

TEREX AC80/2 ALL TERRAIN CRANE

80 TON
BOOM 50M



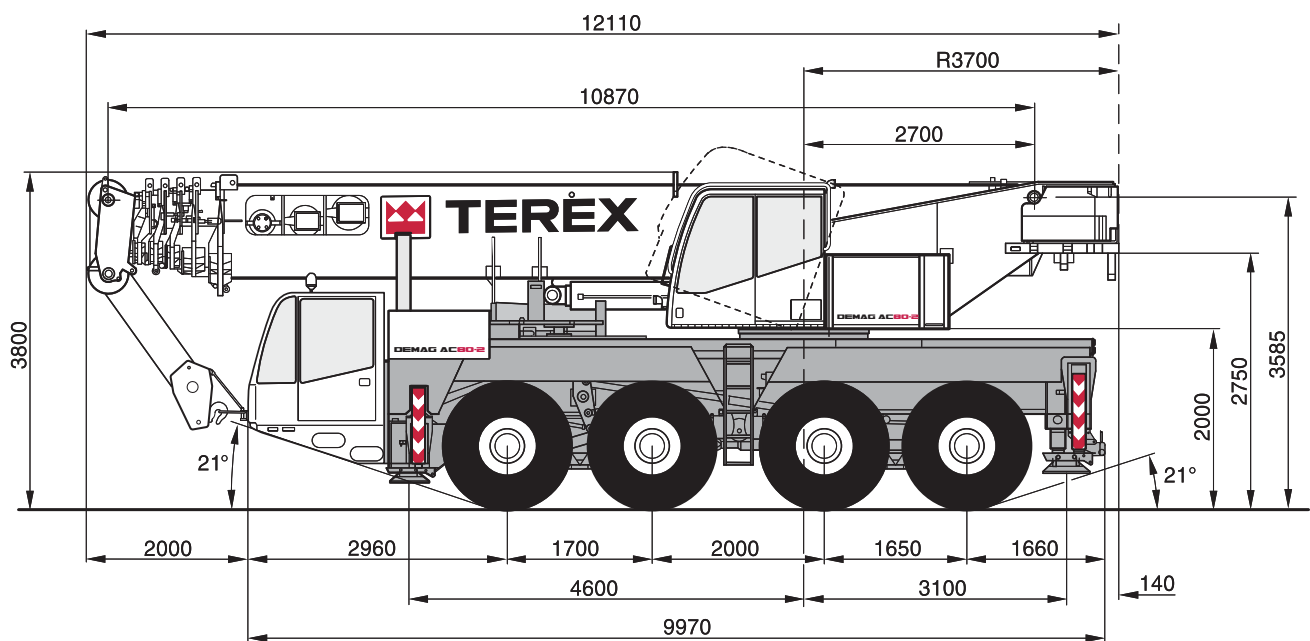
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