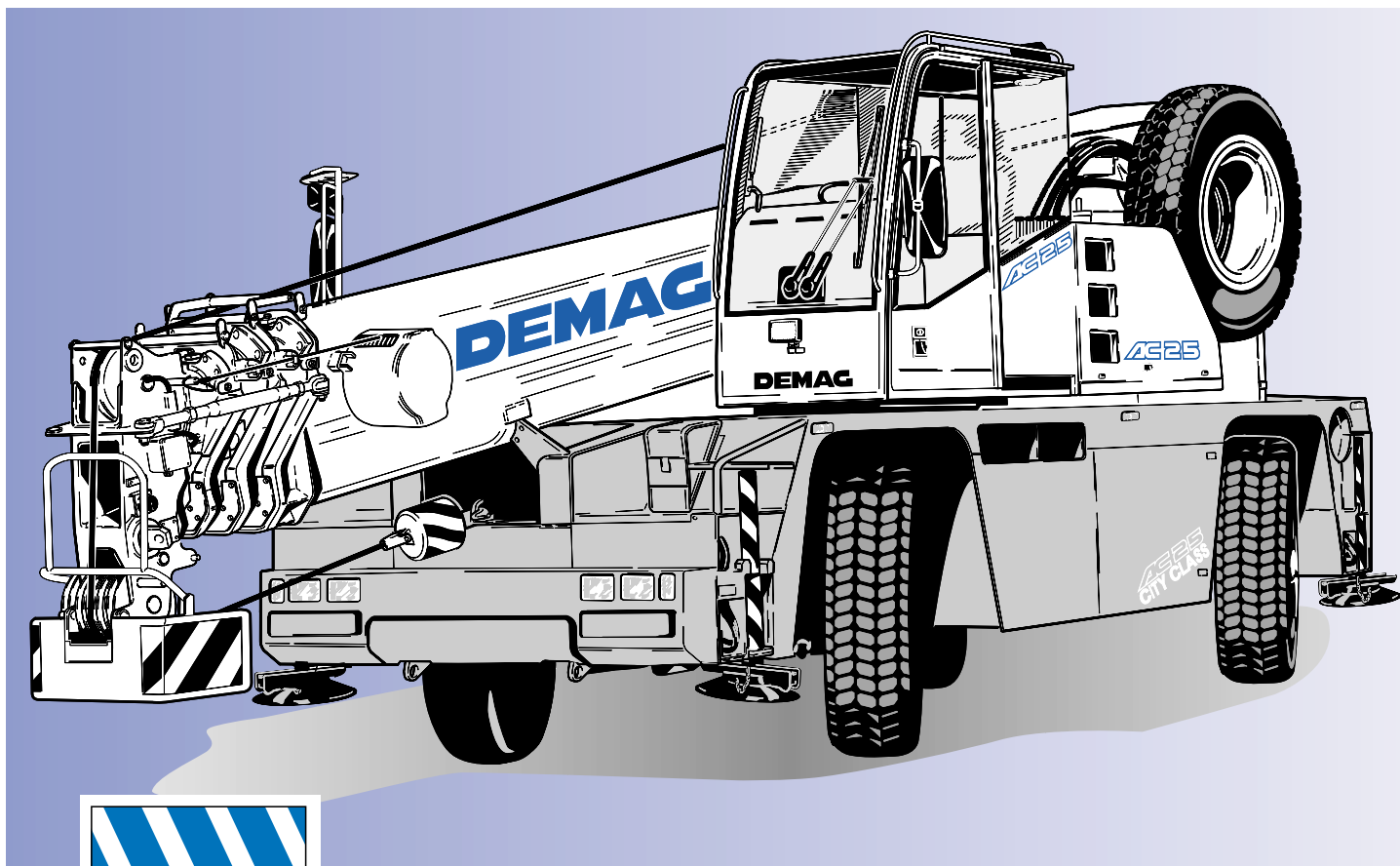




- Specifications
- Working ranges main boom
- Lifting capacities main boom
- Working ranges main boom extension
- Lifting capacities main boom extension
- Technical description

