

Tadano Rough Terrain Crane

GR-250N

(4-section boom, 2-section full automatic jib)

Specifications

Spec. No. GR-250N-5-00201 (X-type outriggers)
GR-250N-5-00202 (H-type outriggers)

TADANO LTD.

GR-250N (V)

4-section boom
2-section full automatic jib
X-/H-type outriggers



Specifications

Crane

Crane capacity	9.35m boom	25,000kg × 3.5m	(8 parts of line)
	16.4 m boom	18,000kg × 5.0m	(6 parts of line)
	23.45m boom	12,500kg × 6.0m	(4 parts of line)
	30.5 m boom	8,000kg × 9.0m	(4 parts of line)
	8.2 m jib	3,300kg × 14.0m	(1 part of line)
	13.0 m jib	2,200kg × 11.0m	(1 part of line)
	Single top	4,000kg	(1 part of line)
Maximum lifting height	Boom	31.3m	
	Jib	44.2m	
Maximum load radius	Boom	27.9m	
	Jib	34.0m	
Boom length		9.35m to 30.5m	
Boom telescoping length		21.15m	
Boom extension speed		21.15m/80s	
Jib length		8.2m to 13.0m	
Hoist up speed (wire rope)	Main winch	120m/min (4th layer)	
	Auxiliary winch	120m/min (4th layer)	
Hook block hoist up speed	Main winch	15.0m/min (8 parts of line)	
	Auxiliary winch	120m/min (1 part of line)	
Hoist down speed (wire rope) [reference]	Main winch	Standard: 120m/min (4th layer)	
		High-speed: 160m/min (4th layer)	
	Auxiliary winch	Standard: 120m/min (4th layer)	
		High-speed: 160m/min (4th layer)	
Boom elevating angle		0° to 84°	
Boom raising speed		0° to 84°/45s	
Slewing angle		360° continuous	
Slewing speed		2.6min ⁻¹ {rpm}	
Wire rope	Main winch	Dia. 16mm × length 170m Spin-resistant wire rope	
	Auxiliary winch	Dia. 16mm × length 98m Spin-resistant wire rope	
Boom type		Round-shaped 4-section synchronized hydraulic telescoping type	
Boom telescoping system		1 double-acting direct-pushing hydraulic cylinder, 2 wire-rope boom telescoping system	
Jib type		Quick-turn type (folded under boom and stowed below boom), 2-section (2-section hydraulic telescoping type), offset (5° to 60°) hydraulic stepless tilt type	
Single top type		Fixed to top boom section	
Hoisting system		Hydraulic motor driven planetary gear speed reducer, automatic brake, high-speed hoist down, 2 single winches, with pressure compensating flow control valve	
Boom elevating system		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 X-/H-type (floats mounted integrally), slide and jacks with independent operation device Extension width: Max. 6.6m, Mid. 6.1m, 5.0m, 3.6m, Min. 3.1m (X-type), 2.3m (H-type)	
Operation method		Electrically operated	
Maximum load of outrigger		26.9 t	
Power take off		PTO wet multiplate clutch type	
Hydraulic pump		Tandem variable piston pump, tandem gear pump	
Safety devices		Load moment indicator (AML), slewing automatic stop device, elevation slow stop device, anti-two-block device, working range limiter, outrigger extension width detector, boom telescoping cylinder hydraulic lock, boom elevating cylinder hydraulic lock, power tilt cylinder hydraulic lock, level gauge, hydraulic safety valve, jack cylinder hydraulic lock, slewing lock, jib telescoping cylinder hydraulic lock, hook safety latch	
Standard equipment		Full automatic air conditioner with dehumidifier, hydraulic oil temperature gauge, loudspeaker, AM/FM radio, oil cooler, visual drum rotation indicator, drum rotation sound device, slewing operation sound device, Operating pedals--ISO layout: for boom telescoping and auxiliary winch hook block Tadano layout: for boom elevating and boom telescoping Radio controller for work preparation, Telematics, wireless LAN communication terminal, fuel consumption monitor, Eco mode, automatic acceleration, automatic pump stop, hydraulic oil clogging alarm	
Accessories		Wood blocks (4 pcs.), aluminum pads (4 pcs.), radiator cover	

Carrier

Vehicle name/model		Tadano YDS-T017
Engine	Model	Hino J08E (with turbocharger, intake air cooling, DPF/urea SCR system)
	Type	Water-cooled, 4-cycle, 6-cylinder direct injection diesel engine
	Displacement	7.684L
	Maximum output	Traveling: 196kW{266PS}/2,300min ⁻¹ {rpm}
	Maximum torque	Operating: 125kW{170PS}/1,500min ⁻¹ {rpm}
Torque converter		3-element 1-section (with automatic lockup mechanism)
Transmission		Automatic and manual transmission, power shift type (wet multiplate clutch), 3 forward and 1 reverse speeds (with Hi/Lo settings)
Speed reducer		Axle two-stage deceleration
Driving method		2WD (4×2)/4WD (4×4) switching
Front axle system		Full-floating type
Rear axle system		Full-floating type
Suspension	Front wheels	Hydro-pneumatic suspension (with hydraulic lock cylinder)
	Rear wheels	Hydro-pneumatic suspension (with hydraulic lock cylinder)
Steering		Fully hydraulic power steering
Brakes	Main	Hydro-pneumatic disk brakes
	Parking	Air drive shaft internal expanding spring brake
	Auxiliary	Permanent magnetic retarder, exhaust pipe open/close valve type exhaust brake, auxiliary operating brake
Frame		Welded box-shaped structure
Batteries		12V-120Ah×2 (24V)
Fuel tank capacity		300L
Urea water tank capacity		28L
Tires	Front wheels	385/95 R25 170E ROAD
	Rear wheels	385/95 R25 170E ROAD
Cab		Crew capacity: 1 person, with interior fittings, liquid sealed rubber mounting type, fully adjustable seat (with headrest, armrest, seat belt), adjustable steering wheel (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, radiator fluid level warning device, hydraulic oil leak warning device
Standard equipment		Electromotive retractable mirror with heater, immobilizer, tire chocks, LED headlamps, front-left camera, boom right and left side cameras, slewing table rear-left camera, slewing table rear camera, rear camera, human alert

Option

Winch drum monitoring camera, remote control searchlight, AML external warning lamp, position lamps, marker lamps, LED marker lamps, LED flood lamps, external auditory alarms, centralized lubrication system, halogen headlamps

Dimensions when traveling

Overall length		11,530mm
Overall width		2,620mm
Overall height		3,475mm
Wheel base		3,880mm
Wheel track	Front wheels	2,170mm
	Rear wheels	2,170mm

Running performance

Maximum speed	49km/h
Gradability (tanθ)	0.57
Minimum turning radius	5.1m (4-wheel steering)
	8.5m (2-wheel steering)

Weight

Gross vehicle load	25,495kg
Front axle load	12,750kg
Rear axle load	12,745kg

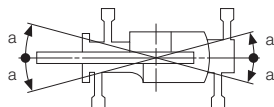
Maximum jack reaction force (maximum load of outrigger)

Boom	26.9t
Jib	17.8t

■ Precautions on rated lifting capacity table [when using outriggers]

- The rated lifting capacities assume that the crane is set horizontally on firm and level ground, and include the weight of the lifting devices and main winch hook block (220kg) when working with the boom and the weight of the lifting devices and auxiliary winch hook block (60kg) 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.
- The load radius is based on the actual figure including the boom and jib deflection, so always use the load radius as the standard when working.
- When the single top is used, the number of parts of line is 1.
The rated lifting capacity for the single top is the value obtained by subtracting 160kg from the boom rated lifting capacity, and includes the weight of the lifting devices and auxiliary winch hook block (60kg), and must not exceed 4.0t.
- High-speed hoist down should only be used when only the hook block is being lowered. Also, sudden lever operations should be avoided.
- The standard hook block and the number of parts of line for each boom length are described in the rated lifting capacity table for the corresponding boom.
However, when using other number of parts of line, the load per line must not exceed 3.6t for main winch wire rope or 4.0 t for auxiliary winch wire rope.
- When the jib is used, the number of parts of line is 1.
- 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 α) in the over-front and over-rear areas depends on outrigger extension width in use.

X-type	Extension width	Middle (6.1m)	Middle (5.0m)	Middle (3.6m)	Minimum (3.1m)
	Angle α°	45	25	15	10
H-type	Extension width	Middle (6.1m)	Middle (5.0m)	Middle (3.6m)	Minimum (2.3m)
	Angle α°	45	25	15	5



Explanation on symbols and markings in rated lifting capacity table

	Indicates the rated lifting capacity of the boom.		Indicates the boom length.
	Indicates the rated lifting capacity of the full automatic jib (FAJ).		Indicates the load radius.
	Indicates the jib length of the full automatic jib (FAJ).		Indicates the boom telescoping state (telescoping ratio %).
	Indicates the outrigger extension width.		Indicates the boom angle range in which no-load operation is enabled.
	Indicates the slewing range in which lifting is enabled.		Indicates the offset angle of the full automatic jib (FAJ), which is an angle formed between the boom centerline and jib centerline.
	Indicates the unit of the rated lifting capacity.		Indicates the standard number of parts of line.
			Indicates the standard hook block.

