SPEC. SHEET No. GR-550E-1-00211/EU-21 DATE February, 2007

### **TADANO ROUGH TERRAIN CRANE**

MODEL: GR-550EX

(Left-hand steering)

### GENERAL DATA

CRANE CAPACITY	55,000 kg at 3.0 m
CIVAINE CALACITI	33,000 kg at 3.0 m

BOOM 5-section, 11.1 m — 42.0 m

### **DIMENSION**

Overall length	approx.	13,695 mm
Overall width	approx.	3,315 mm
Overall height	approx.	3,860 mm

### MASS

Gross vehicle mass	approx.	43,690 kg
-front axle	approx.	23,975 kg
-rear axle	approx.	19,715 kg

### PERFORMANCE

Max. traveling speed	computed	39 km/	/h
Gradeability (tan $\theta$ )	computed	153 %	(at stall)
		*26 0/	

<sup>\*</sup> Machine should be operated within the limit of engine crankcase design (20°: MITSUBISHI 6M60-TLU3B).

### CRANE SPECIFICATIONS

MODEL GR-550EX

<u>CAPACITY</u> 55,000 kg at 3.0 m

BOOM 5-section full power partially synchronized telescoping boom of round

hexagonal box construction with 5 sheaves at boom head. The synchronization system consists of 2 telescope cylinders, extension

cables and retraction cables.

Hydraulic cylinders fitted with holding valves.

Fully retracted length. . . . . . . . 11.1 m

Fully extended length. . . . . . . . . . . 42.0 m

Extension speed. . . . . . . . . . . . . . . . . . 30.9 m in 128 s

<u>JIB</u> 2-staged swingaround boom extension. Triple offset (3.5°/25°/45°) type.

Stores alongside base boom section.

Assistant cylinders for mounting and stowing.

Single sheave at jib head.

SINGLE TOP (AUXILIARY Single sheave.

BOOM SHEAVE) Mounted to main boom head for single line work.

<u>ELEVATION</u> By a double-acting hydraulic cylinder, fitted with holding valve.

Elevation speed. . . . . . . .  $-1.4^{\circ}$  to  $80.5^{\circ}$  in 77 s

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 pull. . . . . . . . . . . 54.9 kN {5,600 kgf}

Single line speed. . . . . . . . . . 147 m/min (at the 4th layer)

#### 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 counterbalance valve. Controlled independently of main winch.

Single line pull. . . . . . . . . . 54.9 kN {5,600 kgf}

Single line speed. . . . . . . . . . 126 m/min (at the 2nd layer)

Wire rope..... No-spin type

Diameter x length. . . . . . . . 19 mm x 129 m

**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 speed. . . . . . . . . . . . . . . . 2.5 min<sup>-1</sup> {rpm}

**HYDRAULIC SYSTEM** 

Pumps...... 2 variable piston pumps for telescoping, elevating

and winches.

Tandem gear pump for steering, swing and optional

equipment.

Control valves. . . . . Multiple valves actuated by pilot pressure with

integral pressure relief valves.

Circuit. . . . . . . . Equipped with air cooled type oil cooler.

Oil pressure appears on AML display for main

circuit.

Hydraulic oil tank capacity. . .

approx. 740 liters

Filters..... Return 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.

# TADANO Automatic Moment Limiter (Model: AML-L)

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.

Nine functions are displayed:

Digital liquid crystal display:

Either boom angle or moment %

Either boom length or potential hook height

Either actual load radius or swing angle

Actual hook load

Permissible load

Either jib offset angle or number of parts of line of rope

Boom position indicator

Either outrigger position or on-tire indicator

Bar graphical display:

Either moment as percentage or main hydraulic pressure.

(Display changes by alternation key)

#### **OUTRIGGERS**

4-hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab and either side of carrier. 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

COUNTERWEIGHT

Integral with swing frame

Mass. . . . . . . . 5,100 kg

### CARRIER SPECIFICATIONS

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-TLU3B [EUROMOT Stage III A]

Type..... 4 cycle, turbo charged and after cooled, 6 cylinder in line,

direct injection, water cooled diesel engine.

Piston displacement. . . . 7,545 cm<sup>3</sup>

TRANSMISSION Electronically controlled full automatic transmission.

Torque converter driving full powershift with driving axle selector.

6 forward and 2 reverse speeds.

3 speeds - High range - 2 wheel drive; 4 wheel drive

3 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.

<u>STEERING</u> Hydraulic power steering controlled by steering wheel.

Four steering modes available:

2-wheel front 2-wheel rear

4-wheel coordinated

4-wheel crab

<u>SUSPENSION</u> Front. . . . Rigid mounted to the frame.

Rear. . . . . Pivot mounted with hydraulic lockout cylinders.

BRAKE SYSTEM Service. . . Air over hydraulic disc brakes on all 4 wheels.

Parking / Emergency. . .

Spring applied-air released brake acting on input shaft of

front axle.

Auxiliary. . . Electro-pneumatic operated exhaust brake.

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

FUEL TANK CAPACITY 300 liters

<u>TIRES</u> Front......29.5–25 22PR(OR) or 29.5–25 28PR(OR), Single x 2

Rear......29.5-25 22PR(OR) or 29.5-25 28PR(OR), Single x 2

<u>TURN RADIUS</u> Min. turning radius (at center of extreme outer tire)

2-wheel steering. . . . . . . 11.9 m 4-wheel steering. . . . . . . 6.7 m

### EQUIPMENT

#### STANDARD EQUIPMENT

Automatic moment limiter (AML-L)

External lamp and buzzer (AML)

Pendant type over-winding cutout

Winch automatic fail-safe brake

Over-unwinding prevention

Cable follower

40 t capacity hook block (4-sheaves)

5.6 t capacity hook block (swivel hook)

Hook safety latch

Pilot check valves

Holding valves

Counterbalance valves

Hydraulic pressure relief valves

Swing brake

Swing lock (360° positive swing lock)

Boom angle indicator

Boom elevation foot pedal

Boom telescoping foot pedal

Outrigger extension width detector

Emergency engine stop system

Air conditioner (hot water heater and cooler)

Outrigger control box (Both sides of carrier)