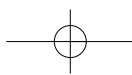


Demag AC 25



28t

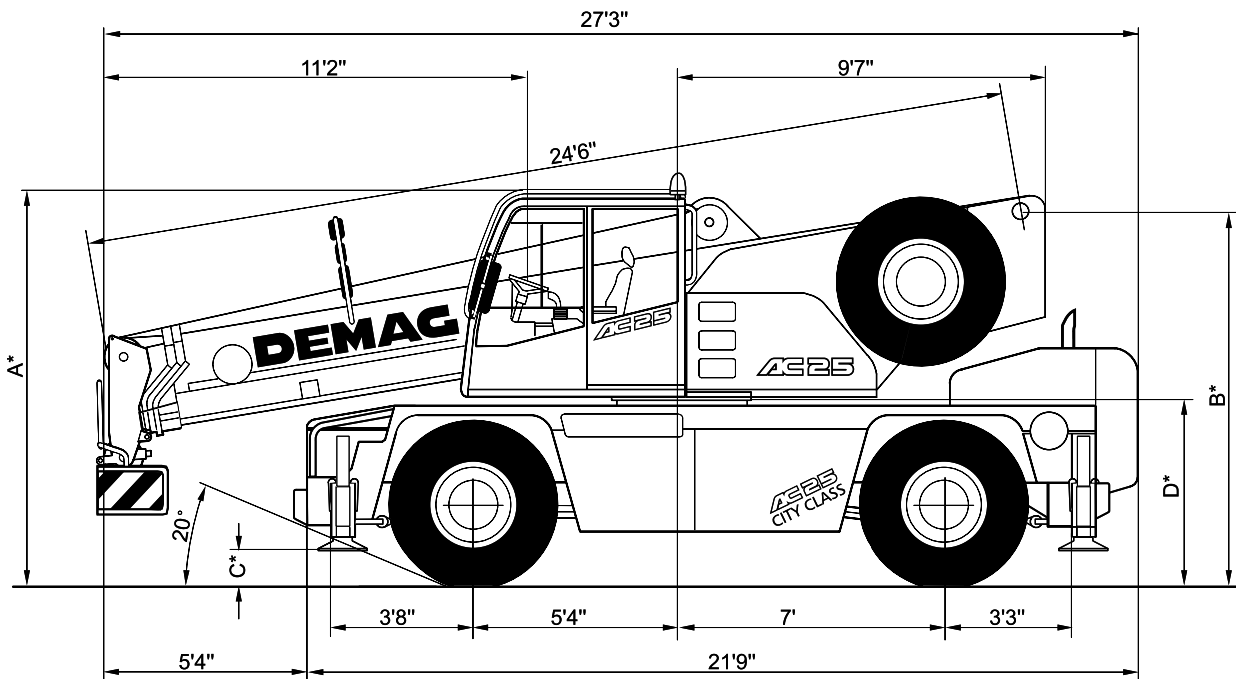
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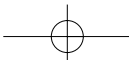
Dimensions

Type of tires	Level	A*	B*	C*	D*
14.00	Road	10'5"	10'	1'1"	5'
14.00	Lowered	10'2"	9'7"	8"	4'7"
425/65	Road	10'1"	9'6"	7"	4'6"
425/65	Lowered	9'8"	9'3"	4"	4'3"