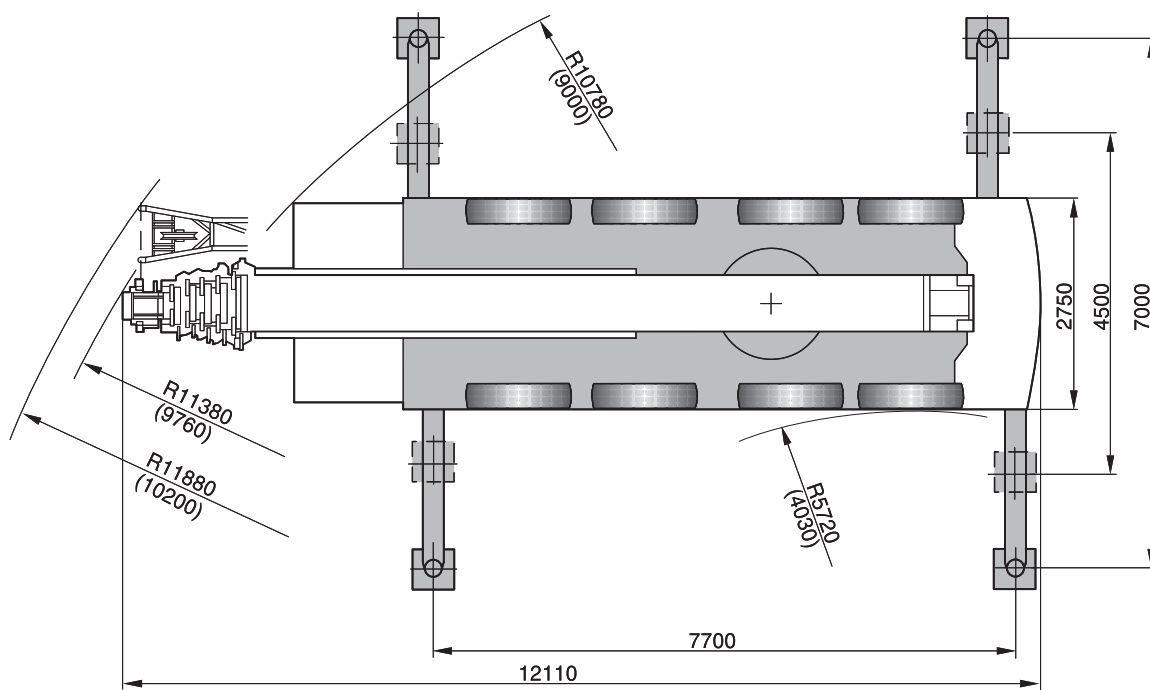
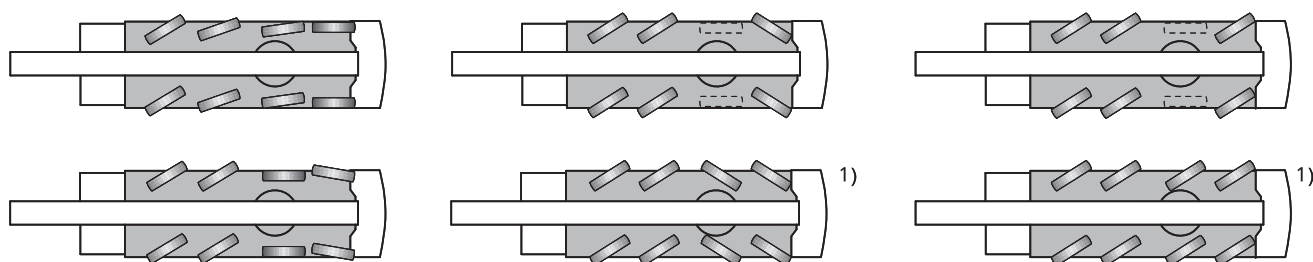
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DIMENSIONS



