

Tadano Rough Terrain Crane  
**GR-500N**

(5-section boom, 3-section full automatic jib, H-type outriggers)

**Specifications**

Spec. No. GR-500N-2-00101

**TADANO LTD.**

# GR-500N 50 ton wheel crane

## 1. Specifications

### © Crane

Crane capacity	9.6 m boom	50,000 kg × 2.3 m (6 parts of line x2)
	16.5 m boom	24,000 kg × 5.0 m (6 parts of line)
	23.3 m boom	12,500 kg × 9.0 m (4 parts of line)
	30.2 m boom	12,000 kg × 8.0 m (4 parts of line)
	37.0 m boom	8,200 kg × 9.0 m (4 parts of line)
	8.4 m boom	4,000 kg × 77° (1 part of line)
	13.1 m boom	2,800 kg × 74° (1 part of line)
	17.7 m boom	1,500 kg × 84° (1 part of line)
	Single top	5,000 kg (1 part of line)
Maximum lifting height	Boom	38.1 m
	jib	55.7 m
Maximum load radius	Boom	33.0 m
	jib	38.0 m (standard), 39.0 m (front special capacity)
Boom length		9.6 m to 37.0 m
Boom telescoping length		27.4 m
Boom extension speed		27.4 m/85 s
Jib length		8.4 m to 17.7 m
Main winch wire rope hoist up speed		131 m/min (5th layer)
Main winch hook block hoist up speed		21.8 m/min (6 parts of line)
Main winch wire rope hoist up speed (reference)		Standard:131 m/min (5th layer)
		High-speed:201 m/min (5th layer)
Auxiliary winch wire rope hoist up speed		114 m/min (3rd layer)
Auxiliary winch hook block hoist up speed		114 m/min (1 part of line)
Auxiliary winch wire rope hoist up speed (reference)		Standard:114 m/min (3rd layer)
		High-speed:174 m/min (3rd layer)
Boom elevating angle		0° to 84.0°
Boom raising speed		0° to 84.0°/ 47 sec
Slewing angle		360° continuous
Slewing speed		2.2 min <sup>-1</sup> (rpm)
Wire rope	Main	Dia. 18 mm × length 206 m Flame-retardant wire rope
	Auxiliary	Dia. 18 mm × length 123 m Flame-retardant wire rope
Boom		Round-shaped 5-section hydraulic telescoping type (2nd section sequential, 3rd/4th/5th sections synchronized)
Boom telescoping system		2 double-acting direct-pushing hydraulic cylinders 2 wire-rope boom telescoping systems
Jib type		Quick-turn type (stored alongside and below boom)
		3-section (3-section hydraulic telescoping type) Offset (5° to 60°) Hydraulic stepless tilt type
Single top type		Fixed to top boom

Hoisting system	Hydraulic motor driven planetary gear speed reducer Automatic brake High-speed hoist down 2 single winch
Boom elevating system	With pressure compensating flow control valve 1 double-acting direct-pushing hydraulic cylinder With pressure compensating flow control valve
Slewing system	Hydraulic motor driven planetary gear speed reducer Ball bearing Slewing free/lock interchangeable Negative brake
Outriggers	Fully hydraulic H-type (floats mounted integrally) Slide and jacks with independent operation device Maximum extension width 7.0 m Middle extension width 6.6 m, 5.5 m, 4.1 m Minimum extension width 2.51 m
Operation method	Hydraulic pilot operated
Maximum load of outrigger	36.8 t
Power take off	PTO wet multiplate clutch type
Hydraulic pump	Tandem variable piston pump Tandem gear pump
Hydraulic oil tank capacity	522 L
Safety devices	Load moment indicator (LMI) Slewing automatic stop device Elevation slow stop device Anti-two-block device Working range limiter Outrigger extension width detector Level gauge Hook safety latch Hydraulic safety valve Boom telescoping cylinder hydraulic lock Boom elevating cylinder hydraulic lock Jib telescoping cylinder hydraulic lock Power tilt cylinder hydraulic lock Jack cylinder hydraulic lock Slewing lock
Standard equipment	Air conditioner with dehumidifier Hydraulic oil temperature display lamp AM/FM radio Oil cooler Visual drum rotation indicator Operating pedals ISO layout: for boom telescoping and auxiliary winch hook block Tadano layout: for boom elevating and boom telescoping Mobile communication device (HELLO-NET Owner's Site) Fuel consumption monitor Eco mode
Accessories	Wood blocks (4 pcs.) Aluminum pads (4 pcs.) Loudspeaker

© **Carrier**

Vehicle name/model		Tadano UDS-T011
Engine	Model	Cummins QSL9-4A (with turbocharger, intake air cooling)
	Type	Water-cooled, 4-cycle, 6 cylinder direct injection diesel engine
	Displacement	8.849 L
	Maximum output	276 kW{375PS} / 1,900 min <sup>-1</sup>
	Maximum torque	1,491 N·m (152 kgf·m) / 1,500 min <sup>-1</sup>
Torque converter		3-element 1-section (with automatic lockup mechanism)
Transmission		Automatic and manual transmission Power shift type (wet multiplate clutch) 4 forward and 1 reverse speeds (with Hi/Low settings)
Speed Reducer		Axle two-stage deceleration (2nd, 3rd axle)
Driving method		4WD (6 × 4)
Axle (all axles)		Full-floating type
Suspension (all axles)		Hydropneumatic suspension (with hydraulic lock cylinder)
Steering		Fully hydraulic power steering
Brakes	Main brake	Hydro-pneumatic disk brakes
	Parking brake	Mechanically driven internal expanding type (3rd axle)
	Auxiliary brake	Permanent-magnetic retarder Engine retarder Auxiliary operating brake
Frame		Welded box-shaped structure
Batteries		12V – 120Ah × 2 (24V)
Fuel tank capacity		400 L
Tires	Front wheels	385 / 95R25 170E ROAD
	Rear wheels	385 / 95R25 170E ROAD
Cab		Crew capacity: 1 person With interior fittings Liquid-sealed rubber mounting type Fully adjustable folding seat (with headrest, armrest, seat belt) Adjustable handle (tilt, telescoping) Intermittent front and ceiling wipers (with washers) Power windows Side visors
Safety devices		Emergency steering device Suspension lock unit Rear wheel steering lock device Engine over-run alarm Over-shift prevention device Parking brake alarm
Standard equipment		Boom left/right side cameras Electromotive retractable mirror Tire chocks

© **Dimensions when traveling**

Overall length		12,600 mm
Overall width		2,780 mm
Overall height		3,745 mm
Wheel base		1,500 + 4,600 mm
Wheel track	Front wheels	2,330 mm
	Rear wheels	2,330 mm

© **Weight**

Gross vehicle load		35,795 kg
	Front/front axle load	10,895 kg
	Front/rear axle load	11,145 kg
	Rear axle load	13,755 kg

© **Running performance**

Maximum speed		49 km/h
Gradability	(tanθ)	0.46
Minimum turning radius		6.5 m (6-wheel steering) 10.8 m (front 4-wheel steering)

© **Options**

- Winch drum monitoring camera
- Rear monitoring camera
- AML external warning lamp
- Position lamps
- Marker lamps
- External auditory alarms
- Discharge headlamps

- This model has received a “Basic running conditions - weight: D” certificate of conformance under the Newly Developed Vehicle Certificate System, but the actual running conditions will be decided based on the calculations of the road administrator for each route.