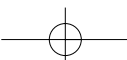
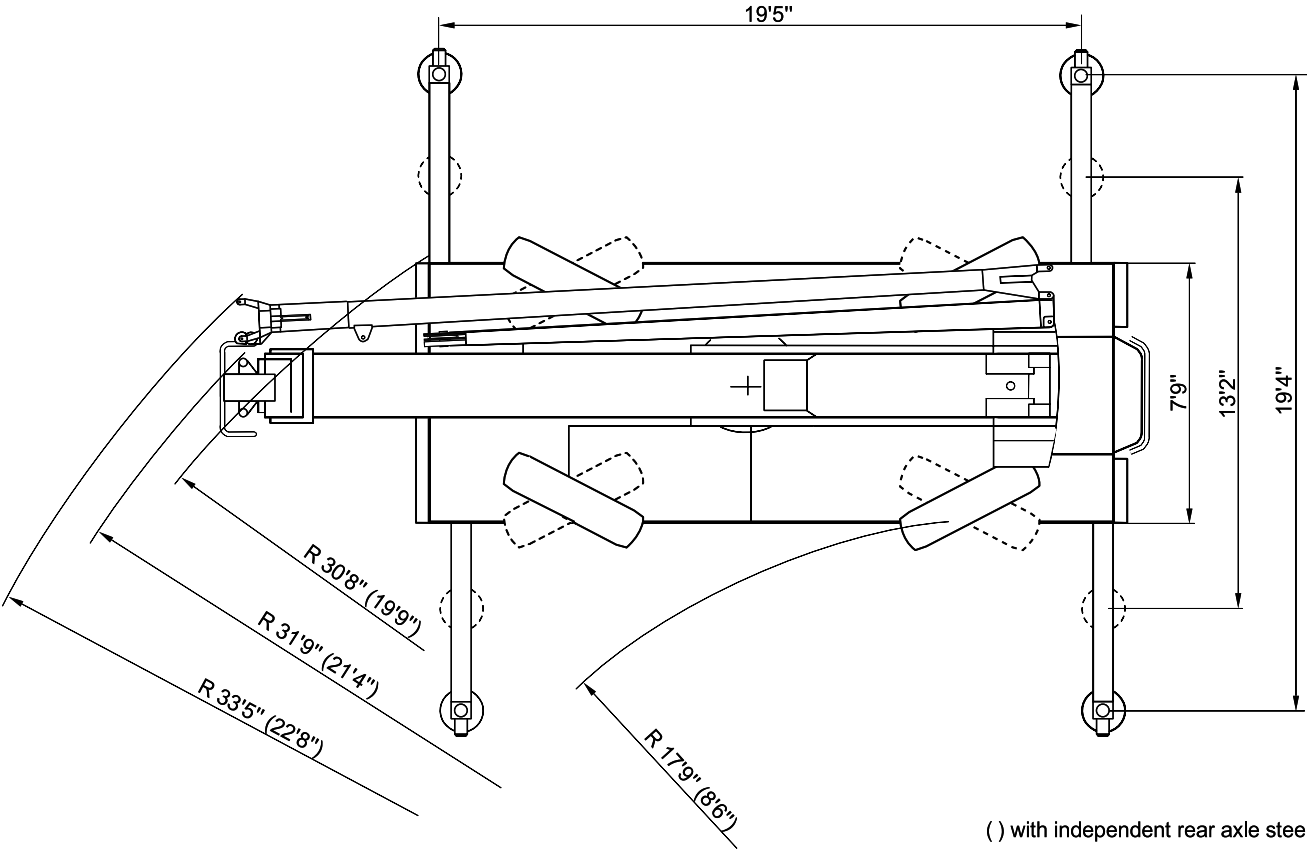
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Dimensions





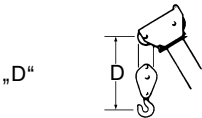
Key



Lifting capacities on outriggers 360°



free on wheels

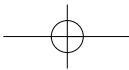


Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load.
Weight of hook blocks and slings are part of the load, and are to be deducted from the capacity ratings.

Crane operation with main boom is permissible up to a
wind speed of 32 ft/s

Consult operation manual for further details on wind speed.
All capacities above the parting line are based on structural strength. Capacities below the parting line are based on machine stability.
Crane operation subject to computer charts, only! For crane operation consult operation manual first!





Specifications

Axle loads

Crane in travel position	
Axles	axle 1 18,700 lb
Total weight	axle 2 24,250 lb
	42,950 lb

Working speeds (infinitely variable)

Mechanisms	Normal speed	High speed	Max. permissible line pull ³⁾	Rope length
Hoist	180.4 ft/min	344.4 ft/min	6,400 lb	426.5 ft
Slewing				max. 1.7 1/min
Telescoping speed				24.6 – 82.0 ft: 60 s
Boom elevation				–10° – +78°: 50 s

Carrier performance

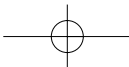
Travel speed	0..50/53 mph ¹⁾
Gradeability	max. 50/80% ²⁾
Ground clearance	1' / 1'4'' ¹⁾

Hook block/Heavy-lift attachment

Type	Possible load ³⁾	Number of sheaves	Weight	„D“	Number of lines	Heavy-lift attachment
32	55,000 lb	5	485 lb	5'9"	10	1 add. sheave
25	44,800 lb	3	353 lb	5'2"	7	
25 ⁴⁾	44,800 lb	3	353 lb	3'8"	7	
10	19,200 lb	1	220 lb	5'2"	3	
3,2	6,400 lb		176 lb	4'9"	1	