DIMENSIONS

1



- () with independent rear axle steering
- () mit unabhängiger Hinterachslenkung
- () avec direction indépendante de l'essieu arrière
- () con sterzo indipendente assi posteriori
- () con dirección independiente en ejes traseros

1) Option



SPECIFICATIONS

AXLE LOADS

Crane with main boom, hook block 3-sheaves, 8 t counterweight, tyres 14.00 R 25

Axles	4 x 12 000 kg
Total	48 000 kg

WORKING SPEEDS (INFINITELY VARIABLE)

Mechanisms	Normal speed	High speed	Max. permissible line pull ¹⁾	Rope diameter / Rope length
Hoist I	53 m/min	110 m/min	55 kN	18 mm / 210 m
Hoist II	53 m/min	110 m/min	55 kN	18 mm / 210 m
Slewing				max. 1,3 ¹⁾ /min
Telescoping speed				10,9 – 50 m: 110 s
Boom elevation				–1,8° – +81,5°: 63 s

CARRIER PERFORMANCE

Travel speed	
Forward	0 . . 80 km/h
Reverse	0 . . 11 km/h
Gradeability in travel order	max. 50 %
Ground clearance	370 mm

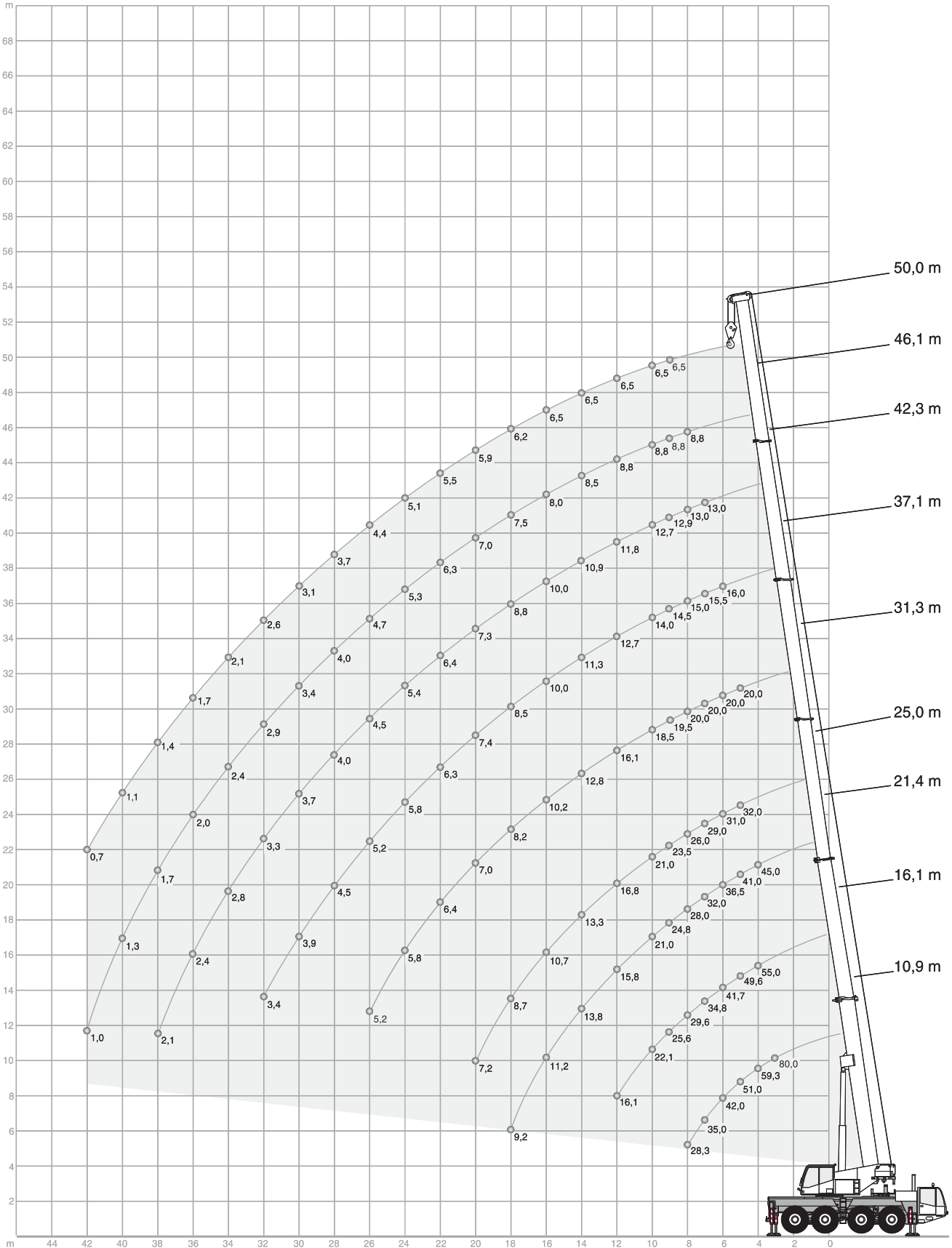
HOOK BLOCK / SINGLE LINE HOOK

Type	Possible load ¹⁾	Number of sheaves	Weight	„D“	Number of lines	Heavy-lift attachment
100	77,0 t	7	750 kg	2,00 m	14	2 add. sheaves
80	60,5 t	5	650 kg	2,00 m	11	2 add. sheaves
50	38,5 t	3	550 kg	1,80 m	7	
20	16,5 t	1	350 kg	1,80 m	3	
6,3	5,5 t	Single line hook /	170 kg	1,70 m	1	