Sight level gauge

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

Reversing steering compensator

Emergency steering

Transmission neutral position engine start

Overshift prevention

Parking braked travel warning

Tilt-telescope steering wheel

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

Winch drum rotation indicator

Winch drum mirror

OPTIONAL EQUIPMENT Hook block - 55t capacity (6 sheaves)

Hook Block -20t capacity (2 sheaves)

Tire inflation kit

ON OUTR	IGG	ERS																	Uı	nit : kg
							O		•	extende	•	.2m)								
								3	860° ∣	Rotation										
		1.1		15.0		18 I	3.8	1		26 I	6.6	ľ		34				8.1		2.0
A	С		С		С		С		С		С		С		С		С		С	
3.0	67.5	55,000	73.7	40,800	77.4	30,000	76.9													
3.5	64.4	53,400	71.7	40,800	75.9	30,000	75.4		=0.0											
4.0	61.3	48,400	69.6	40,800	74.4	30,000	74.0		79.8		79.5	14,000								
4.5	58.3	43,800	67.5	40,800	72.8	30,000	72.3		78.7		78.4	14,000								
5.0	55.0	39,800	65.4	38,900	71.3	29,000	70.8		77.8		77.5	14,000								
5.5	51.8	36,000	63.2	35,600	69.6	27,200	69.1	22,000		21,500	76.3	13,600	70.0	44.000	70.0	0.000				
6.0 6.5	48.3	32,800	60.9	32,400	67.9	25,000	67.5			20,000	75.2 74.2	12,800	79.3	14,000	78.9	8,000				
7.0	44.5 40.5	30,100 27,800	58.7 56.3	29,700 27,400	66.2 64.4	23,400	65.8 64.1	20,800	74.5 73.2	-,	73.0	12,000 11,400	78.5 77.7	14,000	78.1 77.4	8,000	79.2	8,000		
8.0	31.4	23,600	51.4	23,100	60.9	19,500	60.7	18,800	71.0		70.8	10,300	76.0	12,500	75.7	8,000	77.9	8,000	79.1	8,000
9.0	15.8		46.1	18,700	57.2	17,000	56.9	17,700	68.6	-	68.4	9,300	74.2	11,300	74.1	7,600	76.6	8,000	77.9	8,000
10.0	13.0	17,300	40.0	15,200	53.3	14,500	53.1	16,000	66.3		66.0	8,500	72.5	10,400	72.3	7,000	76.6 75.1	7,500	76.7	8,000
11.0						12,000								9,600			73.5			7,500
12.0			33.2 24.9	12,400 10,500	49.2 44.8	10,000	48.9	12,300	63.8 61.2		63.6 61.0	7,800 7,200	70.7 68.9	8,800	70.5 68.7	6,400 5,800	71.9	6,900	75.2 73.9	6,900
13.0			10.3	8,900	39.8	8,500	44.5 39.6	10,700	58.7	9,500	58.5	6,700	67.0	8,200	66.9	5,400	70.3	5,900	72.5	6,500
14.0			10.3	8,900	34.8	7,200	34.0	9,300	55.8		55.8	6,200	65.3	7,600	64.9	4,900	68.6	5,500	71.0	6,000
15.0					28.4	6,100	27.8	8,200	53.2	7,200	53.2	5,800	63.4	7,000	63.0	4,600	67.0	-	69.5	5,600
16.0					20.4	5,200	20.0	7,300	50.2	6,300	50.3	5,500	61.3	6,500	61.0	4,200	65.2	4,700	67.9	5,200
17.0					20.4	3,200	20.0	7,300	47.1	5,500	47.2	5,300	59.4	6,000	59.0	3,900	63.6	4,400	66.5	4,900
18.0									43.8	4,800	44.1	5,000	57.2	5,300	57.0	3,600	61.8	4,100	64.9	4,600
19.0									40.4	4,200	40.6	4,800	55.2	4,700	54.9	3,400	60.0	3,800	63.2	4,300
20.0									36.8	3,700	36.9	4,600	53.0	4,200	52.8	3,200	58.2	3,600	61.7	4,000
22.0									28.2	2,800	28.3	3,900	48.3	3,300	48.2	2,900	54.3	3,100	58.4	3,400
24.0									15.9	2,100	15.7	3,300	43.2	2,500	43.3	2,600	50.0		54.9	2,800
26.0									.0.0	2,.00		0,000	37.6	1,900	37.8	2,300	45.6	-	51.1	2,200
28.0													31.3	1,400	31.6	2,100	40.7	2,000	47.2	1,700
30.0													23.5	1,000	23.7	1,900	35.2	1,600	43.1	1,300
32.0													11.9	700	11.6	1,600	29.0	1,200	38.7	900
34.0																.,000	21.6	900	30.7	
36.0																	8.9	700		
D	-								(	)°									3	37°
	•							Telesco	ping	condition	ons (°	%)								
Telescoping Mode	I,II I II							I		II	I			II		II	]	I,II		
2nd boom		0		50		100		0		100		0	,	100		0	,	50	1	100
3rd boom		0		0		0		33		33		66		66	1	00	1	00	1	100
4th boom	oom 0 0 0 33				33		33	66		66		100		1	00	1	100			
Top boom	0 0 0					33 33			66		66		100		100		100			

A :Boom length (m) B :Load radius (m)

C :Loaded boom angle (°)
D :Minimum boom angle for indicated length (no load)

ON OUTRIGGERS Unit · ka

<u> </u>	UIRI	GGERS										Unit : kg
				Outi	iggers	s fully exte	ended	(7.2m)				
					3	360° Rota	tion					
		42.0	m Boo	om + 9.9n	n Jib			42.0	m Boo	m + 17.7	m Jib	
С	3.5	° offset	25°	offset	45°	offset	3.5	° offset	25°	offset	45°	offset
	R W R W R W R W R W R											
80°	9.6	4,000	13.0	3,500	14.9	3,000	12.0	2,700	18.1	2,000	22.4	1,400
75°	14.9	4,000	17.7	3,000	19.1	2,500	18.1	2,600	23.3	1,600	27.1	1,300
70°	19.3	3,100	22.1	2,400	23.2	2,100	23.2	1,900	27.9	1,300	31.2	1,100
65°	23.5	2,400	26.2	2,000	27.2	1,800	28.2	1,500	32.1	1,000	34.8	900
60°	27.4	2,000	29.9	1,600	30.9	1,500	32.6	1,200	36.3	900	38.4	800
55°	30.9	1,600	33.3	1,400	34.0	1,300	36.5	900	40.0	700	41.8	700
50°	34.0	1,000	36.2	900	36.7	900	39.9	500				
45°	37.1	600	38.9	500	39.2	500						

