



GR-550XL

Left hand steering

GENERAL DATA

CRANE CAPACITY	50,000 kg at 2.4m (55US TON)	
BOOM	4-section, 10.7 m - 34.7 m	
DIMENSION		
Overall length	approx.	13,055 mm
Overall width	approx.	2,980 mm
Overall height	approx.	3,765 mm
MASS		
Gross vehicle mass	approx.	33,920 kg
— front axle	approx.	17,400 kg
— rear axle	approx.	16,520 kg
PERFORMANCE		
Max. travelling speed	computed	50 km/h
Gradeability(tan θ)	computed	69% (at stall)
		*30%

*Machine should be operated within the limit of engine crankcase design (17°: MITSUBISHI 6M60-TLA3B)

CRANE SPECIFICATIONS

MODEL

GR-550XL

CAPACITY

50,000 kg at 2.4m

BOOM

4-section full power partially synchronized telescoping boom of round box construction with 4 sheaves at boom head.

The synchronization system consists of a double acting telescope cylinder, extension cables and retraction cables.

Hydraulic cylinders fitted with holding valves.

Fully retracted length10.7 m

Fully extended length34.7 m

Extension speed24.0 m in 72 s

JIB

2-staged swingaround boom extension. Triple offset (5°/25°/45°) type.

Stows alongside base boom section. Assistant cylinders for mounting and stowing.

Single sheave at jib head.

Length. 8.8 m and 15.2 m

SINGLE TOP (AUXILIARY BOOM SHEAVE)

Single sheave. Mounted to main boom head for single line work.

ELEVATION

By a double-acting hydraulic cylinder, fitted with a holding valve.

Automatic speed reduction and soft stop function.

Boom angle..... -0.8° to 81°

Boom raising speed..... 20° to 60° in 27s

HOIST—Main winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting.

Equipped with automatic brake (Neutral brake) and counterbalance valve.

Controlled independently of auxiliary winch.

Single line pull54.9 kN {5,600 kgf}

Single line speed136 m/min (at the 4th layer)

Wire rope..... Spin-resistant type

Diameter x length19 mm x 193 m

HOOK BLOCK - 50.0 t capacity

5 sheaves, swivel type hook with safety latch.

*single hook

HOIST— Auxiliary winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting.

Equipped with automatic brake (Neutral brake) and counter-balance valve.

Controlled independently of main winch.

- Single line pull54.9 kN {5,600 kgf}
- Single line speed118 m/min (at the 2nd layer)
- Wire ropeSpin-resistant type
- Diameter x length19 mm x 110 m

HOOK BLOCK - 5.6 t capacity

Swivel hook with safety latch for single line use.

*Single hook

SWING

Hydraulic axial piston motor driven through planetary speed reducer. Continuous 360° full circle swing on ball bearing slew ring. Equipped with manually locked/released swing brake.

- Swing speed2.7 min⁻¹ {rpm}

HYDRAULIC SYSTEM

- Pumps2 variable piston pumps for telescoping, elevating and winches.
Tandem gear pump for steering, swing and optional equipment.
- Control valvesMultiple valves actuated by pilot pressure with integral pressure relief valves.
- CircuitEquipped with air cooled type oil cooler.
Oil pressure appears on AML display for main circuit.
- Hydraulic oil tank capacity
approx. 560 liters
- FiltersReturn line filter

CRANE CONTROL

By 4 control levers for swing, boom hoist, main winch, boom telescoping or auxiliary winch with 2 control pedals for boom hoist and boom telescoping based on ISO standard layout. Control lever stands can change neutral positions and tilt for easy access to cab.

CAB

Both crane and drive operations can be performed from one cab mounted on rotating superstructure. One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side. Door window is powered control.

Operator's 3 way adjustable seat with headrest and armrest. Hot water cab heater and air conditioning.

TADANO Load moment indicator (Model:AML-C)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions before overload.

With working range (load radius and/or boom angle and/or tip height and/or swing range) limit function.

Automatic Speed Reduction and Soft Stop function on boom elevation and swing.

Following functions are displayed.

- Moment as percentage
- Number of parts of line of rope
- Boom angle
- Boom length
- Load radius
- Outriggers position
- On-tire indicator
- Actual hook load
- Permissible load
- Boom position indicator
- Potential hook height
- Swing angle
- Main hydraulic oil pressure
- Jib length and jib offset angle (only when jib operation)

OUTRIGGERS

Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab. Equipped with sight level gauge. Floats mounted integrally with the jacks retract to within vehicle width.

All cylinders fitted with pilot check valves.

Crane operation with different extended length of each outrigger. Equipped with extension width detector for each outrigger.

- Extended width
 - Fully 7,000mm
 - Middle 6,500mm
 - Middle 5,000mm
 - Minimum 2,480mm
 - Float size (Diameter) 500mm

COUNTERWEIGHT

Integral with swing frame

- Mass 2,900 kg

NOTE : Each crane motion speed is based on unladen conditions.

TYPE

Rear engine, left hand steering, driving axle 2-way selected type (by manual switch).

- 4 x 2 front drive
- 4 x 4 front and rear drive

FRAME

High-tensile steel, all welded mono-box construction.