Remarks

¹⁾ varies depending on national regulations

HA



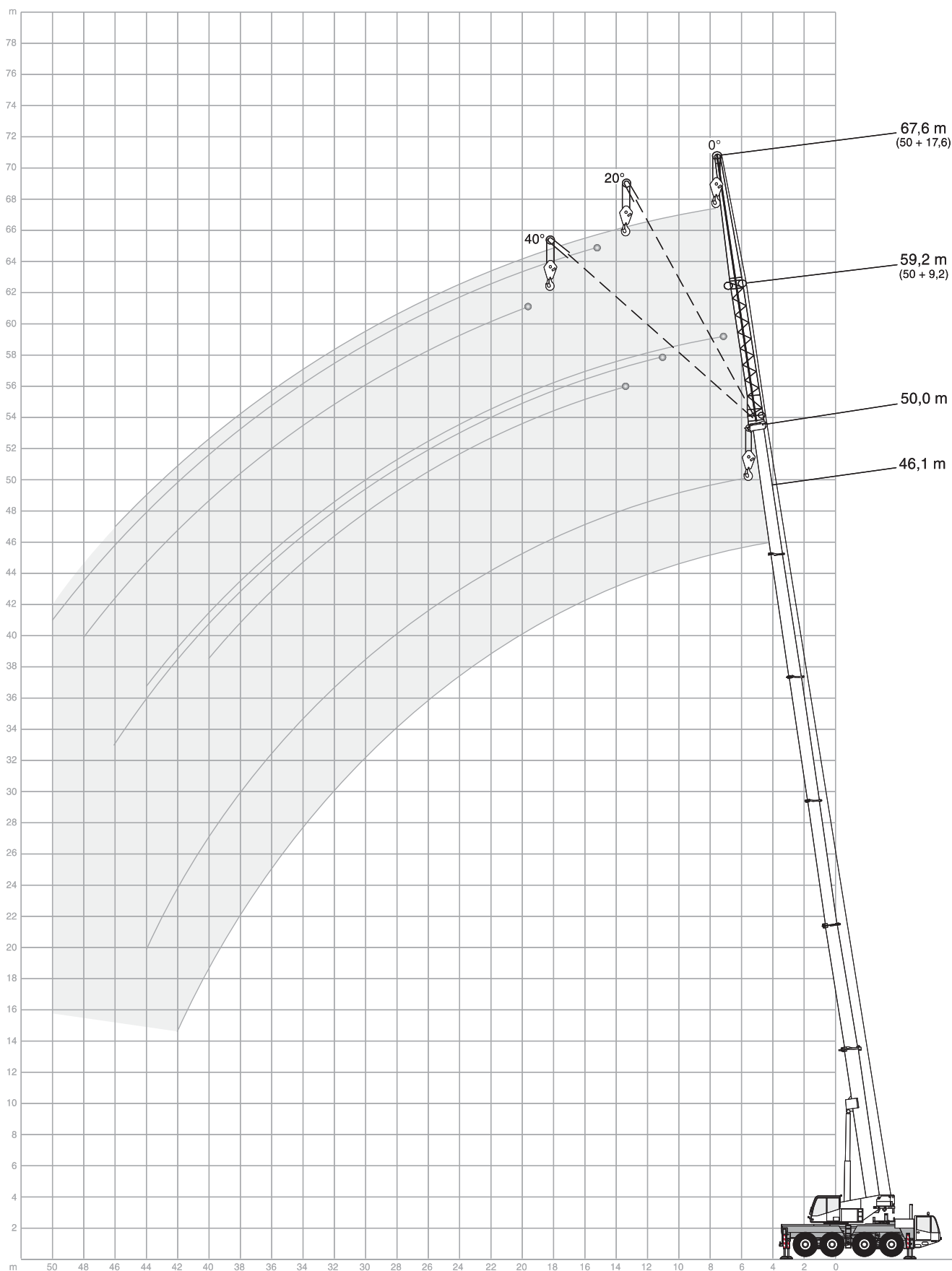
HA

18 t		 7,70 m x 7,00 m		360°		 ISO							
		10,9 m	16,1 m	21,4 m	25,0 m	31,3 m	37,1 m	42,3 m	46,1 m	50,0 m	10,9 m	16,1 m	
m	t	t	t	t	t	t	t	t	t	t	t	t	m
3	80,0*	-	-	-	-	-	-	-	-	-	-	-	3
3	70,0	-	-	-	-	-	-	-	-	-	-	-	3
3,5	64,4	55,0	-	-	-	-	-	-	-	-	-	-	3,5
4	59,3	55,0	45,0	-	-	-	-	-	-	-	12,3	12,0	4
4,5	54,9	52,9	43,0	32,0	-	-	-	-	-	-	11,0	10,7	4,5
5	51,0	49,6	41,0	32,0	20,0	-	-	-	-	-	9,9	9,6	5
6	42,0	41,7	36,5	31,0	20,0	16,0	-	-	-	-	8,1	7,8	6
7	35,0	34,8	32,0	29,0	20,0	15,5	13,0	-	-	-	6,6	6,4	7
8	28,3	29,6	28,0	26,0	20,0	15,0	13,0	8,8	-	-	5,5	5,2	8
9	-	25,6	24,8	23,5	19,5	14,5	12,9	8,8	6,5	-	-	4,2	9
10	-	22,1	21,0	21,0	18,5	14,0	12,7	8,8	6,5	-	-	3,4	10
12	-	16,1	15,8	16,8	16,1	12,7	11,8	8,8	6,5	-	-	2,1	12
14	-	-	13,8	13,3	12,8	11,3	10,9	8,5	6,5	-	-	-	14
16	-	-	11,2	10,7	10,2	10,0	10,0	8,0	6,5	-	-	-	16
18	-	-	9,2	8,7	8,2	8,5	8,8	7,5	6,2	-	-	-	18
20	-	-	-	7,2	7,0	7,4	7,3	7,0	5,9	-	-	-	20
22	-	-	-	-	6,4	6,3	6,4	6,3	5,5	-	-	-	22
24	-	-	-	-	5,8	5,8	5,4	5,3	5,1	-	-	-	24
26	-	-	-	-	5,2	5,2	4,5	4,7	4,4	-	-	-	26
28	-	-	-	-	-	4,5	4,0	4,0	3,7	-	-	-	28
30	-	-	-	-	-	3,9	3,7	3,4	3,1	-	-	-	30
32	-	-	-	-	-	3,4	3,3	2,9	2,6	-	-	-	32
34	-	-	-	-	-	-	2,8	2,4	2,1	-	-	-	34
36	-	-	-	-	-	-	2,4	2,0	1,7	-	-	-	36