	Outriggers fully extended (7.2m)														
					3	360° Rota	tion								
	3	34.3m Bo	om ( te	elescopin	g mod	le I )	;	34.3m Bo	om ( t	elescopin	g mod	eI)			
С			+ 9.	.9m Jib					+ 17	7.7m Jib					
	3.5	offset	25°	offset	45°	offset	3.5	° offset	25°	offset	45°	offset			
	R	W	R	W	R	W	R	W	R	W	R	W			
80°	7.6	5,600	11.4	4,700	13.7	3,400	10.1	3,600	16.3	2,400	20.3	1,600			
75°	11.9	5,600	15.1	4,000	17.3	3,100	15.2	3,600	20.7	2,100	24.3	1,500			
70°	15.7	4,800	18.7	3,400	20.5	2,800	19.7	3,000	24.7	1,800	27.8	1,400			
65°	19.2	3,800	21.9	2,900	23.5	2,500	23.8	2,400	28.5	1,600	31.1	1,300			
60°	22.5	3,200	25.1	2,500	26.3	2,300	27.7	2,000	32.0	1,400	34.1	1,200			
55°	25.6	2,700	27.9	2,200	28.9	2,100	31.3	1,600	35.2	1,300	36.7	1,100			
50°	28.4	2,000	30.5	1,800	31.3	1,700	34.5	1,200	38.0	1,000	39.1	1,000			
45°	31.0	1,400	32.9	1,300	33.3	1,200	37.5	800	40.5	700	41.1	600			
40°	33.4	1,000	35.0	900		·	40.3	500							
35°	35.7 700 36.9 600														

				Outi	iggers	fully exte	ended	(7.2m)				
					3	860° Rota	tion					
	3	8.1m Boo	om ( te	elescoping	g mod	e II )	3	8.1m Bo	om ( te	elescoping	g mod	e II )
С			+ 9	.9m Jib					+ 17	7.7m Jib		
	3.5	offset	25°	offset	45°	offset	3.5	° offset	25	offset	45°	offset
	R	W	R	W	R	W	R	W	R	W	R	W
80°	8.9	4,500	12.7	4,100	14.8	3,100	10.9	2,800	17.7	2,200	21.7	1,500
75°	13.8	4,500	16.7	3,200	18.6	2,600	16.6	2,800	22.3	1,800	25.9	1,300
70°	17.7	3,400	20.6	2,600	22.2	2,200	21.3	2,100	26.5	1,400	29.7	1,100
65°	21.5	2,600	24.2	2,100	25.6	1,800	25.8	1,600	30.5	1,100	33.3	1,000
60°	25.1	2,100	27.6	1,700	28.8	1,600	30.0	1,300	34.3	900	36.4	800
55°	28.4	1,700	30.8	1,500	31.7	1,400	33.9	1,000	37.8	800	39.3	700
50°	31.5	1,400	33.6	1,300	34.2	1,200	37.6	800	41.0	700	42.0	600
45°	34.4	1,200	36.2	1,100	36.5	1,000	41.1	600	43.9	600	44.5	500
40°	36.9	800	38.5	800								
35°	39.3	500	40.6	500		·						·

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

ON OUT	RIGG	ERS																	Uı	nit : kg
							Out	rigger e				(6.7m)								
		4.4		<b></b>	1	4.0			360	Rotation				0.4	_			0.4	-	0.0
A	_	1.1		5.0	_	16 I	3.8	1		26	6.6			34	_	ſ	_	8.1		2.0
В	С		С		С		С		С		С		С		С		С		С	
3.0	67.5	55,000	73.7	40,800	77.4	30,000	76.9	22,000												
3.5	64.4	53,400	71.7	40,800	75.9	30,000	75.4	22,000												
4.0	61.3	48,400	69.6	40,800	74.4	30,000	74.0	22,000	79.8	22,000	79.5	14,000								
4.5	58.3	43,800	67.5	40,800	72.8	30,000	72.3	22,000	78.7	22,000	78.4	14,000								
5.0	55.0	39,800	65.4	38,900	71.3	29,000	70.8	22,000	77.8	22,000	77.5	14,000								
5.5	51.8	36,000	63.2	35,600	69.6	27,200	69.1	22,000	76.7	21,500	76.3	13,600								
6.0	48.3	32,800	60.9	32,400	67.9	25,000	67.5	21,600	75.6	20,000	75.2	12,800	79.3	14,000	78.9	8,000				
6.5	44.5	30,100	58.7	29,700	66.2	23,400	65.8	20,800	74.5	18,900	74.2	12,000	78.5	14,000	78.1	8,000				
7.0	40.5	27,200	56.3	26,300	64.4	22,000	64.1	20,100	73.2	17,800	73.0	11,400	77.7	13,500	77.4	8,000	79.2	8,000		
8.0	31.1	20,700	51.4	20,200	60.7	19,400	60.7	18,800	71.0	15,800	70.8	10,300	76.0	12,500	75.7	8,000	77.9	8,000	79.1	8,000
9.0	15.4	15,800	46.1	16,000	57.1	15,600	56.9	17,700	68.6	14,300	68.4	9,300	74.2	11,300	74.1	7,600	76.6	8,000	77.9	8,000
10.0			40.0	13,000	53.2	12,700	53.1	15,300	66.3	13,000	66.0	8,500	72.5	10,400	72.3	7,000	75.1	7,500	76.7	8,000
11.0			33.2	11,000	48.9	10,500	48.9	12,700	63.8	11,500	63.6	7,800	70.7	9,600	70.5	6,400	73.5	6,900	75.2	7,500
12.0			24.9	9,200	44.7	8,700	44.5	11,000	61.2	10,000	61.0	7,200	68.9	8,800	68.7	5,800	71.9	6,400	73.9	6,900
13.0			10.3	7,600	39.5	7,200	39.6	9,400	58.5	8,500	58.5	6,700	67.0	8,200	66.9	5,400	70.3	5,900	72.5	6,500
14.0					34.3	6,000	34.0	8,200	55.8	7,300	55.8	6,200	65.3	7,600	64.9	4,900	68.6	5,500	71.0	6,000
15.0					28.2	5,000	27.8	7,400	53.0	6,400	53.2	5,800	63.3	6,800	63.0	4,600	67.0	5,100	69.5	5,600
16.0					20.2	4,200	20.0	6,500	50.1	5,600	50.3	5,500	61.3	6,000	61.0	4,200	65.2	4,700	67.9	5,200
17.0									47.0	4,800	47.2	5,300	59.1	5,200	59.0	3,900	63.6	4,400	66.5	4,900
18.0									43.7	4,200	44.1	5,000	57.2	4,600	57.0	3,600	61.8	4,100	64.9	4,600
19.0									40.3	3,600	40.6	4,800	54.9	4,000	54.9	3,400	60.0	3,800	63.2	4,300
20.0									36.6	3,100	36.9	4,300	52.8	3,500	52.8	3,200	58.2	3,600	61.7	3,900
22.0									27.8	2,300	28.1	3,400	48.1	2,800	48.2	2,900	54.3	3,100	58.3	3,100
24.0									15.3	1,700	15.4	2,700	43.0	2,000	43.3	2,600	50.0	2,600	54.6	2,400
26.0													37.5	1,500	37.8	2,300	45.6	2,100	51.0	1,800
28.0													31.1	1,000	31.6	2,100	40.7	1,600	47.1	1,400
30.0													23.4	700	23.7	1,600	35.2	1,200	43.0	1,000
32.0															11.6	1,300	29.0	900		
D						(	)°							19°		0°	2	22°	3	38°
								Telesc	oping	condition	ons (9	%)								
Telescoping Mode		I,II		Ι		Ι		II		Ι		II		Ι		II		II	I	,II
2nd boom		0		50		100		0	1	100		0		100		0		50	1	00
3rd boom		0		0		0		33		33		66		66	1	00	1	00	1	00
4th boom		0		0		0		33		33		66		66		00		00	1	00
Top boom		0		0		0		33		33		66		66	1	00	1	00	1	00