■ Rated lifting capacity table for boom

					
MB			6.6m	360°	JPN

	m	9.35	16.4	23.45	30.5	m
	2.5	25.00	18.00	12.50		2.5
	3.0	25.00	18.00	12.50		3.0
	3.5	25.00	18.00	12.50	8.00	3.5
	4.0	23.50	18.00	12.50	8.00	4.0
	4.5	21.50	18.00	12.50	8.00	4.5
	5.0	19.60	18.00	12.50	8.00	5.0
	5.5	17.80	17.00	12.50	8.00	5.5
	6.0	16.30	16.00	12.50	8.00	6.0
	6.5	15.10	15.00	12.25	8.00	6.5
	7.0		14.00	11.50	8.00	7.0
	8.0		11.40	10.20	8.00	8.0
	9.0		9.30	9.00	8.00	9.0
	10.0		7.80	7.60	7.15	10.0
	11.0		6.50	6.65	6.40	11.0
	12.0		5.55	5.80	5.60	12.0
	13.0		4.75	5.00	4.90	13.0
	13.5		4.45	4.65	4.60	13.5
	14.0			4.35	4.40	14.0
	15.0			3.85	3.90	15.0
	16.0			3.40	3.45	16.0
	17.0			3.00	3.05	17.0
	18.0			2.65	2.70	18.0
	19.0			2.35	2.40	19.0
	20.0			2.10	2.15	20.0
	20.5			2.00	2.05	20.5
	21.0				1.95	21.0
	22.0				1.75	22.0
	24.0				1.40	24.0
	26.0				1.10	26.0
	27.9				0.90	27.9
	1	0	33	66	100	1
	2	0	33	66	100	2
	3	0	33	66	100	3
	ID	1	1	1	1	ID
	[DEG]	0 to 84	0 to 84	0 to 84	0 to 84	[DEG]
		8	6	4	4	
		25t	25t	25t	25t	

					
MB			6.1m	360°	JPN

	m	9.35	16.4	23.45	30.5	m
	2.5	25.00	18.00	12.50		2.5
	3.0	25.00	18.00	12.50		3.0
	3.5	25.00	18.00	12.50	8.00	3.5
	4.0	23.50	18.00	12.50	8.00	4.0
	4.5	21.50	18.00	12.50	8.00	4.5
	5.0	19.60	18.00	12.50	8.00	5.0
	5.5	17.80	17.00	12.50	8.00	5.5
	6.0	16.30	16.00	12.50	8.00	6.0
	6.5	15.00	15.00	12.25	8.00	6.5
	7.0		13.50	11.50	8.00	7.0
	8.0		10.45	10.20	8.00	8.0
	9.0		8.35	8.60	8.00	9.0
	10.0		6.85	7.10	7.10	10.0
	11.0		5.75	6.00	6.00	11.0
	12.0		4.90	5.10	5.15	12.0
	13.0		4.20	4.40	4.45	13.0
	13.5		3.90	4.10	4.15	13.5
	14.0			3.80	3.90	14.0
	15.0			3.35	3.40	15.0
	16.0			2.95	3.00	16.0
	17.0			2.60	2.65	17.0
	18.0			2.30	2.35	18.0
	19.0			2.05	2.10	19.0
	20.0			1.85	1.85	20.0
	20.5			1.75	1.75	20.5
	21.0				1.65	21.0
	22.0				1.50	22.0
	24.0				1.20	24.0
	26.0				0.95	26.0
	27.8				0.75	27.8
	1	0	33	66	100	1
	2	0	33	66	100	2
	3	0	33	66	100	3
	ID	1	1	1	1	ID
	[DEG]	0 to 84	0 to 84	0 to 84	0 to 84	[DEG]
		8	6	4	4	
		25t	25t	25t	25t	

					
MB			5.0m	360°	JPN

	m	9.35	16.4	23.45	30.5	m
	2.5	25.00	18.00	12.50		2.5
	3.0	25.00	18.00	12.50		3.0
	3.5	25.00	18.00	12.50	8.00	3.5
	4.0	23.50	18.00	12.50	8.00	4.0
	4.5	21.20	18.00	12.50	8.00	4.5
	5.0	18.00	18.00	12.50	8.00	5.0
	5.5	14.60	15.10	12.50	8.00	5.5
	6.0	12.20	12.80	12.50	8.00	6.0
	6.5	10.35	11.00	11.25	8.00	6.5
	7.0		9.65	9.85	8.00	7.0
	8.0		7.50	7.75	7.60	8.0
	9.0		6.05	6.25	6.40	9.0
	10.0		4.95	5.15	5.30	10.0
	11.0		4.15	4.35	4.45	11.0
	12.0		3.50	3.70	3.80	12.0
	13.0		3.00	3.15	3.25	13.0
	13.5		2.80	2.90	3.00	13.5
	14.0			2.70	2.80	14.0
	15.0			2.35	2.40	15.0
	16.0			2.05	2.10	16.0
	17.0			1.75	1.85	17.0
	18.0			1.55	1.60	18.0
	19.0			1.35	1.40	19.0
	20.0			1.20	1.20	20.0
	20.5			1.10	1.10	20.5
	21.0				1.05	21.0
	22.0				0.90	22.0
	24.0				0.65	24.0
	26.0					26.0
	27.8					27.8
	1	0	33	66	100	1
	2	0	33	66	100	2
	3	0	33	66	100	3
	ID	1	1	1	1	ID
	[DEG]	0 to 84	0 to 84	0 to 84	33 to 84	[DEG]
		8	6	4	4	
		25t	25t	25t	25t	

					
MB			3.6m	360°	JPN

	m	9.35	16.4	23.45	30.5	m
	2.5	25.00	18.00	12.50		2.5
	3.0	25.00	18.00	12.50		3.0
	3.5	20.00	18.00	12.50	8.00	3.5
	4.0	15.40	16.00	12.50	8.00	4.0
	4.5	12.10	12.90	12.50	8.00	4.5
	5.0	9.90	10.65	10.80	8.00	5.0
	5.5	8.25	8.95	9.20	8.00	5.5
	6.0	7.00	7.65	7.95	8.00	6.0
	6.5	6.00	6.60	6.90	6.80	6.5
	7.0		5.75	6.05	6.00	7.0
	8.0		4.50	4.75	4.75	8.0
	9.0		3.60	3.80	3.90	9.0
	10.0		2.90	3.10	3.20	10.0
	11.0		2.40	2.55	2.65	11.0
	12.0		1.95	2.10	2.20	12.0
	13.0		1.60	1.75	1.85	13.0
	13.5		1.45	1.60	1.70	13.5
	14.0			1.45	1.55	14.0
	15.0			1.20	1.30	15.0
	16.0			1.00	1.05	16.0
	17.0			0.80	0.85	17.0
	18.0			0.65	0.70	18.0
	19.0			0.50	0.55	19.0
	20.0					20.0
	20.5					20.5
	21.0					21.0
	22.0					22.0
	24.0					24.0
	26.0					26.0
	27.8					27.8
	1	0	33	66	100	1
	2	0	33	66	100	2
	3	0	33	66	100	3
	ID	1	1	1	1	ID
	[DEG]	0 to 84	0 to 84	26 to 84	48 to 84	[DEG]
		8	6	4	4	
		25t	25t	25t	25t	

					
MB			(X-type) 3.1m	360 °	JPN

	m	9.35	16.4	23.45	30.5	m
	2.5	18.00	16.00	12.50		2.5
	3.0	18.00	16.00	12.50		3.0
	3.5	14.50	16.00	12.50	8.00	3.5
	4.0	11.60	12.00	12.50	8.00	4.0
	4.5	9.30	10.00	10.20	8.00	4.5
	5.0	7.60	8.40	8.60	8.00	5.0
	5.5	6.40	7.10	7.30	7.30	5.5
	6.0	5.40	6.10	6.30	6.30	6.0
	6.5	4.70	5.30	5.50	5.50	6.5
	7.0		4.60	4.85	4.90	7.0
	8.0		3.60	3.80	3.80	8.0
	9.0		2.80	3.05	3.05	9.0
	10.0		2.30	2.45	2.50	10.0
	11.0		1.80	2.00	2.05	11.0
	12.0		1.50	1.60	1.65	12.0
	13.0		1.20	1.30	1.35	13.0
	13.5		1.00	1.20	1.25	13.5
	14.0			1.05	1.10	14.0
	15.0			0.85	0.90	15.0
	16.0			0.65	0.70	16.0
	17.0			0.50	0.55	17.0
	18.0					18.0
	19.0					19.0
	20.0					20.0
	20.5					20.5
	21.0					21.0
	22.0					22.0
	24.0					24.0
	26.0					26.0
	27.8					27.8
	1	0	33	66	100	1
	2	0	33	66	100	2
	3	0	33	66	100	3
	ID	1	1	1	1	ID
	[DEG]	0 to 84	0 to 84	37 to 84	53 to 84	[DEG]
		6	6	4	4	
		25t	25t	25t	25t	

					
MB			(H-type) 2.3m	360 °	JPN

	m	9.35	16.4	23.45	30.5	m
	2.5	12.20	12.00	10.00		2.5
	3.0	12.20	12.00	10.00		3.0
	3.5	9.75	10.00	10.00	6.00	3.5
	4.0	7.60	8.00	8.50	6.00	4.0
	4.5	6.10	6.70	7.00	6.00	4.5
	5.0	5.00	5.50	5.80	5.80	5.0
	5.5	4.10	4.60	4.90	5.00	5.5
	6.0	3.45	4.00	4.25	4.35	6.0
	6.5	2.90	3.40	3.65	3.75	6.5
	7.0		2.95	3.15	3.30	7.0
	8.0		2.25	2.50	2.55	8.0
	9.0		1.70	1.90	2.00	9.0
	10.0		1.30	1.50	1.55	10.0
	11.0		0.95	1.15	1.20	11.0
	12.0		0.70	0.85	0.90	12.0
	13.0					13.0
	13.5					13.5
	14.0					14.0
	15.0					15.0
	16.0					16.0
	17.0					17.0
	18.0					18.0
	19.0					19.0
	20.0					20.0
	20.5					20.5
	21.0					21.0
	22.0					22.0
	24.0					24.0
	26.0					26.0
	27.8					27.8
	1	0	33	66	100	1
	2	0	33	66	100	2
	3	0	33	66	100	3
	ID	1	1	1	1	ID
	[DEG]	0 to 84	30 to 84	54 to 84	64 to 84	[DEG]
		4	4	4	4	
		25t	25t	25t	25t	

■ Rated lifting capacity table for jib

 FAJ	 8.2m		 6.6m	 360 °	 JPN
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 m		9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °		5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0	3.30												2.0
	3.0	3.30												3.0
	3.5	3.30												3.5
	4.0	3.30				3.30								4.0
	4.5	3.30	2.30			3.30								4.5
	5.0	3.30	2.30			3.30								5.0
	5.5	3.30	2.30			3.30				3.30				5.5
	6.0	3.30	2.30			3.30				3.30				6.0
	6.5	3.30	2.30	1.70		3.30				3.30				6.5
	7.0	3.30	2.30	1.70		3.30	2.30			3.30				7.0
	8.0	3.30	2.30	1.70	1.10	3.30	2.30			3.30				8.0
	9.0	3.15	2.30	1.70	1.10	3.30	2.30	1.70		3.30	2.30			9.0
	10.0	2.90	2.30	1.70	1.10	3.30	2.30	1.70	1.10	3.30	2.30			10.0
	11.0	2.65	2.30	1.70	1.10	3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10	11.0
	12.0	2.50	2.20	1.70		3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10	12.0
	13.0	2.30	2.10	1.70		3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10	13.0
	14.0	2.20	2.05			3.20	2.30	1.70	1.10	3.30	2.30	1.70	1.10	14.0
	16.0					2.85	2.30	1.70	1.10	3.00	2.30	1.70	1.10	16.0
	18.0					2.55	2.20	1.70	1.10	2.55	2.15	1.65	1.10	18.0
	20.0					2.00	2.00	1.70		2.00	2.00	1.55	1.10	20.0
	22.0					1.55	1.70	1.55		1.55	1.70	1.50	1.10	22.0
	23.0					1.40	1.50	1.55		1.35	1.50	1.45	1.10	23.0
	24.0					1.20	1.30			1.20	1.30	1.40		24.0
	26.0					0.95	1.00			0.90	1.00	1.05		26.0
	27.0					0.82	0.87			0.76	0.88	0.94		27.0
	28.0					0.71				0.63	0.74	0.78		28.0
	30.0									0.41	0.49			30.0
	32.0													32.0
	33.0													33.0
	34.0													34.0
 %	1	0	0	0	0	66	66	66	66	100	100	100	100	1
	2	0	0	0	0	66	66	66	66	100	100	100	100	2
	3	0	0	0	0	66	66	66	66	100	100	100	100	3
	ID	1	1	1	1	1	1	1	1	1	1	1	1	ID
 [DEG]		22 to 84	27 to 84	40 to 84	58 to 84	17 to 84	26 to 84	45 to 84	60 to 84	37 to 84	40 to 84	47 to 84	58 to 84	[DEG]

