

CRANE SPECIFICATIONS

CRANE CAPACITY

9.35m Boom	25,000kg	x 3.5m	(8 part-line)
16.4m Boom	15,000kg	x 6.5m	(6 part-line)
23.45m Boom	12,500kg	x 5.5m	(4 part-line)
30.5m Boom	8,000kg	x 8.0m	(4 part-line)
8.0m Jib	3,300kg	x 72°	(1 part-line)
13.0m Jib	2,000kg	x 78°	(1 part-line)
Single Top	4,000kg		(1 part-line)

MAXIMUM LIFTING HEIGHT

Boom	31.3m
Jib	44.2m

MAXIMUM WORKING RADIUS

Boom	27.9m
Jib	33.8m

BOOM LENGTH

9.35m ~ 30.5m

BOOM EXTENSION

21.15m

BOOM EXTENSION SPEED

21.15m/80s

Jib Length

8.0m, 13.0m

WINCH WINDING SPEED

Main Winch	120m/min (4 th Layer)
Aux. Winch	120m/min (4 th Layer)

HOOK SPEED

Main Winch	15.0m/min (8 part-line)
Aux. Winch	120m/min (1 part-line)

WINCH WINDING SPEED (REFERENCE)

Main Winch	Standard:	120m/min (4 th Layer)
	High Speed:	160m/min (4 th Layer)
Aux. Winch	Standard:	120m/min (4 th Layer)
	High Speed:	160m/min (4 th Layer)

BOOM ELEVATION ANGLE

0° ~ 84°

BOOM ELEVATION SPEED

0° ~ 84°/45s

SWING ANGLE

360° continuous

SWING SPEED

2.6 min-1 (rpm)

WIRE ROPE

Main Winch	16mm x 170m (Diameter x Length)
	Spin-resistant wire rope
Aux. Winch	16mm x 98m (Diameter x Length)
	Spin-resistant wire rope

BOOM

4-section hydraulically telescoping boom of hexagonal box construction (synchronized telescoping)

BOOM EXTENSION

- 1 double-acting hydraulic cylinder
- 2 wire rope type telescoping device

JIB

Quick-turn type (2-staged type which stores alongside below the base boom section and extendible from under the boom (with 2nd stage being a pull-out type)). Hydraulic non-stage offset (5°~60°) type

SINGLE TOP

Single sheave. Mounted on main boom for single line work.

HOIST

Driven by hydraulic motor and via spur gear reducer.

With free-fall device.

Automatic brake (with foot brake for free-fall device).

2 single winches.

With flow regulator valve with pressure compensation.

Boom Elevation

1 double-acting hydraulic cylinder

With flow regulator valve with pressure compensation.

SWING

Hydraulic motor driven planetary gear reducer

Swing bearing

Swing free/lock changeover type

Negative brake

OUTRIGGERS

Fully hydraulic X-type or H-type (floats mounted integrally)

Slides and jacks each provided with independent operation device.

Fully extended width 6.5m

Middle extended width 6.1m, 5.0m, 3.6m

Minimum extend width 3.1m (X-type), 2.3m (H-type)

OPERATION METHOD

Hydraulic pilot valve operation

MAX. VERTICAL LOAD CAPACITY OF OUTRIGGERS

26.9t

POWER TAKE-OFF

PTO wet multi-plate clutch

HYDRAULIC PUMPS

2 variable piston pumps

3 gear pumps

SAFETY DEVICES

Automatic Moment Limiter (AML)

Swing automatic stop device

Elevation slow down and stop device

Over-winding cutout device

Working area control device

Outrigger extension width detector

Telescopic counterbalance valve

Elevation counterbalance valve

Power tilt counterbalance valve

Level gauge

Hydraulic safety valve

Jack pilot check valve

Swing lock

Hook safety latch

EQUIPMENT

Air-conditioner with dehumidifier

Hydraulic oil temperature indication lamp,

FM/AM Radio

Oil Cooler

Visual type winch drum rotation indicator

Operation pedals

ISO arrangement: for telescoping/auxiliary hoisting

Tadano arrangement: for elevating/telescoping

HELLO-NET Owner's Site

Fuel Consumption Monitor

ECO Mode

CARRIER SPECIFICATIONS

Carrier Model	Tadano UDS-T007
Model	Mitsubishi 6M60---TLE3BA (with turbocharger and air cooler)
Type	4-cycle, 6-cylinder, direct injection, water-cooled diesel engine
Displacement	7,545cc
Max. Output	200kW/2,600min-1
Max. Torque	775N.m (79.0kgf.m)/1,600min-1(rpm)

TORQUE CONVERTOR

3-element, 1-stage unit (with automatic lock-up mechanism)

TRANSMISSION

Automatic and manual transmission
 Power shift type (wet multi-plate clutch)
 3 forward and 1 reverse speeds (with HI/LO settings)

REDUCER

Axle dual-ratio reduction

DRIVE

2WD (4X2)/ 4WD (4X4) selection

FRONT AXLE

Full floating type

REAR AXLE

Full floating type

SUSPENSION

Front	Hydro-pneumatic suspension (with hydraulic lock cylinder)
Rear	Hydro-pneumatic suspension (with hydraulic lock cylinder)

STEERING

Fully hydraulic power steering

BRAKE SYSTEM

Service brake	Hydro-pneumatic disk brake
Parking brake	Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear
Auxiliary Brake	Hydrodynamic retarder Electro-pneumatic operated exhaust brake Auxiliary braking device for operations

FRAME

Welded box-shaped structure

ELECTRIC SYSTEM

12V – 120Ah x 2 (24V)

FUEL TANK CAPACITY

300 liters

TIRES

Front	385/95 R25 170E ROAD
Rear	385/95 R25 170E ROAD

CAB

One-man type
 With interior equipment
 Liquid filled rubber mounted type
 Fully adjustable foldable seat (with headrest, armrest and selt belt)
 Adjustable handle (tilt, telescoping)
 Intermittent type windshield/roof wiper (with washer)
 Power window
 Side visor

SAFETY DEVICE

Emergency steering device
 Suspension lock device

Rear wheel steering lock device
 Engine over-run device
 Overshift prevention device
 Parking park alarm
 Monitor TV for left /right of boom

EQUIPMENT

Electric mirror
 Tire gear stop

OPTION

Winch drum surveillance camera
 Rear view camera
 AML exterior display lamp
 Roadside lamp
 Marker lamp
 External audio warning device
 Discharge headlamps

DIMENSIONS

Overall length	11,530mm
Overall width	2,620mm
Overall height	3,495mm
Wheel base	3,880mm
Tread	Front 2,170mm Rear 2,170mm

PERFORMANCE

Max. traveling speed	49km/h
Gradeability (tan θ)	0.57
Min. turning radius	5.1m (4-wheel steering) 8.5m (2-wheel steering)

WEIGHTS

Gross vehicle weight	25,595kg
Front axle	12,800kg
Rear axle	12,795kg

RATED LIFTING CAPACITY CHARTS WITH OUTRIGGERS

BOOM Unit:(t)