A:Boom length (m)

B:Load radius (m)

C :Loaded boom angle (°)

D: Minimum boom angle for indicated length (no load)

**ON OUTRIGGERS** Unit: kg

				Out	rigger ext	ended to	,	(6.7m)				
		42.	0m Boon	n + 9.9m	Jib			42.0	m Boom	ı + 17.7m	n Jib	
С	$3.5^{\circ}$	offset	25° c	offset	45° c	offset	3.5° (	offset	25° c	offset	45° c	offset
	R	W	R	W	R	W	R	W	R	W	R	W
80°	9.6	4,000	13.0	3,500	14.9	3,000	12.0	2,700	18.1	2,000	22.4	1,400
75°	14.9	4,000	17.7	3,000	19.1	2,500	18.1	2,600	23.3	1,600	27.1	1,300
70°	19.3	3,100	22.1	2,400	23.2	2,100	23.2	1,900	27.9	1,300	31.2	1,100
65°	23.5	2,400	26.2	2,000	27.2	1,800	28.2	1,500	32.1	1,000	34.8	900
60°	27.4	2,000	29.9	1,600	30.9	1,500	32.6	1,200	36.3	900	38.4	800
55°	30.7	1,300	33.2	1,200	33.9	1,100	36.3	700	39.8	500	41.6	500
50°	33.9	800	36.1	700	36.6	700						

				Out	00	tended to	middle ( tion	(6.7m)				
С	;	34.3m Bo	oom ( tele + 9.9		mode I)		;	34.3m Bo		escoping 7m Jib	mode I)	
	$3.5^{\circ}$	offset	25° c	offset	45° c	offset	3.5° offset 25° offset					offset
	R	W	R	W	R	W	R	W	R	W	R	W
80°	7.6	5,600	11.4	4,700	13.7	3,400	10.1	3,600	16.3	2,400	20.3	1,600
75°	11.9	5,600	15.1	4,000	17.3	3,100	15.2	3,600	20.7	2,100	24.3	1,500
70°	15.7	4,800	18.7	3,400	20.5	2,800	19.7	3,000	24.7	1,800	27.8	1,400
65°	19.2	3,800	21.9	2,900	23.5	2,500	23.8	2,400	28.5	1,600	31.1	1,300
60°	22.5	3,200	25.1	2,500	26.3	2,300	27.7	2,000	32.0	1,400	34.1	1,200
55°	25.6	2,400	27.9	2,100	28.9	2,000	31.3	1,600	35.2	1,300	36.7	1,100
50°	28.3	1,600	30.5	1,500	31.2	1,400	34.5	1,000	37.9	800	39.0	700
45°	31.0	1,100	32.8	1,000	33.3	1,000	37.5	600	40.4	500		
40°	33.3	700	34.9	600								

				Outi	rigger ext	ended to	`	6.7m)				
	3	38.1m Bo	om ( tele + 9.9		mode II )			38.1m Bo	oom ( tele + 17.7		mode II	)
С	3.5° (	offset	25° c	offset	45° c	ffset	3.5° (	offset	25° c	offset	45° c	offset
	R	W	R	W	R	W	R	W	R	W	R	W
80°	8.9	4,500	12.7	4,100	14.8	3,100	10.9	2,800	17.7	2,200	21.7	1,500
75°	13.8	4,500	16.7	3,200	18.6	2,600	16.6	2,800	22.3	1,800	25.9	1,300
70°	17.7	3,400	20.6	2,600	22.2	2,200	21.3	2,100	26.5	1,400	29.7	1,100
65°	21.5	2,600	24.2	2,100	25.6	1,800	25.8	1,600	30.5	1,100	33.3	1,000
60°	25.1	2,100	27.6	1,700	28.8	1,600	30.0	1,300	34.3	900	36.4	800
55°	28.4	1,700	30.8	1,500	31.7	1,400	33.9	1,000	37.8	800	39.3	700
50°	31.5	1,400	33.6	1,300	34.2	1,200	37.6	800	41.0	700	42.0	600
45°	34.3	900	36.1	800	36.4	800						
40°	36.8	500	38.3	500						·		