38	-	-	-	-	-	-	2,1	1,7	1,4	-	-	-	38
40	-	-	-	-	-	-	-	1,3	1,1	-	-	-	40
42	-	-	-	-	-	-	-	1,0	0,7	-	-	-	42

8 t		 7,70 m x 7,00 m		360°		 ISO							
		10,9 m	16,1 m	21,4 m	25,0 m	31,3 m	37,1 m	42,3 m	46,1 m	50,0 m	10,9 m	16,1 m	
m	t	t	t	t	t	t	t	t	t	t	t	t	m
3	80,0*	-	-	-	-	-	-	-	-	-	-	-	3
3	70,0	-	-	-	-	-	-	-	-	-	-	-	3
3,5	64,1	55,0	-	-	-	-	-	-	-	-	-	-	3,5
4	59,0	55,0	45,0	-	-	-	-	-	-	-	11,7	11,4	4
4,5	52,9	52,6	43,0	32,0	-	-	-	-	-	-	10,4	10,2	4,5
5	46,7	46,4	41,0	32,0	20,0	-	-	-	-	-	9,4	9,1	5
6	37,6	37,3	34,9	31,0	20,0	16,0	-	-	-	-	7,6	7,4	6
7	31,3	31,0	27,4	25,7	20,0	15,5	13,0	-	-	-	6,2	6,0	7
8	24,2	23,7	22,3	21,0	20,0	15,0	13,0	8,8	-	-	5,1	4,8	8
9	-	18,9	18,0	19,0	18,1	14,5	12,9	8,8	6,5	-	-	3,9	9
10	-	15,5	17,3	16,8	15,5	14,0	12,7	8,8	6,5	-	-	3,1	10
12	-	11,0	12,7	12,1	11,5	11,5	11,1	8,8	6,5	-	-	1,9	12
14	-	-	9,6	9,0	9,3	9,3	9,0	8,5	6,5	-	-	-	14
16	-	-	7,5	7,0	8,1	8,1	7,4	7,1	6,5	-	-	-	16
18	-	-	6,0	5,4	6,5	6,5	5,9	6,1	5,6	-	-	-	18
20	-	-	-	4,2	5,4	5,3	5,1	4,8	4,5	-	-	-	20
22	-	-	-	-	4,4	4,4	4,3	3,9	3,6	-	-	-	22
24	-	-	-	-	3,6	3,6	3,5	3,1	2,8	-	-	-	24
26	-	-	-	-	3,0	2,9	2,9	2,4	2,1	-	-	-	26
28	-	-	-	-	-	2,4	2,3	1,9	1,6	-	-	-	28
30	-	-	-	-	-	1,9	1,9	1,4	1,2	-	-	-	30
32	-	-	-	-	-	1,6	1,5	1,1	0,8	-	-	-	32
34	-	-	-	-	-	-	1,2	0,7	-	-	-	-	34
36	-	-	-	-	-	-	0,9	-	-	-	-	-	36
38	-	-	-	-	-	-	0,6	-	-	-	-	-	38