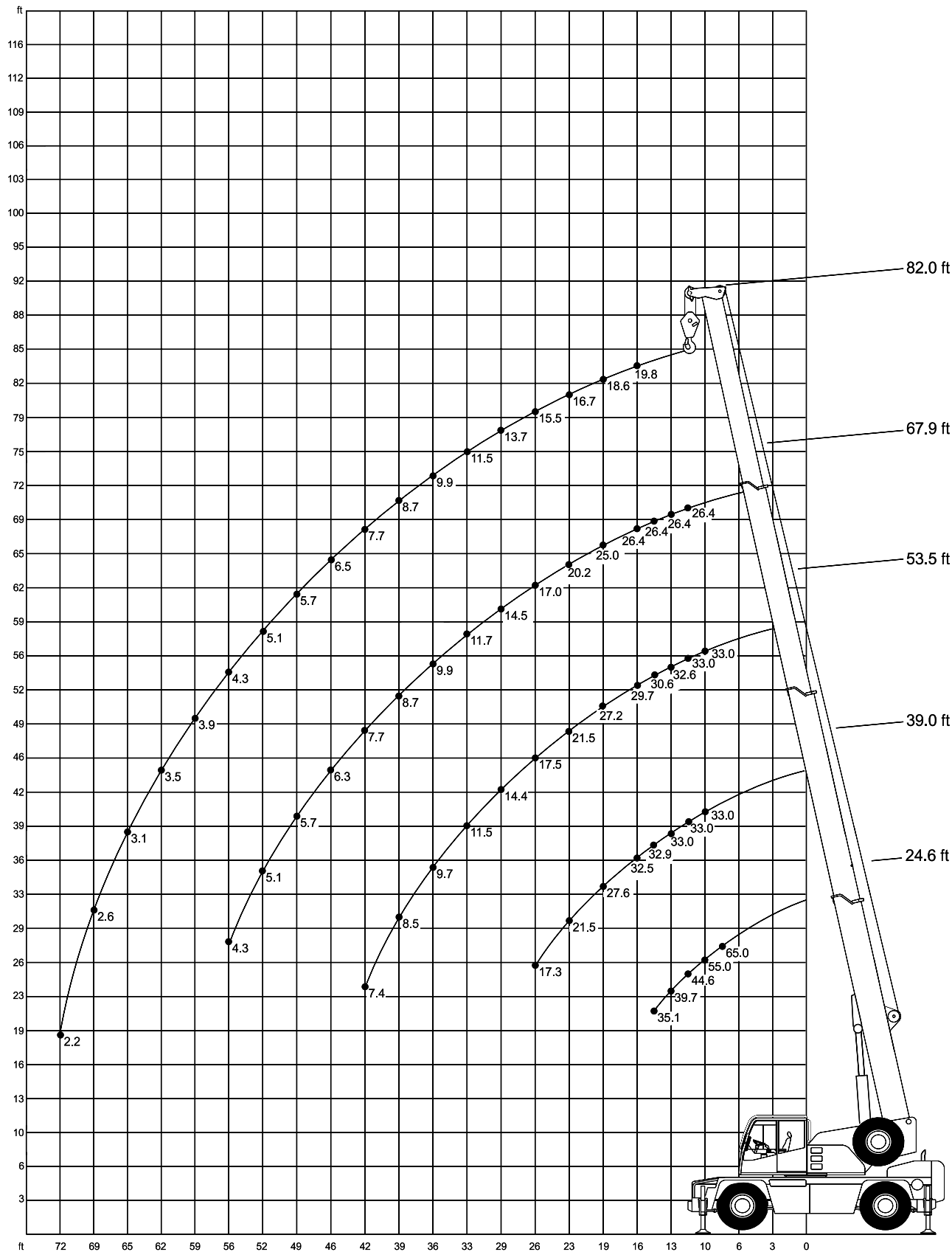
Remarks

- ¹⁾ depending on type of tires
- ²⁾ Drive 4 x 2 / 4 x 4
- ³⁾ varies depending on national regulations
- ⁴⁾ for workshop operation



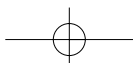


Working ranges main boom



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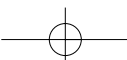
Lifting capacities main boom