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

ON OUTF	RIGG	ERS																	Uı	nit : kg
							Out			led to m		(5.5m)								
<del></del>		4.4		<b>5</b> 0	1	4.0			360	Rotation				0.4			0.	2.4	4	2.0
A		1.1	_	5.0		16 I	3.8	I		26 I I	5.6			34	i –			8.1		2.0
В	С		С		С		С		С		С		С		С		С		С	
3.0	67.5	55,000	73.7	40,800	77.4	30,000	76.9	22,000												
3.5	64.4	53,400	71.7	40,800	75.9	30,000	75.4	22,000												
4.0	61.3	-,	69.6	40,800	74.4	30,000	74.0	22,000	79.8	22,000	79.5	14,000								
4.5		43,800		39,000		30,000	72.3		78.7		78.4									
5.0	55.0	37,600	65.4	32,700	71.3	29,000	70.8	22,000	77.8	22,000	77.5	14,000								
5.5	51.8	30,500	63.2	28,000	69.6	25,100	69.1	22,000	76.7	21,500	76.3	13,600								
6.0	48.3	26,000	60.9	24,300	67.9	21,900	67.5	21,600	75.6	20,000	75.2	12,800	79.3	14,000	78.9	8,000				
6.5	44.5	22,000	58.5	21,400	66.2	19,400	65.8	20,800	74.5	18,300	74.2	12,000	78.5	14,000	78.1	8,000				
7.0	40.5	19,400	56.2	18,600	64.4	17,200	64.1	20,100	73.2	16,500	73.0	11,400	77.7	13,600	77.4	8,000	79.2	8,000		
8.0	31.1	15,000	51.3	14,500	60.7	13,600	60.5	16,500	70.9	13,700	70.8	10,300	76.0	12,500	75.7	8,000	77.9	8,000	79.1	8,000
9.0	15.2	11,600	45.9	11,500	56.9	11,000	56.8	13,300	68.4	11,500	68.4	9,300	74.2	11,100	74.1	7,600	76.6	8,000	77.9	8,000
10.0			40.0	9,300	53.1	9,000	52.9	11,100	65.9	9,800	66.0	8,500	72.4	9,500	72.3	7,000	75.1	7,500	76.7	8,000
11.0			33.2	7,700	48.9	7,300	48.8	9,300	63.5	8,400	63.6	7,800	70.6	8,300	70.5	6,400	73.5	6,900	75.2	7,500
12.0			24.9	6,400	44.6	6,000	44.3	7,900	60.9	7,100	61.0	7,200	68.7	7,200	68.7	5,800	71.9	6,400	73.9	6,900
13.0			10.3	5,300	39.5	4,800	39.6	6,800	58.3	6,100	58.5	6,700	66.8	6,400	66.9	5,400	70.3	5,900	72.4	6,300
14.0					34.3	3,900	33.9	5,900	55.5	5,200	55.8	6,200	64.8	5,600	64.9	4,900	68.6	5,500	70.8	5,600
15.0					28.2	3,200	27.8	5,100	52.8	4,400	53.0	5,600	63.0	4,900	63.0	4,600	67.0	5,100	69.3	4,900
16.0					20.2	2,500	19.8	4,300	49.8	3,700	50.2	4,900	60.9	4,200	61.0	4,200	65.2	4,700	67.6	4,400
17.0									46.7	3,100	46.9	4,300	58.9	3,600	59.0	3,900	63.5	4,200	66.0	3,900
18.0									43.5	2,600	43.7	3,800	56.8	3,100	57.0	3,600	61.6	3,700	64.4	3,400
19.0									40.0	2,100	40.4	3,300	54.8	2,600	54.9	3,400	59.7	3,200	62.8	3,000
20.0									36.2	1,700	36.6	2,900	52.4	2,200	52.8	3,200	57.8	2,800	61.1	2,600
22.0									27.7	1,100	27.9	2,200	47.8	1,500	48.1	2,500	53.8	2,100	57.7	1,900
24.0											15.3	1,700	42.7	1,000	43.1	2,000	49.6	1,600	54.2	1,400
26.0															37.6	1,500	45.1	1,200	50.5	900
28.0															31.3	1,100	40.3	800		
30.0															23.4	800				
D				C	)°					13°		0°		38°	1	9°	3	37°	4	17°
								Telesc	oping	condition	ons (9	%)								
Telescoping Mode		I,II		I		I		II		I		II		I		II		II	I	,II
2nd boom		0		50	1	100		0	1	100		0	1	00		0	5	50	1	00
3rd boom		0		0		0		33		33		66	-	66	1	00	1	00	1	00
4th boom		0		0		0		33		33		66		66	1	00	1	00	1	00
Top boom		0		0		0		33		33		66		66	1	00	1	00	1	00

A:Boom length (m)

B:Load radius (m)

C :Loaded boom angle (°)

D: Minimum boom angle for indicated length (no load)

**ON OUTRIGGERS** Unit: kg

	Outrigger extended to middle (5.5m)  360° Rotation													
					3	60° Rota	tion							
		42.0	m Boo	m + 9.9r	n Jib			42.0r	n Booi	m + 17.7	m Jib			
С	3.5°	3.5° offset 25° offset 45° offset 3.5° offset 25° offset 45° offset										offset		
	R											W		
80°	9.6	4,000	13.0	3,500	14.9	3,000	12.0	2,700	18.1	2,000	22.4	1,400		
75°	14.9	4,000	17.7	3,000	19.1	2,500	18.1	2,600	23.3	1,600	27.1	1,300		
70°	19.3	3,100	22.1	2,400	23.2	2,100	23.2	1,900	27.9	1,300	31.2	1,100		
65°	23.2 2,100 25.9 1,700 27.1 1,6						27.9	1,300	32.1	1,000	34.8	800		
60°	26.8 1,200 29.5 1,000 30.5						31.7	500						
55°	30.2 500 32.7 500													