ENGINE

Model.....Mitsubishi 6M60-TLA3B
Type.....4 cycle, turbo charged and after cooled, 6 cylinder in line, direct injection, water cooled diesel engine.
Piston displacement7,540 cm³
Bore x stroke118 mm x 115 mm
Max. output.....200 kW {267 PS} at 2,600 min⁻¹ {rpm}
Max. torque785 N-m {80 kgf-m} at 1,400 min⁻¹ {rpm}

TRANSMISSION

Electronically controlled full automatic transmission.
Torque converter driving full powershift with driving axle selector.
6 forward and 2 reverse speeds.
4 speeds - High range - 2 wheel drive ; 4 wheel drive
4 speeds - Low range - 4 wheel drive

AXLES

Front.....Full floating type, steering and driving axle with planetary reduction.
Rear.....Full floating type, steering and driving axle with planetary reduction.
Non-spin differential.

STEERING

Hydraulic power steering controlled by steering wheel.
Three steering modes available:
2-wheel front
4-wheel coordinated
4-wheel crab

SUSPENSION

FrontSemi-elliptic leaf springs with hydraulic lockout device.
Rear.....Semi-elliptic leaf springs with hydraulic lockout device.

BRAKE SYSTEM

ServiceAir over hydraulic disc brakes on all 4 wheels.
Parking / Emergency.....
Spring applied-air released brake acting on input shaft of front axle.
AuxiliaryElectro-pneumatic operated exhaust brake.

ELECTRIC SYSTEM

24 V DC. 2 batteries of 12 V - 120 Ah capacity.

FUEL TANK CAPACITY

300 liters

TIRES

Front23.5-25(OR), Single x 2
Rear.....23.5-25(OR), Single x 2

TURN RADIUS

Min. turning radius (at center of extreme outer tire)
2-wheel steering 11.7 m
4-wheel steering 6.7 m