**2. Rated lifting capacity table**  
**2-(1) When using outriggers, standard capacity**  
 [Boom]

Unit (t)

Maximum outrigger extension (7.0 m) —360 degrees—					
Load radius \ Boom length	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m
2.3 m	50.0				
3.0 m	41.7	24.0	12.5	12.0	
3.5 m	38.8	24.0	12.5	12.0	8.2
4.0 m	36.3	24.0	12.5	12.0	8.2
4.5 m	33.9	24.0	12.5	12.0	8.2
5.0 m	31.7	24.0	12.5	12.0	8.2
5.5 m	29.4	22.95	12.5	12.0	8.2
6.0 m	26.9	21.5	12.5	12.0	8.2
6.5 m	23.3	20.2	12.5	12.0	8.2
7.0 m		19.0	12.5	12.0	8.2
8.0 m		17.0	12.5	12.0	8.2
9.0 m		13.65	12.5	11.0	8.2
10.0 m		10.95	11.75	10.0	7.75
11.0 m		9.0	9.95	9.1	7.4
12.0 m		7.5	8.4	8.4	7.0
13.0 m		6.35	7.15	7.6	6.75
14.0 m			6.2	6.55	6.35
16.0 m			4.7	5.05	5.25
18.0 m			3.6	3.95	4.15
20.0 m			2.8	3.1	3.3
22.0 m				2.45	2.65
24.0 m				1.95	2.15
26.0 m				1.55	1.7
28.0 m					1.35
30.0 m					1.05
32.0 m					0.8
33.0 m					0.7
A (°)	0 to 84				
Standard hook block	35 ton hook block +25 ton hook block	35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)

[Boom]

Unit (t)

Outrigger middle extension (6.6 m) —side—					
Boom length Load radius	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m
2.3 m	48.0				
3.0 m	41.7	24.0	12.5	12.0	
3.5 m	38.8	24.0	12.5	12.0	8.2
4.0 m	36.3	24.0	12.5	12.0	8.2
4.5 m	33.9	24.0	12.5	12.0	8.2
5.0 m	31.7	24.0	12.5	12.0	8.2
5.5 m	29.4	22.95	12.5	12.0	8.2
6.0 m	26.9	21.5	12.5	12.0	8.2
6.5 m	23.3	20.2	12.5	12.0	8.2
7.0 m		19.0	12.5	12.0	8.2
8.0 m		15.65	12.5	12.0	8.2
9.0 m		12.2	12.5	11.0	8.2
10.0 m		9.85	10.85	10.0	7.75
11.0 m		8.05	9.0	9.1	7.4
12.0 m		6.7	7.6	8.0	7.0
13.0 m		5.65	6.45	6.85	6.75
14.0 m			5.55	5.95	6.2
16.0 m			4.2	4.55	4.75
18.0 m			3.2	3.5	3.75
20.0 m			2.45	2.75	2.95
22.0 m				2.15	2.35
24.0 m				1.7	1.85
26.0 m				1.3	1.45
28.0 m					1.1
30.0 m					0.85
32.0 m					0.6
33.0 m					0.5
A (°)	0 to 84				
Standard hook block	35 ton hook block +25 ton hook block	35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)

[Boom]

Unit (t)

Outrigger middle extension (5.5 m) —side—					
Boom length Load radius	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m
2.3 m	48.0				
3.0 m	41.7	24.0	12.5	12.0	
3.5 m	38.8	24.0	12.5	12.0	8.2
4.0 m	36.3	24.0	12.5	12.0	8.2
4.5 m	33.9	24.0	12.5	12.0	8.2
5.0 m	31.65	24.0	12.5	12.0	8.2
5.5 m	25.25	22.95	12.5	12.0	8.2
6.0 m	20.8	20.4	12.5	12.0	8.2
6.5 m	17.6	17.15	12.5	12.0	8.2
7.0 m		14.7	12.5	12.0	8.2
8.0 m		11.15	12.25	12.0	8.2
9.0 m		8.75	9.75	10.2	8.2
10.0 m		7.05	7.95	8.4	7.75
11.0 m		5.75	6.6	7.0	7.25
12.0 m		4.7	5.55	5.95	6.15
13.0 m		3.9	4.65	5.05	5.3
14.0 m			3.95	4.35	4.55
16.0 m			2.9	3.25	3.45
18.0 m			2.1	2.45	2.65
20.0 m			1.5	1.8	2.0
22.0 m				1.3	1.5
24.0 m				0.95	1.1
26.0 m				0.6	0.8
28.0 m					0.5
A (°)	0 to 84				36 to 84
Standard hook block	35 ton hook block +25 ton hook block	35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)



[Boom]

Unit (t)

Outrigger middle extension (4.1 m) —side—					
Boom Load \ length	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m
2.3 m	48.0				
3.0 m	41.7	24.0	12.5	12.0	
3.5 m	38.8	24.0	12.5	12.0	8.2
4.0 m	28.7	24.0	12.5	12.0	8.2
4.5 m	22.1	21.75	12.5	12.0	8.2
5.0 m	17.75	17.4	12.5	12.0	8.2
5.5 m	14.65	14.3	12.5	12.0	8.2
6.0 m	12.35	12.0	12.5	12.0	8.2
6.5 m	10.6	10.25	11.3	11.8	8.2
7.0 m		8.8	9.85	10.3	8.2
8.0 m		6.7	7.6	8.1	8.2
9.0 m		5.2	6.05	6.5	6.75
10.0 m		4.05	4.9	5.3	5.5
11.0 m		3.2	3.95	4.35	4.6
12.0 m		2.5	3.25	3.6	3.85
13.0 m		1.95	2.65	3.0	3.25
14.0 m			2.15	2.5	2.7
16.0 m			1.4	1.75	1.95
18.0 m			0.8	1.15	1.35
20.0 m				0.7	0.85
22.0 m					0.5
A (°)	0 to 84			30 to- 84	46 to 84
Standard hook block	35 ton hook block +25 ton hook block	35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)

[Boom]

Unit (t)

Outrigger minimum extension (2.51 m) —side—					
Boom Load length radius	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m
2.3 m	39.1				
3.0 m	21.9	21.55	12.5	12.0	
3.5 m	16.2	15.9	12.5	12.0	8.2
4.0 m	12.6	12.3	12.5	12.0	8.2
4.5 m	10.1	9.8	10.95	11.5	8.2
5.0 m	8.25	8.0	9.05	9.55	8.2
5.5 m	6.85	6.6	7.6	8.05	8.2
6.0 m	5.8	5.5	6.45	6.9	7.15
6.5 m	4.9	4.6	5.5	5.95	6.2
7.0 m		3.85	4.75	5.15	5.4
8.0 m		2.75	3.55	3.95	4.2
9.0 m		1.9	2.65	3.05	3.25
10.0 m		1.2	2.0	2.35	2.55
11.0 m		0.65	1.45	1.8	2.0
12.0 m			1.0	1.35	1.55
13.0 m			0.6	1.0	1.2
14.0 m				0.7	0.85
A (°)	0 to 84	26 to 84	45 to 84	57 to 84	64 to 84
Standard hook block	35 ton hook block +25 ton hook block	35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)

[Jlb (37.0 m boom)]

Boom angle	Maximum outrigger extension (7.0 m) —360 degrees—																															
	37.0 m boom + 8.4 m jlb				37.0 m boom + 13.1 m jlb				37.0 m boom + 17.7 m jlb																							
	5°		25°		45°		60°		5°		25°		45°		60°																	
Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)																	
84	4.7	4.0	7.7	3.5	9.5	2.2	10.4	1.4	5.8	2.8	10.4	2.5	13.5	1.5	14.9	0.7	6.5	1.5	12.1	1.0	17.0	0.7	19.2	0.4								
80	8.0	4.0	10.9	3.5	12.7	2.2	13.4	1.4	9.5	2.8	14.0	2.3	16.8	1.4	17.9	0.7	10.5	1.4	16.2	0.95	20.4	0.65	22.2	0.4								
77	10.6	4.0	13.3	3.3	14.8	2.15	15.6	1.4	12.4	2.8	16.6	2.15	19.1	1.35	20.0	0.7	13.8	1.3	19.0	0.9	22.9	0.6	24.6	0.4								
74	13.2	3.55	15.5	2.9	17.1	2.1	17.6	1.4	15.2	2.8	19.2	2.0	21.4	1.3	22.2	0.7	16.7	1.2	21.7	0.85	25.4	0.6	26.7	0.4								
72	14.5	3.3	17.0	2.65	18.5	2.05	19.0	1.4	17.0	2.65	20.8	1.9	22.9	1.3	23.4	0.7	18.7	1.15	23.4	0.8	26.9	0.6	28.1	0.4								
70	16.1	3.05	18.4	2.45	19.8	2.0	20.3	1.4	18.6	2.4	22.4	1.8	24.3	1.25	24.8	0.7	20.6	1.1	25.2	0.8	28.4	0.55	29.4	0.4								
68	17.8	2.85	19.9	2.25	21.2	1.95	21.5	1.4	20.7	2.2	23.9	1.65	25.7	1.25	26.1	0.7	22.6	1.1	26.8	0.75	29.9	0.55	30.7	0.4								
65	19.8	2.5	21.9	2.0	23.1	1.8	23.3	1.4	22.8	1.9	26.1	1.45	27.7	1.2	27.9	0.7	25.3	1.05	29.3	0.7	32.0	0.55	32.5	0.4								
63	21.3	2.3	23.2	1.8	24.3	1.65	24.5	1.4	24.2	1.7	27.6	1.35	28.9	1.15	29.0	0.7	27.0	1.0	30.8	0.7	33.2	0.55	33.6	0.4								
60	23.2	1.8	25.1	1.5	26.0	1.4	26.2	1.4	26.4	1.4	29.5	1.1	30.7	1.0	30.7	0.7	29.6	1.0	33.0	0.65	35.0	0.5	35.4	0.4								
58	24.4	1.5	26.3	1.25	27.1	1.2			27.8	1.2	30.8	0.95	31.8	0.9			31.0	0.95	34.5	0.65	36.3	0.5										
55	26.2	1.05	27.9	0.9	28.6	0.85			29.6	0.85	32.4	0.65	33.4	0.6			33.1	0.7	36.4	0.5	38.0	0.45										
53	27.3	0.8	28.9	0.65	29.7	0.65			30.9	0.6							34.4	0.5														
51	28.4	0.6	30.0	0.45	30.6	0.45																										
A (°)							50 to 84										52 to 84							54 - 84		59 to 84						59 to 84