				Outrig	-	ended to 60° Rota		e (5.5m)						
С	3	34.3m Boom ( telescoping mode $I$ )												
	3.5° offset 25° offset 45° offset 3.5° offset 25° offset 45° offset													
	R	R W R W R W R W R W												
80°	7.6	7.6 5,600 11.4 4,700 13.7 3,400 10.1 3,600 16.3 2,400 20.3 1,600												
75°	11.9	5,600	15.1	4,000	17.3	3,100	15.2	3,600	20.7	2,100	24.3	1,500		
70°	15.7	4,800	18.7	3,400	20.5	2,800	19.7	3,000	24.7	1,800	27.8	1,400		
65°	19.1	3,500	21.9	2,900	23.5	2,500	23.8	2,400	28.5	1,600	31.1	1,300		
60°	22.2	22.2 2,300 24.8 1,900 26.2 1,800 27.3 1,400 31.8 1,100 33.9 900												
55°	25.3	1,400	27.6	1,200	28.7	1,100	30.6	800	34.7	600	36.5	500		
50°	28.1													

	Outrigger extended to middle (5.5m)												
	360° Rotation												
С	38	38.1m Boom ( telescoping mode II ) + 9.9m Jib + 17.7m Jib											
	3.5°	3.5° offset 25° offset 45° offset 3.5° offset 25° offset 45° offset											
	R												
80°	8.9	4,500	12.7	4,100	14.8	3,100	10.9	2,800	17.7	2,200	21.7	1,500	
75°	13.8	4,500	16.7	3,200	18.6	2,600	16.6	2,800	22.3	1,800	25.9	1,300	
70°	17.7	3,400	20.6	2,600	22.2	2,200	21.3	2,100	26.5	1,400	29.7	1,100	
65°	21.5	2,600	24.2	2,100	25.6	1,800	25.8	1,600	30.5	1,100	33.3	1,000	
60°	25.1	25.1 2,000 27.6 1,700 28.8 1,600 29.7 1,200 34.3 900 36.4 800											
55°	28.2	1,200	30.5	1,100	31.4	1,000	33.3	600	37.5	500	39.2	500	
50°	31.0												

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

ON OUT	RIGGI	ERS																	Ur	nit : kg
							Outri					(2.8m)								
	11	1.1m	1.0	5.0m		10	8m		360° I	Rotation	n 6m			24	3m		20	.1m	42	.0m
В	_	1.1m 		o.um I	С	18.	_			∠6. 				34.	_	1	_	.1111		.om
	С		С				С		С		С		С		С		С		С	
3.0	67.2	,		23,400	77.1			22,000												
3.5		22,400	71.5	,	75.5	-,		19,600												
4.0		18,600		16,000		14,100		16,800		13,100		14,000								
4.5		15,500		13,600		12,000		14,600		11,400		13,200								
5.0 5.5		13,200	65.1	,	70.7 69.1	,		12,800	77.0			11,700								
	51.6	-	62.9	,		8,900		11,300	76.0			10,500	70.0	7.500	70.0	0.000				
6.0 6.5	48.1 44.4	9,500 8,000	60.7 58.4	8,800 7,700	67.4 65.7	7,800 6,800	67.2 65.5	9,100	74.8 73.7	7,800 7,000	74.9 73.8	9,400 8,500	78.8 77.9	7,500 6,700	78.9 78.1	7,900				
7.0	40.2		56.0	6,800	64.1	5,900	63.8	8,200	72.6	6,200	72.6		77.0	6,100	77.2	7,200	79.0	6,500		
8.0												7,800						,	70.5	4.000
9.0	30.6 15.2		51.2 45.9	5,100 3,700	60.6 56.8	4,500 3,400	60.3 56.6	6,700 5,400	70.3 67.8	5,000 4,000	70.3 67.9	6,500 5,500	75.3 73.6	4,900 4,100	75.5 73.7	6,100 5,200	77.4 75.8	,	78.5 77.1	4,800
10.0	15.2	4,000	39.9	2,700	52.9		52.7	4,300	65.3	3,200	65.5	4,600	71.8		71.9		74.3	,	75.7	-
11.0			32.9	1,800	48.8	1,600	48.7	3,400	63.0	2,500	62.9	3,900	70.0		70.1	3,800	72.5		74.4	2,700
12.0			24.5	1,100	44.5	900	44.0	2,700	60.5	1,900	60.4	3,200		2,200	68.3		70.9	,		2,300
13.0			24.5	1,100	44.0	300	39.2	2,100	57.9		57.8	2,600	66.4	1,700	66.3	2,800	69.2	,	71.6	
14.0							33.6	1,600	55.1	1,000	55.0	2,100	64.6		64.5		67.4	, i	70.3	ĺ
15.0							27.5	1,200	00	1,000	52.2	1,700	62.6	1,000	62.5		65.8	,	68.9	1,200
16.0							19.3	800			49.4	1,300	60.5	700	60.5		64.1		67.5	900
17.0											46.4	1,200			58.6	1,300	62.2	1,000		
18.0											43.1	700			56.4	1,000	60.3	700		
19.0															54.2	700				
D		0°		12°		42°		10°	,	52°		41°	6	60°	5	54°	5	59°	6	66°
								Telesc	oping	condition	ons (%	6)								
Telescoping Mode		I,II		I		I		II		I		II		I		II		II	I	,II
2nd boom		0		50	1	100		0	1	00		0	1	00		0	Ę	50	1	00
3rd boom		0		0		0		33		33		66	6	66	1	00	1	00	1	00
4th boom		0		0		0		33		33		66	6	66	1	00	1	00	1	00
Top boom		0		0		0		33		33		66	6	66	1	00	1	00	1	00

A:Boom length (m)

B:Load radius (m)

C :Loaded boom angle (°)

D: Minimum boom angle for indicated length (no load)

#### NOTES FOR "ON OUTRIGGERS" TABLE

- 1. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above bold lines are based on crane strength and those below, on its stability.
- 2. Rated lifting capacities based on crane stability are according to ISO 4305.
- 3. The mass of the hook (570 kg for 55 t capacity, 470 kg for 40 t capacity, 400 kg for 20 t capacity, 150 kg 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.
- 4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reduction for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
- 5. 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} for main winch and auxiliary winch.

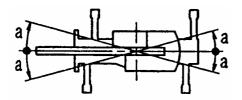
Boom length	11.1m	11.1m to 15.0m	15.0m to 18.8m	18.8m to 42.0m	Single top Jib
Number of parts of line	11	8	6	4	1

The lifting capacity data stored in the AUTOMATIC MOMENT LIMITER (AML-L) 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 AUTOMATIC MOMENT LIMITER (AML-L).

