



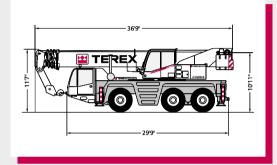


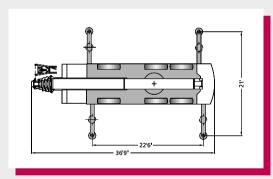


AC 50-1

- ▶ 131.2 ft main boom gives exceptional lifting capacity
- Roadable with 16,500 lb counterweight + 30.2 ft main boom extension, giving just 26,500 lb axle load
- Fully hydraulic boom system provides shortest telescoping times and enormous load telescoping capacity
- ► ABS, cruise control and automated transmission are standard features
- State-of-the-art super-soundproofed DaimlerChrysler engine technology type OM 926 LA
- 8.4 ft overall width with 14" and 16" tires







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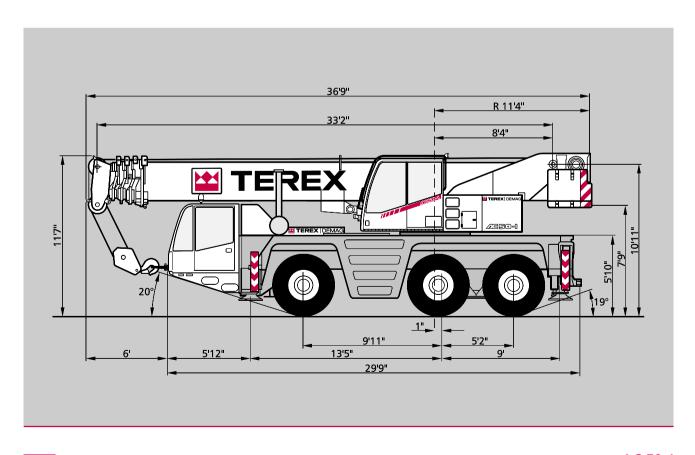


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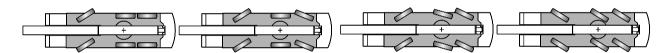
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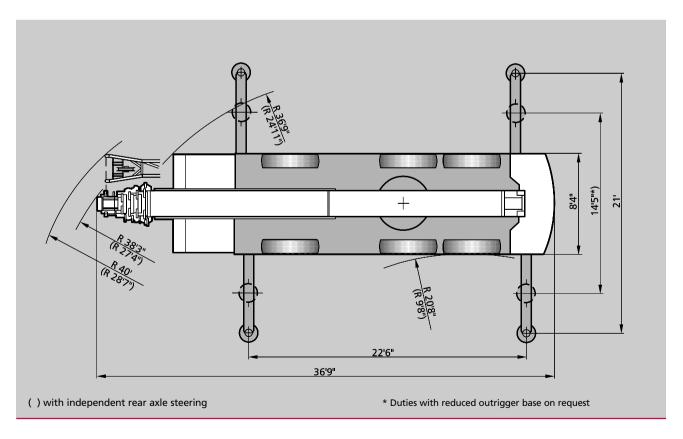


Dimensions











Notes to lifting capacity

Ratings are in compliance with ISO 4305 and DIN 15019.2 (test load = 1.25 x suspended load + 0.1 x dead weight of boom head). 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.



Specifications

Axle loads

Crane with main boom, 30.2 ft main boom extension, 16,500 lb counterweight, tires 14.00 R 25, single line hook Total

3 x 26,500 lb 79,500 lb

Working speeds (infinitely variable)

Mechanisms	Normal speed	High speed	Max. permissible line pull 1)	Rope length
Hoist I	196.9 ft /min	410 ft /min	9,500 lb	591 ft
Hoist II	196.9 ft /min	410 ft / min	9,500 lb	591 ft
Slewing				max. 0 – 1.7 ¹ /min
Telescoping speed				33.1 – 131.2 ft: 95 s
Boom elevation				–1,5° – +81,5°: 45 s