EQUIPMENT

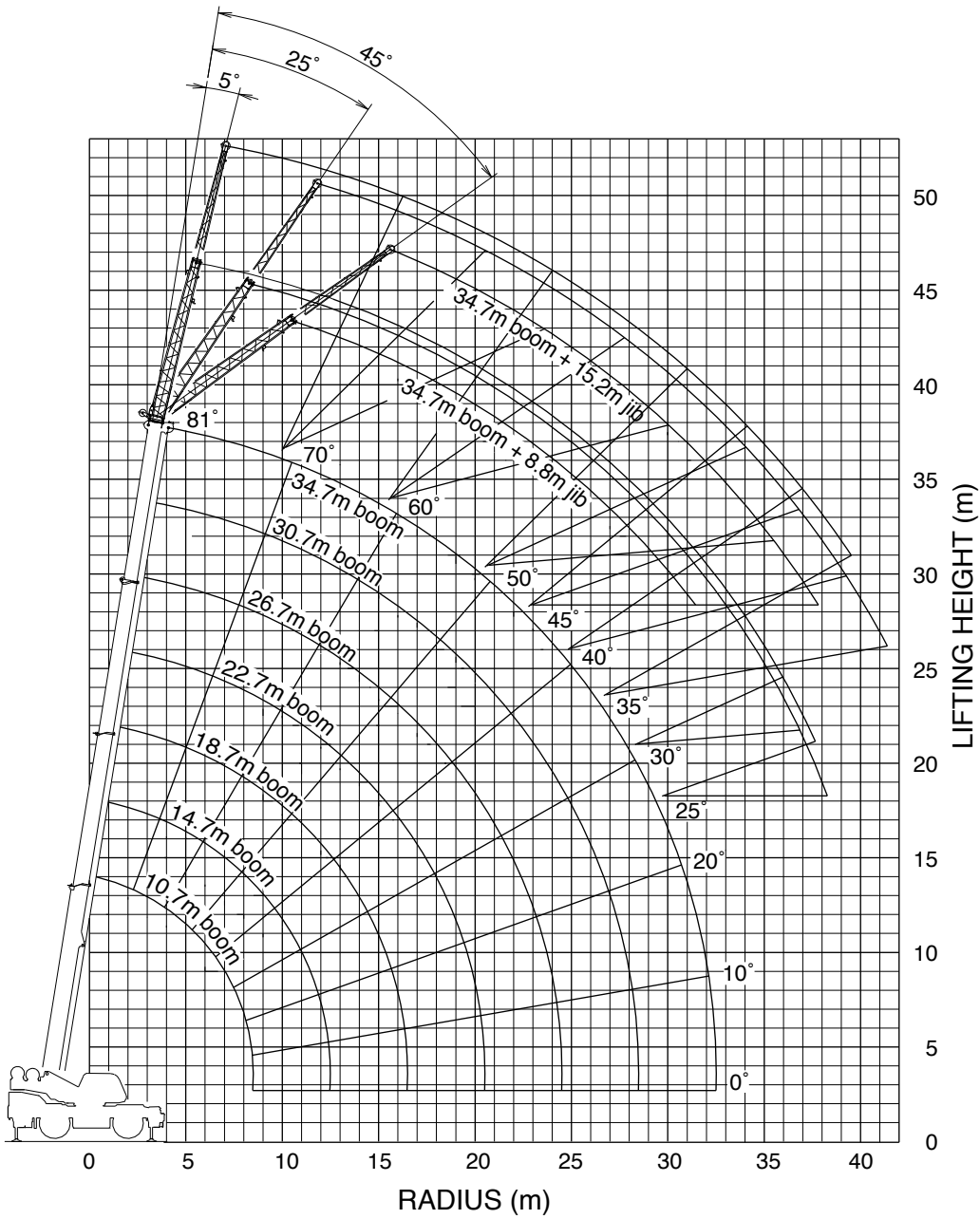
STANDARD EQUIPMENT

Load moment indicator (AML)
External lamp (AML)
Pendant type over-winding cutout
Winch automatic fail-safe brake
Cable follower
50.0 t capacity hook block (4 sheaves)
5.6 t capacity hook block (swivel hook)
Hook safety latch
Pilot check valvesHolding valves
Counterbalance valves
Hydraulic pressure relief valves
Swing brakeSwing lock
Boom angle indicator
Boom elevation foot pedal
Boom telescoping foot pedal
Outrigger extension width detector
Sight level gauge
Air conditioner (hot water heater and cooler)
Hydraulic oil cooler
Electric windshield wiper and washer
Roof window wiper and washer
Power window (Cab door)
Tachometer/Speedometer

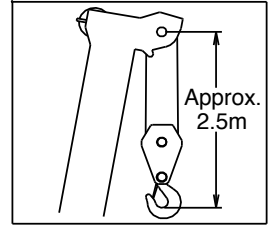
3 way adjustable cloth seat with seat belt, headrest and armrest
Cab floor mat
Sun visor (Front and roof)
Automatic drive system
Transmission neutral position engine start
Overshift prevention
Parking braked travel warning
Tilt-telescope steering wheel
Emergency steering
Back-up alarm
Air cleaner dust indicator
Air dryer
Water separator with filter
Engine over-run alarm
Hydraulic lockout suspension
Non-spin differential (Rear)
Towing eyes - front and rear
Telematics (machine data logging and monitoring system) with HELLO-NET via internet (availability depends on countries)
Winch drum rotation indicator (Audible and visual type)
Winch drum mirror
Fuel consumption monitor
Positive control
Eco mode system

OPTIONAL EQUIPMENT

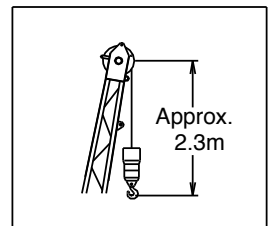
- Over-unwinding prevention
- Tire inflation kit



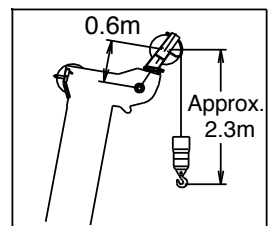
BOOM



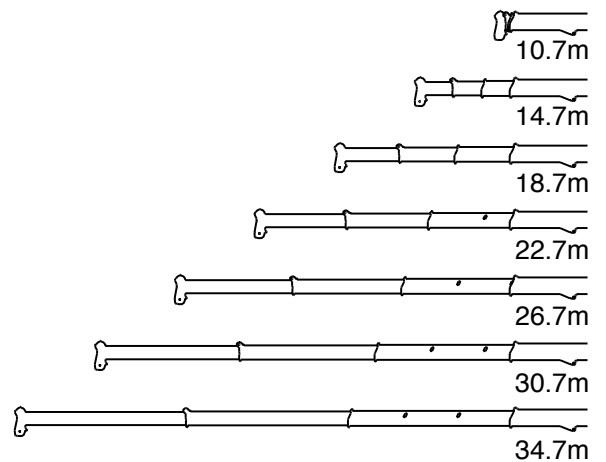
JIB



SINGLE TOP



Boom Length



NOTE: The above lifting height and boom angle are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions. The above working range is shown on condition with outriggers fully (7.0m) extended.

RATED LIFTING CAPACITIES

SPEC. SHEET NO. GR-550-2-00104/ES-03

ON OUTRIGGERS

ON OUTRIGGERS FULLY EXTENDED 7.0m SPREAD 360° ROTATION (Unit: x1,000kg)															
B	A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
2.4	70	50.0													
3.0	66	46.0	73	21.2	77	21.2	80	20.1							
3.5	63	41.4	71	21.2	75	21.2	79	20.1	81	18.7					
4.0	60	37.4	69	21.2	74	21.2	77	20.1	80	18.5					
4.5	57	33.8	67	21.2	72	21.2	76	20.1	79	18.3	81	15.0			
5.0	53	30.9	65	21.2	71	21.2	75	19.8	78	17.7	80	14.6			
5.5	49	28.1	63	21.2	69	21.2	74	19.5	77	17.0	79	14.3			
6.0	45	25.2	60	21.2	67	21.2	72	19.2	76	16.4	78	13.9	80	11.4	
6.5	40	22.8	58	20.7	66	20.7	71	18.8	75	15.7	77	13.5	79	11.2	
7.0	34	20.4	56	20.2	64	20.2	70	18.4	73	15.1	76	13.0	79	11.1	
7.5	28	18.0	53	19.6	62	19.6	68	18.0	72	14.5	75	12.5	78	10.9	
8.0	23	16.0	50	18.5	61	18.6	67	17.5	71	14.0	74	12.1	77	10.6	
9.0			45	15.7	57	16.2	64	16.3	69	13.1	72	11.4	75	9.9	
10.0			38	13.2	53	13.7	61	13.9	66	12.2	70	10.8	73	9.4	
11.0			29	11.1	49	11.5	58	11.7	64	11.1	68	10.2	72	8.9	
12.0			18	9.5	44	9.9	55	10.1	62	9.8	66	9.4	70	8.7	
14.0					34	7.5	48	7.6	56	7.7	62	7.6	66	7.5	
16.0					17	5.9	40	6.0	51	6.1	57	6.0	62	6.1	
18.0							30	4.8	44	4.8	52	4.8	58	4.9	
20.0							15	3.9	37	3.9	47	3.9	54	3.9	
22.0									28	3.2	41	3.3	49	3.3	
24.0									17	2.7	35	2.7	44	2.7	
26.0											27	2.2	39	2.3	
28.0											14	1.9	33	1.9	
30.0													25	1.5	
32.0													13	1.1	
D								0°							

