

AC 80-2 | All Terrain Crane 100 t Lifting Capacity

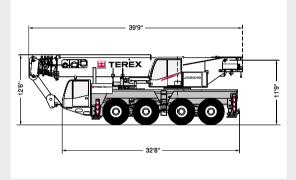


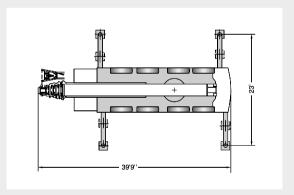
AG 80-2

ALL TERRAIN CRANE

- Shortest 4-axle machine in its category
- Advanced high-torque DaimlerChrysler engine combined with comfortable 6-speed Allison automatic transmission ensures outstanding driving performance
- Fully hydraulic boom system for exceptionally short telescoping times and high load telescoping capacity
- Fully roadable with 17,600 lb counterweight and 30.2 ft boom extension within the statutory 26,460 lb axle load limit
- State-of-the-art DaimlerChrysler engine technology type OM 501 LA, EURO MOT 3a
- Air-conditioning in carrier and superstructure as standard
- Limitation of working range as standard
- ABS, heated seats and electric window winders included as standard



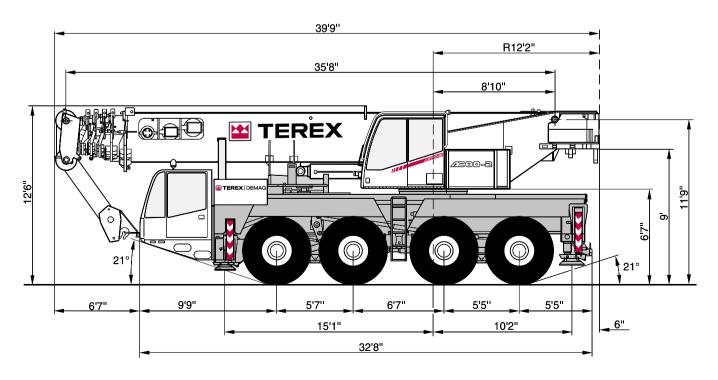




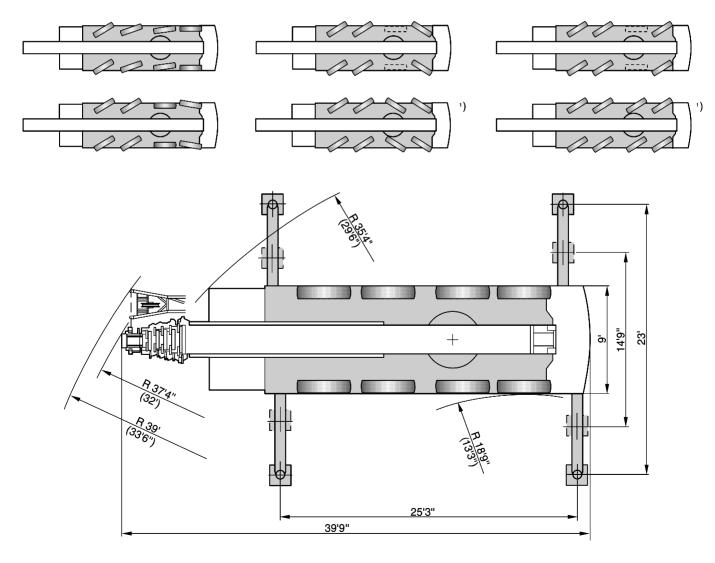
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DIMENSIONS



Dimensions based on 14.00 R 25 tires.



() with independent rear axle steering

1) optional



SPECIFICATIONS

AXLE LOADS

Crane with main boom, hook block 3-sheaves, 17,600 lb counterweight, tires 14.00 R 25

Axles 4 x 26,460 lb
Total weight 105,840 lb

WORKING SPE	WORKING SPEEDS (INFINITELY VARIABLE)								
Mechanisms	Normal speed	High speed	Max. permissible line pull ¹⁾	Rope length					
Hoist I 174 ft/min 361 ft/min 12,1		12,100 lb	689 ft						
Hoist II	174 ft/min	361 ft/min	12,100 lb	689 ft					
Slewing				max. 1.3 rpm					
Telescoping speed				35.8 – 164 ft: 110 s					
Boom elevation				-1,8° - +81,5°: 63 s					