* over rear

HAV



HAV

18 t 7,70 m x 7,00 m 360° ISO

46,1 m							
		9,2 m			17,6 m		
		0°	20°	40°	0°	20°	40°
m		t	t	t	t	t	t
10		3,9	-	-	-	-	-
12		3,9	-	-	1,7	-	-
14		3,9	3,4	-	1,7	-	-
16		3,9	3,4	3,0	1,7	-	-
18		3,9	3,3	3,0	1,7	1,4	-
20		3,7	3,2	2,9	1,6	1,4	-
22		3,5	3,1	2,8	1,5	1,4	-
24		3,3	2,9	2,7	1,5	1,4	1,2
26		3,1	2,8	2,6	1,4	1,4	1,1
28		3,0	2,6	2,5	1,4	1,4	1,1
30		2,8	2,5	2,4	1,3	1,3	1,1
32		2,7	2,4	2,3	1,3	1,2	1,1
34		2,4	2,3	2,2	1,2	1,1	1,1
36		2,0	2,2	2,1	1,2	1,1	1,1
38		1,6	1,8	1,9	1,1	1,1	1,0
40		1,3	1,5	1,6	1,1	1,1	1,0
42		1,0	1,2	-	1,1	1,1	1,0
44		0,8	0,9	-	1,0	1,1	1,0
46		-	0,6	-	0,8	1,1	1,0
48		-	-	-	0,6	0,8	1,0
50		-	-	-	-	0,6	-

8 t 7,70 m x 7,00 m 360° ISO

46,1 m							
		9,2 m			17,6 m		
		0°	20°	40°	0°	20°	40°
m		t	t	t	t	t	t
10		3,9	-	-	-	-	-
12		3,9	-	-	1,7	-	-
14		3,9	3,4	-	1,7	-	-
16		3,9	3,4	3,0	1,7	-	-
18		3,9	3,3	3,0	1,7	1,4	-
20		3,7	3,2	2,9	1,6	1,4	-
22		3,5	3,1	2,8	1,5	1,4	-
24		3,1	2,9	2,7	1,5	1,4	1,2
26		2,4	2,8	2,6	1,4	1,4	1,1
28		1,9	2,3	2,5	1,4	1,4	1,1
30		1,4	1,8	2,0	1,3	1,3	1,1
32		1,0	1,3	1,5	1,3	1,2	1,1
34		0,7	1,0	1,1	1,0	1,1	1,1
36		-	0,6	0,8	0,7	1,1	1,1
38		-	-	-	-	0,8	1,0
40		-	-	-	-	0,6	0,9
42		-	-	-	-	-	0,6
44		-	-	-	-	-	-
46		-	-	-	-	-	-
48		-	-	-	-	-	-
50		-	-	-	-	-	-

50,0 m

		9,2 m			17,6 m		
		0°	20°	40°	0°	20°	40°
m		t	t	t	t	t	t
12		3,0	-	-	-	-	-
14		3,0	3,0	-	1,2	-	-
16		3,0	3,0	2,7	1,2	-	-
18		3,0	2,9	2,7	1,2	-	-
20		2,9	2,8	2,6	1,2	1,1	-
22		2,8	2,7	2,5	1,1	1,1	-
24		2,6	2,5	2,3	1,1	1,1	1,0
26		2,5	2,4	2,2	1,0	1,1	1,0
28		2,3	2,2	2,1	1,0	1,0	1,0
30		2,2	2,1	2,0	1,0	1,0	1,0
32		2,1	2,0	1,9	1,0	1,0	1,0
34		2,0	1,9	1,9	0,9	1,0	1,0
36		1,9	1,8	1,8	0,9	0,9	0,9
38		1,5	1,8	1,8	0,9	0,9	0,9
40		1,2	1,4	1,6	0,8	0,9	0,9
42		0,9	1,1	-	0,8	0,9	0,9
44		0,7	0,9	-	0,7	0,8	0,9
46		-	0,6	-	0,7	0,8	0,8
48		-	-	-	-	0,8	0,8
50		-	-	-	-	0,6	-
52		-	-	-	-	-	-