 19'6" x 19'4"360°85%						 19'6" x 13'2"360°85%					
Main boom						Main boom					
Radius	24.6 ft	39.0 ft	53.5 ft	67.9 ft	82.0 ft	Radius	24.6 ft	39.0 ft	53.5 ft	67.9 ft	82.0 ft
ft	1,000 lb					ft	1,000 lb				
8	65.0 ³⁾	–	–	–	–	8	–	–	–	–	–
10	55.0*/47.0	33.0	33.0	–	–	10	41.6	33.0	32.9	–	–
11	44.6	33.0	33.0	26.4	–	11	38.9	33.0	31.9	27.2	–
13	39.7	33.0	32.6	26.4	–	13	30.9	30.2	26.8	24.0	–
15	35.1	32.9	30.6	26.4	–	15	22.8	23.8	22.2	20.3	–
16	–	32.5	29.7	26.4	19.8	16	–	21.1	20.5	18.8	17.2
19	–	27.6	27.2	25.0	18.6	19	–	15.5	15.6	15.3	14.1
23	–	21.5	21.5	20.2	16.7	23	–	10.7	11.0	11.4	11.0
26	–	17.3	17.5	17.0	15.5	26	–	8.7	8.9	9.2	9.1
29	–	–	14.4	14.5	13.7	29	–	–	7.5	7.5	7.7
33	–	–	11.5	11.7	11.5	33	–	–	5.9	6.1	6.1
36	–	–	9.7	9.9	9.9	36	–	–	5.0	5.1	5.3
39	–	–	8.5	8.7	8.7	39	–	–	4.2	4.4	4.5
42	–	–	7.4	7.7	7.7	42	–	–	3.6	3.8	3.8
46	–	–	–	6.3	6.5	46	–	–	–	3.2	3.2
49	–	–	–	5.7	5.7	49	–	–	–	2.6	2.8
52	–	–	–	5.1	5.1	52	–	–	–	2.2	2.4
56	–	–	–	4.3	4.3	56	–	–	–	1.7	2.1
59	–	–	–	–	3.9	59	–	–	–	–	1.7
62	–	–	–	–	3.5	62	–	–	–	–	1.5
65	–	–	–	–	3.1	65	–	–	–	–	1.3
69	–	–	–	–	2.6	69	–	–	–	–	1.0
72	–	–	–	–	2.2	72	–	–	–	–	–
Capacities ²⁾	28.3	11.0	6.1	3.3	1.7	Capacities ²⁾	19.8	5.5	2.6	1.1	–

 19'6" x 7'4"85%			
Main boom			
Radius	24.6 ft	39.0 ft	53.5 ft
ft	1,000 lb		
10	30.5	31.8	28.5
11	23.3	24.3	24.0
13	18.4	19.4	19.7
15	15.1	16.1	16.4
16	–	13.5	13.8
19	–	9.8	10.2
23	–	7.5	7.9
26	–	5.9	6.2
29	–	–	4.9
33	–	–	3.9
36	–	–	3.3
Capacities ²⁾	8.8	2.2	–

Remarks

- * 0° over rear
- ** only stationary
- 1) type of tires 14.00
- 2) with horizontal boom
- 3) 180° over front





Lifting capacities main boom

	0° / 180°			85%
	Main boom			
Radius	24.6 ft ¹⁾	39.0 ft ¹⁾	53.5 ft ¹⁾	
ft	1,000 lb			
10	21.3	21.8	22.0	
11	20.0	20.4	20.7	
13	17.5	18.0	18.2	
15	15.6	16.0	16.3	
16	–	15.1	15.3	
19	–	12.8	13.0	
23	–	9.4	9.6	
26	–	7.6	7.8	
29	–	6.3	6.6	
33	–	–	5.2	
36	–	–	4.4	
39	–	–	3.8	
42	–	–	3.2	
Capacities ²⁾	14.3	5.5	2.2	

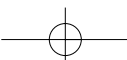
	360° **		85%
	Main boom		
Radius	24.6 ft ¹⁾	39.0 ft ¹⁾	53.5 ft ¹⁾
ft	1,000 lb		
10	–	–	–
11	12.8	13.5	13.7
13	10.9	11.3	11.5
15	9.0	9.7	9.9
16	–	8.9	9.1
19	–	6.6	6.9
23	–	4.6	4.8
26	–	3.8	3.8
29	–	3.0	3.1
33	–	–	2.3
36	–	–	1.9
39	–	–	–
42	–	–	–
Capacities ²⁾	7.7	2.2	–

	0° / 180°			85%
	Main boom			
Radius	24.6 ft	39.0 ft	53.5 ft	
ft	1,000 lb			
10	16.8	17.4	17.4	
11	15.7	16.2	16.3	
13	13.7	14.2	14.4	
15	12.1	12.6	12.8	
16	–	11.9	12.0	
19	–	10.1	10.2	
23	–	8.1	8.3	
26	–	7.1	7.3	
29	–	6.3	6.3	
33	–	–	5.2	
36	–	–	4.4	
39	–	–	3.8	
42	–	–	3.2	
Capacities ²⁾	11.0	5.3	2.0	

	360° **			85%
	Main boom			
Radius	24.6 ft	39.0 ft	53.5 ft	
ft	1,000 lb			
10	–	–	–	
11	10.5	10.9	11.4	
13	8.7	9.3	9.5	
15	7.3	7.8	8.0	
16	–	7.2	7.4	
19	–	5.8	6.0	
23	–	4.4	4.6	
26	–	3.5	3.8	
29	–	2.7	3.0	
33	–	–	2.3	
36	–	–	1.7	
39	–	–	–	
42	–	–	–	
Capacities ²⁾	6.6	2.2	–	