CARRIER PERFORMANCE

Travel speed

Forward $0 \dots 50 \text{ mph}$ Reverse $0 \dots 7.5 \text{ mph}$ Gradeability in travel order max. 50 %

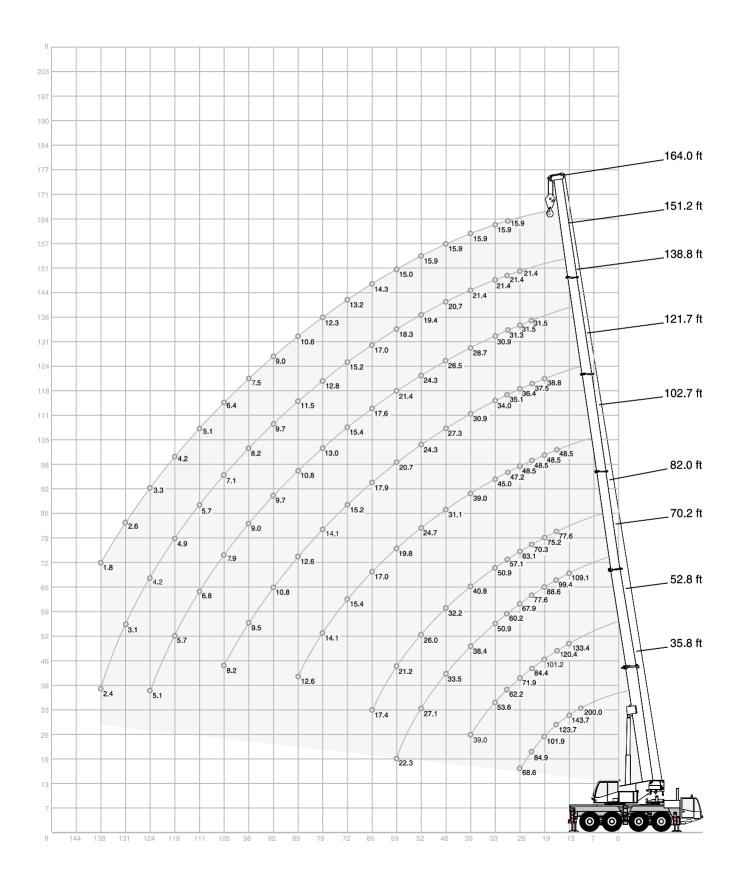
Ground clearance 13 inches

HOOK BLOCK / SINGLE LINE HOOK									
Туре	Possible load ¹⁾	Number of sheaves	Weight	"D"	Number of lines	Heavy-lift attachment			
100	170,000 lb	7	1,650 lb	6.6 ft	14	2 add. sheaves			
80	133,000 lb	5	1,430 lb	6.6 ft	11	2 add. sheaves			
50	85,000 lb	3	1,210 lb	5.9 ft	7				
20	35,000 lb	1	770 lb	5.9 ft	3				
6,3	12,000 lb	Single line hook	375 lb	5.6 ft	1				

Remarks

1) varies depending on national regulations

HA WORKING RANGES





LIFTING CAPACITIES 39,700 lb 360° **85**% Main boom 35.8 Radius ft 35.8 52.8 70.2 82.0 102.7 121.7 138.8 151.2 164.0 52.8 Radius ft ft 1,000 lb 1,000 lb 200.0* 10 169.8 10 10 156.1 133.4 11 27.3 26.6 13 143.7 133.4 109.1 13 15 133.2 128.3 104.3 77.6 23.9 23.2 15 123.7 120.4 77.6 48.5 22.4 21.7 16 16 99.4 88.6 75.2 48.5 38.8 18.6 19 19 101.9 101.2 18.0 23 48.5 37.5 31.5 14.5 23 84.9 84.4 77.6 70.3 14.0 26 21.4 26 68.6 71.9 67.9 48.5 36.4 31.5 12.3 11.6 63.1 29 62.2 60.2 57.1 47.2 35.1 31.3 21.4 15.9 9.6 29 33 21.4 33 53.6 50.9 50.9 45.0 34.0 30.9 15.9 7.4 39 39.0 38.4 40.8 39.0 30.9 28.7 21.4 15.9 4.7 39 46 33.5 32.2 31.1 27.3 26.5 15.9 46 20.7 52 27.1 26.0 24.7 24.3 19.4 15.9 52 59 22.3 20.7 21.4 18.3 59 21.2 19.8 15.0 65 17.4 17.0 17.9 17.6 17.0 14.3 65 72 72 15.4 15.2 15.4 15.2 13.2 79 14.1 14.1 13.0 12.8 12.3 79 85 12.6 12.6 85 10.8 11.5 10.6 92 92 10.8 9.7 9.7 9.0 98 9.5 9.0 8.2 7.5 98 105 105 8.2 7.9 7.1 6.4 111 6.8 5.1 111