50,0 m

		9,2 m			17,6 m		
		0°	20°	40°	0°	20°	40°
m		t	t	t	t	t	t
12		3,0	-	-	-	-	-
14		3,0	3,0	-	1,2	-	-
16		3,0	3,0	2,7	1,2	-	-
18		3,0	2,9	2,7	1,2	-	-
20		2,9	2,8	2,6	1,2	1,1	-
22		2,8	2,7	2,5	1,1	1,1	-
24		2,6	2,5	2,3	1,1	1,1	1,0
26		2,4	2,4	2,2	1,0	1,1	1,0
28		1,8	2,2	2,1	1,0	1,0	1,0
30		1,4	1,7	2,0	1,0	1,0	1,0
32		1,0	1,3	1,5	1,0	1,0	1,0
34		0,6	0,9	1,1	0,9	1,0	1,0
36		-	0,6	0,8	0,6	0,9	0,9
38		-	-	-	-	0,8	0,9
40		-	-	-	-	-	0,8
42		-	-	-	-	-	-
44		-	-	-	-	-	-
46		-	-	-	-	-	-
48		-	-	-	-	-	-
50		-	-	-	-	-	-
52		-	-	-	-	-	-

3

HAV

5 t 7,70 m x 7,00 m 360° ISO

46,1 m							
		9,2 m			17,6 m		
		0°	20°	40°	0°	20°	40°
m	t	t	t	t	t	t	t
10	3,9	-	-	-	-	-	-
12	3,9	-	-	-	1,7	-	-
14	3,9	3,4	-	-	1,7	-	-
16	3,9	3,4	3,0	-	1,7	-	-
18	3,9	3,3	3,0	-	1,7	1,4	-
20	3,7	3,2	2,9	-	1,6	1,4	-
22	3,1	3,1	2,8	-	1,5	1,4	-
24	2,3	2,8	2,7	-	1,5	1,4	1,2
26	1,8	2,2	2,5	-	1,4	1,4	1,1
28	1,3	1,7	1,9	-	1,4	1,4	1,1
30	0,8	1,2	1,4	-	1,1	1,3	1,1
32	-	0,8	1,0	-	0,8	1,2	1,1
34	-	-	0,6	-	-	1,0	1,1
36	-	-	-	-	-	0,7	1,1
38	-	-	-	-	-	-	0,8

50,0 m							
		9,2 m			17,6 m		
		0°	20°	40°	0°	20°	40°
m	t	t	t	t	t	t	t
12	3,0	-	-	-	-	-	-
14	3,0	3,0	-	-	1,2	-	-
16	3,0	3,0	2,7	-	1,2	-	-
18	3,0	2,9	2,7	-	1,2	-	-
20	2,9	2,8	2,6	-	1,2	1,1	-
22	2,8	2,7	2,5	-	1,1	1,1	-
24	2,2	2,5	2,3	-	1,1	1,1	1,0
26	1,7	2,1	2,2	-	1,0	1,1	1,0
28	1,2	1,6	1,9	-	1,0	1,0	1,0
30	0,8	1,2	1,4	-	1,0	1,0	1,0
32	-	0,8	1,0	-	0,6	1,0	1,0
34	-	-	0,6	-	-	0,9	1,0
36	-	-	-	-	-	0,6	0,9
38	-	-	-	-	-	-	0,7
40	-	-	-	-	-	-	-



TECHNICAL DESCRIPTION

CARRIER

Drive / Steering	8 x 6 x 6.
Frame	Monobox main frame with outrigger boxes integral, of high-strength fine-grain structural steel.
Outriggers	Four hydraulically telescoping outrigger beams with hydraulic jack legs.
Engine	Water-cooled 6 cylinder DaimlerChrysler engine OM 501 LA, output to DIN: 315 kW (428 hp) at 1800 ¹ /min, max. torque 2000 Nm at 1300 ¹ /min, certified in compliance with EURO MOT 3a, Tier 3 and CARB, stainless steel exhaust system with spark arrestor. Tank capacity: 400 l.
Transmission	Allison automatic transmission, transfer case with off-road range.
Axles	1st: steering. 2nd: steering. 3rd: rigid, non-steering, 4th: steering. Axles 1, 2 and 4 with planetary hubs. Differential lock-out control on 2nd axle: longitudinal and transverse. 1st and 4th axle: transverse.
Suspension	Hydropneumatic suspension, all axles hydraulically blockable.
Wheels and tyres	8 x 14.00 R 25 on 11.25-25 rims; tubeless road-tread tyres, all axles single-wheeled.
Steering	Dual-circuit semiblock mechanical steering with hydraulic booster.
Brakes	Service brake: dual-line air system with ABS, acting on all wheels. Parking brake: spring-loaded type. Sustained action brake: engine exhaust brake and constant decompression valve, automatic downhill brake control.
Travel speed	80 km/h, brake control.
Electrical equipment	24 V.
2-man driver's cab	Rubber-mounted steel cab with safety glass, carrier controls, air-sprung and heated driver's and passenger seat with integrated seat belts, height and tilt adjustable steering wheel, electric window winders, electrically adjustable and heated outside mirrors, cruise control, radio with CD-player, rotary beacon, air-conditioning.