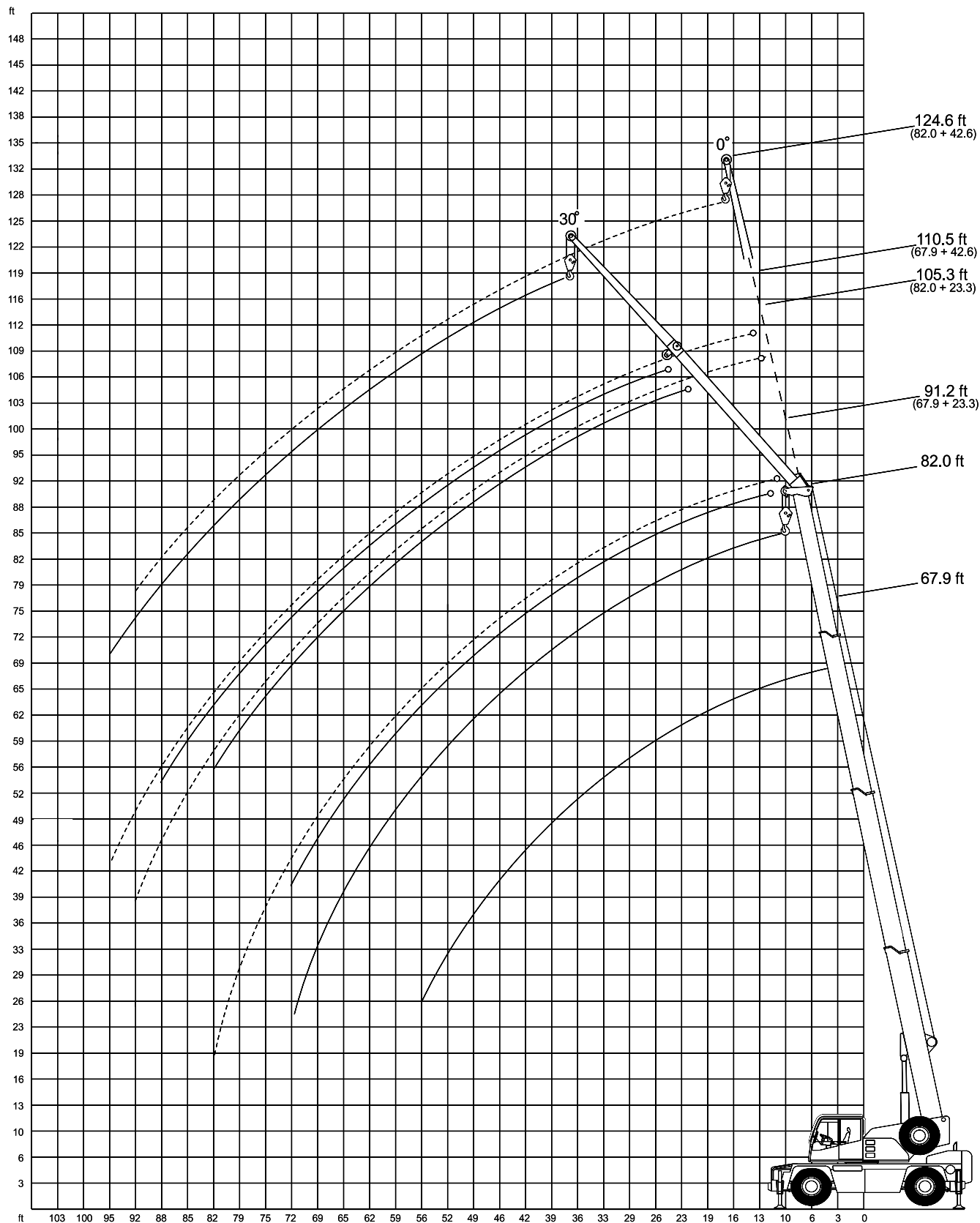
Remarks

- * 0° over rear / 180° over front
- ** only stationary
- ¹⁾ type of tires 14.00
- ²⁾ with horizontal boom



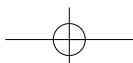


Working ranges main boom extension



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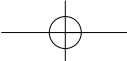
Lifting capacities main boom extension