Outrigger Fully Extended (6.5m) -360°-				
Boom length / work radius	9.35m	16.4m	23.45m	30.5m
2.5m	25.0	15.0	12.5	
3.0m	25.0	15.0	12.5	
3.5m	25.0	15.0	12.5	8.0
4.0m	23.5	15.0	12.5	8.0
4.5m	21.5	15.0	12.5	8.0
5.0m	19.6	15.0	12.5	8.0
5.5m	17.8	15.0	12.5	8.0
6.0m	16.3	15.0	12.4	8.0
6.5m	15.1	15.0	11.7	8.0
7.0m		14.0	11.0	8.0
8.0m		11.3	9.8	8.0
9.0m		9.2	8.8	7.6
10.0m		7.5	7.6	6.9
11.0m		6.3	6.6	6.3
12.0m		5.35	5.6	5.6
13.0m		4.6	4.85	4.9
13.5m		4.25	4.5	4.6
14.0m			4.25	4.3
15.0m			3.7	3.8
16.0m			3.25	3.4
17.0m			2.9	3.0
18.0m			2.55	2.65
19.0m			2.3	2.4
20.0m			2.05	2.15
20.5m			1.95	2.0
21.0m				1.9
22.0m				1.7
24.0m				1.35
26.0m				1.1
27.9m				0.9
A(°)	0~84			

A: Boom angle range (without load)

BOOM Unit:(t)

Intermediate Extended (6.1m) -Over side-				
Boom length / work radius	9.35m	16.4m	23.45m	30.5m
2.5m	25.0	15.0	12.5	
3.0m	25.0	15.0	12.5	
3.5m	25.0	15.0	12.5	8.0
4.0m	23.5	15.0	12.5	8.0
4.5m	21.5	15.0	12.5	8.0
5.0m	19.6	15.0	12.5	8.0
5.5m	17.8	15.0	12.5	8.0
6.0m	16.3	15.0	12.4	8.0
6.5m	15.0	15.0	11.7	8.0
7.0m		13.3	11.0	8.0
8.0m		10.3	9.8	8.0
9.0m		8.3	8.5	7.6
10.0m		6.8	7.0	6.9
11.0m		5.7	5.9	6.0
12.0m		4.9	5.0	5.15
13.0m		4.2	4.35	4.45
13.5m		3.9	4.0	4.15
14.0m			3.8	3.9
15.0m			3.3	3.4
16.0m			2.9	3.0
17.0m			2.6	2.65
18.0m			2.3	2.35
19.0m			2.05	2.1
20.0m			1.85	1.85
20.5m			1.75	1.75
21.0m				1.65
22.0m				1.5
24.0m				1.2
26.0m				0.95
27.8m				0.75
A(°)	0~84			

A: Boom angle range (without load)

BOOM Unit:(t)

Intermediate Extended (5.0m) -Over side-				
Boom length / work radius	9.35m	16.4m	23.45m	30.5m
2.5m	25.0	15.0	12.5	
3.0m	25.0	15.0	12.5	
3.5m	25.0	15.0	12.5	8.0
4.0m	23.5	15.0	12.5	8.0
4.5m	21.2	15.0	12.5	8.0
5.0m	18.0	15.0	12.5	8.0
5.5m	14.7	15.0	12.5	8.0
6.0m	12.3	12.7	12.4	8.0
6.5m	10.5	10.9	11.15	8.0
7.0m		9.55	9.8	8.0
8.0m		7.45	7.7	7.6
9.0m		6.0	6.25	6.4
10.0m		4.95	5.15	5.3
11.0m		4.1	4.35	4.45
12.0m		3.5	3.7	3.8
13.0m		3.0	3.15	3.25
13.5m		2.8	2.9	3.0
14.0m			2.7	2.8
15.0m			2.35	2.4
16.0m			2.05	2.1
17.0m			1.75	1.85
18.0m			1.55	1.6
19.0m			1.35	1.4
20.0m			1.2	1.2
20.5m			1.1	1.1
21.0m				1.05
22.0m				0.9
24.0m				0.65
A(°)	0~84			32~84

A: Boom angle range (without load)

BOOM Unit:(t)

Intermediate Extended (3.6m) -Over side-				
Boom length / work radius	9.35m	16.4m	23.45m	30.5m
2.5m	25.0	15.0	12.5	
3.0m	25.0	15.0	12.5	
3.5m	20.0	15.0	12.5	8.0
4.0m	15.4	15.0	12.5	8.0
4.5m	12.1	12.7	12.5	8.0
5.0m	9.9	10.6	10.6	8.0
5.5m	8.25	8.9	9.0	8.0
6.0m	7.0	7.6	7.8	7.6
6.5m	6.0	6.55	6.8	6.8
7.0m		5.75	5.95	6.0
8.0m		4.5	4.7	4.75
9.0m		3.6	3.8	3.85
10.0m		2.9	3.1	3.15
11.0m		2.4	2.55	2.6
12.0m		1.95	2.1	2.15
13.0m		1.6	1.75	1.8
13.5m		1.45	1.6	1.65
14.0m			1.45	1.5
15.0m			1.2	1.25
16.0m			1.0	1.05
17.0m			0.8	0.85
18.0m			0.65	0.7
19.0m			0.5	0.55
A(°)	0~84		25~84	47~84

A: Boom angle range (without load)

BOOM (X-TYPE) Unit:(t)

Fully Retracted (3.1m) -Over side-				
Boom length / work radius	9.35m	16.4m	23.45m	30.5m
2.5m	18.0	15.0	12.5	
3.0m	18.0	15.0	12.5	
3.5m	14.5	15.0	12.5	8.0
4.0m	11.6	12.0	12.5	8.0
4.5m	9.3	10.0	10.2	8.0
5.0m	7.6	8.4	8.6	8.0
5.5m	6.4	7.1	7.3	7.3
6.0m	5.4	6.1	6.3	6.3
6.5m	4.7	5.3	5.5	5.5
7.0m		4.6	4.85	4.9
8.0m		3.6	3.8	3.8
9.0m		2.8	3.05	3.05
10.0m		2.3	2.45	2.5
11.0m		1.8	2.0	2.05
12.0m		1.5	1.6	1.65
13.0m		1.2	1.3	1.35
13.5m		1.0	1.2	1.25
14.0m			1.05	1.1
15.0m			0.85	0.9
16.0m			0.65	0.7
17.0m			0.5	0.55
A(°)	0~84		36~84	52~84

A: Boom angle range (without load)

BOOM (H-TYPE) Unit:(t)

Fully Retracted (2.3m) -Over side-				
Boom length / work radius	9.35m	16.4m	23.45m	30.5m
2.5m	12.2	12.0	10.0	
3.0m	12.2	12.0	10.0	
3.5m	9.8	10.0	10.0	6.0
4.0m	7.6	8.0	8.5	6.0
4.5m	6.1	6.7	7.0	6.0
5.0m	5.0	5.5	5.8	5.8
5.5m	4.1	4.6	4.9	5.0
6.0m	3.4	4.0	4.25	4.35
6.5m	2.9	3.4	3.65	3.75
7.0m		2.95	3.15	3.3
8.0m		2.2	2.4	2.5
9.0m		1.65	1.85	1.95
10.0m		1.2	1.4	1.5
11.0m		0.9	1.1	1.15
12.0m		0.65	0.8	0.9
A(°)	0~84	30~84	54~84	64~84

A: Boom angle range (without load)

RATED LIFTING CAPACITY CHARTS

WITH OUTRIGGERS

JIB (30.5M BOOM)

Unit:(t)