 FAJ	 8.2m		 6.1m	 360 °	 JPN
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 m		9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °		5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0	3.30												2.0
	3.0	3.30												3.0
	3.5	3.30												3.5
	4.0	3.30				3.30								4.0
	4.5	3.30	2.30			3.30								4.5
	5.0	3.30	2.30			3.30								5.0
	5.5	3.30	2.30			3.30				3.30				5.5
	6.0	3.30	2.30			3.30				3.30				6.0
	6.5	3.30	2.30	1.70		3.30				3.30				6.5
	7.0	3.30	2.30	1.70		3.30	2.30			3.30				7.0
	8.0	3.30	2.30	1.70	1.10	3.30	2.30			3.30				8.0
	9.0	3.15	2.30	1.70	1.10	3.30	2.30	1.70		3.30	2.30			9.0
	10.0	2.90	2.30	1.70	1.10	3.30	2.30	1.70	1.10	3.30	2.30			10.0
	11.0	2.65	2.30	1.70	1.10	3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10	11.0
	12.0	2.50	2.20	1.70		3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10	12.0
	13.0	2.30	2.10	1.70		3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10	13.0
	14.0	2.20	2.05			3.20	2.30	1.70	1.10	3.30	2.30	1.70	1.10	14.0
	16.0					2.85	2.30	1.70	1.10	2.85	2.30	1.70	1.10	16.0
	18.0					2.20	2.20	1.70	1.10	2.20	2.15	1.65	1.10	18.0
	20.0					1.70	1.85	1.70		1.70	1.90	1.55	1.10	20.0
	22.0					1.30	1.45	1.50		1.30	1.45	1.50	1.10	22.0
	23.0					1.15	1.25	1.30		1.10	1.25	1.35	1.10	23.0
	24.0					1.00	1.10			0.97	1.10	1.20		24.0
	26.0					0.75	0.81			0.69	0.82	0.88		26.0
	27.0					0.63	0.68			0.56	0.68	0.73		27.0
	28.0					0.53				0.44	0.55	0.59		28.0
	30.0										0.32			30.0
	32.0													32.0
	33.0													33.0
	34.0													34.0
 %	1	0	0	0	0	66	66	66	66	100	100	100	100	1
	2	0	0	0	0	66	66	66	66	100	100	100	100	2
	3	0	0	0	0	66	66	66	66	100	100	100	100	3
	ID	1	1	1	1	1	1	1	1	1	1	1	1	ID
 [DEG]		22 to 84	27 to 84	40 to 84	58 to 84	17 to 84	26 to 84	45 to 84	60 to 84	42 to 84	40 to 84	47 to 84	58 to 84	[DEG]

 FAJ	 8.2m		 5.0m	 360 °	 JPN
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 m	9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °	5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0	3.30											2.0
	3.0	3.30											3.0
	3.5	3.30											3.5
	4.0	3.30											4.0
	4.5	3.30	2.30			3.30							4.5
	5.0	3.30	2.30			3.30							5.0
	5.5	3.30	2.30			3.30			3.30				5.5
	6.0	3.30	2.30			3.30			3.30				6.0
	6.5	3.30	2.30	1.70		3.30			3.30				6.5
	7.0	3.30	2.30	1.70		3.30	2.30		3.30				7.0
	8.0	3.30	2.30	1.70	1.10	3.30	2.30		3.30				8.0
	9.0	3.15	2.30	1.70	1.10	3.30	2.30	1.70	3.30	2.30			9.0
	10.0	2.90	2.30	1.70	1.10	3.30	2.30	1.70	1.10	3.30	2.30		10.0
	11.0	2.65	2.30	1.70	1.10	3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10
	12.0	2.50	2.20	1.70		3.30	2.30	1.70	1.10	3.30	2.30	1.70	1.10
	13.0	2.30	2.10	1.70		3.10	2.30	1.70	1.10	3.10	2.30	1.70	1.10
	14.0	2.20	2.05			2.65	2.30	1.70	1.10	2.65	2.30	1.70	1.10
	16.0					1.95	2.20	1.70	1.10	1.95	2.20	1.70	1.10
	18.0					1.45	1.65	1.70	1.10	1.40	1.65	1.65	1.10
	20.0					1.05	1.20	1.30		1.00	1.20	1.35	1.10
	22.0					0.75	0.87	0.93		0.72	0.88	0.99	1.00
	23.0					0.61	0.72	0.77		0.57	0.73	0.82	0.84
	24.0					0.49	0.58			0.43	0.59	0.68	
	26.0						0.34				0.32	0.39	
	27.0												
	28.0												
	30.0												
	32.0												
	33.0												
	34.0												
 %	1	0	0	0	0	66	66	66	66	100	100	100	100
	2	0	0	0	0	66	66	66	66	100	100	100	100
	3	0	0	0	0	66	66	66	66	100	100	100	100
	ID	1	1	1	1	1	1	1	1	1	1	1	1
 [DEG]	22 to 84	27 to 84	40 to 84	58 to 84	36 to 84	32 to 84	45 to 84	60 to 84	51 to 84	50 to 84	52 to 84	58 to 84	[DEG]

 FAJ	 8.2m		 3.6m	 360 °	 JPN
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 m	9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °	5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0	3.30											2.0
	3.0	3.30											3.0
	3.5	3.30											3.5
	4.0	3.30											4.0
	4.5	3.30	2.30			3.30							4.5
	5.0	3.30	2.30			3.30							5.0
	5.5	3.30	2.30			3.30			3.30				5.5
	6.0	3.30	2.30			3.30			3.30				6.0
	6.5	3.30	2.30	1.70		3.30			3.30				6.5
	7.0	3.30	2.30	1.70		3.30	2.30		3.30				7.0
	8.0	3.30	2.30	1.70	1.10	3.30	2.30		3.30				8.0
	9.0	3.15	2.30	1.70	1.10	3.30	2.30	1.70	3.30	2.30			9.0
	10.0	2.90	2.30	1.70	1.10	3.05	2.30	1.70	1.10	2.85	2.30		10.0
	11.0	2.65	2.30	1.70	1.10	2.50	2.30	1.70	1.10	2.35	2.30	1.70	1.10
	12.0	2.40	2.20	1.70		2.05	2.30	1.70	1.10	1.95	2.30	1.70	1.10
	13.0	2.05	2.10	1.70		1.70	2.00	1.70	1.10	1.60	2.00	1.70	1.10
	14.0	1.75	1.85			1.40	1.70	1.70	1.10	1.30	1.65	1.70	1.10
	16.0					0.92	1.15	1.30	1.10	0.84	1.10	1.35	1.10
	18.0					0.56	0.75	0.88	0.92		0.72	0.91	0.99
	20.0						0.43	0.52				0.53	0.59
	22.0												
	23.0												
	24.0												
	26.0												
	27.0												
	28.0												
	30.0												
	32.0												
	33.0												
	34.0												
 %	1	0	0	0	0	66	66	66	66	100	100	100	100
	2	0	0	0	0	66	66	66	66	100	100	100	100
	3	0	0	0	0	66	66	66	66	100	100	100	100
	ID	1	1	1	1	1	1	1	1	1	1	1	1
 [DEG]	22 to 84	27 to 84	40 to 84	58 to 84	53 to 84	52 to 84	55 to 84	61 to 84	65 to 84	65 to 84	64 to 84	65 to 84	[DEG]

 FAJ	 13.0m		 6.6m	 360 °	 JPN
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 m	9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °	5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0												2.0
	3.0	2.20											3.0
	3.5	2.20											3.5
	4.0	2.20											4.0
	4.5	2.20											4.5
	5.0	2.20											5.0
	5.5	2.20			2.20								5.5
	6.0	2.20			2.20								6.0
	6.5	2.10			2.20				2.20				6.5
	7.0	2.00	1.30		2.20				2.20				7.0
	8.0	1.80	1.30		2.20				2.20				8.0
	9.0	1.65	1.30		2.20				2.20				9.0
	10.0	1.55	1.30		2.10	1.30			2.20				10.0
	11.0	1.40	1.20	0.85	2.00	1.30			2.20	1.30			11.0
	12.0	1.30	1.15	0.85	1.85	1.30			2.15	1.30			12.0
	13.0	1.25	1.10	0.85	1.75	1.30	0.85		2.05	1.30			13.0
	14.0	1.15	1.05	0.85	1.70	1.25	0.85		1.95	1.30			14.0
	16.0	1.05	0.98	0.85	1.50	1.20	0.85	0.65	1.75	1.25	0.85	0.65	16.0
	18.0	0.97	0.93		1.40	1.10	0.85	0.65	1.60	1.20	0.85	0.65	18.0
	20.0				1.30	1.05	0.85	0.64	1.50	1.15	0.85	0.64	20.0
	22.0				1.20	1.00	0.85	0.62	1.40	1.10	0.85	0.62	22.0
	23.0				1.15	1.00	0.85	0.61	1.35	1.05	0.85	0.61	23.0
	24.0				1.10	0.99	0.85		1.30	1.05	0.85	0.60	24.0
	26.0				1.05	0.95	0.85		1.15	1.00	0.83	0.60	26.0
	27.0				1.00	0.92	0.85		1.00	0.97	0.82	0.60	27.0
	28.0				0.95	0.90	0.85		0.91	0.94	0.81	0.60	28.0
	30.0				0.78	0.84			0.69	0.85	0.80		30.0
	32.0				0.60	0.65			0.49	0.63	0.65		32.0
	33.0				0.52				0.40	0.53	0.58		33.0
	34.0								0.32	0.43	0.47		34.0
 %	1	0	0	0	66	66	66	66	100	100	100	100	1
	2	0	0	0	66	66	66	66	100	100	100	100	2
	3	0	0	0	66	66	66	66	100	100	100	100	3
	ID	1	1	1	1	1	1	1	1	1	1	1	ID
 [DEG]	27 to 84	36 to 84	56 to 84	57 to 84	17 to 84	28 to 84	44 to 84	61 to 84	39 to 84	45 to 84	45 to 84	60 to 84	[DEG]