A: Boom angle range (without load)

Boom angle	Outrigger middle extension (6.6 m) —side—																														
	37.0 m boom + 8.4 m jlb				37.0 m boom + 13.1 m jlb				37.0 m boom + 17.7 m jlb																						
	5°		25°		45°		60°		5°		25°		45°		60°																
Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)																
84	4.7	4.0	7.7	3.5	9.5	2.2	10.4	1.4	5.8	2.8	10.4	2.5	13.5	1.5	14.9	0.7	6.5	1.5	12.1	1.0	17.0	0.7	19.2	0.4							
80	8.0	4.0	10.9	3.5	12.7	2.2	13.4	1.4	9.5	2.8	14.0	2.3	16.8	1.4	17.9	0.7	10.5	1.4	16.2	0.95	20.4	0.65	22.2	0.4							
77	10.6	4.0	13.3	3.3	14.8	2.15	15.6	1.4	12.4	2.8	16.6	2.15	19.1	1.35	20.0	0.7	13.8	1.3	19.0	0.9	22.9	0.6	24.6	0.4							
74	13.2	3.55	15.5	2.9	17.1	2.1	17.6	1.4	15.2	2.8	19.2	2.0	21.4	1.3	22.2	0.7	16.7	1.2	21.7	0.85	25.4	0.6	26.7	0.4							
72	14.5	3.3	17.0	2.65	18.5	2.05	19.0	1.4	17.0	2.65	20.8	1.9	22.9	1.3	23.4	0.7	18.7	1.15	23.4	0.8	26.9	0.6	28.1	0.4							
70	16.1	3.05	18.4	2.45	19.8	2.0	20.3	1.4	18.6	2.4	22.4	1.8	24.3	1.25	24.8	0.7	20.6	1.1	25.2	0.8	28.4	0.55	29.4	0.4							
68	17.8	2.85	19.9	2.25	21.2	1.95	21.5	1.4	20.7	2.2	23.9	1.65	25.7	1.25	26.1	0.7	22.6	1.1	26.8	0.75	29.9	0.55	30.7	0.4							
65	19.8	2.5	21.9	2.0	23.1	1.8	23.3	1.4	22.8	1.9	26.1	1.45	27.7	1.2	27.9	0.7	25.3	1.05	29.3	0.7	32.0	0.55	32.5	0.4							
63	21.3	2.3	23.2	1.8	24.3	1.65	24.5	1.4	24.2	1.7	27.6	1.35	28.9	1.15	29.0	0.7	27.0	1.0	30.8	0.7	33.2	0.55	33.6	0.4							
60	23.2	1.8	25.1	1.5	26.0	1.4	26.2	1.4	26.4	1.4	29.5	1.1	30.7	1.0	30.7	0.7	29.6	1.0	33.0	0.65	35.0	0.5	35.4	0.4							
58	24.4	1.5	26.3	1.25	27.1	1.2			27.8	1.2	30.8	0.95	31.8	0.9			31.0	0.95	34.5	0.65	36.3	0.5									
55	26.2	1.05	27.9	0.9	28.6	0.85			29.6	0.85	32.4	0.65	33.4	0.6			33.1	0.7	36.4	0.5	38.0	0.45									
53	27.3	0.8	28.9	0.65	29.7	0.65			30.9	0.6							34.4	0.5													
51	28.4	0.6	30.0	0.45	30.6	0.45																									
A (°)							52 to 84										54 to 84								57 to 84						59 to 84

A: Boom angle range (without load)

**[Jib (37.0 m boom)]**

Boom angle	Outrigger middle extension (5.5 m) —side—																																															
	37.0 m boom + 8.4 m jib						37.0 m boom + 13.1 m jib						37.0 m boom + 17.7 m jib																																			
	5°		25°		45°		60°		5°		25°		45°		60°		5°		25°		45°		60°																									
Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)																									
84	4.7	4.0	7.7	3.5	9.5	2.2	10.4	1.4	5.8	2.8	2.5	13.5	1.5	14.9	0.7	6.5	1.5	12.1	1.0	17.0	0.7	19.2	0.4																									
80	8.0	4.0	10.9	3.5	12.7	2.2	13.4	1.4	9.5	2.8	2.3	16.8	1.4	17.9	0.7	10.5	1.4	16.2	0.95	20.4	0.65	22.2	0.4																									
77	10.6	4.0	13.3	3.3	14.8	2.15	15.6	1.4	12.4	2.8	2.15	19.1	1.35	20.0	0.7	13.8	1.3	19.0	0.9	22.9	0.6	24.6	0.4																									
74	13.2	3.55	15.5	2.9	17.1	2.1	17.6	1.4	15.2	2.8	1.92	21.4	1.3	22.2	0.7	16.7	1.2	21.7	0.85	25.4	0.6	26.7	0.4																									
72	14.4	2.95	16.9	2.4	18.5	2.05	19.0	1.4	17.0	2.45	2.08	1.9	22.9	1.3	23.4	0.7	18.7	1.15	23.4	0.8	26.9	0.6	28.1	0.4																								
70	15.8	2.4	18.2	1.95	19.7	1.8	20.3	1.4	18.7	2.0	2.22	1.5	24.3	1.25	24.8	0.7	20.6	1.1	25.2	0.8	28.4	0.55	29.4	0.4																								
68	17.2	1.9	19.6	1.6	21.0	1.45	21.5	1.4	20.2	1.6	2.36	1.25	25.7	1.1	26.1	0.7	22.6	1.1	26.8	0.75	29.9	0.55	30.7	0.4																								
65	19.3	1.4	21.6	1.15	22.8	1.05	23.2	1.05	22.3	1.1	25.8	0.85	27.5	0.75	27.9	0.65	25.3	0.95	29.3	0.7	32.0	0.55	32.5	0.4																								
63	20.8	1.1	22.8	0.9	24.1	0.85	24.3	0.8	23.8	0.9	27.0	0.65	28.6	0.6	28.9	0.6	26.6	0.75	30.7	0.5	33.1	0.4																										
60	22.6	0.65	24.7	0.5	25.7	0.45	25.9	0.45	25.8	0.5																																						
A (°)	59 to 84												62 to 84												62 to 84												64 to 84											

A. Boom angle range (without load)

Boom angle	Outrigger middle extension (4.1 m) —side—																																			
	37.0 m boom + 8.4 m jib						37.0 m boom + 13.1 m jib						37.0 m boom + 17.7 m jib																							
	5°		25°		45°		60°		5°		25°		45°		60°		5°		25°		45°		60°													
Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)													
84	4.7	4.0	7.7	3.5	9.5	2.2	10.4	1.4	5.8	2.8	2.5	13.5	1.5	14.9	0.7	6.5	1.5	12.1	1.0	17.0	0.7	19.2	0.4													
80	8.0	4.0	10.9	3.5	12.7	2.2	13.4	1.4	9.5	2.8	2.3	16.8	1.4	17.9	0.7	10.5	1.4	16.2	0.95	20.4	0.65	22.2	0.4													
77	10.3	3.1	13.0	2.4	14.8	2.05	15.6	1.4	12.4	2.5	1.64	1.8	19.1	1.35	20.0	0.7	13.8	1.3	19.0	0.9	22.9	0.6	24.6	0.4												
74	12.6	2.05	15.0	1.6	16.8	1.4	17.6	1.35	14.8	1.65	1.88	1.2	21.1	1.0	22.2	0.7	16.7	1.2	21.7	0.85	25.4	0.6	26.7	0.4												
72	13.9	1.5	16.4	1.2	18.1	1.05	18.8	1.05	16.3	1.25	2.02	0.9	22.6	0.75	23.4	0.7	18.6	1.05	23.4	0.7	26.9	0.55	28.1	0.4												
70	15.4	1.1	17.8	0.9	19.3	0.75	20.0	0.75	18.0	0.9	21.7	0.65	23.9	0.55	24.6	0.55	20.3	0.75	25.0	0.5	28.4	0.4														
68	16.7	0.8	19.1	0.6	20.5	0.55	21.2	0.5	19.4	0.6																										
A (°)	67 to 84						69 to 84						67 to 84						69 to 84						69 to 84						71 to 84					