5.7

5.1

4.9

4.2

3.1

4.2

2.6

118

124

131

138

	17,600	lb	<u> </u>	25	3" x 23'		360	0			F	-	85%
							Main	boom					
Radius	ft	35.8	52.8	70.2	82.0	102.7	121.7	138.8	151.2	164.0	35.8	52.8	Radius
ft							1,0	00 lb			1,00	00 lb	ft
10		200.0*	-	-	-	-	- ´	-	-	-	- ′	-	10
10		169.8	-	-	-	-	-	-	-	-	-	-	10
11		155.4	133.4	-	-	-	-	-	-	-	-	-	11
13		143.1	133.4	109.1	-	-	-	-	-	-	26.0	25.3	13
15		128.3	127.6	104.3	77.6	-	-	-	-	-	22.6	22.1	15
16		113.3	112.4	99.4	77.6	48.5	-	-	-	-	21.2	20.6	16
19		91.3	90.4	84.7	75.2	48.5	38.8	-	-	-	17.5	17.0	19
23		75.8	75.2	66.4	62.4	48.5	37.5	31.5	-	-	13.6	13.2	23
26		58.6	57.5	54.0	50.9	48.5	36.4	31.5	21.4	-	11.4	10.7	26
29		-	45.9	43.7	46.1	43.9	35.1	31.3	21.4	15.9	-	8.9	29
33		-	37.5	41.9	40.8	37.5	34.0	30.9	21.4	15.9	-	6.7	33
39		-	26.7	30.9	29.3	28.0	28.0	26.9	21.4	15.9	-	4.3	39
46		-	-	23.4	21.8	22.5	22.5	21.8	20.7	15.9	-	-	46
52		-	-	18.3	17.0	19.6	19.6	17.9	17.2	15.9	-	-	52
59		-	-	14.6	13.0	15.9	15.9	14.3	14.8	13.7	-	-	59
65		-	-	-	10.1	13.0	12.8	12.3	11.7	10.8	-	-	65
72		-	-	-	-	10.6	10.6	10.4	9.5	8.8	_	-	72
79		-	-	-	-	8.8	8.8	8.4	7.5	6.8	-	-	79
85		-	-	-	-	7.3	7.1	7.1	5.7	5.1	_	-	85
92		-	-	-	-	-	5.7	5.5	4.6	4.0	-	-	92
98		-	-	-	-	-	4.6	4.6	3.3	2.9	_	-	98
105		-	-	-	-	-	4.0	3.5	2.6	2.0	-	-	105
111		-	-	-	-	-	-	2.9	1.8	-	_	-	111
118		-	-	-	-	-	-	2.2	-	-	-	-	118
124		-	-	-	-	-	-	1.5	-	-	-	-	124