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED 7.0m SPREAD 360° ROTATION (Unit: x1,000kg)															
C	A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
0°	8.5	7.5	12.5	4.8	16.5	3.2	20.5	2.2	24.4	1.5	28.3	1.0	32.1	0.6	

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

ON OUTRIGGERS

ON OUTRIGGERS FULLY EXTENDED 7.0m SPREAD 360° ROTATION (Unit: x1,000kg)												
C	34.7m Boom + 8.8m Jib						34.7m Boom + 15.2m Jib					
	5°Tilt		25°Tilt		45°Tilt		5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80°	7.9	5.6	10.6	3.8	12.7	2.7	9.9	2.9	14.5	1.8	18.0	1.2
77.5°	10.0	5.4	12.5	3.6	14.4	2.7	12.4	2.8	16.7	1.8	19.9	1.2
75°	12.1	5.2	14.5	3.5	16.2	2.6	14.8	2.7	18.9	1.7	21.8	1.2
72.5°	14.0	4.8	16.3	3.3	17.8	2.5	17.0	2.6	20.9	1.6	23.6	1.2
70°	16.0	4.4	18.1	3.2	19.5	2.5	19.2	2.4	22.9	1.5	25.4	1.1
67.5°	17.7	4.1	19.8	3.1	21.0	2.4	21.2	2.2	24.7	1.5	27.0	1.1
65°	19.5	3.9	21.5	3.0	22.6	2.4	23.2	2.1	26.5	1.4	28.6	1.1
62.5°	21.2	3.6	23.0	2.9	24.0	2.3	25.1	2.0	28.2	1.4	30.1	1.1
60°	22.8	3.4	24.5	2.8	25.5	2.3	26.9	1.9	29.9	1.3	31.6	1.1
57.5°	24.2	3.0	26.0	2.6	26.9	2.3	28.7	1.8	31.5	1.3	33.0	1.1
55°	25.6	2.6	27.4	2.4	28.2	2.2	30.5	1.7	33.1	1.2	34.3	1.0
52.5°	27.0	2.3	28.7	2.1	29.3	2.0	32.0	1.6	34.5	1.2	35.5	1.0
50°	28.4	2.0	29.9	1.9	30.4	1.8	33.6	1.4	35.9	1.2	36.7	1.0
47.5°	29.6	1.8	31.1	1.7	31.4	1.6	35.0	1.3	37.1	1.1	37.7	1.0
45°	30.9	1.6	32.2	1.5	32.5	1.4	36.4	1.1	38.3	1.0	38.7	1.0
42.5°	32.1	1.4	33.2	1.3			37.5	1.0	39.4	0.9		
40°	33.2	1.3	34.2	1.2			38.7	0.8	40.4	0.8		
37.5°	34.2	1.1	35.1	1.1			39.8	0.7	41.3	0.7		
35°	35.3	1.0	36.0	1.0			41.0	0.6	42.2	0.6		
32.5°	36.2	0.9	36.8	0.9								
30°	37.0	0.8	37.6	0.8								
27.5°	37.8	0.8	38.2	0.8								
25°	38.5	0.7	38.7	0.7								

- C: Boom angle (°)
- R: Load radius (m)
- W: Rated lifting capacity

RATED LIFTING CAPACITIES

SPEC. SHEET NO. GR-550-2-00104/ES-03

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 6.5m SPREAD 360° ROTATION (Unit: x1,000kg)															
B	A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
2.4	70	50.0													
3.0	66	46.0	73	21.2	77	21.2	80	20.1							
3.5	63	41.4	71	21.2	75	21.2	79	20.1	81	18.7					
4.0	60	37.4	69	21.2	74	21.2	77	20.1	80	18.6					
4.5	57	33.8	67	21.2	72	21.2	76	20.1	79	18.3	81	15.0			
5.0	53	30.9	65	21.2	71	21.2	75	19.8	78	17.7	80	14.7			
5.5	49	28.1	63	21.2	69	21.2	74	19.5	77	17.1	79	14.3			
6.0	45	25.2	60	21.2	67	21.2	72	19.2	76	16.4	78	13.9	80	11.4	
6.5	40	22.8	58	20.5	66	20.6	71	18.8	75	15.8	77	13.5	79	11.2	
7.0	34	20.4	55	19.6	64	19.7	70	18.4	73	15.1	76	13.0	79	11.1	
7.5	28	18.0	53	18.6	62	18.9	68	18.0	72	14.5	75	12.5	78	10.9	
8.0	23	15.9	50	17.0	60	17.3	67	16.8	71	14.0	74	12.1	77	10.6	
9.0			45	13.4	57	13.7	64	13.8	69	13.2	72	11.4	75	9.9	
10.0			38	11.0	53	11.3	61	11.5	66	11.4	70	10.7	73	9.4	
11.0			29	9.1	49	9.4	58	9.5	64	9.7	68	9.7	72	8.8	
12.0			18	7.7	44	8.0	55	8.1	62	8.2	66	8.3	70	8.2	
14.0					34	6.0	48	6.1	56	6.2	62	6.3	66	6.2	
16.0					17	4.6	40	4.8	51	4.9	57	4.9	62	4.9	
18.0							30	3.8	44	3.8	52	3.9	58	3.9	
20.0							15	3.0	37	3.1	47	3.1	54	3.1	
22.0									28	2.5	41	2.5	49	2.5	
24.0									13	1.9	35	2.0	44	2.1	
26.0											27	1.7	39	1.7	
28.0											14	1.3	33	1.3	
30.0													25	1.1	
32.0													12	0.8	
D															0°