A. Boom angle range (without load)

[ Jib (30.2 m boom)]

Boom angle		Maximum outrigger extension (7.0 m) —360 degrees—																																		
		30.2 m boom + 13.1 m jib										30.2 m boom + 17.7 m jib																								
		Offset				Offset				Offset				Offset				Offset				Offset														
		5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°															
84	3.5	4.0	6.4	3.5	8.4	2.2	9.4	1.4	4.5	2.8	9.2	2.5	12.4	1.5	13.9	0.7	5.3	1.5	11.2	1.0	15.9	0.7	18.1	0.4												
80	6.3	4.0	9.1	3.5	10.9	2.2	11.8	1.4	7.6	2.8	12.2	2.3	15.2	1.4	16.4	0.7	8.9	1.4	14.5	0.95	18.9	0.65	20.8	0.4												
77	8.4	4.0	11.0	3.3	12.8	2.15	13.6	1.4	10.1	2.8	14.3	2.15	17.1	1.35	18.1	0.7	11.5	1.3	16.8	0.9	20.9	0.6	22.6	0.4												
74	10.4	4.0	12.9	3.15	14.6	2.1	15.2	1.4	12.4	2.8	16.4	2.0	19.1	1.3	19.9	0.7	14.1	1.2	19.1	0.85	22.9	0.6	24.3	0.4												
72	11.7	3.65	14.2	2.9	15.7	2.05	16.4	1.4	14.0	2.7	17.9	1.9	20.2	1.3	20.9	0.7	15.8	1.15	20.7	0.8	24.2	0.6	25.5	0.4												
70	13.0	3.3	15.3	2.7	16.8	2.0	17.4	1.4	15.5	2.6	19.2	1.8	21.5	1.25	22.0	0.7	17.3	1.1	22.1	0.8	25.5	0.55	26.6	0.4												
68	14.3	3.05	16.5	2.5	17.9	2.0	18.4	1.4	17.0	2.4	20.5	1.75	22.6	1.25	23.0	0.7	19.0	1.1	23.5	0.75	26.7	0.55	27.7	0.4												
65	16.1	2.7	18.2	2.25	19.6	1.95	19.9	1.4	19.0	2.1	22.4	1.65	24.2	1.2	24.5	0.7	21.3	1.05	25.6	0.7	28.4	0.55	29.2	0.4												
63	17.3	2.5	19.5	2.1	20.6	1.9	20.8	1.4	20.3	1.9	23.7	1.55	25.3	1.15	25.5	0.7	22.8	1.0	26.9	0.7	29.6	0.55	30.1	0.4												
60	19.1	2.2	21.0	1.9	22.1	1.8	22.2	1.4	22.2	1.7	25.3	1.4	26.8	1.15	26.9	0.7	25.0	1.0	28.8	0.65	31.1	0.5	31.4	0.4												
58	20.2	2.05	22.1	1.8	23.0	1.7			23.4	1.55	26.5	1.3	27.9	1.15			26.4	0.95	30.0	0.65	32.1	0.5														
55	21.9	1.85	23.6	1.65	24.4	1.55			25.1	1.4	28.0	1.2	29.1	1.1			28.4	0.9	31.8	0.6	33.6	0.5														
53	22.9	1.65	24.5	1.55	25.2	1.5			26.3	1.3	29.0	1.15	30.0	1.1			29.7	0.85	32.9	0.6	34.4	0.5														
51	23.8	1.5	25.4	1.4	26.1	1.4			27.3	1.2	30.0	1.1	30.8	1.0			30.9	0.8	33.9	0.6	35.3	0.5														
49	24.7	1.3	26.3	1.25	26.8	1.2			28.4	1.1	30.9	1.0	31.6	0.9			32.0	0.75	34.9	0.55																
46	26.1	1.1	27.5	0.95	27.9	0.95			29.9	0.85	32.1	0.75	32.7	0.7			33.7	0.65																		
45	26.5	1.0	27.9	0.9	28.2	0.85			30.3	0.8	32.6	0.7	33.0	0.6																						
43	27.4	0.8	28.6	0.7					31.3	0.6	33.4	0.55																								
41	28.1	0.6																																		
A (°)	40 to 84				42 to 84				44 to 84				42 to 84				44 to 84				45 to 84				48 to 84				50 to 84				59 to 84			

Boom angle		Outrigger middle extension (6.6 m) —side—																										
		30.2 m boom + 13.1 m jib										30.2 m boom + 17.7 m jib																
		Offset				Offset				Offset				Offset				Offset				Offset						
		5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°							
84	3.5	4.0	6.4	3.5	8.4	2.2	9.4	1.4	4.5	2.8	9.2	2.5	12.4	1.5	13.9	0.7	5.3	1.5	11.2	1.0	15.9	0.7	18.1	0.4				
80	6.3	4.0	9.1	3.5	10.9	2.2	11.8	1.4	7.6	2.8	12.2	2.3	15.2	1.4	16.4	0.7	8.9	1.4	14.5	0.95	18.9	0.65	20.8	0.4				
77	8.4	4.0	11.0	3.3	12.8	2.15	13.6	1.4	10.1	2.8	14.3	2.15	17.1	1.35	18.1	0.7	11.5	1.3	16.8	0.9	20.9	0.6	22.6	0.4				
74	10.4	4.0	12.9	3.15	14.6	2.1	15.2	1.4	12.4	2.8	16.4	2.0	19.1	1.3	19.9	0.7	14.1	1.2	19.1	0.85	22.9	0.6	24.3	0.4				
72	11.7	3.65	14.2	2.9	15.7	2.05	16.4	1.4	14.0	2.7	17.9	1.9	20.2	1.3	20.9	0.7	15.8	1.15	20.7	0.8	24.2	0.6	25.5	0.4				
70	13.0	3.3	15.3	2.7	16.8	2.0	17.4	1.4	15.5	2.6	19.2	1.8	21.5	1.25	22.0	0.7	17.3	1.1	22.1	0.8	25.5	0.55	26.6	0.4				
68	14.3	3.05	16.5	2.5	17.9	2.0	18.4	1.4	17.0	2.4	20.5	1.75	22.6	1.25	23.0	0.7	19.0	1.1	23.5	0.75	26.7	0.55	27.7	0.4				
65	16.1	2.7	18.2	2.25	19.6	1.95	19.9	1.4	19.0	2.1	22.4	1.65	24.2	1.2	24.5	0.7	21.3	1.05	25.6	0.7	28.4	0.55	29.2	0.4				
63	17.3	2.5	19.5	2.1	20.6	1.9	20.8	1.4	20.3	1.9	23.7	1.55	25.3	1.15	25.5	0.7	22.8	1.0	26.9	0.7	29.6	0.55	30.1	0.4				
60	19.1	2.2	21.0	1.9	22.1	1.8	22.2	1.4	22.2	1.7	25.3	1.4	26.8	1.15	26.9	0.7	25.0	1.0	28.8	0.65	31.1	0.5	31.4	0.4				
58	20.2	2.05	22.1	1.8	23.0	1.7			23.4	1.55	26.5	1.3	27.9	1.15			26.4	0.95	30.0	0.65	32.1	0.5						
55	21.9	1.85	23.6	1.65	24.4	1.55			25.1	1.4	28.0	1.2	29.1	1.1			28.4	0.9	31.8	0.6	33.6	0.5						
53	22.9	1.65	24.5	1.55	25.2	1.5			26.3	1.3	29.0	1.15	30.0	1.1			29.7	0.85	32.9	0.6	34.4	0.5						
51	23.8	1.5	25.4	1.4	26.1	1.4			27.3	1.2	30.0	1.1	30.8	1.0			30.9	0.8	33.9	0.6	35.3	0.5						
49	24.7	1.3	26.3	1.25	26.8	1.2			28.4	1.1	30.9	1.0	31.6	0.9			32.0	0.75	34.9	0.55								
46	26.1	1.1	27.5	0.95	27.9	0.95			29.9	0.85	32.1	0.75	32.7	0.7			33.7	0.65										
45	26.5	1.0	27.9	0.9	28.2	0.85			30.3	0.8	32.6	0.7	33.0	0.6														
43	27.4	0.8	28.6	0.7					31.3	0.6	33.4	0.55																
41	28.1	0.6																										
A (°)	42 to 84				44 to 84				44 to 84				45 to 84				48 to 84				50 to 84				59 to 84			