 FAJ	 13.0m		 6.1m	 360 °	 JPN
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 m	9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °	5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0												2.0
	3.0	2.20											3.0
	3.5	2.20											3.5
	4.0	2.20											4.0
	4.5	2.20											4.5
	5.0	2.20											5.0
	5.5	2.20			2.20								5.5
	6.0	2.20			2.20								6.0
	6.5	2.10			2.20				2.20				6.5
	7.0	2.00	1.30		2.20				2.20				7.0
	8.0	1.80	1.30		2.20				2.20				8.0
	9.0	1.65	1.30		2.20				2.20				9.0
	10.0	1.55	1.30		2.10	1.30			2.20				10.0
	11.0	1.40	1.20	0.85	2.00	1.30			2.20	1.30			11.0
	12.0	1.30	1.15	0.85	1.85	1.30			2.15	1.30			12.0
	13.0	1.25	1.10	0.85	1.75	1.30	0.85		2.05	1.30			13.0
	14.0	1.15	1.05	0.85	1.70	1.25	0.85		1.95	1.30			14.0
	16.0	1.05	0.98	0.85	1.50	1.20	0.85	0.65	1.75	1.25	0.85	0.65	16.0
	18.0	0.97	0.93		1.40	1.10	0.85	0.65	1.60	1.20	0.85	0.65	18.0
	20.0				1.30	1.05	0.85	0.64	1.50	1.15	0.85	0.64	20.0
	22.0				1.20	1.00	0.85	0.62	1.40	1.10	0.85	0.62	22.0
	23.0				1.15	1.00	0.85	0.61	1.35	1.05	0.85	0.61	23.0
	24.0				1.10	0.99	0.85		1.20	1.05	0.85	0.60	24.0
	26.0				1.00	0.95	0.85		0.96	1.00	0.83	0.60	26.0
	27.0				0.92	0.92	0.85		0.84	0.97	0.82	0.60	27.0
	28.0				0.81	0.90	0.85		0.72	0.91	0.81	0.60	28.0
	30.0				0.62	0.70			0.51	0.68	0.77		30.0
	32.0				0.45	0.50			0.33	0.47	0.53		32.0
	33.0				0.38					0.37	0.42		33.0
	34.0										0.32		34.0
 %	1	0	0	0	66	66	66	66	100	100	100	100	1
	2	0	0	0	66	66	66	66	100	100	100	100	2
	3	0	0	0	66	66	66	66	100	100	100	100	3
	ID	1	1	1	1	1	1	1	1	1	1	1	ID
 [DEG]	27 to 84	36 to 84	56 to 84	57 to 84	17 to 84	28 to 84	44 to 84	61 to 84	43 to 84	47 to 84	45 to 84	60 to 84	[DEG]

 FAJ	 13.0m		 5.0m	 360 °	 JPN
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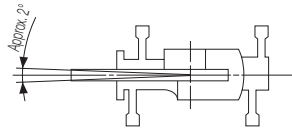
 m		9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °		5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0													2.0
	3.0	2.20												3.0
	3.5	2.20												3.5
	4.0	2.20												4.0
	4.5	2.20												4.5
	5.0	2.20												5.0
	5.5	2.20				2.20								5.5
	6.0	2.20				2.20								6.0
	6.5	2.10				2.20				2.20				6.5
	7.0	2.00	1.30			2.20				2.20				7.0
	8.0	1.80	1.30			2.20				2.20				8.0
	9.0	1.65	1.30			2.20				2.20				9.0
	10.0	1.55	1.30			2.10	1.30			2.20				10.0
	11.0	1.40	1.20	0.85		2.00	1.30			2.20	1.30			11.0
	12.0	1.30	1.15	0.85	0.65	1.85	1.30			2.15	1.30			12.0
	13.0	1.25	1.10	0.85	0.65	1.75	1.30	0.85		2.05	1.30			13.0
	14.0	1.15	1.05	0.85	0.65	1.70	1.25	0.85		1.95	1.30			14.0
	16.0	1.05	0.98	0.85	0.65	1.50	1.20	0.85	0.65	1.75	1.25	0.85	0.65	16.0
	18.0	0.97	0.93			1.40	1.10	0.85	0.65	1.60	1.20	0.85	0.65	18.0
	20.0					1.30	1.05	0.85	0.64	1.30	1.15	0.85	0.64	20.0
	22.0					1.00	1.00	0.85	0.62	0.97	1.10	0.85	0.62	22.0
	23.0					0.90	1.00	0.85	0.61	0.83	1.05	0.85	0.61	23.0
	24.0					0.78	0.96	0.85		0.71	0.94	0.85	0.60	24.0
	26.0					0.56	0.71	0.80		0.47	0.69	0.83	0.60	26.0
	27.0					0.46	0.60	0.67		0.37	0.57	0.70	0.60	27.0
	28.0					0.37	0.49	0.55			0.46	0.58	0.60	28.0
	30.0						0.30					0.35		30.0
	32.0													32.0
	33.0													33.0
	34.0													34.0
 %	1	0	0	0	0	66	66	66	66	100	100	100	100	1
	2	0	0	0	0	66	66	66	66	100	100	100	100	2
	3	0	0	0	0	66	66	66	66	100	100	100	100	3
	ID	1	1	1	1	1	1	1	1	1	1	1	1	ID
 [DEG]		27 to 84	36 to 84	56 to 84	57 to 84	38 to 84	37 to 84	45 to 84	61 to 84	53 to 84	56 to 84	54 to 84	60 to 84	[DEG]

 FAJ	 13.0m		 3.6m	 360 °	 JPN
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 m		9.35	9.35	9.35	9.35	23.45	23.45	23.45	23.45	30.5	30.5	30.5	30.5	m
 °		5	25	45	60	5	25	45	60	5	25	45	60	°
 m	2.0													2.0
	3.0	2.20												3.0
	3.5	2.20												3.5
	4.0	2.20												4.0
	4.5	2.20												4.5
	5.0	2.20												5.0
	5.5	2.20				2.20								5.5
	6.0	2.20				2.20								6.0
	6.5	2.10				2.20				2.20				6.5
	7.0	2.00	1.30			2.20				2.20				7.0
	8.0	1.80	1.30			2.20				2.20				8.0
	9.0	1.65	1.30			2.20				2.20				9.0
	10.0	1.55	1.30			2.10	1.30			2.20				10.0
	11.0	1.40	1.20	0.85		2.00	1.30			2.20	1.30			11.0
	12.0	1.30	1.15	0.85	0.65	1.85	1.30			2.15	1.30			12.0
	13.0	1.25	1.10	0.85	0.65	1.75	1.30	0.85		1.90	1.30			13.0
	14.0	1.15	1.05	0.85	0.65	1.70	1.25	0.85		1.60	1.30			14.0
	16.0	1.05	0.98	0.85	0.65	1.20	1.20	0.85	0.65	1.10	1.25	0.85	0.65	16.0
	18.0	0.97	0.93			0.86	1.10	0.85	0.65	0.75	1.15	0.85	0.65	18.0
	20.0					0.57	0.83	0.85	0.64		0.79	0.85	0.64	20.0
	22.0					0.33	0.55	0.72	0.62		0.49	0.73	0.62	22.0
	23.0						0.43	0.58	0.61			0.58	0.61	23.0
	24.0						0.32	0.45					0.52	24.0
	26.0													26.0
	27.0													27.0
	28.0													28.0
	30.0													30.0
	32.0													32.0
	33.0													33.0
	34.0													34.0
 %	1	0	0	0	0	66	66	66	66	100	100	100	100	1
	2	0	0	0	0	66	66	66	66	100	100	100	100	2
	3	0	0	0	0	66	66	66	66	100	100	100	100	3
	ID	1	1	1	1	1	1	1	1	1	1	1	1	ID
 [DEG]		27 to 84	36 to 84	56 to 84	57 to 84	52 to 84	54 to 84	57 to 84	61 to 84	66 to 84	66 to 84	68 to 84	68 to 84	[DEG]

■ Precautions on rated lifting capacity table [when on-rubber]

1. The rated lifting capacities assume that the crane is set horizontally on firm and level ground, the tires are at the standard pressure (900kPa(9.00kgf/cm²)) and the suspension cylinder is fully retracted, and include the weight of the lifting devices and main winch hook block (220kg) when working with the boom.
- The values above the bold 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.
2. The load radius is based on the actual figure including boom and tire deflection, so always use the load radius as the standard.
3. The hook block and the standard number of parts of line for each boom length are described in the rated lifting capacity table for the corresponding boom.
- However, when using other number of parts of line, the load per line must not exceed 3.6t for main winch wire rope or 4.0t for auxiliary winch wire rope.
4. Do not perform high-speed hoist down operations, boom lift operations with a boom longer than 23.45 m, or using of the jib.
5. Only perform crane operations in the over-front area while the AML "Over-front symbol" is lit.
- "In the over-front area" means the boom is within 2° around the front centerline of the carrier.



6. When the single top is used, the number of parts of line is 1.
- The rated lifting capacity for the single top is the value obtained by subtracting 160kg from the boom rated lifting capacity, and includes the weight of the lifting devices and auxiliary winch hook block (60kg), and must not exceed 4.0t.
7. Perform pick and carry with the "drive mode selector" switch set to "4WD low speed traveling" and the gearshift switch set to first gear.
8. 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 1.6km/h or lower. In particular, abrupt steering, starting or braking must be avoided.
9. Do not perform crane operations while performing pick and carry.