Carrier performance

Travel speed: Forward Reverse

Gradeability in travel order Ground clearance

0 . . 50 mph 0 . . 7.5 mph max. 45 %

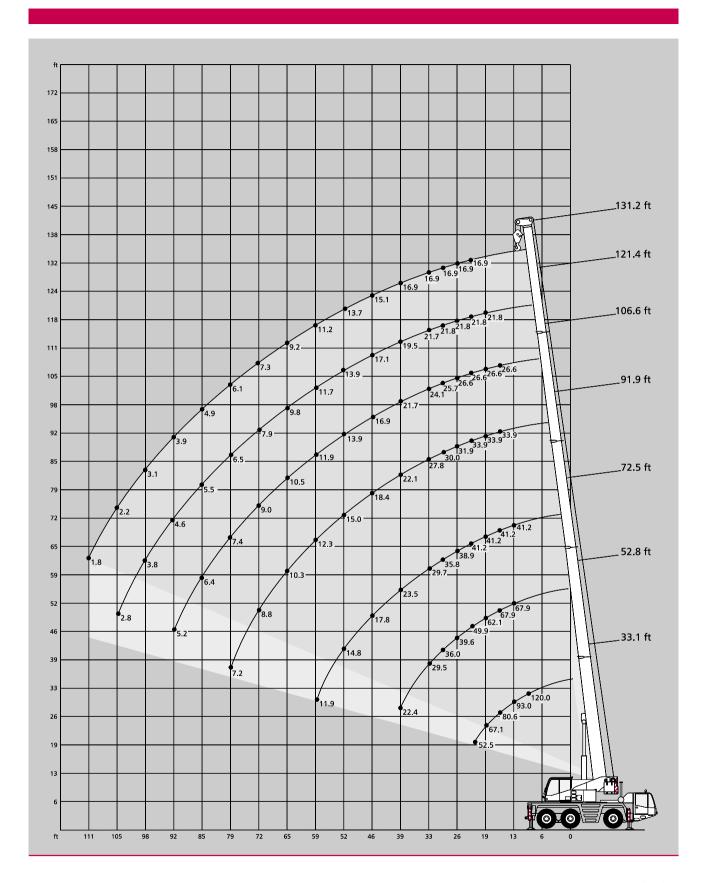
Hook block / Single line hook

Туре	Possible load ¹⁾	Number of sheaves	Weight	"D"	max. reeving	Heavy-lift attachment
63	110,000 lb	6	1,058 lb	6.6 ft	12	2 add. sheaves
32	66,400 lb	3	815 lb	5.9 ft	7	
16	28,400 lb	1	551 lb	5.9 ft	3	
5	9.500 lb	Single line hook	287 lb	2.6 ft	1	

¹⁾ varies depending on national regulations



Working ranges main boom



Lifting capacities main boom

20,900 lb				22	2.6 x 21.0	ft 3	60°				85%
,				N	lain boom					1)	
Radius	ft	33.1	52.8	72.5	91.9	106.6	121.4	131.2	33.1	52.8	Radius
ft					1,000 lb				1,0	00 lb	ft
10		120.0*	-	-	-	-	-	-	-	-	10
10		109.9	-	-	-	-	-	-	33.6	-	10
11		103.6	67.9	-	-	-	-	-	31.6	32.8	11
13		93.0	67.9	41.2	-	-	-	-	27.9	29.3	13
15		84.4	67.9	41.2	33.9	-	-	-	25.0	26.3	15
16		80.6	67.9	41.2	33.9	26.6	-	-	23.5	25.0	16
19		67.1	62.1	41.2	33.9	26.6	21.8	-	18.5	20.1	19
23		52.5	49.9	41.2	33.9	26.6	21.8	16.9	13.6	14.9	23
26		-	39.6	38.9	31.9	26.6	21.8	16.9	-	12.3	26
29		-	36.0	35.8	30.0	25.7	21.8	16.9	-	10.4	29
33		-	29.5	29.7	27.8	24.1	21.7	16.9	-	8.3	33
39		-	22.4	23.5	22.1	21.7	19.5	16.9	-	6.2	39
46		-	-	17.8	18.4	16.9	17.1	15.1	-	-	46
52		-	-	14.8	15.0	13.9	13.9	13.7	-	-	52
59		-	-	11.9	12.3	11.9	11.7	11.2	-	-	59
65		-	-	-	10.3	10.5	9.8	9.2	-	-	65
72		-	-	-	8.8	9.0	7.9	7.3	-	-	72
79		-	-	-	7.2	7.4	6.5	6.1	-	-	79
85		-	-	-	-	6.4	5.5	4.9	-	-	85
92		-	-	-	-	5.2	4.6	3.9	-	-	92
98		-	-	-	-	-	3.8	3.1	-	-	98
105		-	-	-	-	-	2.8	2.2	-	-	105
111		-	-	-	-	-	-	1.8	-	-	111