Fully Extended (6.5m) -360°-																		
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib									
	5°		25°		45°		60°		5°		25°		45°		60°			
	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load		
Offset																		
Boom Angle																		
84°	4.1	3.3	6.6	2.3	8.7	1.7	9.6	1.05	5.2	2.0	9.8	1.25	12.8	0.85	14.3	0.55		
80°	7.3	3.3	9.5	2.3	11.5	1.7	12.1	1.05	8.9	2.0	13.2	1.25	15.8	0.85	16.9	0.55		
76°	8.8	3.3	10.9	2.3	12.8	1.7	13.3	1.05	10.5	2.0	14.7	1.2	17.1	0.85	18.1	0.55		
78°	10.2	3.3	12.3	2.3	14.0	1.7	14.4	1.05	12.1	1.9	16.1	1.15	18.4	0.85	19.2	0.55		
74°	11.7	3.3	13.6	2.3	15.2	1.65	15.5	1.05	13.7	1.8	17.5	1.1	19.6	0.85	20.3	0.55		
72°	13.0	3.3	14.8	2.3	16.3	1.65	16.6	1.05	15.1	1.65	19.0	1.1	20.8	0.85	21.4	0.55		
70°	14.4	3.25	16.1	2.3	17.4	1.6	17.7	1.05	16.7	1.6	20.3	1.05	22.0	0.85	22.5	0.55		
68°	15.6	3.0	17.2	2.25	18.5	1.55	18.7	1.0	18.1	1.5	21.6	1.0	23.1	0.85	23.5	0.55		
65°	17.2	2.55	18.9	2.05	20.0	1.55	20.1	1.0	20.1	1.4	23.5	1.0	24.7	0.84	25.0	0.55		
60°	20.0	1.85	21.5	1.65	22.6	1.5	22.5	1.0	23.4	1.25	26.5	0.95	27.4	0.81	27.4	0.54		
55°	22.5	1.35	23.9	1.2	24.8	1.2			26.4	1.1	29.2	0.91	29.7	0.79				
53°	23.5	1.2	24.9	1.1	25.6	1.05			27.5	0.98	30.2	0.87	30.5	0.79				
50°	24.9	1.0	26.1	0.92	26.7	0.92			29.0	0.81	31.5	0.72	31.7	0.7				
47°	26.2	0.81	27.4	0.75	27.8	0.75			30.4	0.65	32.7	0.58	32.8	0.57				
45°	27.1	0.7	28.1	0.65	28.5	0.65			31.4	0.56	33.5	0.5	33.4	0.49				
40°	29.1	0.47	29.9	0.43					33.6	0.36								
A(*)	39~84				44~84				59~84				44~84				59~84	

A: Boom angle range (without load)

JIB (30.5M BOOM)

Unit:(t)

Intermediate Extended (6.1m) -Over side-																
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib							
	5°		25°		45°		60°		5°		25°		45°		60°	
	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load
84°	4.1	3.3	6.6	2.3	8.7	1.7	9.6	1.05	5.2	2.0	9.8	1.25	12.8	0.85	14.3	0.55
80°	7.3	3.3	9.5	2.3	11.5	1.7	12.1	1.05	8.9	2.0	13.2	1.25	15.8	0.85	16.9	0.55
78°	8.8	3.3	10.9	2.3	12.8	1.7	13.3	1.05	10.5	2.0	14.7	1.2	17.1	0.85	18.1	0.55
76°	10.2	3.3	12.3	2.3	14.0	1.7	14.4	1.05	12.1	1.9	16.1	1.15	18.4	0.85	19.2	0.55
74°	11.7	3.3	13.6	2.3	15.2	1.65	15.5	1.05	13.7	1.8	17.5	1.1	19.6	0.85	20.3	0.55
72°	13.0	3.3	14.8	2.3	16.3	1.65	16.6	1.05	15.1	1.65	19.0	1.1	20.8	0.85	21.4	0.55
70°	14.4	3.25	16.1	2.3	17.4	1.6	17.7	1.05	16.7	1.6	20.3	1.05	22.0	0.85	22.5	0.55
68°	15.6	3.0	17.2	2.25	18.5	1.55	18.7	1.0	18.1	1.5	21.6	1.0	23.1	0.85	23.5	0.55
65°	17.2	2.4	18.9	2.05	20.0	1.55	20.1	1.0	20.1	1.4	23.5	1.0	24.7	0.84	25.0	0.55
60°	19.9	1.7	21.5	1.5	22.3	1.45	22.5	1.0	23.4	1.25	26.5	0.95	27.4	0.81	27.4	0.54
55°	22.5	1.2	23.9	1.1	24.8	1.1			26.4	1.0	29.2	0.88	29.7	0.79		
53°	23.4	1.05	24.8	0.99	25.6	0.98			27.4	0.88	30.1	0.78	30.5	0.75		
50°	24.9	0.88	26.1	0.8	26.7	0.81			29.0	0.71	31.4	0.62	31.7	0.61		
47°	26.2	0.69	27.3	0.63	27.8	0.64			30.4	0.55	32.6	0.48	32.7	0.48		
45°	27.0	0.58	28.1	0.53	28.4	0.54			31.3	0.46	33.4	0.4	33.4	0.4		
40°	29.0	0.36														
A(°)	39~84		44~84		59~84				44~84				59~84			

A: Boom angle range (without load)

JIB (30.5M BOOM)

Unit:(t)

Intermediate Extended (5.0m) –Over side-																								
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib															
Offset	5°		25°		45°		60°		5°		25°		45°		60°									
Boom Angle	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load								
84°	4.1	3.3	6.6	2.3	8.7	1.7	9.6	1.05	5.2	2.0	9.8	1.25	12.8	0.85	14.3	0.55								
80°	7.3	3.3	9.5	2.3	11.5	1.7	12.1	1.05	8.9	2.0	13.2	1.25	15.8	0.85	16.9	0.55								
78°	8.8	3.3	10.9	2.3	12.8	1.7	13.3	1.05	10.5	2.0	14.7	1.2	17.1	0.85	18.1	0.55								
76°	10.2	3.3	12.3	2.3	14.0	1.7	14.4	1.05	12.1	1.9	16.1	1.15	18.4	0.85	19.2	0.55								
74°	11.7	3.3	13.6	2.3	15.2	1.65	15.5	1.05	13.7	1.8	17.5	1.1	19.6	0.85	20.3	0.55								
72°	13.0	3.15	14.8	2.3	16.3	1.65	16.6	1.05	15.1	1.65	19.0	1.1	20.8	0.85	21.4	0.55								
70°	14.1	2.6	16.0	2.15	17.4	1.6	17.7	1.05	16.7	1.6	20.4	1.05	22.0	0.85	22.5	0.55								
68°	15.2	2.2	17.1	1.85	18.5	1.55	18.7	1.0	18.1	1.5	21.6	1.0	23.1	0.85	23.5	0.55								
65°	16.9	1.7	18.7	1.45	20.0	1.35	20.1	1.0	20.1	1.35	23.5	1.0	24.7	0.84	25.0	0.55								
60°	19.6	1.1	21.3	0.98	22.4	0.94	22.5	0.93	23.2	0.9	26.3	0.74	27.3	0.7	27.4	0.54								
55°	22.2	0.71	23.7	0.62	24.6	0.61			26.0	0.55	28.8	0.45	29.6	0.43										
53°	23.2	0.56	24.6	0.49	25.4	0.48			27.1	0.43														
50°	24.6	0.37																						
A(*)	49°~84				52°~84				59°~84				52°~84				54°~84				59°~84			

A: Boom angle range (without load)

JIB (30.5M BOOM)

Unit:(t)