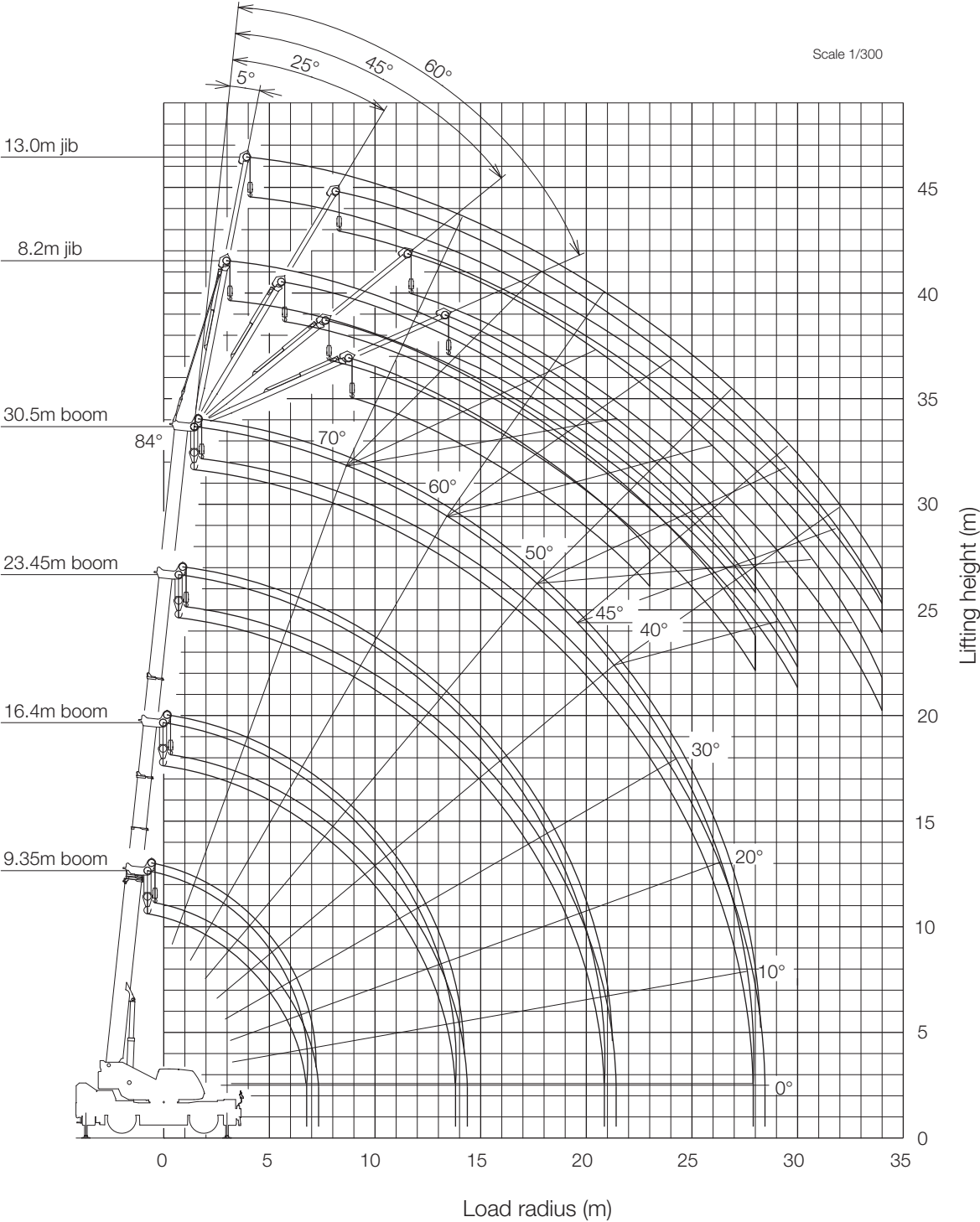
Explanation on symbols and markings in rated lifting capacity table

	Indicates the rated lifting capacity of the boom.		Indicates the unit of the rated lifting capacity.
	Indicates that the crane is stationary.		Indicates the boom length.
	Indicates that the crane is traveling (1.6km/h or less).		Indicates the load radius.
	Indicates the slewing range in which lifting is enabled.		Indicates the boom angle range in which no-load operation is enabled.
	Over-front indicates that operation is limited to over-front.		Indicates the standard number of parts of line.
			Indicates the standard hook block.

■ Rated lifting capacity table when on-rubber

 MB					 MB					 MB					 MB							
 On-rubber Stationary					 On-rubber Stationary					 On-rubber Traveling (1.6km/h or less)					 On-rubber Traveling (1.6km/h or less)							
 Over-front					 360 °					 Over-front					 360 °							
 t JPN					 t JPN					 t JPN					 t JPN							
 m	9.35	16.4	23.45	m	 m	9.35	16.4	23.45	m	 m	9.35	16.4	23.45	m	 m	9.35	16.4	23.45	m			
 m	3.0	14.00	9.00	3.0	 m	3.0	8.30	7.30	3.0	 m	3.0	10.00	7.50	3.0	 m	3.0	6.50	5.10	3.0			
	3.5	14.00	9.00	6.50	3.5	3.5	6.80	7.30	4.50	3.5	3.5	10.00	7.50	5.50	3.5	3.5	5.20	5.10	3.20			
	4.0	12.50	9.00	6.50	4.0	4.0	5.30	5.85	4.50	4.0	4.0	9.00	7.50	5.50	4.0	4.0	4.20	4.40	3.20			
	4.5	10.90	9.00	6.50	4.5	4.5	4.30	4.75	4.50	4.5	4.5	8.20	7.50	5.50	4.5	4.5	3.40	3.70	3.20			
	5.0	9.55	8.20	6.50	5.0	5.0	3.50	4.00	4.00	5.0	5.0	7.40	7.00	5.50	5.0	5.0	2.80	3.10	3.20			
	5.5	8.30	7.40	6.10	5.5	5.5	2.80	3.30	3.40	5.5	5.5	6.70	6.20	5.15	5.5	5.5	2.40	2.70	2.80			
	6.0	7.20	6.60	5.65	6.0	6.0	2.30	2.80	2.90	6.0	6.0	5.90	5.50	4.80	6.0	6.0	1.90	2.30	2.40			
	6.5	6.25	5.90	5.25	6.5	6.5	1.80	2.35	2.50	6.5	6.5	5.10	4.90	4.45	6.5	6.5	1.50	1.90	2.05			
	7.0		5.25	4.85	7.0	7.0		1.95	2.15	7.0	7.0		4.35	4.15	7.0	7.0		1.60	1.80			
	8.0		4.10	4.10	8.0	8.0		1.40	1.60	8.0	8.0		3.40	3.50	8.0	8.0		1.10	1.40			
	9.0		3.25	3.50	9.0	9.0		0.95	1.20	9.0	9.0		2.70	2.95	9.0	9.0		0.70	1.00			
	10.0		2.60	3.00	10.0	10.0		0.60	0.85	10.0	10.0		2.15	2.45	10.0	10.0		0.65	1.00			
	11.0		2.10	2.55	11.0	11.0			0.55	11.0	11.0		1.70	2.05	11.0	11.0						
	12.0		1.70	2.20	12.0	12.0				12.0	12.0		1.35	1.70	12.0	12.0						
	13.0		1.35	1.85	13.0	13.0				13.0	13.0		1.10	1.45	13.0	13.0						
	13.5		1.15	1.70	13.5	13.5				13.5	13.5			1.30	13.5	13.5						
	14.0			1.55	14.0	14.0				14.0	14.0			1.20	14.0	14.0						
	15.0			1.30	15.0	15.0				15.0	15.0			1.00	15.0	15.0						
	16.0			1.05	16.0	16.0				16.0	16.0			0.85	16.0	16.0						
	17.0			0.85	17.0	17.0				17.0	17.0			0.70	17.0	17.0						
	18.0			0.65	18.0	18.0				18.0	18.0			0.55	18.0	18.0						
	19.0			0.50	19.0	19.0				19.0	19.0				19.0	19.0						
 [DEG]	0 to 78		25 to 78		 [DEG]	0 to 78		43 to 78		57 to 78	[DEG]	0 to 78		31 to 78		[DEG]	0 to 78		48 to 78		60 to 78	[DEG]
 t	4		4		 t	4		4		4		4		4			4		4			
 t	25t		25t		 t	25t		25t		25t		25t		25t			25t		25t			

Working range chart



(Note) 1. The above drawing does not include boom and jib deflection.
2. The above drawing shows outrigger maximum (6.6m) extension.

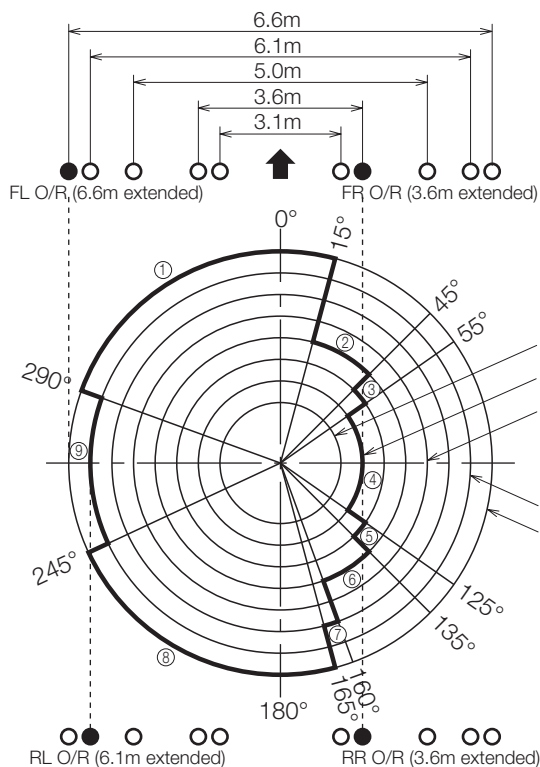
■ How to read working area diagram

The size of the circle in the working area diagram corresponds to the capacity determined by the outrigger extension width.