Main boom: 67.9 ft

 360° 19'6" x 19'4" 85%					 360° 19'6" x 13'2" 85%				
Radius	Extension				Radius	Extension			
	23.3 ft		42.6 ft			23.3 ft		42.6 ft	
	0°	30°	0°	30°		0°	30°	0°	30°
ft	1,000 lb				ft	1,000 lb			
16	12.3	–	–	–	16	12.3	–	–	–
19	12.3	–	–	–	19	12.3	–	–	–
23	11.6	–	4.8	–	23	11.6	–	4.8	–
26	11.0	–	4.8	–	26	9.6	–	4.8	–
29	10.4	8.1	4.8	–	29	8.0	8.2	4.8	–
33	9.6	7.9	4.6	–	33	6.3	7.2	4.6	–
36	9.2	7.7	4.6	–	36	5.5	6.2	4.6	–
39	8.8	7.5	4.4	–	39	4.7	5.3	4.4	–
42	7.9	7.3	4.2	3.7	42	4.0	4.7	4.2	3.7
46	6.8	7.0	4.1	3.5	46	3.5	3.9	3.5	3.5
49	6.0	6.6	3.9	3.5	49	3.1	3.3	3.1	3.5
52	5.3	5.8	3.7	3.3	52	2.7	2.9	2.7	3.3
56	4.8	5.0	3.5	3.2	56	2.1	2.6	2.3	3.0
59	4.2	4.6	3.5	3.0	59	1.7	2.2	1.9	2.6
62	3.7	4.0	3.3	3.0	62	1.5	1.8	1.7	2.4
65	3.3	3.4	3.1	3.0	65	1.1	1.4	1.5	2.0
69	2.8	2.8	3.0	2.8	69	–	1.0	1.3	1.5
72	2.4	–	2.8	2.8	72	–	–	1.1	1.3
75	2.0	–	2.4	2.8	75	–	–	–	1.1
79	1.7	–	2.1	2.6	79	–	–	–	–
82	1.5	–	1.9	2.2	82	–	–	–	–
85	–	–	1.7	2.0	85	–	–	–	–
88	–	–	1.5	1.6	88	–	–	–	–
92	–	–	1.3	–	92	–	–	–	–
95	–	–	1.1	–	95	–	–	–	–

Main boom: 82.0 ft

 360° 19'6" x 19'4" 85%					 360° 19'6" x 13'2" 85%				
Radius	Extension				Radius	Extension			
	23.3 ft		42.6 ft			23.3 ft		42.6 ft	
	0°	30°	0°	30°		0°	30°	0°	30°
ft	1,000 lb				ft	1,000 lb			
23	9.9	–	–	–	23	9.9	–	–	–
26	9.7	–	4.4	–	26	9.3	–	4.4	–
29	9.3	–	4.4	–	29	7.9	–	4.4	–
33	8.8	7.4	4.4	–	33	6.3	7.2	4.4	–
36	8.6	7.2	4.4	–	36	5.3	6.2	4.4	–
39	8.2	7.0	4.2	–	39	4.7	5.3	4.2	–
42	7.8	6.8	4.1	–	42	4.0	4.5	4.0	–
46	6.6	6.6	3.9	3.3	46	3.2	3.9	3.5	3.3
49	5.9	6.4	3.9	3.3	49	2.8	3.3	3.1	3.3
52	5.3	5.8	3.7	3.3	52	2.4	2.9	2.7	3.3
56	4.5	5.0	3.7	3.0	56	2.1	2.4	2.1	3.0
59	3.9	4.4	3.5	3.0	59	1.7	2.2	1.9	2.6
62	3.5	4.0	3.5	3.0	62	1.5	1.8	1.5	2.2
65	3.1	3.6	3.3	2.9	65	1.1	1.4	1.3	2.0
69	2.8	3.0	2.8	2.8	69	–	1.0	1.0	1.5
72	2.4	2.6	2.6	2.8	72	–	–	–	1.3
75	2.0	2.2	2.2	2.8	75	–	–	–	1.1
79	1.7	1.9	1.9	2.6	79	–	–	–	–
82	1.5	1.5	1.7	2.2	82	–	–	–	–
85	1.3	–	1.5	2.0	85	–	–	–	–
88	1.1	–	1.3	1.8	88	–	–	–	–
92	–	–	1.0	1.5	92	–	–	–	–
95	–	–	–	1.3	95	–	–	–	–