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 6.5m SPREAD 360° ROTATION (Unit: x1,000kg)															
C	A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
0°	8.5	7.5	12.5	4.8	16.5	3.2	20.5	2.2	24.4	1.5	28.3	1.0	32.1	0.6	

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 6.5m SPREAD 360° ROTATION (Unit: x1,000kg)													
C	34.7m Boom + 8.8m Jib						34.7m Boom + 15.2m Jib						
	5°Tilt		25°Tilt		45°Tilt		5°Tilt		25°Tilt		45°Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80°	7.9	5.6	10.6	3.8	12.7	2.7	9.9	2.9	14.5	1.8	18.0	1.2	
77.5°	10.0	5.4	12.5	3.6	14.4	2.7	12.4	2.8	16.7	1.8	19.9	1.2	
75°	12.1	5.2	14.5	3.5	16.2	2.6	14.8	2.7	18.9	1.7	21.8	1.2	
72.5°	14.0	4.8	16.3	3.3	17.8	2.5	17.0	2.6	20.9	1.6	23.6	1.2	
70°	16.0	4.4	18.1	3.2	19.5	2.5	19.2	2.4	22.9	1.5	25.4	1.1	
67.5°	17.7	4.0	19.8	3.1	21.0	2.4	21.2	2.2	24.7	1.5	27.0	1.1	
65°	19.4	3.6	21.5	3.0	22.6	2.4	23.2	2.1	26.5	1.4	28.6	1.1	
62.5°	20.9	3.1	22.9	2.6	24.0	2.2	25.1	2.0	28.2	1.4	30.1	1.1	
60°	22.4	2.6	24.4	2.3	25.5	2.1	26.9	1.9	29.9	1.3	31.6	1.1	
57.5°	23.9	2.3	25.7	2.0	26.7	1.9	28.5	1.6	31.5	1.2	33.0	1.1	
55°	25.4	2.0	27.1	1.7	28.0	1.7	30.2	1.4	33.0	1.1	34.3	1.0	
52.5°	26.8	1.8	28.4	1.5	29.1	1.5	31.6	1.1	34.4	1.0	35.4	0.9	
50°	28.2	1.5	29.7	1.3	30.3	1.3	33.1	0.9	35.7	0.8	36.5	0.8	
47.5°	29.4	1.3	30.8	1.1	31.3	1.1	34.5	0.8	36.9	0.7	37.5	0.7	
45°	30.7	1.1	32.0	1.0	32.4	0.9	35.9	0.6	38.1	0.5	38.5	0.5	
42.5°	31.9	0.9	33.0	0.8									
40°	33.0	0.7	34.1	0.7									
37.5°	34.1	0.6	35.0	0.6									
35°	35.1	0.5	35.9	0.5									

- C: Boom angle (°)
- R: Load radius (m)
- W: Rated lifting capacity

RATED LIFTING CAPACITIES

SPEC. SHEET NO. GR-550-2-00104/ES-03

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 5.0m SPREAD 360° ROTATION (Unit: x1,000kg)															
B	A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	C			C		C		C		C		C		C	
2.4	70	50.0													
3.0	66	46.0	73	21.2	77	21.2	80	20.1							
3.5	63	41.4	71	21.2	75	21.2	79	20.1	81	18.7					
4.0	60	37.2	69	21.2	74	21.2	77	20.1	80	18.6					
4.5	57	33.4	67	21.2	72	21.2	76	20.1	79	18.3	81	15.0			
5.0	53	28.5	65	20.3	71	20.4	75	19.7	78	17.7	80	14.7			
5.5	49	23.5	62	19.3	69	19.5	74	19.3	77	17.1	79	14.3			
6.0	45	18.5	60	18.3	67	18.6	72	18.9	76	16.4	78	13.9	80	11.4	
6.5	39	15.8	58	16.4	66	16.8	71	17.1	75	15.3	77	13.5	79	11.3	
7.0	33	13.7	55	14.4	64	14.7	69	15.0	73	14.0	76	13.0	79	11.1	
7.5	27	11.7	53	12.3	62	12.6	68	12.8	72	12.8	75	12.5	78	10.9	
8.0	23	10.2	50	11.0	60	11.2	67	11.5	71	11.6	74	11.5	77	10.4	
9.0			44	8.7	57	8.9	64	9.2	69	9.3	72	9.3	75	9.1	
10.0			38	7.2	53	7.4	61	7.6	66	7.8	70	7.8	73	7.7	
11.0			29	5.9	49	6.2	58	6.4	64	6.5	68	6.5	71	6.5	
12.0			18	4.9	44	5.3	55	5.5	61	5.6	66	5.6	69	5.6	
14.0					34	3.8	48	4.1	56	4.2	61	4.2	65	4.2	
16.0					17	2.8	40	3.1	50	3.1	57	3.1	62	3.2	
18.0							30	2.3	44	2.4	52	2.4	57	2.4	
20.0							15	1.7	37	1.8	47	1.8	53	1.8	
22.0									28	1.4	41	1.4	49	1.4	
24.0									14	1.0	34	1.0	44	1.1	
26.0											26	0.7	38	0.8	
28.0											13	0.5	33	0.6	
D								0°							19°