6. 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	6.7m	5.5m	2.8m
	(middle)	(middle)	(minimum)
Angle <b>a</b> °	25	15	5



ISO 4305

ON TIRES Unit: kg

							Stationary								/IIIC. Kg	
A				Over	Front							360° Ro	otation			
	1	1.1	1	5.0	1	8.8	2	6.6	1	1.1	1	5.0	1	8.8	2	6.6
В	С		С		C		С		С		C		C		С	'
3.0	67.2	29,500	73.4	22,000					67.2	17,700	73.4	16,300				
3.5	64.3	27,200	71.4	22,000					64.3	14,800	71.4	14,200				
4.0	61.3	24,600	69.3	20,500	73.7	15,500			61.3	12,500	69.3	12,100	73.7	9,800		
4.5	58.3	22,200	67.2	19,600	72.1	15,500			58.3	10,600	67.2	10,100	72.1	9,800		
5.0	55.0	20,000	65.1	18,200	70.5	15,000			55.0	9,100	65.1	8,700	70.5	8,600		
5.5	51.7	17,500	63.0	16,400	68.8	14,400			51.7	7,700	63.0	7,500	68.8	7,300		
6.0	48.1	15,300	60.7	14,300	67.2	13,700	74.9	9,400	48.1	6,600	60.7	6,300	67.2	6,100	74.9	6,700
6.5	44.4	13,500	58.4	12,600	65.5	12,800	73.9	9,400	44.4	5,600	58.4	5,300	65.5	5,200	73.9	5,800
7.0	40.4	11,900	56.0	11,100	63.8	11,200	72.8	9,400	40.4	4,800	56.0	4,500	63.8	4,400	72.8	5,200
8.0	30.7	9,300	51.1	8,700	60.2	8,700	70.6	9,000	30.7	3,600	51.1	3,200	60.2	3,200	70.6	4,100
9.0	15.3	7,600	45.7	7,000	56.6	6,800	68.2	7,800	15.3	2,600	45.7	2,200	56.6	2,100	68.2	3,000
10.0			39.8	5,600	52.7	5,500	65.6	6,500			39.8	1,400	52.7	1,300	65.6	2,200
11.0			32.7	4,700	48.6	4,500	63.2	5,300			32.7	800	48.6	600	62.6	1,500
12.0			24.4	3,800	44.1	3,600	60.6	4,500							60.1	1,000
13.0			10.4	3,000	39.3	2,800	58.0	3,800								
14.0					33.6	2,200	55.3	3,200								
15.0					27.7	1,600	52.5	2,700								
16.0					19.1	1,000	49.6	2,200								
17.0							46.4	1,800								
18.0							43.1	1,400								
19.0							39.7	1,100								
20.0							36.0	800								
D				0°				32°		0°		29°	4	18°	5	58°
						Teles	coping	conditi	ons (%	6)						
Telescoping Mode		I,II	I	II	I	II	I	II		I,II	I	II	I	II	I	II
2nd boom		0	50	0	100	0	100	0		0	50	0	100	0	100	0
3rd boom		0	0	16	0	33	33	66		0	0	16	0	33	33	66
4th boom		0	0	16	0	33	33	66		0	0	16	0	33	33	66
Top boom		0	0	16	0	33	33	66		0	0	16	0	33	33	66

A:Boom length (m)

B:Load radius (m)

C:Loaded boom angle (°)

D :Minimum boom angle for indicated length (no load)

**ON TIRES** Unit: kg

	CREEP  A Over Front 360° Rotation																
	Α				Over	Front							360° Ro	otation			
	<i>``</i>	1	1.1m	18	5.0m	18	8.8m	26	.6m	1	1.1m	15	5.0m		3.8m	26	5.6m
В		С		С		С		С		С		C		С		С	
	3.0	67.2	22,700	73.4	21,300					67.2	17,000	73.4	16,300				
	3.5	64.3	20,200	71.4	19,200					64.3	14,800	71.4	14,200				
	4.0	61.3	18,200	69.3	17,300	73.7	15,000			61.3	12,200	69.3	11,700	73.7	9,800		
	4.5	58.3	16,500	67.2	15,800	72.1	15,000			58.3	10,000	67.2	9,600	72.1	9,300		
	5.0	55.0	15,100	65.1	14,400	70.5	14,100			55.0	8,200	65.1	8,000	70.5	7,700		
	5.5	51.7	13,600	63.0	13,200	68.8	13,000			51.7	7,000	63.0	6,600	68.8	6,400		
	6.0	48.1	12,400	60.7	12,000	67.2	11,900	74.9	9,400	48.1	5,900	60.7	5,500	67.2	5,400	74.7	6,400
	6.5	44.4	11,400	58.4	11,000	65.5	11,000	73.9	9,400	44.4	5,000	58.4	4,700	65.5	4,600	73.5	5,500
	7.0	40.4	10,500	56.0	10,100	63.8	10,100	72.8	9,400	40.4	4,300	56.0	4,100	63.8	3,800	72.4	4,800
	8.0	30.7	8,500	51.1	8,100	60.2	7,900	70.6	8,600	30.7	3,100	51.1	2,800	60.2	2,700	70.0	3,600
	9.0	15.3	6,700	45.7	6,300	56.6	6,200	68.2	7,200	15.7	2,200	45.7	1,900	56.6	1,700	67.5	2,700
•	10.0			39.8	5,100	52.7	4,900	65.6	5,900			39.8	1,200	52.7	1,100	65.1	1,900
,	11.0			32.7	4,100	48.6	3,900	63.2	4,900							62.6	1,300
•	12.0			24.4	3,300	44.1	3,100	60.6	4,000							60.1	800
,	13.0			10.4	2,600	39.3	2,400	58.0	3,300								
•	14.0					33.6	1,800	55.3	2,700								
•	15.0					27.7	1,300	52.5	2,200								
,	16.0					19.1	900	49.6	1,800								
,	17.0							46.4	1,400								
	18.0							43.1	1,000								
•	19.0							39.7	800								
D	)				0°				36°		0°	;	34°	5	50°	5	59°
				1	•	1	Teles	coping	conditi	ons (%	6)		•		1		
Telesc Mode	oping		I,II	I	II	I	II	I	II		I,II	I	II	I	II	I	II
2nd b	oom		0	50	0	100	0	100	0		0	50	0	100	0	100	0
3rd bo	oom		0	0	16	0	33	33	66		0	0	16	0	33	33	66
4th bo	oom		0	0	16	0	33	33	66		0	0	16	0	33	33	66
Top b	oom		0	0	16	0	33	33	66		0	0	16	0	33	33	66

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

#### NOTES FOR "ON RUBBER" TABLES

- 1. 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 bold lines are based on tire capacity and those below, on crane stability. They are based on actual working radii increased by tire deformation and boom deflection.
- 2. Rated lifting capacities based on crane stability are according to ISO 4305.
- 3. The mass of the hook (570 kg for 55t capacity, 470 kg for 40t capacity, 400 kg for 20t capacity, 150 kg for 5.6t 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.
- 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 tires lifting with "jib" is not permitted. Maximum permissible boom length is 26.6 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.