Intermediate Extended (3.6m) -Over side-																
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib							
Offset	5°		25°		45°		60°		5°		25°		45°		60°	
Boom Angle	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)
84°	4.1	3.3	6.6	2.3	8.7	1.7	9.6	1.05	5.2	2.0	9.8	1.25	12.8	0.85	14.3	0.55
80°	7.3	3.3	9.5	2.3	11.5	1.7	12.1	1.05	8.9	2.0	13.2	1.25	15.8	0.85	16.9	0.55
78°	8.8	3.3	10.9	2.3	12.8	1.7	13.3	1.05	10.5	2.0	14.7	1.2	17.1	0.85	18.1	0.55
76°	10.1	2.9	12.3	2.25	14.0	1.7	14.4	1.05	12.1	1.9	16.1	1.15	18.4	0.85	19.2	0.55
74°	11.3	2.35	13.4	1.85	15.1	1.6	15.5	1.05	13.7	1.8	17.5	1.1	19.6	0.85	20.3	0.55
72°	12.4	1.85	14.5	1.5	16.2	1.3	16.6	1.05	15.0	1.45	19.0	1.1	20.8	0.85	21.4	0.55
70°	13.6	1.45	15.7	1.2	17.2	1.1	17.7	1.05	16.3	1.15	20.2	0.92	21.9	0.82	22.5	0.55
68°	14.8	1.15	16.7	0.98	18.2	0.89	18.6	0.87	17.7	0.95	21.3	0.74	23.0	0.67	23.5	0.55
65°	16.5	0.81	18.4	0.69	19.7	0.63	20.0	0.62	19.6	0.65	23.1	0.51	24.5	0.45	25.0	0.46
60°	19.3	0.35														
A(*)	59°-84				64°-84				64°-84							

A: Boom angle range (without load)

JIB (23.45M BOOM)

Unit:(t)

Fully Extended (5.0m) -360°-																
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib							
	5°		25°		45°		60°		5°		25°		45°		60°	
Offset	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load
Angle	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)
84°	3.0	3.3	5.5	2.3	7.6	1.7	8.6	1.05	4.0	2.0	8.4	1.25	11.6	0.85	13.2	0.55
80°	5.3	3.3	7.8	2.3	9.6	1.7	10.5	1.05	6.9	2.0	11.0	1.25	13.8	0.85	15.2	0.55
78°	6.5	3.3	8.8	2.3	10.6	1.7	11.4	1.05	8.2	2.0	12.2	1.2	14.9	0.85	16.1	0.55
76°	7.6	3.3	9.9	2.3	11.6	1.7	12.2	1.05	9.5	1.9	13.4	1.15	16.0	0.85	17.0	0.55
74°	8.7	3.3	10.9	2.3	12.5	1.65	13.1	1.05	10.7	1.8	14.5	1.1	16.9	0.85	17.9	0.55
72°	9.8	3.3	11.8	2.3	13.4	1.65	13.9	1.05	11.9	1.65	15.6	1.1	17.9	0.85	18.8	0.55
70°	10.9	3.3	12.8	2.3	14.2	1.6	14.7	1.05	13.1	1.6	16.7	1.05	18.8	0.85	19.6	0.55
68°	11.9	3.3	13.8	2.3	15.1	1.55	15.5	1.0	14.3	1.5	17.7	1.0	19.8	0.85	20.4	0.55
65°	13.4	3.3	15.2	2.3	16.3	1.55	16.6	1.0	15.9	1.4	19.3	1.0	21.0	0.84	21.6	0.55
60°	15.7	2.9	17.4	2.3	18.4	1.5	18.5	1.0	18.7	1.25	21.7	0.95	23.1	0.81	23.4	0.54
55°	17.9	2.6	19.5	2.15	20.2	1.45			21.2	1.15	24.0	0.91	25.0	0.79		
53°	18.7	2.35	20.3	2.1	21.0	1.45			22.2	1.1	24.8	0.9	25.7	0.79		
50°	19.9	2.05	21.3	1.85	22.0	1.45			23.6	1.05	26.0	0.88	26.7	0.78		
47°	21.0	1.8	22.3	1.65	22.9	1.45			24.9	1.0	27.1	0.87	27.6	0.78		
45°	21.7	1.65	23.0	1.55	23.5	1.45			25.7	1.0	27.8	0.87	28.1	0.78		
40°	23.3	1.35	24.4	1.3					27.7	0.95	29.4	0.86				
35°	24.8	1.15	25.7	1.1					29.4	0.91	30.7	0.85				
30°	26.1	1.0	26.7	0.97					30.8	0.8	31.7	0.74				
25°	27.2	0.88	27.5	0.86					32.0	0.68	32.5	0.64				
20°	28.0	0.79							32.9	0.6						
15°	28.6	0.73							33.5	0.55						
10°	29.0	0.68							33.8	0.53						
5°	29.0	0.68							33.8	0.53						
A(*)	4°~84	24°~84	44°~84	59°~84					4°~84	24°~84	44°~84	59°~84				

A: Boom angle range (without load)

JIB (23.45 BOOM)

Unit:(t)

Intermediate Extended (6.1m) -Over side-																
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib							
Offset	5°		25°		45°		60°		5°		25°		45°		60°	
Boom Angle	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load
84°	3.0	3.3	5.5	2.3	7.6	1.7	8.6	1.05	4.0	2.0	8.4	1.25	11.6	0.85	13.2	0.55
80°	5.3	3.3	7.8	2.3	9.6	1.7	10.5	1.05	6.9	2.0	11.0	1.25	13.8	0.85	15.2	0.55
78°	6.5	3.3	8.8	2.3	10.6	1.7	11.4	1.05	8.2	2.0	12.2	1.2	14.9	0.85	16.1	0.55
76°	7.6	3.3	9.9	2.3	11.6	1.7	12.2	1.05	9.5	1.9	13.4	1.15	16.0	0.85	17.0	0.55
74°	8.7	3.3	10.9	2.3	12.5	1.65	13.1	1.05	10.7	1.8	14.5	1.1	16.9	0.85	17.9	0.55
72°	9.8	3.3	11.8	2.3	13.4	1.65	13.9	1.05	11.9	1.65	15.6	1.1	17.9	0.85	18.8	0.55
70°	10.9	3.3	12.8	2.3	14.2	1.6	14.7	1.05	13.1	1.6	16.7	1.05	18.8	0.85	19.6	0.55
68°	11.9	3.3	13.8	2.3	15.1	1.55	15.5	1.0	14.3	1.5	17.7	1.0	19.8	0.85	20.4	0.55
65°	13.4	3.3	15.2	2.3	16.3	1.55	16.6	1.0	15.9	1.4	19.3	1.0	21.0	0.84	21.6	0.55
60°	15.7	2.85	17.4	2.3	18.4	1.5	18.5	1.0	18.7	1.25	21.7	0.95	23.1	0.81	23.4	0.54
55°	17.9	2.2	19.4	1.95	20.2	1.45			21.2	1.15	24.0	0.91	25.0	0.79		
53°	18.6	2.0	20.2	1.8	21.0	1.45			22.2	1.1	24.8	0.9	25.7	0.79		
50°	19.8	1.75	21.2	1.6	22.0	1.45			23.6	1.05	26.0	0.88	26.7	0.78		
47°	20.9	1.55	22.3	1.4	22.9	1.4			24.9	1.0	27.1	0.87	27.6	0.78		
45°	21.6	1.4	22.9	1.3	23.4	1.3			25.7	1.0	27.8	0.87	28.1	0.78		
40°	23.3	1.15	24.4	1.05					27.7	0.95	29.4	0.86				
35°	24.8	0.95	25.6	0.9					29.4	0.75	30.7	0.7				
30°	26.1	0.8	26.7	0.75					30.8	0.62	31.7	0.6				
25°	27.2	0.7	27.5	0.65					32.0	0.52	32.5	0.5				
20°	28.0	0.6							32.9	0.45						
15°	28.6	0.55							33.5	0.4						
10°	28.9	0.5							33.8	0.38						
5°	29.0	0.5							33.8	0.38						
A(*)	4~R4		24~R4		44~R4		59~R4		4~R4		24~R4		44~R4		59~R4	