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 5.0m SPREAD 360° ROTATION (Unit: x1,000kg)															
C	A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	0°														
	8.5	7.5	12.5	4.5	16.5	2.6	20.5	1.6	24.4	0.9	28.3	0.4			

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 5.0m SPREAD 360° ROTATION (Unit: x1,000kg)													
C	34.7m Boom + 8.8m Jib						34.7m Boom + 15.2m Jib						
	5°Tilt		25°Tilt		45°Tilt		5°Tilt		25°Tilt		45°Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80°	7.9	5.6	10.6	3.8	12.7	2.7	9.9	2.9	14.5	1.8	17.9	1.2	
77.5°	10.0	5.4	12.5	3.6	14.4	2.7	12.4	2.8	16.7	1.8	19.9	1.2	
75°	12.1	5.2	14.5	3.5	16.2	2.6	14.8	2.7	18.9	1.7	21.8	1.2	
72.5°	13.9	4.4	16.2	3.2	17.8	2.5	17.0	2.6	20.9	1.6	23.6	1.2	
70°	15.6	3.6	18.0	2.9	19.5	2.4	19.2	2.4	22.9	1.5	25.4	1.1	
67.5°	17.3	3.0	19.5	2.5	20.9	2.2	21.0	2.0	24.6	1.4	27.0	1.1	
65°	19.0	2.4	21.1	2.1	22.4	2.0	22.9	1.7	26.4	1.3	28.6	1.1	
62.5°	20.5	2.0	22.6	1.8	23.8	1.7	24.6	1.4	28.0	1.1	30.0	1.0	
60°	22.0	1.5	24.0	1.4	25.2	1.4	26.2	1.1	29.6	0.9	31.5	0.9	
57.5°	23.5	1.3	25.4	1.2	26.4	1.1	27.9	0.8	31.1	0.7	32.8	0.7	
55°	24.9	1.0	26.8	0.9	27.7	0.9	29.5	0.6	32.5	0.5	34.0	0.5	
52.5°	26.3	0.8	28.1	0.7	28.8	0.7							
50°	27.7	0.6	29.4	0.5	30.0	0.5							

- C: Boom angle (°)
- R: Load radius (m)
- W: Rated lifting capacity

RATED LIFTING CAPACITIES

SPEC. SHEET NO. GR-550-2-00104/ES-03

ON OUTRIGGERS

ON OUTRIGGERS FULLY EXTENDED 2.48m SPREAD 360° ROTATION (Unit: x1,000kg)														
B \ A	10.7m		14.7m		18.7m		22.7m		26.7m		30.7m		34.7m	
	C		C		C		C		C		C		C	
2.4	70	34.4												
3.0	66	23.0	73	21.2	77	21.2	80	20.1						
3.5	63	17.2	71	17.6	75	17.5	79	17.0	81	15.2				
4.0	60	13.5	69	14.3	74	14.3	77	14.1	80	13.6				
4.5	57	10.7	67	11.3	72	11.6	76	11.6	78	11.2	81	10.4		
5.0	53	9.0	65	9.7	71	10.0	75	10.0	77	9.7	79	9.4		
5.5	49	7.6	62	8.2	69	8.5	73	8.6	76	8.4	78	8.1		
6.0	45	6.2	60	6.8	67	7.1	72	7.3	75	7.1	77	6.9	80	6.3
6.5	40	5.3	58	5.9	66	6.1	70	6.4	74	6.3	76	6.1	78	5.8
7.0	35	4.6	55	5.1	64	5.4	69	5.6	73	5.6	75	5.4	77	5.1
7.5	30	3.8	53	4.4	62	4.6	68	4.8	72	4.9	74	4.7	76	4.5
8.0	23	3.3	50	3.8	60	4.0	66	4.3	70	4.4	73	4.2	76	4.0
9.0			44	2.9	57	3.1	63	3.3	68	3.4	71	3.3	74	3.2
10.0			38	2.2	53	2.4	60	2.6	66	2.7	69	2.7	72	2.5
11.0			30	1.6	49	1.9	57	2.0	63	2.1	67	2.1	70	2.0
12.0			19	1.2	44	1.4	54	1.6	61	1.7	65	1.7	68	1.6
14.0					33	0.7	47	0.9	56	1.0	61	1.0	65	0.9
16.0											56	0.5	61	0.5
D	0°				36°				44°		51°		57°	

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 2.48m SPREAD 360° ROTATION (Unit: x1,000kg)														
C \ A	10.7m		14.7m											
	B		B											
0°	8.5	2.7	12.5	1.0										

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

NOTES FOR “ON OUTRIGGERS” TABLE

1. Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
2. Rated lifting capacities do not exceed 85 % of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.
Rated lifting capacities for partially extended outriggers are determined from the formula, Rated Lifting Capacities =(Tipping Load - 0.1 x Tip Reaction)/1.25.
3. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above thick lines are based on crane strength and those below, on its stability.
4. The mass of the hook (500kg for 50.0 t capacity, 150kg for 5.6 t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
5. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reducti on for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main boom hook mass and the net capacity must be so reduced.
6. Standard number of parts of line for each boom length is as shown below. Load per line should not surpass 54.9 kN {5,600 kgf} or main winch and auxiliary winch.