[Jib (30.2 m boom)]

Boom angle	Outrigger middle extension (5.5 m) —side—																													
	30.2 m boom + 8.4 m jib				30.2 m boom + 13.1 m jib				30.2 m boom + 17.7 m jib																					
	Offset			Offset			Offset			Offset																				
	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°																		
84	3.5	4.0	3.5	8.4	2.2	6.4	9.4	1.4	4.5	2.8	9.2	1.5	13.9	0.7	5.3	1.5	11.2	1.0	15.9	0.7	18.1	0.4								
80	6.3	4.0	3.5	10.9	2.2	9.1	11.8	1.4	7.6	2.8	12.2	2.3	15.2	1.4	8.9	1.4	14.5	0.95	18.9	0.65	20.8	0.4								
77	8.4	4.0	3.3	12.8	2.15	13.6	1.4	10.1	10.1	2.8	14.3	2.15	17.1	1.35	11.5	1.3	16.8	0.9	20.9	0.6	22.6	0.4								
74	10.4	4.0	3.15	14.6	2.1	15.2	1.4	12.4	12.4	2.8	16.4	2.0	19.1	1.3	14.1	1.2	19.1	0.85	22.9	0.6	24.3	0.4								
72	11.7	3.65	2.9	15.7	2.05	16.4	1.4	14.0	14.0	2.7	17.9	1.9	20.2	1.3	15.8	1.15	20.7	0.8	24.2	0.6	25.5	0.4								
70	13.0	3.3	2.7	16.8	2.0	17.4	1.4	15.5	15.5	2.6	19.2	1.8	21.5	1.25	17.3	1.1	22.1	0.8	25.5	0.55	26.6	0.4								
68	14.3	3.05	2.5	17.9	2.0	18.4	1.4	17.0	17.0	2.4	20.5	1.75	22.6	1.25	19.0	1.1	23.5	0.75	26.7	0.55	27.7	0.4								
65	16.1	2.7	1.82	19.6	1.95	19.9	1.4	19.0	19.0	2.1	22.4	1.65	24.2	1.2	21.3	1.05	25.6	0.7	28.4	0.55	29.2	0.4								
63	17.3	2.25	1.9	20.6	1.75	20.8	1.4	20.3	20.3	1.85	23.7	1.5	25.3	1.15	22.8	1.0	26.9	0.7	29.6	0.55	30.1	0.4								
60	19.0	1.7	1.45	22.0	1.35	22.2	1.4	22.1	22.1	1.4	25.2	1.1	26.8	1.0	25.0	1.0	28.8	0.65	31.1	0.5										
58	20.0	1.45	1.2	22.8	1.15			23.2	23.2	1.15	26.2	0.9	27.7	0.85	26.4	0.95	30.0	0.65	32.1	0.5										
55	21.3	1.05	0.9	24.2	0.85			25.0	25.0	0.85	27.8	0.65	29.0	0.55	28.1	0.65	31.6	0.45												
53	22.5	0.8	0.65	25.0	0.6			26.0	26.0	0.65	28.7	0.45	29.8	0.4	29.3	0.45														
51	23.5	0.55	0.45	25.8	0.4			27.0	27.0	0.4																				
49	24.5	0.4																												
A (°)	48 to 84			50 to 84			59 to 84			50 to 84			52 to 84			62 to 84			52 to 84			54 to 84			57 to 84			62 to 84		

A: Boom angle range (without load)

Boom angle	Outrigger middle extension (4.1 m) —side—																													
	30.2 m boom + 8.4 m jib				30.2 m boom + 13.1 m jib				30.2 m boom + 17.7 m jib																					
	Offset			Offset			Offset			Offset																				
	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°																		
84	3.5	4.0	3.5	8.4	2.2	6.4	9.4	1.4	4.5	2.8	9.2	1.5	13.9	0.7	5.3	1.5	11.2	1.0	15.9	0.7	18.1	0.4								
80	6.3	4.0	3.5	10.9	2.2	9.1	11.8	1.4	7.6	2.8	12.2	2.3	15.2	1.4	8.9	1.4	14.5	0.95	18.9	0.65	20.8	0.4								
77	8.4	4.0	3.3	12.8	2.15	13.6	1.4	10.1	10.1	2.8	14.3	2.15	17.1	1.35	11.5	1.3	16.8	0.9	20.9	0.6	22.6	0.4								
74	10.4	3.9	2.9	14.6	2.1	15.2	1.4	12.4	12.4	2.8	16.4	2.0	19.1	1.3	14.1	1.2	19.1	0.85	22.9	0.6	24.3	0.4								
72	11.5	3.1	2.4	15.7	2.05	16.4	1.4	13.9	13.9	2.5	17.8	1.8	20.2	1.3	15.8	1.15	20.7	0.8	24.2	0.6	25.5	0.4								
70	12.9	2.5	1.9	16.8	1.7	17.4	1.4	15.3	15.3	1.95	19.0	1.45	21.4	1.2	17.3	1.1	22.1	0.8	25.5	0.55										
68	14.0	2.0	1.55	17.8	1.4	18.4	1.3	16.6	16.6	1.6	20.2	1.15	22.5	1.0	19.0	1.1	23.5	0.75	26.7	0.55										
65	15.8	1.3	1.1	19.3	0.95	19.7	0.9	18.5	18.5	1.0	22.1	0.75	24.1	0.65	21.1	0.85	25.4	0.55	26.3	0.4										
63	17.0	1.0	0.8	20.3	0.7	20.7	0.65	19.9	19.9	0.75	23.3	0.5	25.0	0.4	22.5	0.6														
60	18.7	0.6	0.4					21.5	21.5	0.4																				
A (°)	59 to 84			62 to 84			62 to 84			59 to 84			62 to 84			62 to 84			62 to 84			64 to 84			64 to 84			71 to 84		

A: Boom angle range (without load)

**2-(2) When using outriggers front special capacity**

[Boom]  
- Front -

Unit (t)

Load radius \ Boom length	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m
2.3 m	50.0				
3.0 m	41.7	24.0	12.5	12.0	
3.5 m	38.8	24.0	12.5	12.0	8.2
4.0 m	36.3	24.0	12.5	12.0	8.2
4.5 m	33.9	24.0	12.5	12.0	8.2
5.0 m	31.7	24.0	12.5	12.0	8.2
5.5 m	29.4	22.95	12.5	12.0	8.2
6.0 m	26.9	21.5	12.5	12.0	8.2
6.5 m	23.3	20.2	12.5	12.0	8.2
7.0 m		19.0	12.5	12.0	8.2
8.0 m		17.0	12.5	12.0	8.2
9.0 m		14.5	12.5	11.0	8.2
10.0 m		11.95	11.75	10.0	7.75
11.0 m		10.05	10.75	9.1	7.4
12.0 m		8.5	9.25	8.4	7.0
13.0 m		7.25	8.0	7.75	6.75
14.0 m			7.0	7.15	6.35
16.0 m			5.4	5.8	5.45
18.0 m			4.2	4.6	4.75
20.0 m			3.3	3.7	3.95
22.0 m				2.95	3.2
24.0 m				2.4	2.6
26.0 m				1.9	2.1
28.0 m					1.7
30.0 m					1.35
32.0 m					1.1
33.0 m					1.0
A (°)	0 to 84				
Standard hook block	35 ton hook block+25 ton hook block	35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)