A: Boom angle range (without load)

RATED LIFTING CAPACITY CHARTS

JIB (23.45 BOOM)

Unit:(t)

Intermediate Extended (5.0m) -Over side-																
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib							
Offset	5°		25°		45°		60°		5°		25°		45°		60°	
Boom Angle	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)	W/R (m)	Load (t)
84°	3.0	3.3	5.5	2.3	7.6	1.7	8.6	1.05	4.0	2.0	8.4	1.25	11.6	0.85	13.2	0.55
80°	5.3	3.3	7.8	2.3	9.6	1.7	10.5	1.05	6.9	2.0	11.0	1.25	13.8	0.85	15.2	0.55
78°	6.5	3.3	8.8	2.3	10.6	1.7	11.4	1.05	8.2	2.0	12.2	1.2	14.9	0.85	16.1	0.55
76°	7.6	3.3	9.9	2.3	11.6	1.7	12.2	1.05	9.5	1.9	13.4	1.15	16.0	0.85	17.0	0.55
74°	8.7	3.3	10.9	2.3	12.5	1.65	13.1	1.05	10.7	1.8	14.5	1.1	16.9	0.85	17.9	0.55
72°	9.8	3.3	11.8	2.3	13.4	1.65	13.9	1.05	11.9	1.65	15.6	1.1	17.9	0.85	18.8	0.55
70°	10.9	3.3	12.8	2.3	14.2	1.6	14.7	1.05	13.1	1.6	16.7	1.05	18.8	0.85	19.6	0.55
68°	11.9	3.3	13.8	2.3	15.1	1.55	15.5	1.0	14.3	1.5	17.7	1.0	19.8	0.85	20.4	0.55
65°	13.3	3.0	15.2	2.3	16.3	1.55	16.6	1.0	15.9	1.4	19.3	1.0	21.0	0.84	21.6	0.55
60°	15.6	2.2	17.3	1.85	18.4	1.5	18.5	1.0	18.7	1.25	21.7	0.95	23.1	0.81	23.4	0.54
55°	17.7	1.65	19.3	1.42	20.2	1.3			21.2	1.15	24.0	0.91	25.0	0.79		
53°	18.6	1.45	20.1	1.28	20.9	1.2			22.2	1.1	24.8	0.9	25.7	0.79		
50°	19.7	1.2	21.1	1.08	21.9	1.05			23.5	0.95	26.0	0.8	26.7	0.78		
47°	20.8	1.0	22.1	0.92	22.7	0.9			24.8	0.8	27.1	0.68	27.5	0.67		
45°	21.5	0.9	22.8	0.82	23.2	0.8			25.6	0.7	27.7	0.6	28.0	0.6		
40°	23.2	0.7	24.2	0.62					27.5	0.5	29.3	0.44				
35°	24.7	0.5	25.5	0.45					29.2	0.35	30.6	0.3				
30°	26.0	0.35	26.6	0.32												
A(°)	29°~84				44°~84		59°~84		34°~84				44°~84		59°~84	

A: Boom angle range (without load)

JIB (23.45 BOOM)

Unit:(t)

Intermediate Extended (3.6m) -Over side-																
Jib Length	30.5m Boom + 8.0m Jib								30.5m Boom + 13.0m Jib							
Offset	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°	5°	25°	45°	60°
Boom Angle	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load	W/R	Load
(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(m)	(t)	(t)
84°	3.0	3.3	5.5	2.3	7.6	1.7	8.6	1.05	4.0	2.0	8.4	1.25	11.6	0.85	13.2	0.55
80°	5.3	3.3	7.8	2.3	9.6	1.7	10.5	1.05	6.9	2.0	11.0	1.25	13.8	0.85	15.2	0.55
78°	6.5	3.3	8.8	2.3	10.6	1.7	11.4	1.05	8.2	2.0	12.2	1.2	14.9	0.85	16.1	0.55
76°	7.6	3.3	9.9	2.3	11.6	1.7	12.2	1.05	9.5	1.9	13.4	1.15	16.0	0.85	17.0	0.55
74°	8.7	3.3	10.9	2.3	12.5	1.65	13.1	1.05	10.7	1.8	14.5	1.1	16.9	0.85	17.9	0.55
72°	9.8	3.2	11.8	2.3	13.4	1.65	13.9	1.05	11.9	1.65	15.6	1.1	17.9	0.85	18.8	0.55
70°	10.8	2.7	12.8	2.1	14.2	1.6	14.7	1.05	13.1	1.6	16.7	1.05	18.8	0.85	19.6	0.55
68°	11.7	2.3	13.7	1.85	15.1	1.55	15.5	1.0	14.3	1.5	17.7	1.0	19.8	0.85	20.4	0.55
65°	13.1	1.8	15.0	1.45	16.3	1.3	16.6	1.0	15.9	1.35	19.3	1.0	21.0	0.84	21.6	0.55
60°	15.4	1.15	17.1	0.98	18.2	0.9	18.4	0.85	18.5	0.9	21.6	0.72	23.1	0.65	23.4	0.54
55°	17.6	0.75	19.2	0.62	20.0	0.6			20.9	0.55	23.8	0.45	24.9	0.42		
53°	18.4	0.62	19.9	0.52	20.7	0.5			21.9	0.45	24.6	0.35	25.6	0.35		
50°	19.6	0.45	21.0	0.37	21.6	0.35										
A(°)	49°~84			59°~84			52°~84			59°~84						

A: Boom angle range (without load)

PRECAUTIONS TO BE TAKEN WHEN THE OUTRIGGERS ARE EXTENDED

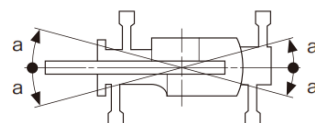
- The total rated loads shown are for the case where the crane is set horizontally on firm level ground. They include weights of the slings and hooks (main hook: 220kg, auxiliary hook: 60kg).
The values above the bold lines are based on the crane strength while those below are based on the crane stability.
- Since the working radii are based on the actual values including the deflection of the boom, operations should be performed in accordance with the working radii.
- The rated lifting capacities of the jib are based on boom length below 23.45m and above 23.45m.
- Jib operations should be performed in accordance with the boom angle, irrespective of the boom length. The working radii are reference values for the case where the jib is mounted on a 23.45m and 30.5m boom.
- The total rated load for the single top (160kg) shall be the value obtained by subtracting the weight of the hook (60kg) mounted on the boom from the total rated load of the boom and must not exceed 4.0t.
- As a rule, free-fall operation should be performed only when lowering the hook alone. If a hoisted load must be lower by free-fall operation, the load must be kept below 1/5th of the total rated load and sudden braking operation must be avoided.
- The table below shows the standard number of part lines for each boom length. When using with other than this number of part lines, the load per line should not exceed 3.6t for the main winch, and 4.0t for the auxiliary winch.