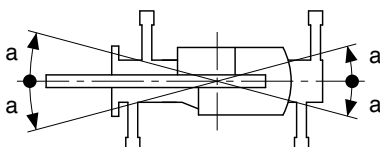
Boom length	10.7m	10.7m to 18.7m	18.7m to 34.7m	Single top / Jib
Number of parts of line	10	6	4	1

The lifting capacity data stored in the Load moment indicator (AML) is based on the standard number of parts of line listed in the chart.

Maximum lifting capacity is restricted by the number of parts of line of Load moment indicator (AML).

7. The lifting capacity for over-side area differs depending on the outrigger extension width. Work with the capacity corresponding to the extension width. The lifting capacities for over-front and over-rear areas are for “outriggers fully extended”. However, the areas (angle a) differ depending on the outrigger extension width.

Outriggers extended width	6.5m(middle)	5.0m(middle)	2.48m(minimum)
Angle a°	45	40	15



RATED LIFTING CAPACITIES

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ON RUBBER

ON RUBBER STATIONARY (Unit: x1,000kg)													
B	A	Over Front						360° Rotation					
		10.7m		18.7m		26.7m		10.7m		18.7m		26.7m	
		C		C		C		C		C		C	
3.0	66	21.9					66	12.3					
3.5	63	19.7					63	10.8					
4.0	60	17.7	74	13.8			60	9.2					
4.5	57	15.8	72	13.8			56	7.6	72	7.4			
5.0	53	14.5	71	12.9			53	6.5	71	6.7			
5.5	49	13.3	69	11.8			49	5.4	69	5.8			
6.0	45	12.0	67	10.8			45	4.4	67	5.0			
6.5	40	10.8	66	10.0	74	6.1	41	3.7	66	4.4	74	3.4	
7.0	35	9.7	64	9.2	73	6.1	36	3.2	64	3.8	73	3.4	
7.5	30	8.5	62	8.5	72	6.1	31	2.6	62	3.2	72	3.4	
8.0	23	7.7	60	7.8	70	5.8	23	2.3	60	2.8	70	3.1	
9.0			57	6.5	68	5.1			57	2.2	68	2.4	
10.0			53	5.5	66	4.5			53	1.7	66	1.9	
11.0			49	4.6	63	4.0			49	1.2	63	1.5	
12.0			44	3.9	61	3.7			44	0.9	61	1.1	
14.0			34	2.8	56	3.0					56	0.6	
16.0			17	2.1	50	2.2							
18.0					44	1.7							
20.0					37	1.2							
22.0					28	0.9							
24.0					14	0.6							
D													
				0°				0°		28°		53°	

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY													
C	A	Over Front						360° Rotation					
		10.7m		18.7m		26.7m		10.7m					
		B		B		B		B					
0°	8.5	7.0	16.5	1.9	24.4	0.5	8.5	1.8					

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

ON RUBBER

ON RUBBER CREEP (Unit: x1,000kg)									
B	A	Over Front							
		10.7m		18.7m		26.7m			
		C		C		C			
3.0	66	16.1							
3.5	63	14.4							
4.0	60	12.8							
4.5	57	11.4	72	11.8					
5.0	53	10.4	71	11.0					
5.5	49	9.4	69	10.0					
6.0	45	8.5	67	9.0					
6.5	41	7.8	66	8.3					
7.0	36	7.1	64	7.7	73	6.1			
7.5	31	6.5	62	7.0	72	6.1			
8.0	23	5.9	60	6.5	70	5.8			
9.0			57	5.6	68	5.1			
10.0			53	4.8	66	4.5			
11.0			49	4.2	63	4.0			
12.0			44	3.6	61	3.7			
14.0			33	2.7	56	3.0			
16.0			17	2.1	50	2.2			
18.0					44	1.7			
20.0					37	1.2			
22.0					28	0.9			
24.0					14	0.6			
D									
				0°					

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER CREEP									
C	A	Over Front							
		10.7m		18.7m		26.7m			
		B		B		B			
0°	8.5	5.4	16.5	1.9	24.4	0.5			

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

NOTES FOR "ON RUBBER" TABLE

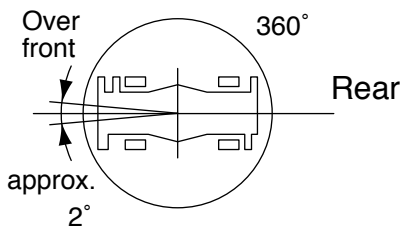
1. Rated lifting capacities on rubber are in metric ton and do not exceed 75 % of tipping loads as determined by SAE J765- Crane Stability Test Code.
2. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface, with suspension lock applied. Those above thick lines are based on tire capacity and those below, on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
3. The mass of the hook (500 kg for 50.0 t capacity, 150 kg for 5.6 t capacity), slings and all similarly used load handling devices must be deducted from the lifting capacities.
4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
5. On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 26.7 m.
6. CREEP is motion for crane not to travel more than 60 m in any 30 minute period and to travel at the speed of less than 1.6 km/h.
7. During "CREEP" duties travel slowly and keep the lifting load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
8. Do not operate the crane while carrying the load.
9. Tires should be inflated to their correct air pressure of 450kPa.
10. For CREEP operation, choose the drive mode and proper gear according to the road or working condition.
11. Standard number of parts of line for on rubber operation should be according to the following table.
Load per line should not surpass 54.9kN {5,600kgf} for main winch and auxiliary winch.