16,500 lb				22	2.6 x 21.0	ft 3	60°				85%
•				N	lain boom					1)	
Radius	ft	33.1	52.8	72.5	91.9	106.6	121.4	131.2	33.1		Radius
ft					1,000 lb					1,000 lb	ft
10		120.0*	-	-	-	-	-	-	-	-	10
10		109.9	-	-	-	-	-	-	33.6		10
11		103.5	67.9	-	-	-	-	-	31.6		11
13		93.0	67.9	41.2	-	-	-	-	27.9		13
15		83.8	67.9	41.2	33.9	-	-	-	23.3		15
16		78.7	67.9	41.2	33.9	26.6	-	-	21.1		16
19		65.0	61.7	41.2	33.9	26.6	21.8	-	16.2		19
23		47.4	45.0	41.2	33.9	26.6	21.8	16.9	11.8		23
26		-	35.6	38.9	31.9	26.6	21.8	16.9	-	10.7	26
29		-	33.2	32.8	30.0	25.7	21.8	16.9	-	9.1	29
33		-	26.6	27.7	26.4	24.1	21.7	16.9	-	7.2	33
39		-	20.2	21.3	21.3	20.0	19.5	16.9	-	5.1	39
46		-	-	16.0	16.5	15.1	15.1	15.1	-	-	46
52		-	-	13.0	13.6	13.5	12.7	11.9	-	-	52 59
59		-	-	10.3	11.0	11.0	10.1	9.2	-	-	59
65		-	-	-	9.2	9.2	8.3	7.4	-	-	65
72		-	-	-	7.5	7.5	6.8	5.7	-	-	72
79		-	-	-	6.3	6.3	5.2	4.5	-	-	79
85		-	-	-	-	5.3	4.4	3.7	-	-	85
92		-	-	-	-	4.3	3.2	2.8	-	-	92 98
98		-	-	-	-	-	2.6	2.0	-	-	
105		-	-	-	-	-	1.9	-	-	-	105
111		-	-	-	-	-	-	-	-	-	111