SUPERSTRUCTURE

Hydraulic system	Driven off carrier engine at low revs, 1 variable-displacement axial piston pump and separate fixed-displacement pump for 4 simultaneous, independent working movements.
Hoist	Fixed-displacement axial-piston motor, hoist drum with planetary reduction integral and spring-applied holding brake.
Slew unit	Hydraulic motor with planetary reduction, foot-pedal brake and spring-applied holding brake.
Derricking unit	1 differential cylinder with pilot-controlled lowering brake valve.
Crane cab	Spacious all-steel comfortable cab with sliding door and large hinged windscreen, roof window with armoured glass, controls and instrumentation for all crane movements, working lights, self-contained hot water heater with timer, thermostat-controlled, windscreen washer and wiper with intermittent control, cab tiltable up to 18°, radio with CD-player, air-conditioning.
Main boom	Boom base and 5 telescopic sections of fine-grain structural steel, telescoping with partial load, buckling-resistant Demag ovaloid design.
Counterweight	8 t in sections of 5.1 t, 1.7 t and 1.2 t (6.8 t fitted on superstructure, 1.2 t hydraulically stowed on carrier deck).
Top steer facility	Included as standard.
Safety devices	Electronic safe load indicator with digital read-out for hook load, rated load, boom length, boom angle, load radius, analog display to indicate the capacity utilization. Limit switches on hoist and lowering motions, pressure-relief and safety holding valves.
Hydraulic servo control	Hydraulic pilot control through self-centering control levers.

OPTIONAL EQUIPMENT

Drive / Steering	8 x 8 x 8.
Tyres	Optional 16.00 R 25, 17.5 R 25 or 20.5 R 25.
Telma brake	
Trailer coupling	For central axle trailers with max. 24 t total weight and ABS air hookup: D = 190; D _C = 155; V = 75.
Hoist II	Fixed displacement axial-piston motor, hoist drum with planetary reduction integral and spring-applied holding brake. Hoist II avoids re-reeving of hoist line when using the optional jib.
Main boom extension	1- or 2-part folding jib, 9.2 m or 17.6 m. 0°, 20° and 40° offset.
Additional counterweight	10 t, integrated into standard counterweight, installed hydraulically by the crane itself.
Heavy-lift attachment	Additional sheaves on boom head for duties over 60 t.
Heavy-lift runner	1.20 m long, 1-sheave.
Centralized lubrication carrier	
Stowing point for hook block	For 1 sheave and 3-sheaves hook blocks or for 5-sheaves hook block, for single line hook block.
Tackle box on the rear of the carrier	

OVERVIEW OF STANDARD DUTY CHARTS

7,70 m x 7,00 m

7,70 m x 4,50 m

Main boom · Hauptausleger · Flèche principale · Braccio base · Pluma principal

		5 t	8 t	18 t
10,9 m		X	X	X
16,1 m		X	X	X
21,4 m		X	X	X
25,0 m		X	X	X
31,2 m		X	X	X
37,1 m		X	X	X
42,3 m		X	X	X
46,1 m		X	X	X
50,0 m		X	X	X

		5 t	8 t	18 t
10,9 m		X	X	X
16,1 m		X	X	X
21,4 m		X	X	X
25,0 m		X	X	X
31,2 m		X	X	X
37,1 m		X	X	X
42,3 m		X	X	X
46,1 m		X	X	X
50,0 m		X	X	X

Main boom extension · Hauptauslegerverlängerung · Rallonge de flèche · Prolunga · Plumín, extension de pluma

	 0° / 20° / 40°			
		5 t	8 t	18 t
46,1 m	9,2 m	X	X	X
	17,6 m	X	X	X
50,0 m	9,2 m	X	X	X
	17,6 m	X	X	X

	 0° / 20° / 40°			
		5 t	8 t	18 t
46,1 m	9,2 m	—	X	X
	17,6 m	—	X	X
50,0 m	9,2 m	—	X	X
	17,6 m	—	X	X



NOTES TO LIFTING CAPACITY

Ratings are in compliance with ISO 4305.

Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.

Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

DISCLAIMER

Effective Date: september 2008.

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