		Applicable capacity (boom lift)	Applicable capacity (jib lift)
Circle 1	6.6 m	○	○
Circle 2	6.1 m	○	○
Circle 3	(5.6 m)	○	○
Circle 4	5.0 m	○	○
Circle 5	(4.6 m)	○	○

		Applicable capacity (boom lift)	Applicable capacity (jib lift)
Circle 6	(4.1 m)	○	○
Circle 7	3.6 m	○	○
Circle 8	3.1 m (X-type)	○	○
	2.3 m (H-type)	○	○

– Example (X-type outriggers) –

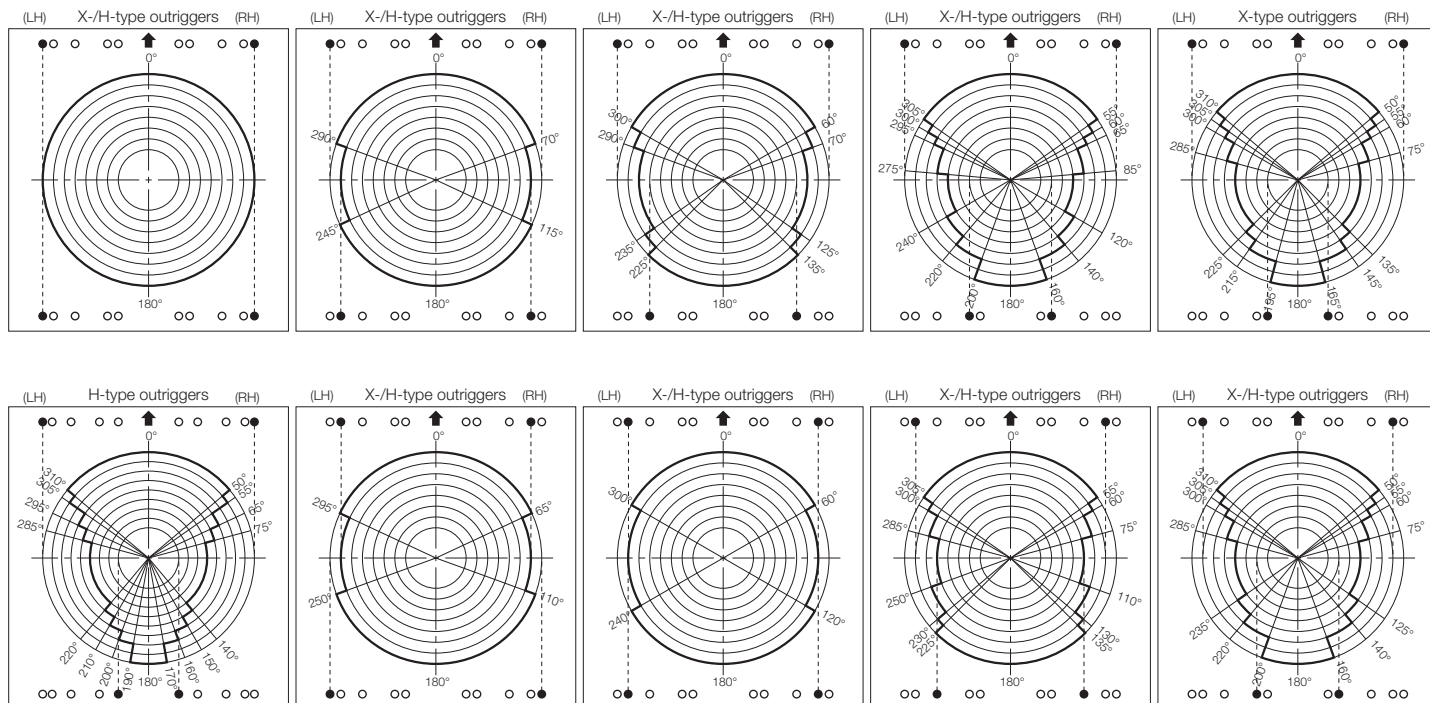


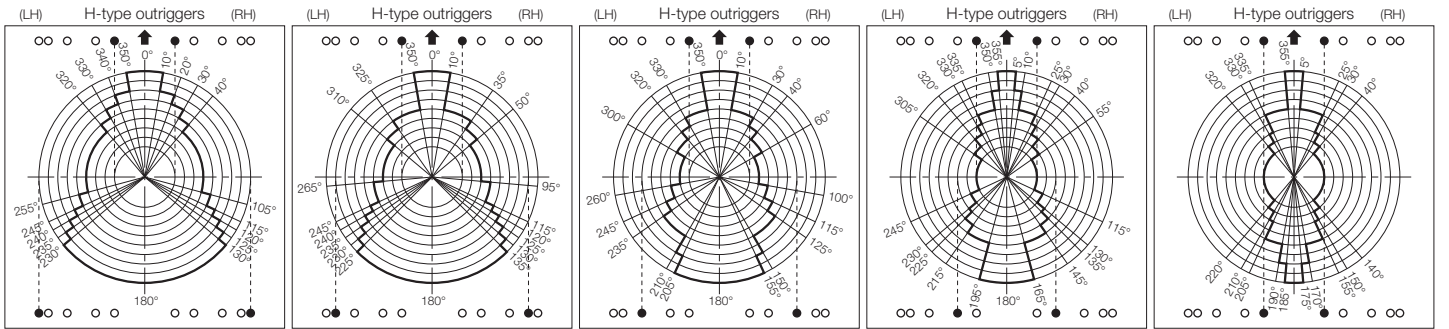
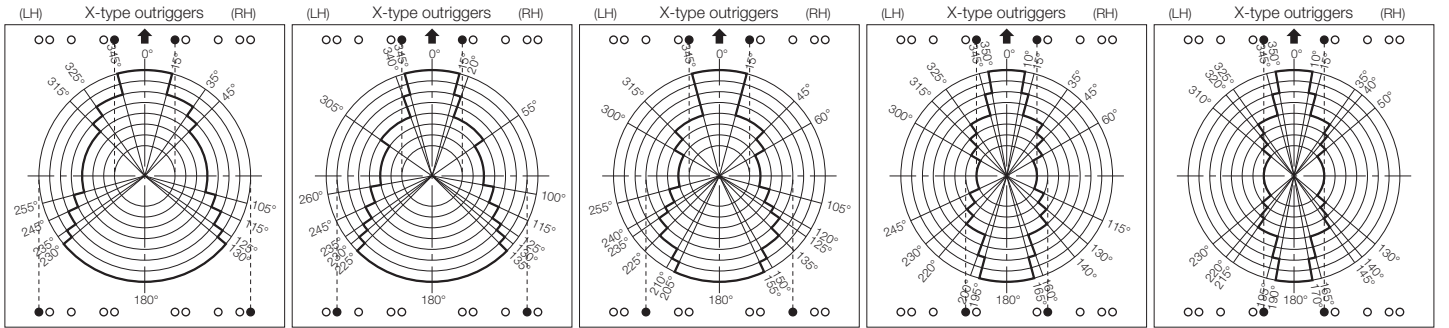
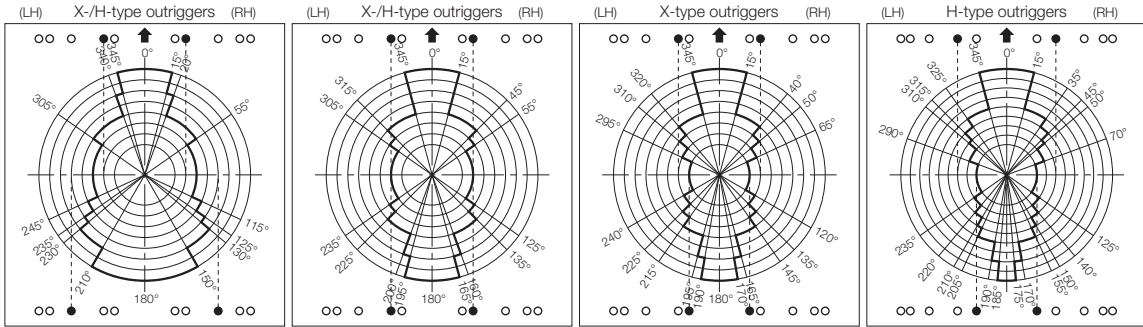
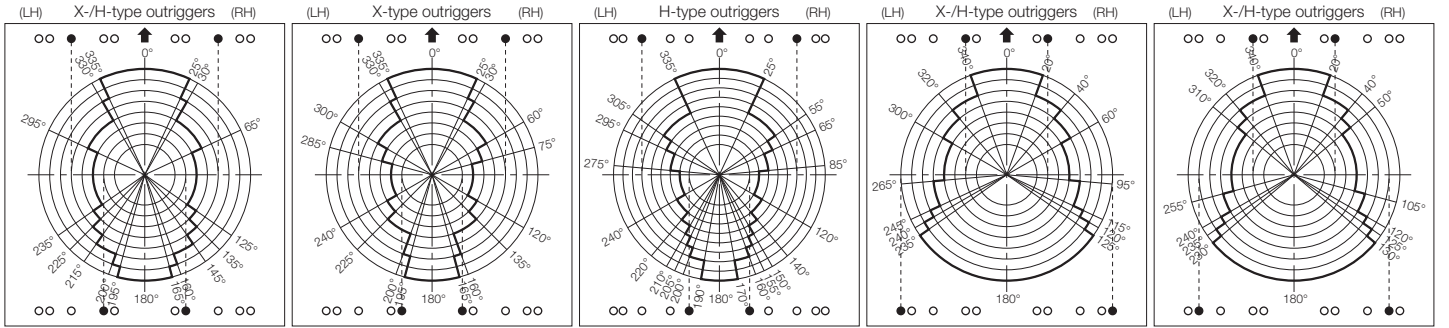
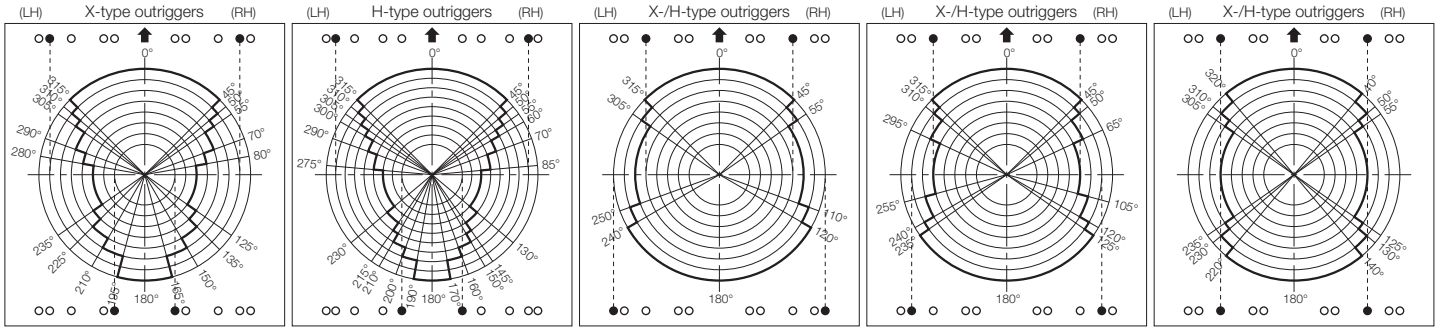
When the boom lift is performed with the outrigger extension width shown in the figure, the capacity and range for each working area will be as follows.