[Jib (37.0 m boom)]  
- Front -

Boom angle	37.0 m boom + 8.4 m jib												37.0 m boom + 13.1 m jib												37.0 m boom + 17.7 m jib																											
	5°				25°				45°				60°				5°				25°				45°				60°																							
	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)																								
84	4.7	4.0	7.7	3.5	9.5	2.2	10.4	1.4	5.8	2.8	10.4	2.5	13.5	1.5	14.9	0.7	6.5	10.5	1.5	12.1	1.0	17.0	0.7	19.2	0.4	4.7	4.0	7.7	3.5	9.5	2.2	10.4	1.4	5.8	2.8	10.4	2.5	13.5	1.5	14.9	0.7	6.5	10.5	1.5	12.1	1.0	17.0	0.7	19.2	0.4		
80	8.0	4.0	10.9	3.5	12.7	2.2	13.4	1.4	9.5	2.8	14.0	2.3	16.8	1.4	17.9	0.7	13.8	13.8	1.3	19.0	0.9	22.9	0.6	24.6	0.4	8.0	4.0	10.9	3.5	12.7	2.2	13.4	1.4	9.5	2.8	14.0	2.3	16.8	1.4	17.9	0.7	13.8	13.8	1.3	19.0	0.9	22.9	0.6	24.6	0.4		
77	10.6	4.0	13.3	3.3	14.8	2.15	15.6	1.4	12.4	2.8	16.6	2.15	19.1	1.35	20.0	0.7	16.7	16.7	1.2	21.7	0.85	25.4	0.6	26.7	0.4	10.6	4.0	13.3	3.3	14.8	2.15	15.6	1.4	12.4	2.8	16.6	2.15	19.1	1.35	20.0	0.7	16.7	16.7	1.2	21.7	0.85	25.4	0.6	26.7	0.4		
74	13.2	3.55	15.5	2.9	17.1	2.1	17.6	1.4	15.2	2.8	19.2	2.0	21.4	1.3	22.2	0.7	18.7	18.7	1.15	23.4	0.8	26.9	0.6	28.1	0.4	13.2	3.55	15.5	2.9	17.1	2.1	17.6	1.4	15.2	2.8	19.2	2.0	21.4	1.3	22.2	0.7	18.7	18.7	1.15	23.4	0.8	26.9	0.6	28.1	0.4		
72	14.5	3.3	17.0	2.85	18.5	2.05	19.0	1.4	17.0	2.65	20.8	1.9	22.9	1.3	23.4	0.7	20.6	20.6	1.1	25.2	0.8	28.4	0.6	29.4	0.4	14.5	3.3	17.0	2.85	18.5	2.05	19.0	1.4	17.0	2.65	20.8	1.9	22.9	1.3	23.4	0.7	20.6	20.6	1.1	25.2	0.8	28.4	0.6	29.4	0.4		
70	16.1	3.05	18.4	2.45	19.8	2.0	20.3	1.4	18.6	2.4	22.4	1.8	24.3	1.25	24.8	0.7	22.6	22.6	1.1	26.8	0.75	29.9	0.55	30.7	0.4	16.1	3.05	18.4	2.45	19.8	2.0	20.3	1.4	18.6	2.4	22.4	1.8	24.3	1.25	24.8	0.7	22.6	22.6	1.1	26.8	0.75	29.9	0.55	30.7	0.4		
68	17.8	2.85	19.9	2.25	21.2	1.95	21.5	1.4	20.7	2.2	23.9	1.65	25.7	1.25	26.1	0.7	24.6	24.6	1.1	28.8	0.7	32.0	0.55	32.5	0.4	17.8	2.85	19.9	2.25	21.2	1.95	21.5	1.4	20.7	2.2	23.9	1.65	25.7	1.25	26.1	0.7	24.6	24.6	1.1	28.8	0.7	32.0	0.55	32.5	0.4		
65	19.8	2.5	21.9	2.0	23.1	1.8	23.3	1.4	22.8	1.9	26.1	1.45	27.7	1.2	27.9	0.7	25.3	25.3	1.05	29.3	0.7	33.2	0.55	33.6	0.4	19.8	2.5	21.9	2.0	23.1	1.8	23.3	1.4	22.8	1.9	26.1	1.45	27.7	1.2	27.9	0.7	25.3	25.3	1.05	29.3	0.7	33.2	0.55	33.6	0.4		
63	21.3	2.3	23.2	1.8	24.3	1.65	24.5	1.4	24.2	1.7	27.6	1.35	28.9	1.15	29.0	0.7	27.0	27.0	1.0	30.8	0.7	35.0	0.5	35.4	0.4	21.3	2.3	23.2	1.8	24.3	1.65	24.5	1.4	24.2	1.7	27.6	1.35	28.9	1.15	29.0	0.7	27.0	27.0	1.0	30.8	0.7	35.0	0.5	35.4	0.4		
60	23.3	2.0	25.2	1.65	26.0	1.5	26.2	1.4	26.4	1.5	29.5	1.2	30.8	1.1	30.7	0.7	29.6	29.6	1.0	33.0	0.65	35.0	0.5	35.4	0.4	23.3	2.0	25.2	1.65	26.0	1.5	26.2	1.4	26.4	1.5	29.5	1.2	30.8	1.1	30.7	0.7	29.6	29.6	1.0	33.0	0.65	35.0	0.5	35.4	0.4		
58	24.6	1.8	26.4	1.55	27.2	1.4	27.2	1.4	27.9	1.4	30.9	1.15	31.9	1.0	31.0	0.95	34.5	34.5	0.65	36.3	0.5	36.3	0.5	36.3	0.5	24.6	1.8	26.4	1.55	27.2	1.4	27.2	1.4	27.9	1.4	30.9	1.15	31.9	1.0	31.0	0.95	34.5	34.5	0.65	36.3	0.5	36.3	0.5	36.3	0.5		
55	26.3	1.35	28.0	1.15	28.6	1.05	28.6	1.05	29.8	1.1	32.6	0.9	33.5	0.8	33.3	0.85	36.4	36.4	0.6	38.0	0.5	38.0	0.5	38.0	0.5	26.3	1.35	28.0	1.15	28.6	1.05	28.6	1.05	29.8	1.1	32.6	0.9	33.5	0.8	33.3	0.85	36.4	36.4	0.6	38.0	0.5	38.0	0.5	38.0	0.5		
53	27.4	1.1	29.1	0.95	29.7	0.85	29.7	0.85	31.0	0.85	33.7	0.7	34.6	0.6	34.7	0.7	37.7	37.7	0.5	39.0	0.45	39.0	0.45	39.0	0.45	27.4	1.1	29.1	0.95	29.7	0.85	29.7	0.85	31.0	0.85	33.7	0.7	34.6	0.6	34.7	0.7	37.7	37.7	0.5	39.0	0.45	39.0	0.45	39.0	0.45		
51	28.4	0.85	30.2	0.75	30.7	0.7	30.7	0.7	32.3	0.65	34.8	0.55	35.5	0.45	36.0	0.5	36.0	0.5	36.0	0.5	36.0	0.5	36.0	0.5	36.0	0.5	28.4	0.85	30.2	0.75	30.7	0.7	30.7	0.7	32.3	0.65	34.8	0.55	35.5	0.45	36.0	0.5	36.0	0.5	36.0	0.5	36.0	0.5	36.0	0.5	36.0	0.5
49	29.5	0.65	31.1	0.55	31.5	0.5	31.5	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	29.5	0.65	31.1	0.55	31.5	0.5	31.5	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5	33.4	0.5		
46	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4	31.1	0.4
A (°)	45 to 84				48 to 84				59 to 84				48 to 84				50 to 84				59 to 84				50 to 84				52 to 84				59 to 84																			

A: Boom angle range (without load)