Boom length	9.35m	16.4m	23.45m	30.5m	Jib, Single Top
Part-line	8	6	4	4	1

- The jib with hook uses only 1 part-line.
- The hoisting performance for the "Over sides" range will differ according to the extended width of the outriggers. Operations should be performed in accordance with the performance corresponding to the extended width.
Also, although the hoisting performances for the "Over front" and "Over rear" ranges are equivalent to those of the "outriggers fully extended" condition, the front and rear ranges (angle a°) will differ according to the width to which the outriggers are extended in the left and right directions.

X-Type	Extended Width	Intermediate Extended (6.1m)	Intermediate Extended (5.0m)	Intermediate Extended (3.6m)	Fully Retracted (3.1m)
	Angle a°	50	25	10	5

H-Type	Extended Width	Intermediate Extended (6.1m)	Intermediate Extended (5.0m)	Intermediate Extended (3.6m)	Fully Retracted (2.3m)
	Angle a°	35	25	10	5



WITHOUT OUTRIGGERS

Unit:(t)

Boom length	Stationary						Traveling (Below 1.6km/h)					
	9.35m		16.4m		23.45m		9.35m		16.4m		23.45m	
Work radius	Over front	360°	Over front	360°	Over front	360°	Over front	360°	Over front	360°	Over front	360°
3.0m	14.0	8.3	9.0	7.3			10.0	6.5	7.5	5.1		
3.5m	14.0	6.8	9.0	7.3	6.5	4.5	10.0	5.2	7.5	5.1	5.5	3.2
4.0m	12.5	5.3	9.0	5.85	6.5	4.5	9.0	4.2	7.5	4.4	5.5	3.2
4.5m	10.9	4.3	9.0	4.75	6.5	4.5	8.2	3.4	7.5	3.7	5.5	3.2
5.0m	9.55	3.5	8.2	4.0	6.5	4.0	7.4	2.8	7.0	3.1	5.5	3.2
5.5m	8.3	2.8	7.4	3.3	6.1	3.4	6.7	2.4	6.2	2.7	5.15	2.8
6.0m	7.2	2.3	6.6	2.8	5.65	2.9	5.9	1.9	5.5	2.3	4.8	2.4
6.5m	6.25	1.8	5.9	2.35	5.25	2.5	5.1	1.5	4.9	1.9	4.45	2.05
7.0m			5.25	1.95	4.85	2.15			4.35	1.6	4.15	1.8
8.0m			4.1	1.4	4.1	1.6			3.4	1.1	3.5	1.4
9.0m			3.25	0.95	3.5	1.2			2.7	0.7	2.95	1.0
10.0m			2.6	0.6	3.0	0.85			2.15		2.45	0.65
11.0m			2.1		2.55	0.55			1.7		2.05	
12.0m			1.7		2.2				1.35		1.7	
13.0m			1.35		1.85				1.1		1.45	
13.5m			1.15		1.7				1.0		1.3	
14.0m					1.55						1.2	
15.0m					1.3						1.0	
16.0m					1.05						0.85	
17.0m					0.85						0.7	
18.0m					0.65						0.55	
19.0m					0.5							
A(°)	0~80		42~80		25~80		0~80		48~80		30~80	

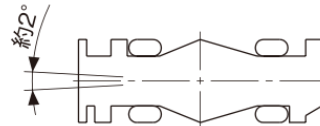
A: Boom angle range (without load)

PRECAUTIONS TO BE TAKEN WHEN THE OUTRIGGERS ARE NOT MOUNTED

- The total rated loads shown are for the case where the tire air pressure on firm level ground is as specified (900kPa {9.00kgf/cm²}) and the suspension-lock cylinder is retracted as much as possible. They include the weights of the slings and hooks (main hook: 220kg, auxiliary hook: 60kg). The values above the bold lines are based on the crane strength while those below are based on the crane stability. The foundation, working conditions, etc. should be taken into consideration for actual work.
- Since the working radii are based on the actual values including the deflection of the boom and the tires, operations should be performed in accordance with the working radii.
- The table below shows the standard number of part lines for each boom length. When using with other than this number of part lines, the load per line should not exceed 3.6t for the main winch, and 4.0t for the auxiliary winch.

Boom length	9.35m	16.4m	23.45m	Single Top
Part-line	4	4	4	1

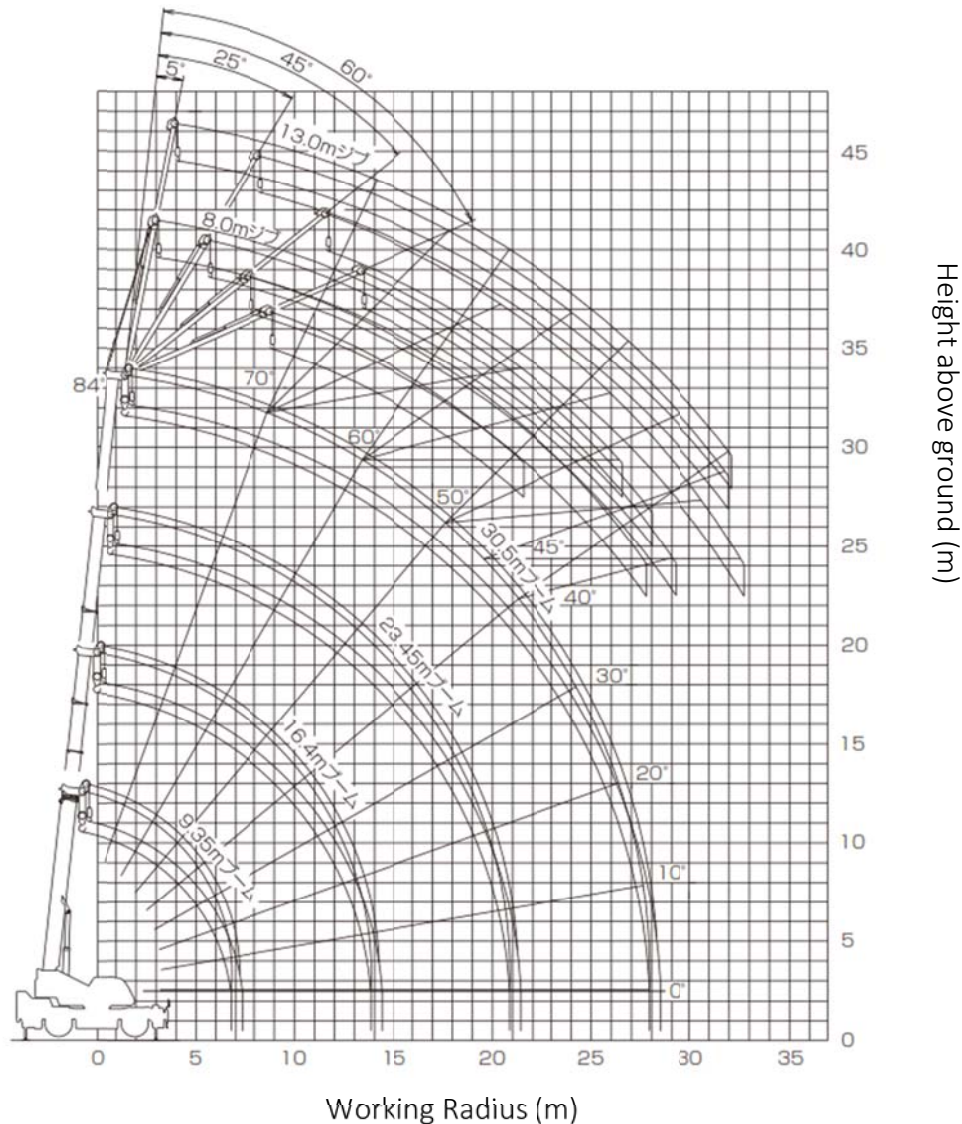
- Free-fall operations should not be performed without outriggers. Booms over 23.45m in length and jibs should not be used without outriggers.
- "Over front" crane operations should be performed only when the AML "over-front area indicator lamp" is lit. The boom must be kept inside a 2° area over front of the carrier when performing "Over front" crane operations without the outriggers.