- Area ①: Maximum extension (6.6m) capacity
- Area ②: Capacity calculated by interpolating with outrigger extension width (4.6m)
- Area ③: Capacity calculated by interpolating with outrigger extension width (4.1m)
- Area ④: Middle extension (3.6m) capacity
- Area ⑤: Capacity calculated by interpolating with outrigger extension width (4.1m)
- Area ⑥: Capacity calculated by interpolating with outrigger extension width (4.6m)
- Area ⑦: Capacity calculated by interpolating with outrigger extension width (5.6m)
- Area ⑧: Maximum extension (6.6m) capacity
- Area ⑨: Middle extension (6.1m) capacity

The changeover area between adjacent capacity areas must be 5 degrees, and the capacity area increases or decreases proportionally.

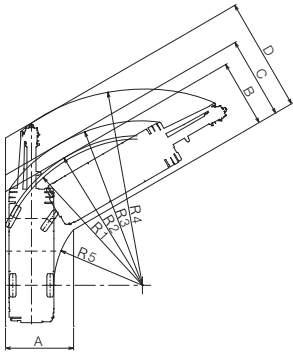
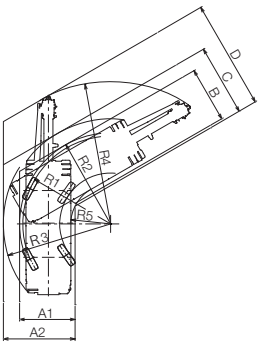
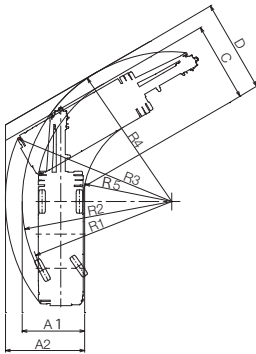
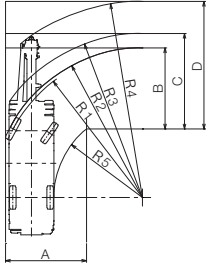
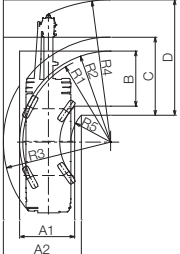
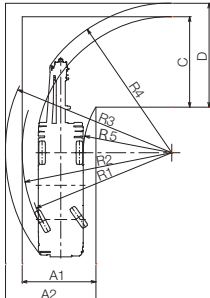
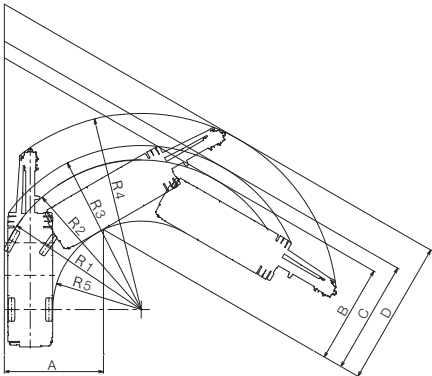
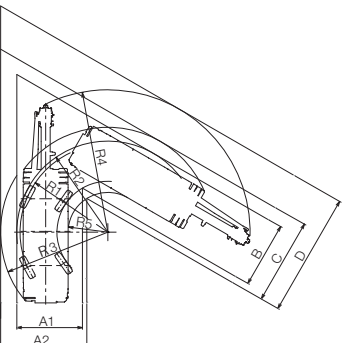
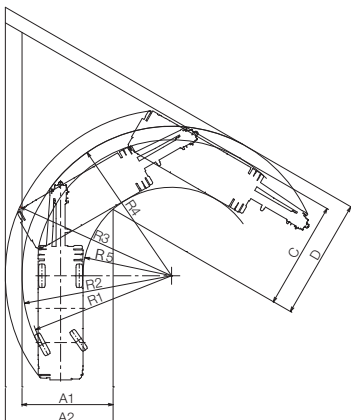
■ Working area diagram





Minimum passage width (60°, 90°, 120°)

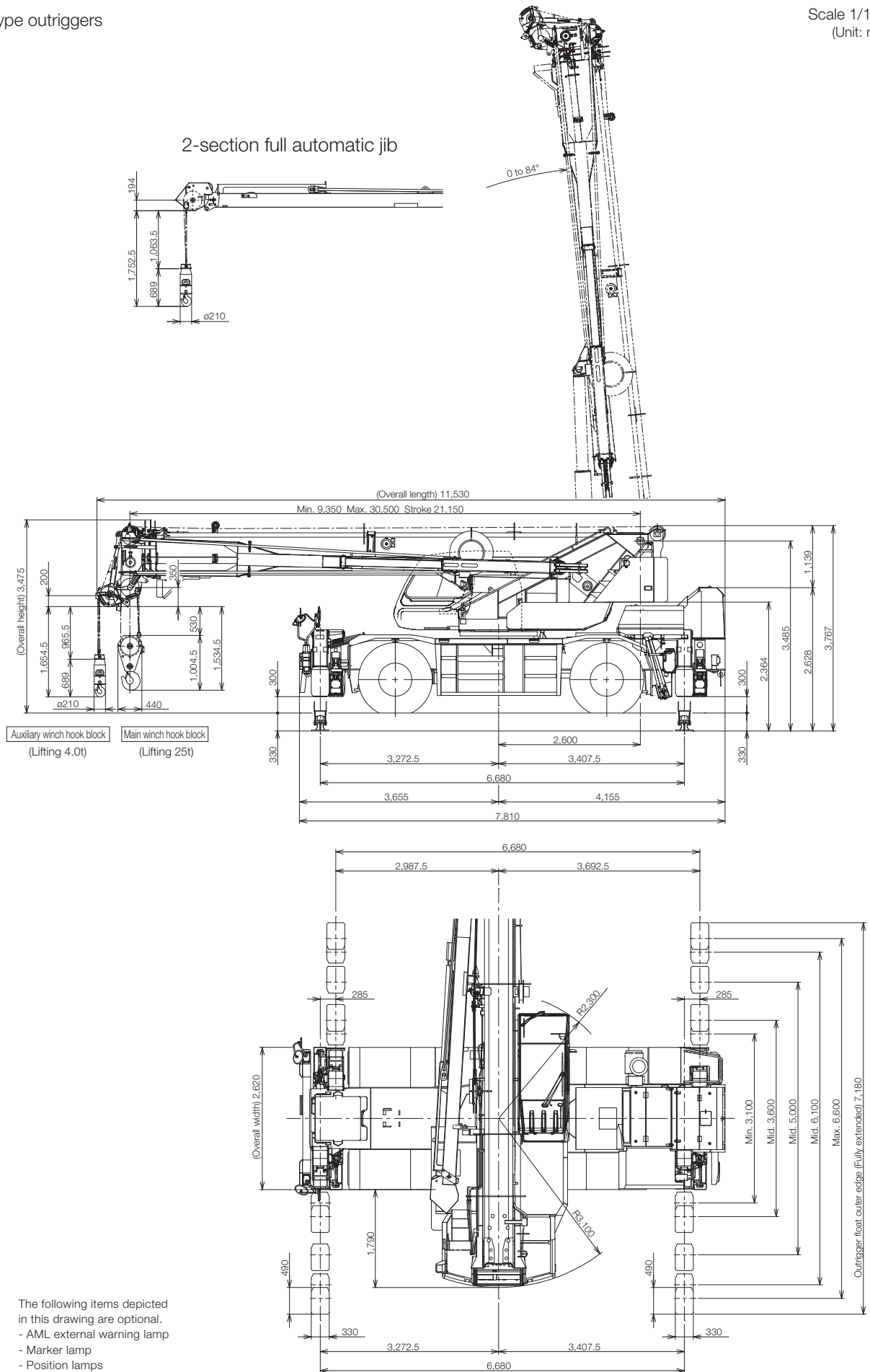
(Note) Indicated values are calculated values.

	While turning right in the front two-wheel steering mode	While turning right in the four-wheel steering mode	While turning right in the rear two-wheel steering mode
60°	 R1=8.50m (Minimum turning radius) R2=8.69m (Outside tire edge turning radius) R3=9.53m (Vehicle turning radius) R4=11.39m (Boom edge turning radius) R5=5.14m (Vehicle inside turning radius) A=3.92m (Entrance passage width) B=3.92m (Tire exit passage width) C=4.76m (Vehicle exit passage width) D=6.62m (Boom edge exit passage width)	 R1=5.10m (Minimum turning radius) R2=5.29m (Outside tire edge turning radius) R3=6.23m (Vehicle turning radius) R4=8.25m (Boom edge turning radius) R5=2.31m (Vehicle inside turning radius) A1=3.23m (Tire entrance passage width) A2=4.17m (Vehicle entrance passage width) B=3.23m (Tire exit passage width) C=4.17m (Vehicle exit passage width) D=6.34m (Boom edge exit passage width)	 R1=8.50m (Minimum turning radius) R2=8.69m (Outside tire edge turning radius) R3=9.66m (Vehicle turning radius) R4=8.69m (Boom edge turning radius) R5=5.14m (Vehicle inside turning radius) A1=3.63m (Tire entrance passage width) A2=4.60m (Vehicle entrance passage width) B=4.60m (Vehicle exit passage width) C=4.60m (Vehicle exit passage width) D=5.38m (Boom edge exit passage width)
90°	 R1=8.50m (Minimum turning radius) R2=8.69m (Outside tire edge turning radius) R3=9.53m (Vehicle turning radius) R4=11.39m (Boom edge turning radius) R5=5.14m (Vehicle inside turning radius) A=4.71m (Entrance passage width) B=4.71m (Tire exit passage width) C=5.55m (Vehicle exit passage width) D=7.41m (Boom edge exit passage width)	 R1=5.10m (Minimum turning radius) R2=5.29m (Outside tire edge turning radius) R3=6.23m (Vehicle turning radius) R4=8.25m (Boom edge turning radius) R5=2.31m (Vehicle inside turning radius) A1=3.20m (Tire entrance passage width) A2=4.54m (Vehicle entrance passage width) B=3.13m (Tire exit passage width) C=4.54m (Vehicle exit passage width) D=6.71m (Boom edge exit passage width)	 R1=8.50m (Minimum turning radius) R2=8.69m (Outside tire edge turning radius) R3=9.66m (Vehicle turning radius) R4=8.69m (Boom edge turning radius) R5=5.14m (Vehicle inside turning radius) A1=4.29m (Tire entrance passage width) A2=5.26m (Vehicle entrance passage width) B=5.26m (Vehicle exit passage width) C=5.26m (Vehicle exit passage width) D=6.04m (Boom edge exit passage width)
120°	 R1=8.50m (Minimum turning radius) R2=8.69m (Outside tire edge turning radius) R3=9.53m (Vehicle turning radius) R4=11.39m (Boom edge turning radius) R5=5.14m (Vehicle inside turning radius) A=5.77m (Entrance passage width) B=5.77m (Tire exit passage width) C=6.60m (Vehicle exit passage width) D=8.47m (Boom edge exit passage width)	 R1=5.10m (Minimum turning radius) R2=5.29m (Outside tire edge turning radius) R3=6.23m (Vehicle turning radius) R4=8.25m (Boom edge turning radius) R5=2.31m (Vehicle inside turning radius) A1=3.82m (Tire entrance passage width) A2=5.01m (Vehicle entrance passage width) B=3.82m (Tire exit passage width) C=5.01m (Vehicle exit passage width) D=7.18m (Boom edge exit passage width)	 R1=8.50m (Minimum turning radius) R2=8.69m (Outside tire edge turning radius) R3=9.66m (Vehicle turning radius) R4=8.69m (Boom edge turning radius) R5=5.14m (Vehicle inside turning radius) A1=5.29m (Tire entrance passage width) A2=6.26m (Vehicle entrance passage width) B=6.26m (Vehicle exit passage width) C=6.26m (Vehicle exit passage width) D=7.05m (Boom edge exit passage width)