Boom length	10.7m	10.7m to 26.7m	Single top
Number of parts of line	6	4	1

The lifting capacity data stored in the Load moment indicator (AML) is based on the standard number of parts of line listed in the chart.

Maximum lifting capacity is restricted by the number of parts of line of Load moment indicator (AML).

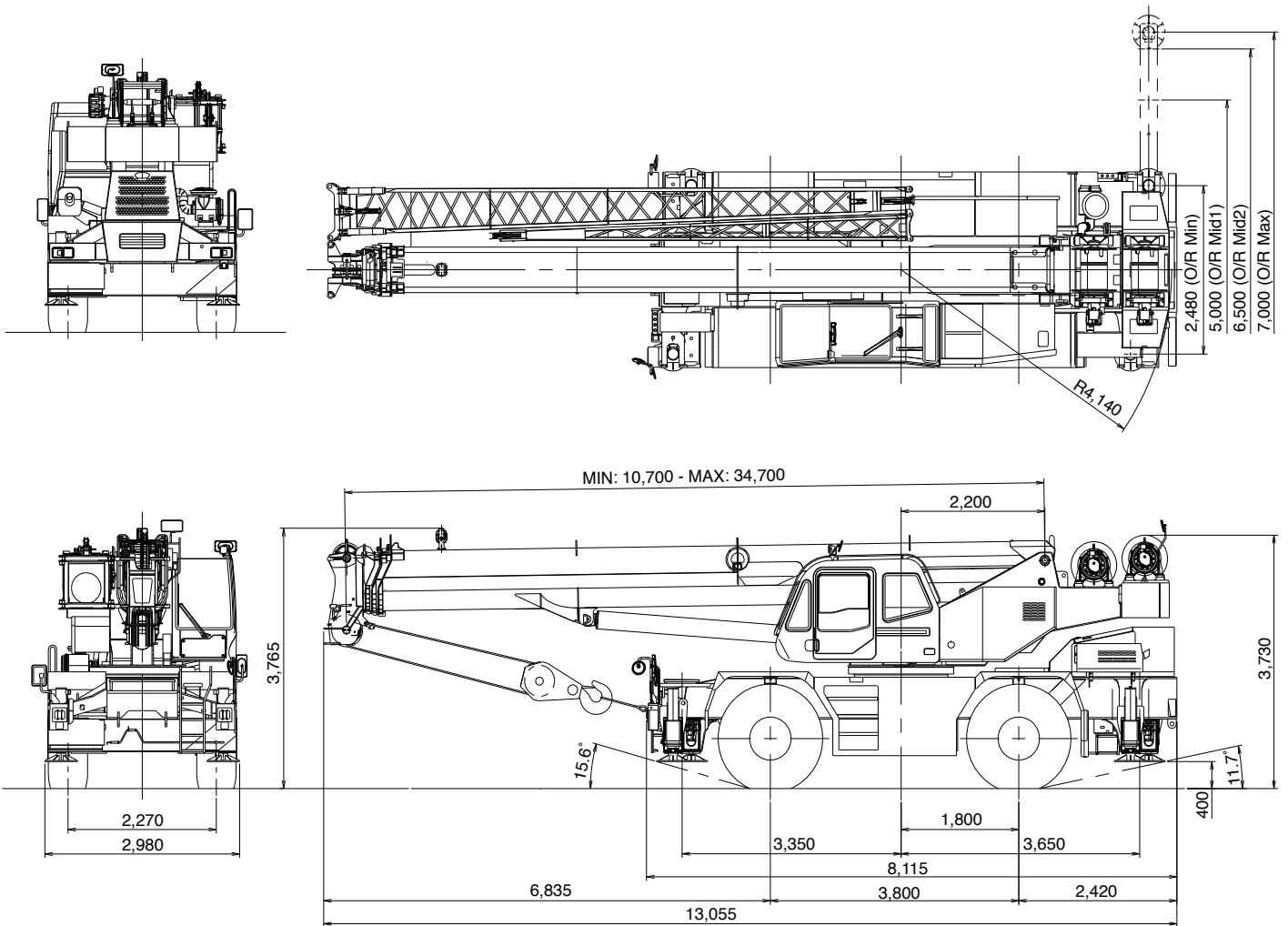
WORKING AREA



Without outriggers "Over front" operation should be performed within 2 degrees in front of chassis.

DIMENSION

SPEC. SHEET NO. GR-550-2-00104/ES-03



Note: Dimension is with boom angle at 0 degree.

Axle Weight Distribution Chart

Unit : kg

	GVW	Front	Rear
Basic standard machine includes:	33,920	17,400	16,520
Remove:			
1. 5.6 metric ton (6.2 ton) hook ball	-150	-209	59
2. 50.0 metric ton (55ton) hook block	-500	-917	417
3. Top jib	-227	-286	59
4. Base jib	-626	-1,139	513
5. Auxiliary lifting sheave	-50	-136	86

Specifications are subject to change without notice.




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
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