Remarks: * over rear

118

124

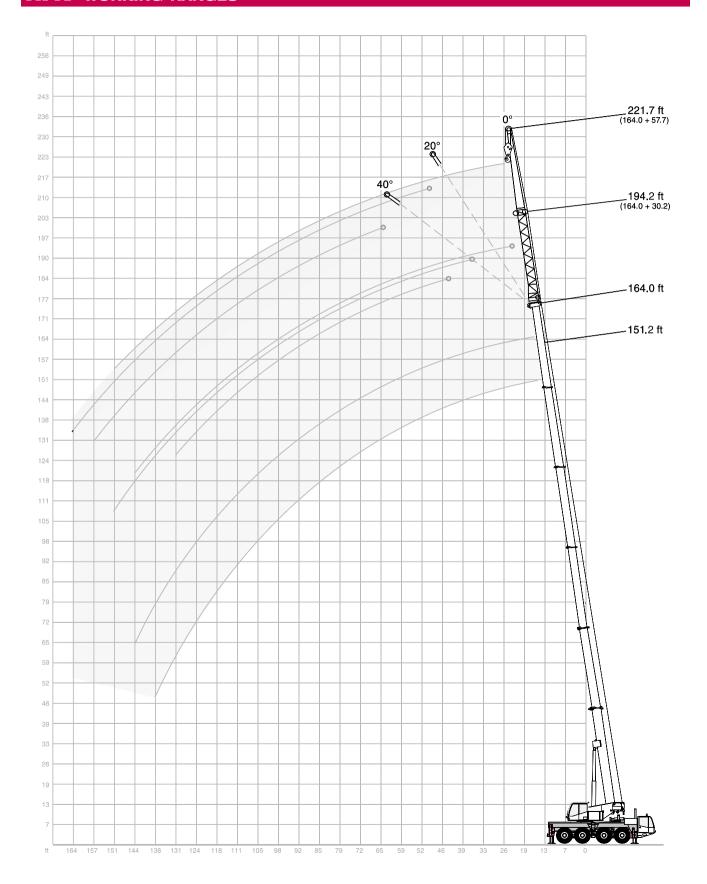
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138

LIFTING CAPACITIES 25'3" x 23' 11,000 lb 360° **85**% Main boom Radius ft 52.8 70.2 82.0 102.7 121.7 138.8 151.2 164.0 35.8 52.8 Radius 35.8 ft ft 1,000 lb 1,000 lb 10 200.0* 10 10 10 169.8 155.4 133.4 25.5 24.8 11 142.4 133.4 109.1 13 13 22.3 21.7 15 123.9 123.2 104.3 77.6 20.8 20.3 15 109.3 108.7 99.4 77.6 48.5 17.3 16 16 16.7 19 88.0 87.3 75.0 69.7 48.5 38.8 13.4 19 12.7 23 67.9 67.0 58.6 54.9 48.5 37.5 31.5 11.2 10.5 23 21.4 26 45.6 26 51.8 50.9 47.2 46.1 36.4 31.5 8.6 29 40.6 43.7 43.4 38.1 34.8 31.3 21.4 15.9 6.5 29 33 33 32.8 36.2 32.2 21.4 37.5 31.3 30.4 15.9 3.7 39 22.5 26.7 25.1 25.6 24.7 24.0 21.4 15.9 39 46 46 19.8 18.7 21.6 21.6 19.0 17.9 15.9 52 15.4 14.1 17.0 16.8 15.0 15.0 13.9 52 59 59 12.1 10.6 11.2 13.7 13.2 13.2 12.1 65 7.9 10.8 10.6 10.6 9.5 8.8 65 72 7.3 72 8.8 8.4 8.4 6.6 79 79 7.1 6.8 6.8 5.5 4.9 85 5.5 5.3 4.4 3.5 85 5.5 92 92 4.4 4.2 3.1 2.4 98 3.3 3.1 2.2 1.5 98 105 105 2.4 2.4 1.8 111



HAV WORKING RANGES



HAV LIFTING CAPACITIES

39	,700 lb		25'3" x 2	3' 36	0°	85%
151.2 ft	Main boon	n				
			Exter	nsion		
		30.2 ft			57.7 ft	
Radius	0°	20°	40°	0°	20°	40°
ft			1,00	0 lb		
33	9.5	-	- 1	-	-	-
39	9.5	-	-	4.2	-	-
46	9.5	8.2	-	4.2	-	-
52	9.5	8.2	7.3	4.2	-	-
59	9.5	7.9	7.3	4.2	3.3	-
65	9.0	7.7	7.1	4.0	3.3	-
72	8.4	7.5	6.8	3.5	3.3	-
79	7.9	7.1	6.6	3.5	3.3	2.9
85	7.5	6.8	6.4	3.3	3.3	2.6
92	7.3	6.4	6.2	3.3	3.3	2.6
98	6.8	6.2	5.7	3.1	3.1	2.6
105	6.6	5.7	5.5	3.1	2.9	2.6
111	5.7	5.5	5.3	2.9	2.6	2.6
118	4.9	5.3	5.1	2.9	2.6	2.6
124	4.0	4.4	4.6	2.6	2.6	2.4
131	3.1	3.5	4.0	2.6	2.6	2.4
138	2.4	2.9	-	2.6	2.6	2.4
144	2.0	2.2	-	2.4	2.6	2.4
151	-	1.5	-	2.0	2.6	2.4
157	-	-	-	1.5	2.0	2.4
164	-	-	-	-	1.5	-