■ Dimensions

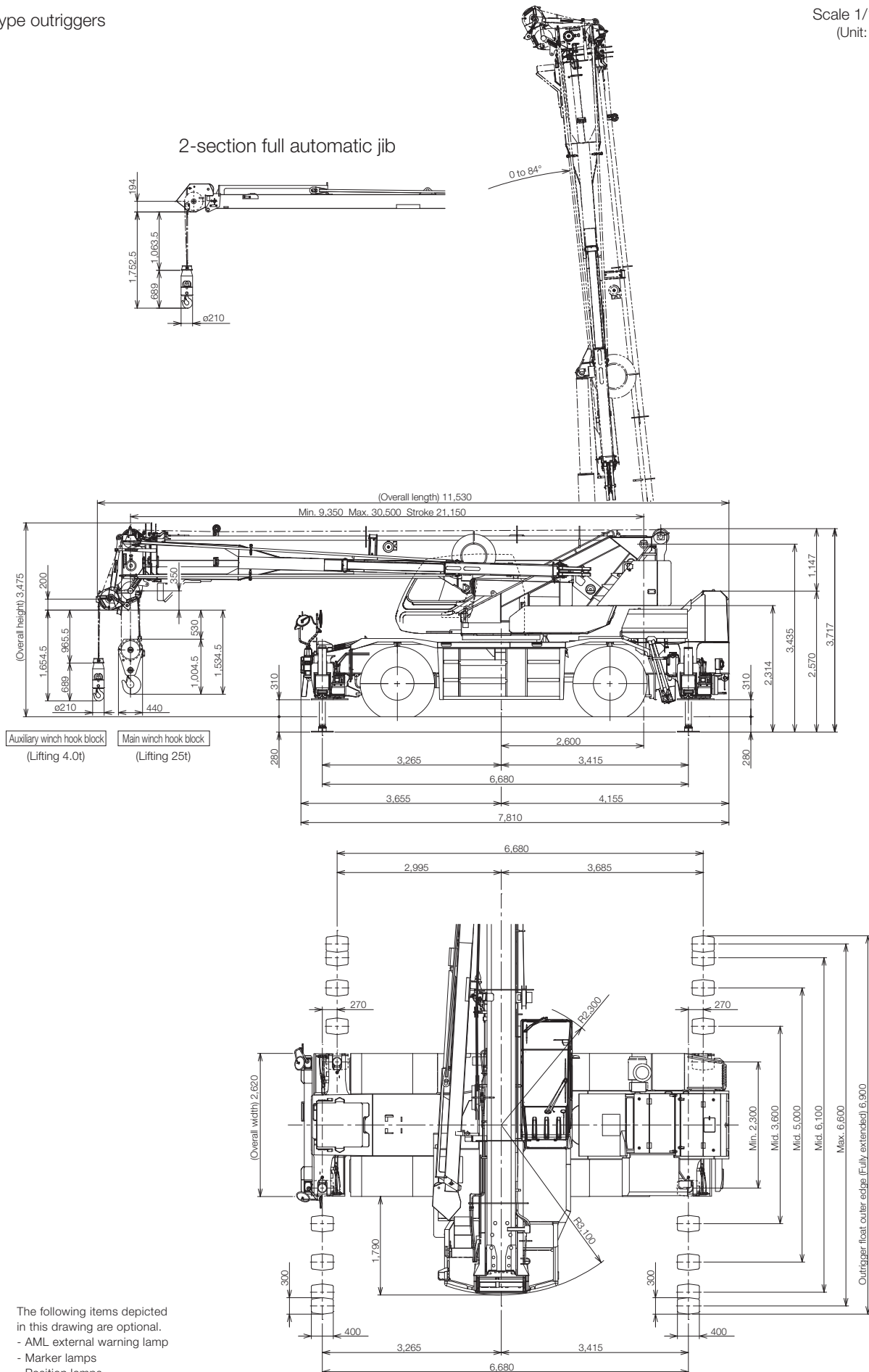
X-type outriggers

Scale 1/100
(Unit: mm)



H-type outriggers

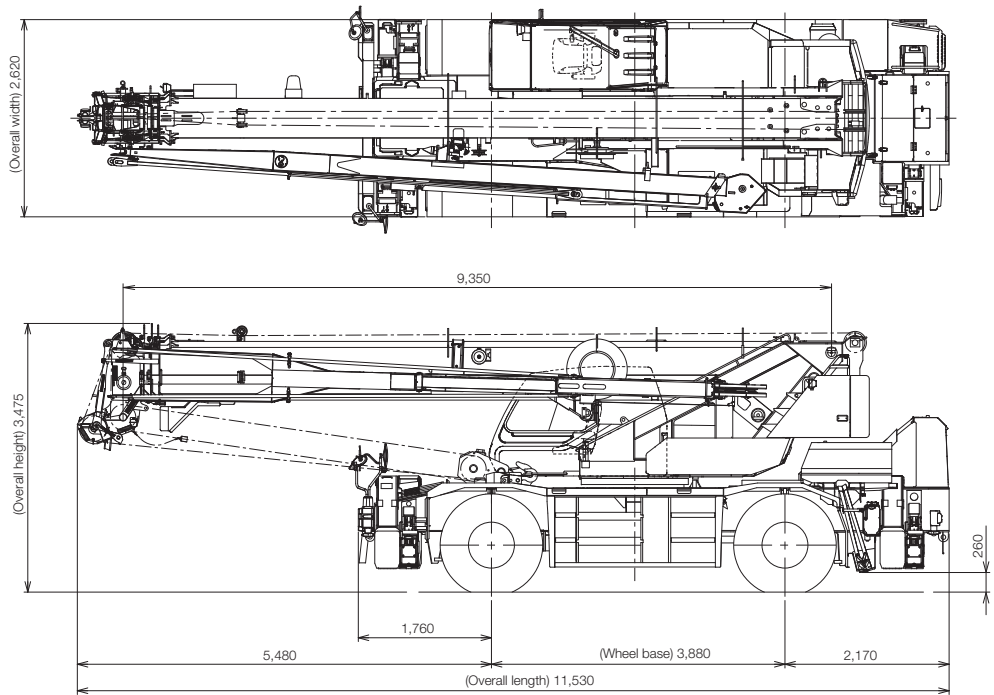
Scale 1/100
(Unit: mm)



■ External view

X-type outriggers

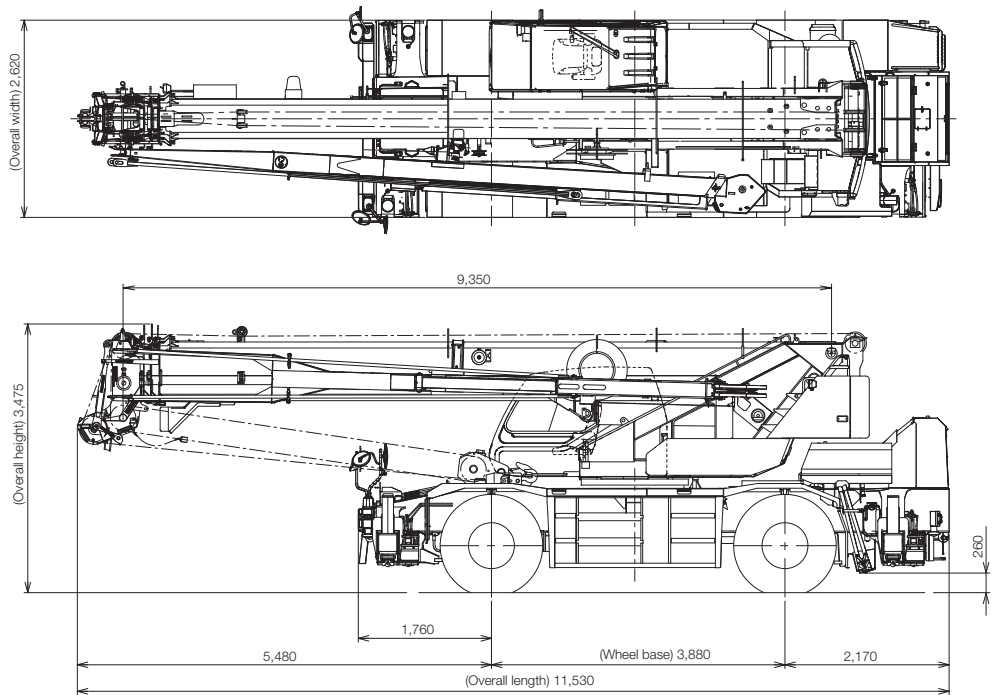
Scale 1/100
(Unit: mm)



The remote control searchlight, AML external warning lamp, marker lamps, and position lamps depicted in this drawing are optional.

H-type outriggers

Scale 1/100
(Unit: mm)



The remote control searchlight, AML external warning lamp, marker lamps, and position lamps depicted in this drawing are optional.

● This machine is conformed to "Weight A under basic traveling condition" of "Newly developed vehicle certifying system".
However, additional traveling conditions shall be ordered by the road administrator at each route.

Model name	Specifications	Spec. No.
GR-250N	Lifting 25t, 4-section boom, 2-stage automatic luffing jib, X-type outriggers	GR-250N-5-00201
GR-250N	Lifting 25t, 4-section boom, 2-stage automatic luffing jib, H-type outriggers	GR-250N-5-00202

Note: Due to improvements, the delivered product may have specifications different from these.
2206-01-01.5