150	8100	8100	8050	8050	8050	8000	7750	7550	7350	7150	6950	6650	
	(3.8)	17°	27°	33°	38°	42°	45°	48°	51°	53°	55°	56°	58°	59°	61°	62°		
5.0	8450	7400	7050	7050	7050	7050	7000	7000	7000	7000	6950	6950	6950	6950	6950	6900	6900	5.0
	7450	6500	6200	6200	6200	6200	6200	6150	6150	6150	6150	6100	6100	6000	5800	5600		
	(4.3)	(4.8)	16°	25°	31°	36°	40°	43°	46°	48°	50°	52°	54°	56°	58°			
6.0	6550	5850	5600	5600	5600	5600	5600	5600	5550	5550	5550	5550	5550	5550	5500	5500		6.0
	5750	5100	4900	4900	4900	4900	4900	4900	4850	4850	4850	4850	4850	4850	4850	4750		
	(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	4550	4550	4550	4550	4500	4500		7.0
	4600	4100	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3950	3900		
	(6.3)	(6.8)	14°	23°	28°	33°	36°	39°	42°	44°	48°							
8.0	4300	3900	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3800	3750	3750	3750		8.0
	3700	3400	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250		
	(7.3)	(7.8)	14°	22°	27°	31°	35°	38°	42°									
9.0	3600	3300	3200	3200	3200	3200	3200	3150										9.0
	3100	2800	2700	2700	2700	2700	2700	2700										
	(8.3)	(8.8)	13°	21°	26°	30°	35°											
10	3000	2800	2700	2700	2700	2700	2700	2700										10
	2550	2350	2300	2300	2300	2300	2300	2300										
	(9.3)	(9.8)	12°	20°	28°													
11	2550	2350	2300															11
	2150	2000	1950															
	(10.3)	(10.8)	17°															
12																		12
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.

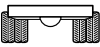
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LOAD CHART

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

	Boom Length (m)									
	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42	
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	m
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

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, 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

	Boom Length (m)									
	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.42	
m	kg	kg	kg	kg	kg	kg	kg	kg	kg	m
1.4										1.4
2.0										2.0
2.5										2.5
3.0										3.0
3.5	10750									3.5
	6900									
	65°									
4.0	10050	9850	9650							4.0
	6450	6300	6150							
	63°	64°	65°							
5.0	8200	8200	8250	8300	8250	8150	8000	7900		5.0
	5600	5500	5400	5300	5200	5100	5050	4950		
	58°	59°	61°	62°	63°	63°	64°	65°		
6.0	6550	6600	6650	6700	6750	6750	6800	6800	6850	6.0
	4850	4800	4750	4650	4600	4550	4450	4400	4350	
	53°	55°	56°	57°	58°	60°	61°	61°	62°	
7.0	5400	5450	5500	5550	5550	5600	5650	5650	5700	7.0
	4250	4200	4150	4100	4050	4000	3950	3900	3850	
	48°	50°	52°	53°	54°	56°	57°	58°	59°	
8.0	4550	4600	4650	4650	4700	4750	4750	4800	4800	8.0
	3750	3700	3650	3600	3600	3550	3500	3500	3450	
	43°	45°	47°	48°	50°	51°	53°	54°	55°	
9.0	3900	3900	3950	4000	4050	4050	4100	4100	4150	9.0
	3350	3300	3250	3200	3200	3150	3150	3100	3100	
	36°	39°	41°	43°	45°	47°	48°	50°	51°	
10	3350	3400	3400	3450	3500	3500	3550	3550	3600	10
	2850	2900	2900	2900	2850	2850	2800	2800	2750	
	29°	32°	35°	38°	40°	42°	44°	45°	47°	
11	2900	2950	3000	3000	3050	3050	3100	3150	3150	11
	2450	2500	2550	2550	2600	2550	2550	2500	2500	
	19°	24°	28°	31°	34°	37°	39°	41°	42°	
12	2600	2550	2600	2650	2650	2700	2750	2750	2800	12
	2150	2150	2200	2250	2250	2300	2300	2300	2300	
	(11.8)	12°	19°	23°	27°	30°	33°	36°	37°	
13		2450	2350	2300	2350	2400	2400	2450	2450	13
		2050	1950	1950	2000	2000	2050	2050	2100	
		(12.3)	(12.8)	11°	18°	23°	27°	30°	32°	
14				2200	2100	2100	2150	2150	2200	14
				1850	1750	1750	1800	1800	1850	
				(13.3)	(13.8)	11°	18°	22°	25°	
15						2050	1950	1950	1950	15
						1700	1600	1600	1650	
						(14.3)	(14.8)	11°	16°	
15.71								1850	1800	15.71
								1550	1500	
								(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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TECHNICAL DESCRIPTION

MAC 25-3

Boom and Jib

     	Four section boom: 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

   	Winch: 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
	Transfer Case: Styer VG 750 2:1 ratio High/low range via airshift 2WD/4WD via airshift, disconnect to rear axle	



TECHNICAL DESCRIPTION

MAC 25-3

Hydraulic System

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

Chassis

	Drive axles:	
	Kessler D71 PL477 heavy duty high speed planetary axle	
	Front axle fitted with driver selectable diff lock and reinforced for pick and carry operation	
	Removable counterweight on front:	
	Front axle	11,900 kg
	Rear axle	12,000 kg
	Removable counterweight on rear:	
	Front axle	9,900 kg
	Rear axle	14,000 kg
	Total:	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
Brakes:		
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		
Suspension:		
Two semi-elliptic springs on front and rear axle with automatic hydraulic spring lockouts on front axle		

Tyres

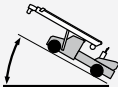
	14.00 x 20 bias ply duals
	20 in x 10 in heavy duty ISO 10 stud 335 PCD spigot mount rims



TECHNICAL DESCRIPTION

MAC 25-3

Vehicle performance

	Maximum rated travel speed	75 kph
	Gradeability	45%

Cab, Controls, and Operator aids

	Two person, insulated lock up cabin: KAB suspension driver's and passenger seats, including retracting seat belts Colour LCD display Radio/CD player with Bluetooth handsfree Reversing camera Centralised greasing Cruise control Engine monitoring Service diagnostics
	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



MAC 25-3



MAC 25-3

BRISBANE

585 Curtin Avenue East
Eagle Farm QLD 4009
AUSTRALIA

Ph: +61 7 3868 9600
Fax: +61 7 3268 2489

MELBOURNE

187 Osborne Avenue
Clayton South VIC 3169
AUSTRALIA

Ph: +61 3 9551 8644
Fax: +61 3 9551 8143

SYDNEY

114 Hassall Street
Wetherill Park NSW 2164
AUSTRALIA

Ph: +61 2 8786 4444
Fax: +61 2 8786 4455

PERTH

39 Catalano Road
Canning Vale WA 6155
AUSTRALIA

Ph: +61 8 9232 0000
Fax: +61 8 9232 0051

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Tel. +49 (0) 6332 830, Email: info.cranes@terex.com, www.terexcranes.com

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