- The total rated load for the single top (160kg) shall be the value obtained by subtracting the weight of the hook (60 kg) mounted on the boom from the total rated load of the boom and must not exceed 4.0t.
- The "Drive Mode Selection" switch should be set to "4-wheel / Lo" for creeping while hoisting a load and the shift lever should be set to first.
- When creeping while hoisting a load, the swing brake should be applied, the load should be kept as close to the ground as possible but not touching the ground and the speed should be kept at 1.6km/h or less. In particular, any abrupt steering, starting or braking must be avoided.
- Crane operations should not be performed when creeping while hoisting a load.

WORKING RADIUS - LIFTING HEIGHT

Scale: 1/300



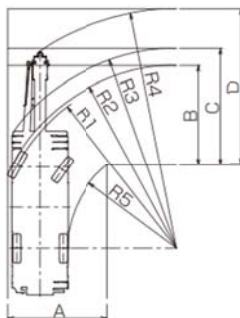
NOTES

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case where outriggers are fully extended (360°).

MINIMUM TURNING RADIUS

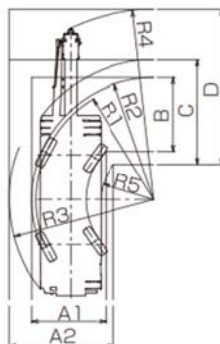
RIGHT TURN IN FRONT 2-WHEEL STEERING MODE

R1=8.5m (Minimum turning radius)
R2=8.69m (Turning radius of extremely outer tyre)
R3=9.49m (Chassis turning radius)
R4=11.36m (Boom end turning radius)
R5=5.14m (Turning radius extremely chassis inner)
A=4.71m (Width of entrance)
B=4.71m (Width of wheel exit)
C=5.51m (Width of chassis exit)
D=7.38m (Width of exit at end of boom)



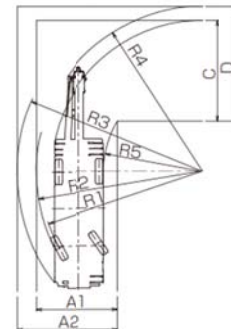
RIGHT TURN IN 4-WHEEL STEERING MODE

R1=5.1m (Minimum turning radius)
R2=5.29m (Turning radius of extremely outer tyre)
R3=6.25m (Chassis turning radius)
R4=8.24m (Boom end turning radius)
R5=2.31m (Turning radius extremely chassis inner)
A1=3.2m (Width of wheel entrance)
A2=4.53m (Width of chassis entrance)
B=3.2m (Width of wheel exit)
C=4.53m (Width of chassis exit)
D=6.71m (Width of exit at end of boom)



RIGHT TURN IN REAR 2-WHEEL STEERING MODE

R1=8.5m (Minimum turning radius)
R2=8.69m (Turning radius of extremely outer tyre)
R3=9.68m (Chassis turning radius)
R4=8.36m (Boom end turning radius)
R5=5.14m (Turning radius extremely chassis inner)
A1=4.28m (Width of wheel entrance)
A2=5.27m (Width of chassis entrance)
C=5.27m (Width of chassis exit)
D=6.00m (Width of exit at end of boom)