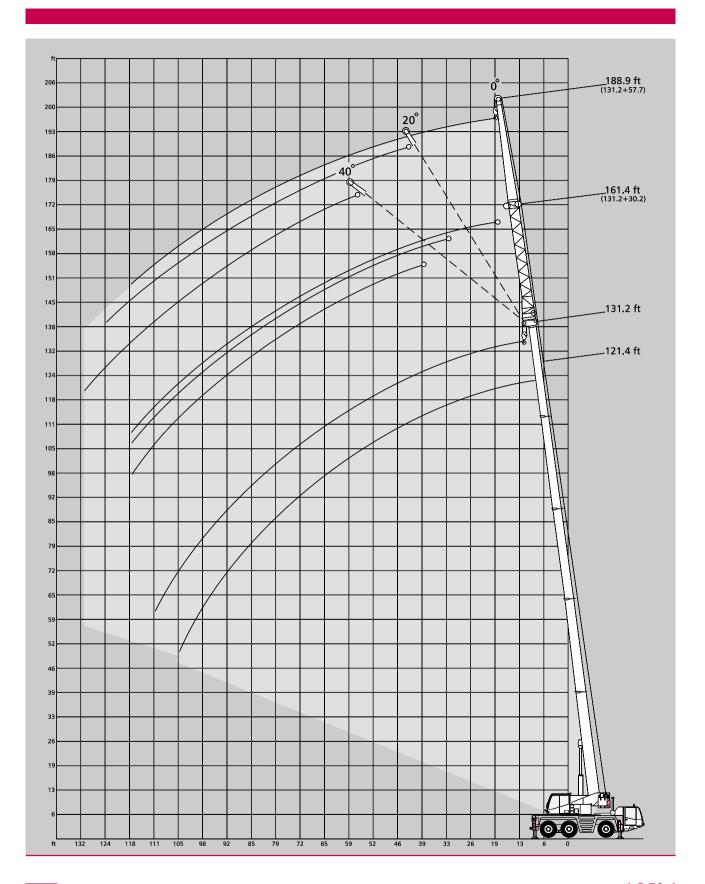
Remarks

* over rear

¹⁾ free on wheels, 0° over rear



Working ranges main boom extension



Lifting capacities main boom extension

20,900 lb 22.6 x 21.0 ft 360° 85% 16,500 lb 22.6 x 21.0 ft 360° 85% 121.4 ft Main boom 121.4 ft Main boom Extension Extension Radius 30.2 ft 57.7 ft Radius 57.7 ft 20° 40° 0° 20° 40° 0° 20° 40° 0° 20° 40° 1,000 lb 1,000 lb ft 1,000 lb 1,000 lb ft 9.9 9.9 26 26 29 9.9 29 9.9 33 9.9 4.4 33 9.9 39 9.9 9.0 4.4 39 9.9 9.0 4.4 46 7.7 7.7 46 9.6 9.6 8.5 4.4 8.5 4.4 52 9.4 8.1 7.5 4.4 4.4 52 9.4 7.5 4.4 4.4 59 9.0 7.7 7.2 4.4 4.1 59 9.0 7.7 4.4 4.1 65 8.6 7.5 7.0 4.4 3.9 65 8.0 7.5 7.0 4.4 3.9 72 3.7 3.7 7.5 7.0 6.8 4.1 3.9 72 6.6 7.0 6.8 4.1 3.9 79 3.7 6.3 6.7 6.8 4.1 3.7 3.7 79 5.0 4.1 3.7 85 5.1 5.7 6.2 3.9 3.7 3.3 85 4.2 4.8 3.7 3.3 92 4.1 4.6 5.0 3.7 3.3 3.3 92 3.0 3.9 4.1 3.7 3.3 3.3 98 3.3 4.0 3.1 98 2.4 2.9 2.9 3.3 3.1 42 3.7 3.3 3.3 105 105 2.6 2.8 3.0 2.8 3.0 3.0 1.9 2.2 2.4 2.2 3.0 3.0 111 2.0 2.4 2.4 3.0 2.8 111 2.4 2.8 118 1.5 1.9 2.4 2.8 118 1.9 2.4 2.0 2.4 124 1.5 1.8 124 131 1.5 1.7 131 138 138

	131.2	ft	Main	boom
--	-------	----	------	------

Radius	3	30.2 ft		Extension	57.	7 ft		
	0°	20°	40°		0°	20°	40°	
ft	1	,000 lb)		1,00	0 lb		
29	7.4	-	-	-	-	-	-	
33	7.4	-	-	3.5*	2.6	-	-	
39	7.4	7.4	-	3.5*	2.6	-	-	
46	7.4	7.4	-	3.5*	2.6	-	-	
52	7.4	7.2	7.0	3.5*	2.6	2.6	-	
59	7.4	7.0	6.8	3.5*	2.6	2.6	-	
65	7.4	6.6	6.4	3.5*	2.6	2.6	-	
72	7.2	6.3	6.1	3.5*	2.6	2.6	2.6	
79	6.1	6.1	5.7	3.5*	2.6	2.6	2.6	
85	5.1	5.5	5.5	3.5*	2.6	2.6	2.6	
92	4.1	4.6	5.0	3.5*	2.6	2.6	2.6	
98	3.1	3.8	4.2	3.3*	2.6	2.6	2.6	
105	2.4	2.8	3.0	2.6*	2.6	2.6	2.6	
111	1.8	2.2	2.4	2.2*	2.2	2.6	2.6	
118	-	1.5	1.9	1.7*	1.7	2.4	2.6	
124	-	-	-	-	-	2.0	2.4	
131	_	-	_	-	_	1.5	1.7	

131.2 ft Main boom

Radius	3	30.2 ft		Extension	57.	7 ft	
•	0°	20°	40°	0°*	0°	20°	40°
ft	1,	000 lb			1,000) lb	
29	7.4	-	-	-	-	-	-
33	7.4	-	-	3.5*	2.6	-	-
39	7.4	7.4	-	3.5*	2.6	-	-
46	7.4	7.4	-	3.5*	2.6	-	-
52	7.4	7.2	7.0	3.5*	2.6	2.6	-
59	7.4	7.0	6.8	3.5*	2.6	2.6	-
65	7.4	6.6	6.4	3.5*	2.6	2.6	-
72	6.4	6.3	6.1	3.5*	2.6	2.6	2.6
79	5.0	5.6	5.7	3.5*	2.6	2.6	2.6
85	4.2	4.6	5.1	3.5*	2.6	2.6	2.6
92	3.0	3.7	4.1	3.2*	2.6	2.6	2.6
98	2.4	2.9	3.1	2.6*	2.6	2.6	2.6
105	1.7	2.2	2.4	1.9*	2.2	2.6	2.6
111	-	1.8	1.8	1.5*	1.5	2.4	2.6
118	-	-	-	-	-	1.7	2.4
124	-	-	-	-	-	-	1.8
131	-	-	-	-	-	-	-

Remarks

^{*} Special length: main boom 126.0 ft



Technical description

Carrier

Drive / steering 6 x 4 x 2.