[Jib (30.2 m boom)]  
—Front—

Boom angle	30.2 m boom + 8.4 m jib												30.2 m boom + 13.1 m jib												30.2 m boom + 17.7 m jib											
	5°				25°				45°				60°				5°				25°				45°				60°							
	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)	Load radius (m)	Rated lifting capacity (t)						
84	3.5	4.0	6.4	3.5	8.4	2.2	9.4	1.4	4.5	2.8	9.2	2.5	12.4	1.5	13.9	0.7	5.3	1.5	11.2	1.0	15.9	0.7	18.1	0.4												
80	6.3	4.0	9.1	3.5	10.9	2.2	11.8	1.4	7.6	2.8	12.2	2.3	15.2	1.4	16.4	0.7	8.9	1.4	14.5	0.95	18.9	0.65	20.8	0.4												
77	8.4	4.0	11.0	3.3	12.8	2.15	13.6	1.4	10.1	2.8	14.3	2.15	17.1	1.35	18.1	0.7	11.5	1.3	16.8	0.9	20.9	0.6	22.6	0.4												
74	10.4	4.0	12.9	3.15	14.6	2.1	15.2	1.4	12.4	2.8	16.4	2.0	19.1	1.3	19.9	0.7	14.1	1.2	19.1	0.85	22.9	0.6	24.3	0.4												
72	11.7	3.65	14.2	2.9	15.7	2.05	16.4	1.4	14.0	2.7	17.9	1.9	20.2	1.3	20.9	0.7	15.8	1.15	20.7	0.8	24.2	0.6	25.5	0.4												
70	13.0	3.3	15.3	2.7	16.8	2.0	17.4	1.4	15.5	2.6	19.2	1.8	21.5	1.25	22.0	0.7	17.3	1.1	22.1	0.8	25.5	0.6	26.6	0.4												
68	14.3	3.05	16.5	2.5	17.9	2.0	18.4	1.4	17.0	2.4	20.5	1.75	22.6	1.25	23.0	0.7	19.0	1.1	23.5	0.75	26.7	0.55	27.7	0.4												
65	16.1	2.7	18.2	2.25	19.6	1.95	19.9	1.4	19.0	2.1	22.4	1.65	24.2	1.2	24.5	0.7	21.3	1.05	25.6	0.7	28.4	0.55	29.2	0.4												
63	17.3	2.5	19.5	2.1	20.6	1.9	20.8	1.4	20.3	1.9	23.7	1.55	25.3	1.15	25.5	0.7	22.8	1.0	26.9	0.7	29.6	0.55	30.1	0.4												
60	19.1	2.2	21.0	1.9	22.1	1.8	22.2	1.4	22.2	1.7	25.3	1.4	26.8	1.15	26.9	0.7	25.0	1.0	28.8	0.65	31.1	0.5	31.4	0.4												
58	20.2	2.05	22.1	1.8	23.0	1.7			23.4	1.55	26.5	1.3	27.9	1.15			26.4	0.95	30.0	0.65	32.1	0.5														
55	21.9	1.85	23.6	1.65	24.4	1.55			25.1	1.4	28.0	1.2	29.1	1.1			28.4	0.9	31.8	0.6	33.6	0.5														
53	22.9	1.65	24.5	1.55	25.2	1.5			26.3	1.3	29.0	1.15	30.0	1.1			29.7	0.85	32.9	0.6	34.4	0.5														
51	23.8	1.5	25.4	1.4	26.1	1.4			27.3	1.2	30.0	1.1	30.8	1.05			30.9	0.8	33.9	0.6	35.3	0.5														
49	24.8	1.35	26.4	1.3	26.8	1.3			28.4	1.1	30.9	1.0	31.6	1.0			32.0	0.75	34.9	0.55	36.1	0.5														
46	26.1	1.2	27.6	1.15	28.0	1.15			30.0	1.0	32.2	0.9	32.7	0.9			33.7	0.7	36.4	0.5																
45	26.7	1.15	28.0	1.1	28.3	1.1			30.4	0.95	32.6	0.85	33.1	0.8			34.3	0.7	36.8	0.45																
43	27.4	1.0	28.7	1.0					31.4	0.8	33.4	0.7					35.3	0.65																		
41	28.3	0.9	29.4	0.85					32.3	0.7	34.2	0.6					36.3	0.55																		
39	29.0	0.75	30.1	0.7					33.1	0.6	34.9	0.5																								
A (°)			38 to 84		44 to 84		59 to 84		38 to 84		44 to 84		59 to 84		40 to 84		44 to 84		44 to 84		48 to 84		59 to 84													

A: Boom angle range (without load)

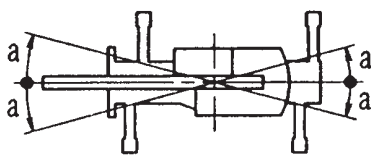
Precautions when using outriggers

1. The rated lifting capacities are shown for when the crane is set horizontally on firm ground, and include the weight of the lifting devices and main winch hook block (35 t hook block: 340 kg, 25 t hook block: 330 kg) when working with the boom, and the weight of the lifting devices and auxiliary winch hook block (100 kg) when working with the jib.  
The values above the bold line are based on the structural strength while those below are based on the crane stability factor.
2. The load radius is based on the actual figure including the boom deflection, so always use the load radius as the standard when working with the boom.
3. Jib rated lifting capacity table differs depending on whether or not boom length exceeds 30.2 m.
4. When performing jib lifting, use boom angle as the standard. Additionally, load radius displays reference values for when the jib is attached to a 30.2 m boom and a 37.0 m boom.
5. The rated lifting capacity for the single top is the value obtained by subtracting the subtraction load (240 kg when suspending a 35 ton hook block, 230 kg when suspending a 25 ton hook) from the boom rated lifting capacity, and includes the weight of the lifting devices and auxiliary winch hook block (100 kg), and must not exceed 5.0 t.
6. High-speed hoist down should only be used when only the hook block is being lowered. Also, sudden lever operations should be avoided.
7. The standard number of parts of line on the hook block for each boom length are as shown in the chart below.

However, when using other number of parts of line, the load per line must not exceed 4.29 t for main winch wire rope or 5.0 t for auxiliary winch wire rope.

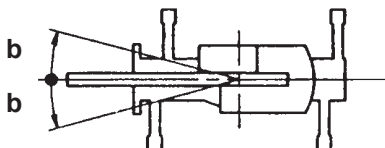
Boom length	9.6 m	16.5 m	23.3 m	30.2 m	37.0 m	Jib/single top
Number of parts of line	6 × 2	6	4	4	4	1

8. When using the jib, the wire rope number of parts of line should be 1.
9. The lifting capacity in the over-side area depends on the extension width of the outriggers. Perform work within the capacity according to the extension width.  
The lifting capacity for the over-front and over-rear areas is the rated lifting capacity of the "maximum outriggers extension," but the range (angle a) in the over-front and over-rear areas depends on outrigger extension width in use.



Extension width	Middle extension (6.6 m)	Middle extension (5.5 m)	Middle extension (4.1 m)	Minimum extension (2.51 m)
Angle a°	45	35	25	15

10. Front special capacity can be enabled when using a combination of maximum front outrigger extensions (7.0 m) and medium rear outrigger extension (5.5 m).  
The over-front range (angle b) when using front special capacity is 45°.  
Additionally, the over-side/over-rear lifting capability will be the standard capacity corresponding to the extension width of the outriggers.



## 2-(3) When on-rubber

Unit (t)

Boom length	When stopped				When travelling (1.6 km/h or less)			
	9.6 m boom		16.5 m boom		9.6 m boom		16.5 m boom	
Load radius	Front	Entire circumference	Front	Entire circumference	Front	Entire circumference	Front	Entire circumference
3.0 m	6.35		6.2		5.25		5.15	
3.5 m	5.55	3.6	5.4	3.4	4.6	3.0	4.5	2.8
4.0 m	4.9	2.85	4.75	2.65	4.05	2.35	3.9	2.15
4.5 m	4.3	2.2	4.15	2.0	3.55	1.8	3.4	1.65
5.0 m	3.8	1.7	3.65	1.45	3.1	1.35	3.0	1.2
5.5 m	3.35	1.25	3.15	1.0	2.75	1.0	2.6	0.8
6.0 m	2.95	0.85	2.75	0.65	2.4	0.7	2.25	0.5
6.5 m	2.6	0.55	2.4		2.1		1.95	
7.0 m			2.05					
A(°)	0 to 84	12 to 59	55 to 84	60 to 73	0 to 84	23 to 59	58 to 84	60 to 73
Standard hook block	35 ton hook block or 25 ton hook block				35 ton hook block or 25 ton hook block			

A: Boom angle range (without load)

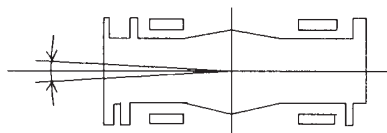
### Precautions when on-rubber

- The rated lifting capacities assume that the crane is set horizontally on firm ground, the tires are at the standard pressure (900 kPa {9.00 kgf/cm<sup>2</sup>}) and the suspension cylinders are fully retracted, and include the weight of the lifting devices and main winch hook block (35 ton hook block: 340 kg, 25 ton hook block: 330 kg) when working with the boom.  
The values above the thick line are based on the structural strength while those below are based on the crane stability factor. When performing actual work, use after considering the ground and operating conditions, etc.
- The load radius is based on the actual figure including boom and tire deflection, so always use the load radius as the standard.
- The standard number of parts of line on the hook block for each boom length are as shown in the chart below. However, when using other number of parts of line, the load per line must not exceed 4.29 t for main winch wire rope or 5.0 t for auxiliary winch wire rope.