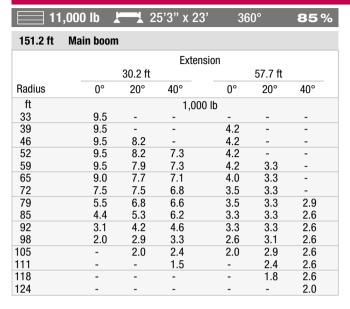
17	,600 lb 🎍	2	5'3" x 2	3' 360)°	85 %
151.2 ft	Main boom					
			Exte	nsion		
		30.2 ft			57.7 ft	
Radius	0°	20°	40°	0°	20°	40°
ft			1.00	00 lb		
33	9.5	-	-	-	-	-
39	9.5	-	-	4.2	-	-
46	9.5	8.2	-	4.2	-	-
52	9.5	8.2	7.3	4.2	-	-
59	9.5	7.9	7.3	4.2	3.3	-
65	9.0	7.7	7.1	4.0	3.3	-
72	8.4	7.5	6.8	3.5	3.3	-
79	7.5	7.1	6.6	3.5	3.3	2.9
85	5.7	6.8	6.4	3.3	3.3	2.6
92	4.6	5.5	6.2	3.3	3.3	2.6
98	3.3	4.4	4.9	3.1	3.1	2.6
105	2.4	3.1	3.5	3.1	2.9	2.6
111	1.8	2.4	2.6	2.4	2.6	2.6
118	-	1.5	2.0	1.8	2.6	2.6
124	-	-	-	-	2.0	2.4
131	-	-	-	-	1.5	2.2
138	-	-	-	-	-	1.5
144	-	-	-	-	-	-
151	-	-	-	-	-	-
157	-	-	-	-	-	-
164	-	-	-	-	-	-

164.0 ft	Main boom						
	Extension						
		30.2 ft			57.7 ft		
Radius	0°	20°	40°	0°	20°	40°	
ft			1,0	00 lb			
39	7.3	-	- '	-	-	-	
46	7.3	7.3	-	2.9	-	-	
52	7.3	7.3	6.6	2.9	-	-	
59	7.3	7.1	6.6	2.9	-	-	
65	7.1	6.8	6.4	2.9	2.6	-	
72	6.8	6.6	6.2	2.6	2.6	-	
79	6.4	6.2	5.5	2.6	2.6	2.4	
85	6.2	5.7	5.3	2.4	2.6	2.4	
92	5.5	5.3	5.1	2.4	2.4	2.4	
98	5.3	5.1	4.9	2.4	2.4	2.4	
105	5.1	4.9	4.6	2.4	2.4	2.4	
111	4.9	4.6	4.6	2.2	2.4	2.4	
118	4.6	4.4	4.4	2.2	2.2	2.2	
124	3.5	4.4	4.4	2.2	2.2	2.2	
131	2.9	3.3	4.0	2.0	2.2	2.2	
138	2.2	2.6	-	2.0	2.2	2.2	
144	1.8	2.2	-	1.8	2.0	2.2	
151	-	1.5	-	1.8	2.0	2.0	
157	-	-	-	-	2.0	2.0	
164	-	-	-	-	1.5	-	
170	-	-	-	-	-	-	

164.0 ft	Main boom						
		Extension					
		30.2 ft			57.7 ft		
Radius	0°	20°	40°	0°	20°	40°	
ft			1,00	00 lb			
39	7.3	-	- ′	-	-	-	
46	7.3	7.3	-	2.9	-	-	
52	7.3	7.3	6.6	2.9	-	-	
59	7.3	7.1	6.6	2.9	-	-	
65	7.1	6.8	6.4	2.9	2.6	-	
72	6.8	6.6	6.2	2.6	2.6	-	
79	6.4	6.2	5.5	2.6	2.6	2.4	
85	5.7	5.7	5.3	2.4	2.6	2.4	
92	4.4	5.3	5.1	2.4	2.4	2.4	
98	3.3	4.2	4.9	2.4	2.4	2.4	
105	2.4	3.1	3.5	2.4	2.4	2.4	
111	1.5	2.2	2.6	2.2	2.4	2.4	
118	-	1.5	2.0	1.5	2.2	2.2	
124	-	-	-	-	2.0	2.2	
131	-	-	-	-	-	2.0	
138	-	-	-	-	-	-	
144	-	-	-	-	-	-	
151	-	-	-	-	-	-	
157	-	-	-	-	-	-	
164	-	-	-	-	-	-	
170	-	-	-	-	-	-	