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 DaimlerChrysler OM 926 LA, water-cooled 6-cylinder engine, output to DIN: 240 kW (326 hp), max. torque

1300 Nm at 1200-1500 ¹/min. Fuel tank capacity: 87 gallons.

Transmission Automated powershift transmission with torque-converter and integral transfer case, 6 speeds forward

and 2 reverse, longitudinal differential lockout control.

Axles Axle 1: with planetary hubs, steer, transverse differential lockout control; axle 2: non-drive, non-steer;

axle 3: with planetary hubs, non-steer, transverse differential lockout control.

Suspension Hydropneumatic suspension, all axles hydraulically blockable.

Wheels and tires 6 disk-type wheels fitted with 14.00 R 25 tires. Single wheels on all axles.

Steering Dual-circuit hydraulic steering.

Brakes Service brake: dual-line air system, acting on all wheels, ABS.

Parking brake: spring-loaded type on axles 2 and 3. Sustained action brake: exhaust brake, constant choke

valve, automatic downhill brake control.

Electrical equipment 24 V system.

2-man driver's cab

Rubber-mounted all steel driver's cab with safety glazing, controls and instrumentation, air-sprung and

heated driver's and passenger seat, vertically adjustable steering wheel, electrically adjustable and heated

outside mirrors, rotaflare warning light, cruise control, air-conditioning as standard.

Superstructure

Main boom Boom base and 4 telescopic sections, fabricated from fine-grain structural steel, telescoping with partial

load, anti-deflection Demag ovaloid design.

Counterweight 16,500 lb fixed on superstructure.

Hydraulic system Powered by carrier engine, 1 variable-displacement axial piston pump and separate fixed-displacement

pump to allow 3 simultaneous, independent working movements.

Hoist Fixed-displacement axial-piston motor, hoist drum with planetary reduction integral and spring-loaded

multi-disk brake.

Slew unit Hydraulic motor with planetary reduction, foot-pedal operated brake and spring-loaded holding brake.

Boom elevation 1 differential cylinder with automatically controlled lowering brake valve.

Crane cab Spacious all-steel comfortable cab with sliding door and large hinged windscreen, tiltable 20°, roof window

with armoured glass, full instrumentation and crane controls, working light. Self-contained hot water heater with timer, thermostat-controlled. Windscreen washer and intermittent control type windscreen

wiper, air-conditioning as standard.

Safety devices Electronic safe load indicator with digital readout for hook load, rated load, boom length, boom angle,

load radius. Integrated display to indicate the percentage of tele sequence, limit switches on hoist and

lowering motions, pressure-relief and safety holding valves.

Hydraulic servo control Hydraulic pilot-control by self-centering control levers.

Optional equipment

Drive / steering 6 x 6 x 6 + top-steer facility.

Wheels and tires 16.00 R 25, 20.5 R 25 (Note increased weight and width!)

Trailer coupling For central axle trailers with max. 53,000 lb total weight and ABS air hookup: D = 190; $D_C = 155$; V = 75. Fixed-displacement axial piston motor, hoist drum with planetary reduction integral and spring-loaded

multi-disk brake (avoids re-reeving of hoist line when using the optional jib). Installed with assist crane.

Main boom extension Side-folding 1 or 2-part jib, 30.2 ft or 57.7 ft. 0°, 20° and 40° offset.

Additional counterweight 4,400 lk

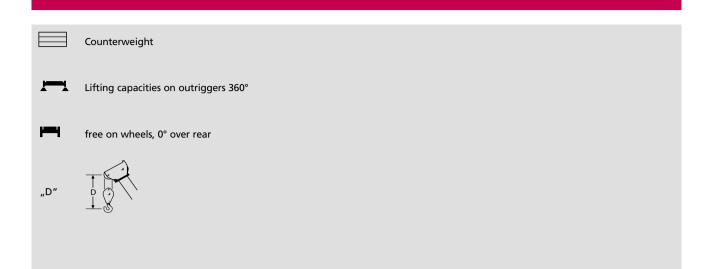
Heavy-lift attachment 2 additional sheaves on boom head for duties over 75,800 lb.

Heavy-lift runner 3.9 ft long, 1-sheave.

Handling facility for additional counterweight Telma electric retarder

Rooster sheave 1-sheave.

Key





The information contained in this brochure merely consists of general descriptions and a broad compilation of performance features which might not apply precisely as described under specific application conditions or which may change as a result of further product development.

The desired performance features only become binding once expressly agreed in the final contract.

Subject to change without notice. · Machine operation is subject to computer charts only.

08/04

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