Boom length	9.6 m	16.5 m	Single top
Number of parts	4	4	1

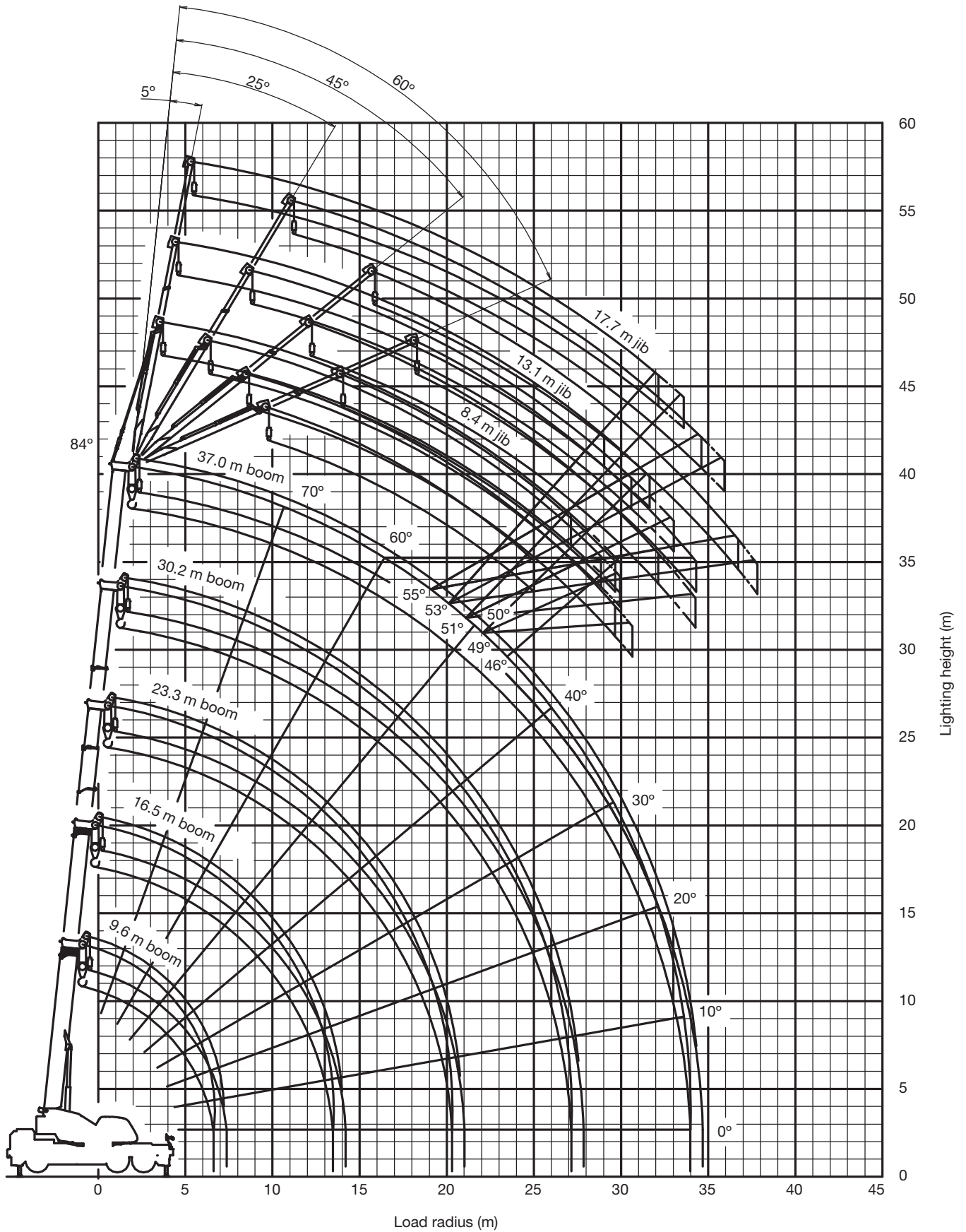
- Only perform crane operations in the front area while the AML "front position symbol" is lit. The front area is when the boom is within 2° of the front of the carrier.

Approx. 2°



- The rated lifting capacity for the single top is the value obtained by subtracting the subtraction load (240 kg when suspending a 35 ton hook block, 230 kg when suspending a 25 ton hook) from the boom rated lifting capacity, and includes the weight of the lifting devices and auxiliary winch hook block (100 kg), and must not exceed 5.0 t.
- Do not perform high-speed unwinding with a boom longer than 16.5 m or a jib.
- Perform pick and carry with the "drive mode selector" switch set to "Lo-differential lock" and the shift lever set to first gear.
- Perform pick and carry with the slewing brake on, the load close to the ground so it will not swing, and at a speed of 1.6 km or lower. In particular, abrupt steering, starting or braking must be avoided.
- Do not perform crane operations while performing pick and carry.

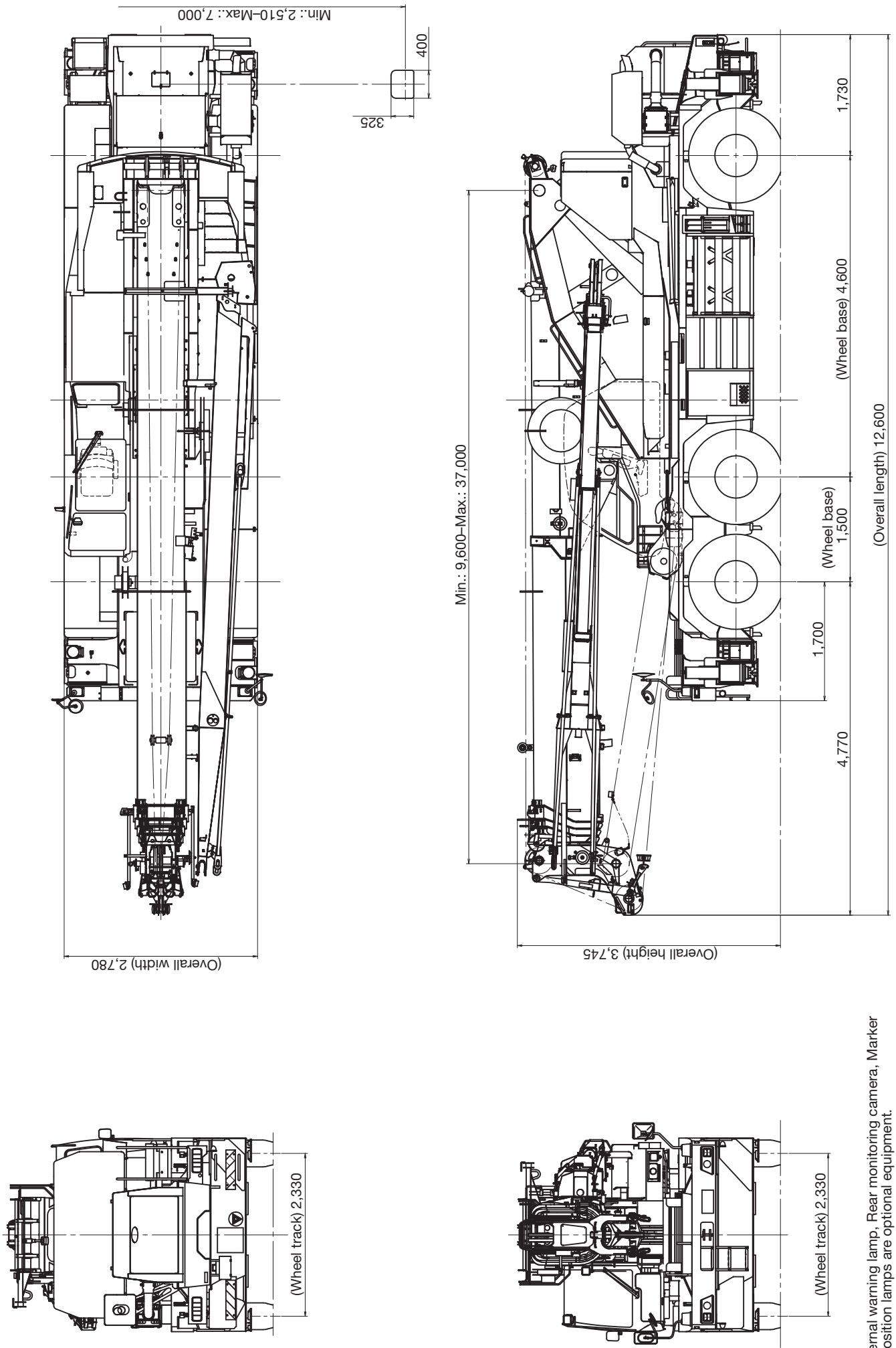
### 3. Working range chart



**Note**

1. The above drawing does not include boom deflection.
2. The above drawing shows outrigger maximum (7.0 m) extension.
3. The dotted lines in the chart above indicate special over-front capacity.

#### 4. Dimensions



\*AVL external warning lamp, Rear monitoring camera, Marker lamps, Position lamps are optional equipment.