HAV LIFTING CAPACITIES



164.0 ft	Main boo	n				
			Exte	nsion		
		30.2 ft			57.7 ft	
Radius	0°	20°	40°	0°	20°	40°
ft			1,00	00 lb		
39	7.3	-	-	-	-	-
46	7.3	7.3	-	2.9	-	-
52	7.3	7.3	6.6	2.9	-	-
59	7.3	7.1	6.6	2.9	-	-
65	7.1	6.8	6.4	2.9	2.6	-
72	6.8	6.6	6.2	2.6	2.6	-
79	5.3	6.2	5.5	2.6	2.6	2.4
85	4.2	5.1	5.3	2.4	2.6	2.4
92	2.9	4.0	4.6	2.4	2.4	2.4
98	2.0	2.9	3.3	2.4	2.4	2.4
105	-	2.0	2.4	1.5	2.4	2.4
111	-	-	1.5	-	2.2	2.4
118	-	-	-	-	1.5	2.2
124	-	-	-	-	-	1.8
131	-	-	-	-	-	-

NOTES TO LIFTING CAPACITY

Lifting capacities do not exceed 85% of tipping load.

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.

KEY

"D"

Counterweight

Lifting capacities on outriggers 360°

free on wheels, 0° over rear

—_⊚

HA: Main boom

HAV: Main boom extension



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: 106 gallons.

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 tires 8 x 14.00 R 25 on 11.25-25 rims; tubeless road-tread tires, 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 50 mph, 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 17,600 lb in sections of 11,250 lb, 3,750 lb and 2,650 lb (15,000 lb fitted on superstructure, 2,650 lb hydraulically stowed on

carrier deck).

Top steer facility Included as standard.

Operator aids Electronic 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 loweringmotions, 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.

Tires Optional 16.00 R 25, 17.5 R 25 or 20.5 R 25.

Telma brake

Trailer coupling For central axle trailers with max. 52,920 lb 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, 30.2 ft or 57.7 ft. 0°, 20° and 40° offset.

Additional counterweight 22,050 lb, integrated into standard counterweight, installed hydraulically by the crane itself.

Heavy-lift attachment Additional sheaves on boom head for duties over 132,300 lb.

Heavy-lift runner 3.9 ft 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 25'3" x 23'

Main boom							
Main boom							
	11,000 lb	17,600 lb	39,700 lb				
35.8 ft	Х	X	X				
52.8 ft	Х	X	X				
70.2 ft	Х	X	X				
82.0 ft	Х	X	X				
102.8 ft	Х	X	Х				
121.9 ft	Х	X	X				
138.9 ft	X	X	Х				
151.3 ft	Х	X	X				
164.0 ft	X	X	X				

Main boom			
	11,000 lb	17,600 lb	39,700 lb
35.8 ft	Χ	Χ	X
52.8 ft	Χ	Χ	X
70.2 ft	Χ	Χ	X
82.0 ft	Х	Χ	X
102.8 ft	Χ	X	X
121.9 ft	Χ	Χ	X
138.9 ft	Χ	Χ	X
151.3 ft	Χ	Χ	X
164.0 ft	Χ	Χ	X

25'3" x 14'8"

Main boom extension

Main boom	Main boom extension 0° / 20° / 40°				
		11,000 lb	17,600 lb	39,700 lb	
151 0 U	30.2 ft	X	X	X	
151.3 ft	57.7 ft	Х	Х	Х	
164.0 ft	30.2 ft	X	Х	Х	
	57.7 ft	Х	Х	Х	

Main boom	Main boom extension 0° / 20° / 40°			
		11,000 lb	17,600 lb	39,700 lb
151.3 ft	30.2 ft	_	Х	X
	57.7 ft	_	Х	X
164.0 ft	30.2 ft	_	Х	Х
	57.7 ft	_	Х	Х





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.

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.

Subject to change without notice.

10/06



Terex Cranes Wilmington Operations

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