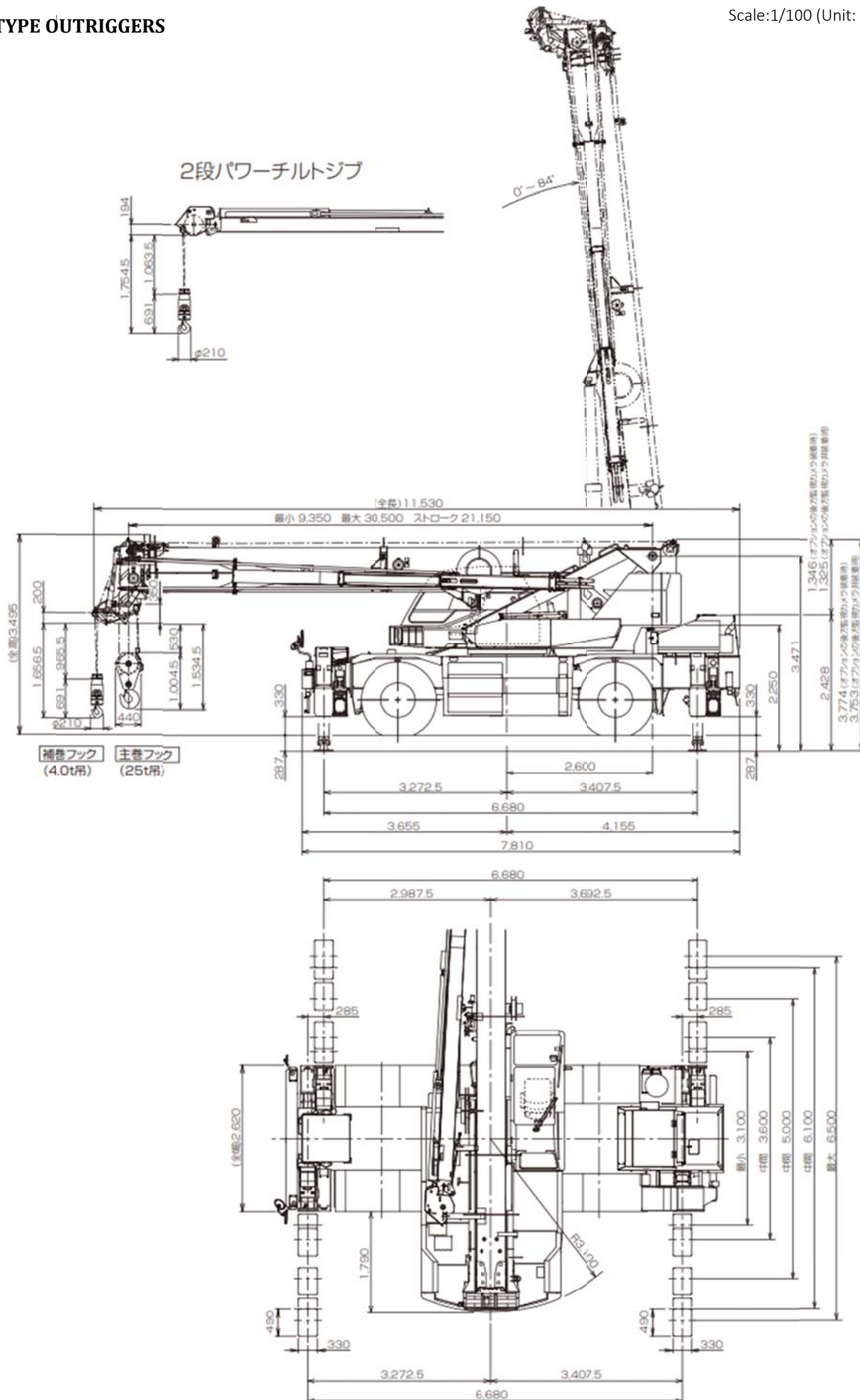


Note: The above values are based on calculations

DIMENSIONS

X-TYPE OUTRIGGERS

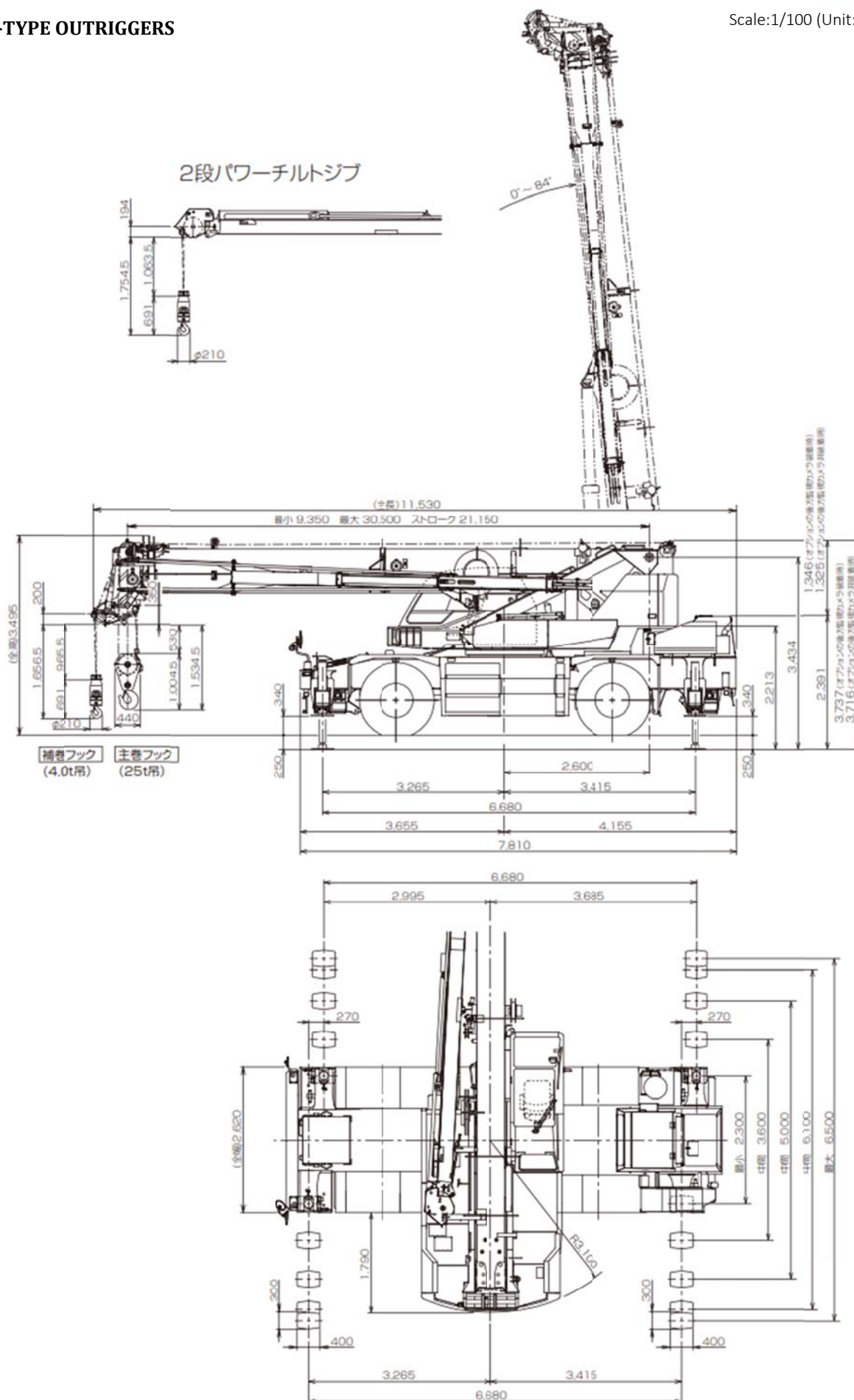
Scale: 1/100 (Unit: mm)



DIMENSIONS

H-TYPE OUTRIGGERS

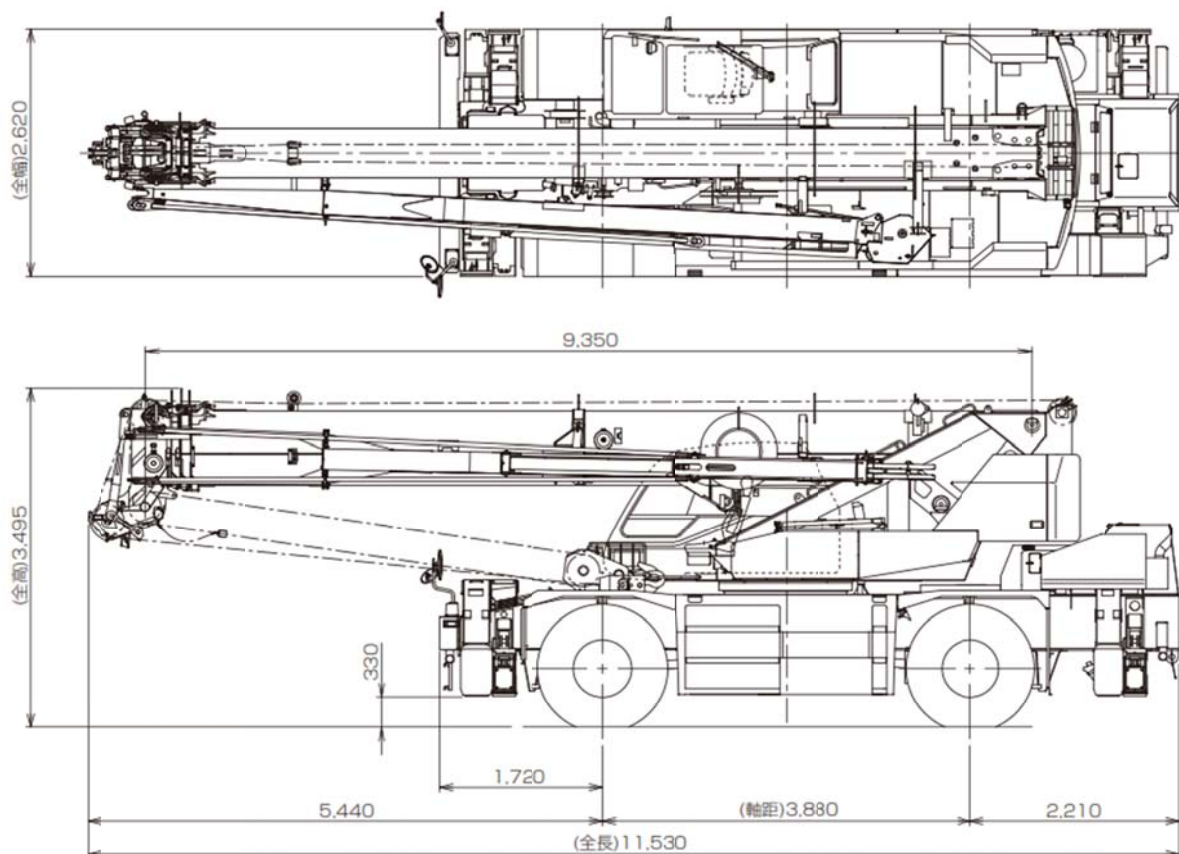
Scale:1/100 (Unit: mm)



DIMENSIONS

X-TYPE OUTRIGGERS

Scale: 1/100 (Unit: mm)



H-TYPE OUTRIGGERS

Scale: 1/100 (Unit: mm)