Technical description

Carrier

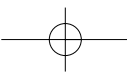
Drive/Steering	4 x 2 x 4.
Frame	Anti-torsion monobox main frame with integrated outrigger boxes, fabricated of high strength fine grain structural steel. Tow lugs integrated on front and rear.
Outriggers	Max. outrigger base, longitudinal: 19.6 ft, transverse: 19.4 ft. Four hydraulic outriggers, controlled from each side of the chassis, monitored by bubble levelling indicator, jacking cylinder stroke approx. 1.8 ft. The outrigger floats remain fitted to the jacking cylinders during transit, without exceeding the 7.9 ft overall width of the crane. Programming for 2nd outrigger base.
Engine	Water-cooled 6-cylinder Perkins Phaser 210 TI engine, anti-pollution conforming to „EURO I“, output to DIN: 156 kW (212 hp) at 2500 1/min, torque 737 Nm at 1550 1/min, fuel tank capacity 69 gallons, aluminized steel exhaust system.
Transmission	Allison automatic transmission with torque converter, six speeds forward and one reverse.
Axles	Axle 1: planetary, steer, with transverse differential lockout; axle 2: rigid.
Weight in travel order	45,000 lb.
Suspension	All axles with hydropneumatic suspension, hydraulically blockable.
Wheels and tires	4 wheels 425/65 R 22.5.
Travel speed	50 mph.
Steering	ZF dual-circuit hydraulic steering with mechanical steering end stop. One engine-driven master steering pump, one emergency steering pump.
Brakes	Service brake: dual-line air system; parking brake: spring-loaded brake on rear axle; sustained action brake: exhaust brake.
Electrical system	24 V. 3-phase alternator 55 A. Two batteries 12 V / 180 Ah. CTC computer control, specially developed for demanding mobile applications. The system includes pilot lamps to assist in trouble shooting.

Superstructure

Steel structure	Welded structure fabricated of fine grain steel. Anti-torsion frame of weight-saving longitudinal beam construction.
Engine	Powered by carrier engine.
Hydraulic system	One variable-displacement axial piston pump for main working movements, separate pump for slew unit. This provides for three simultaneous and independent working movements. Reservoir capacity: 91 gallons.
Hoist	Fixed-displacement axial piston hydraulic motor, hoist drum with integrated planetary gear reducer and spring-applied multi-disk brake. Drum diameter: 9”.
Slew unit	Hydraulic motor with planetary gear reducer, pedal-operated service brake and spring-applied holding brake. Slewing speed infinitely variable.
Boom elevation	One differential cylinder with pilot-controlled lowering brake valve.
Control	The crane is controlled by two self-centering servo levers. Working speed control by both lever position and engine speed. Hydro-electric pilot control with emergency program.
Crane cab	One-man cab with full crane and travel controls. All-steel comfortable cab with sliding door and large hinged window, safety glazing throughout. Roof window with amoured-glass, slide-by side window, sprung and adjustable operator's seat incl. head and arm rests, and seat belt. Washer and parallel wiper for cab window and roof window. Self-contained thermostat-controlled hot water heater with timer. Load moment limiter.
Main boom	Boom base and three telescopic sections fabricated from fine grain structural steel, telescoping to full boom length by hydraulic cylinder and rope pulley assembly. Boom head with four sheaves and parts to fit the optional boom extension. Overall length 82 ft.
Counterweight	Integrated into the superstructure.
Safety devices	Electronic safe load indicator is installed as standard, with sealed touch-type keyboard, incl. digital read-out for hook load, rated load, boom length, boom angle and load radius and analog display to indicate the capacity utilization in percent. Simple and easy 4-key operation.

Other equipment

Fire extinguisher, two working lights, two spotlights to illuminate the outrigger area, antislip on carrier, manual windmeter, spacious stowage facilities and tool kit.
2 pack acrylic paint. Superstructure: RAL 9003 signal white, carrier: RAL 7037 dusty grey.





Technical description

Options

Drive/Steering	4 x 4 x 4. Axle 1: planetary, steer, with transverse differential lockout. Axle 2: planetary, steer, connectable, independent rear axle steering, transverse differential lockout. Turning radius with all-wheel steer: 21.7 ft.
Wheels and tires	14.00 R 25. Overall crane width 7.9 ft, overall crane height 10.6 ft. Spare wheel either loose or with mount and hoisting mechanism.
Main boom extension	1- or 2-part extension, offsettable at 0° and 30°. 1-part box type extension: 23.3 ft. 2-part box type extension: 23.3 ft or 42.6 ft. Folds to right side of boom base during transit. Overall boom length: 124.6 ft, max. tip height: 132 ft.
Centralized lubrication	for carrier.
ABS	Anti-lock brake system.
Other equipment	Exhaust with spark arrestor, airconditioner, phone, windmeter on boom head, rotating beacon, hydraulic oil cooler, tropicalization, radio and cool-box.
National regulations	Different requirements for crane acceptance and roadability in different countries.
Specialpainting and special lettering	Special customized lettering and all RAL colors.
Additional sheave required on main boom head	for loads > 51,100 lb.
Heavy-lift runner	3.9 ft long, 3-sheave, for workshop operation. Stowed on carrier during transit.