Tires	Air pressure
29.5-25 22PR	420 kPa (4.2kgf/cm <sup>2</sup> )
29.5-25 28PR	450 kPa (4.5kgf/cm <sup>2</sup> )

- 10. For CREEP operation, set Drive select switch to "4-WHEEL(Lo)" and set gear shift lever to "1"
- 11. Standard number of parts of line for on tires operation should be according to the following table.

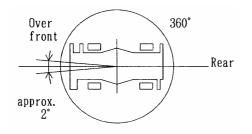
Load per line should not surpass 54.9 kN {5,600 kgf} for main winch and auxiliary winch.

Boom length		Over Front	30	60° Rotation
Boom length	11.1m	11.1m to 26.6m	11.1m	11.1m to 26.6m
Number of parts of line (Single top)	6	4 (1)	4 (1)	4 (1)

The lifting capacity data stored in the AUTOMATIC MOMENT LIMITER (AML-L) 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 AUTOMATIC MOMENT LIMITER (AML-L).

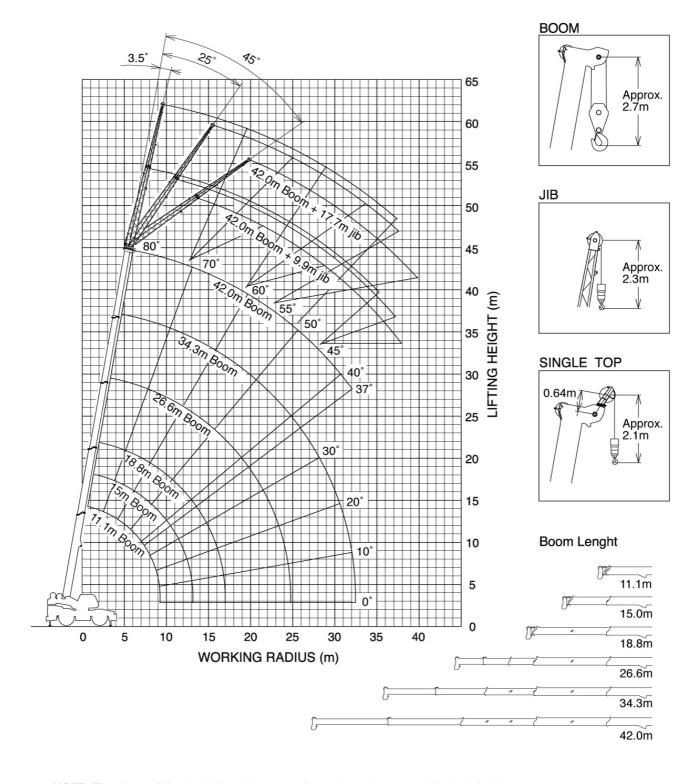
### **WORKING AREA**



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

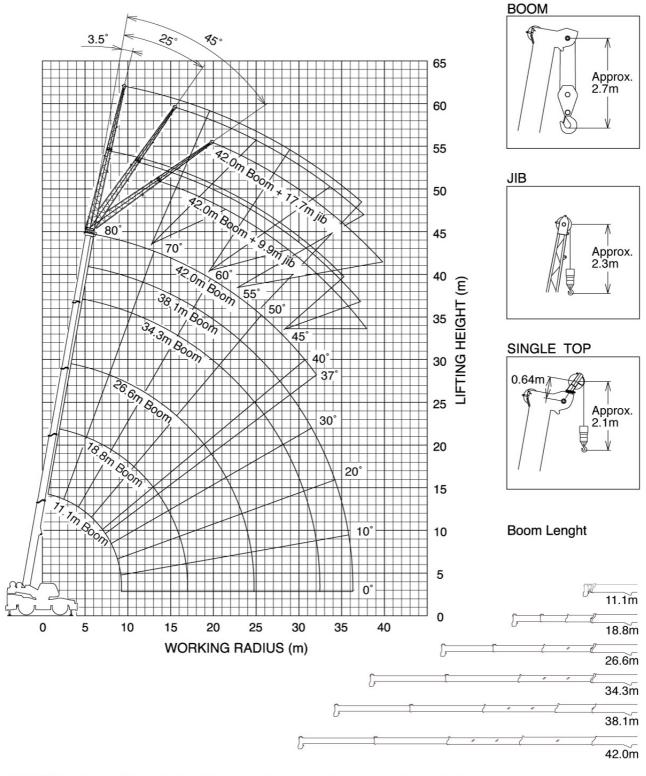
### Working range

### Telescoping mode I



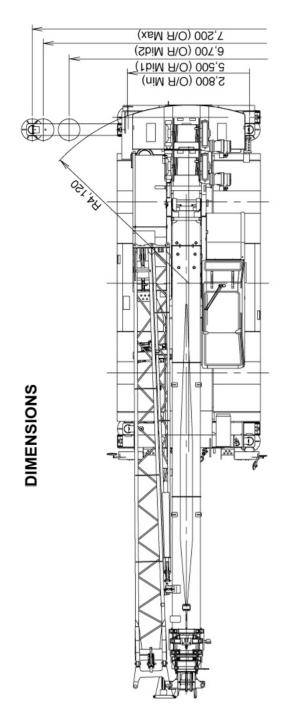
**NOTE:** The above lifting height and boom angle are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions. The above working range is shown on condition with outriggers fully (7.2m) extended.

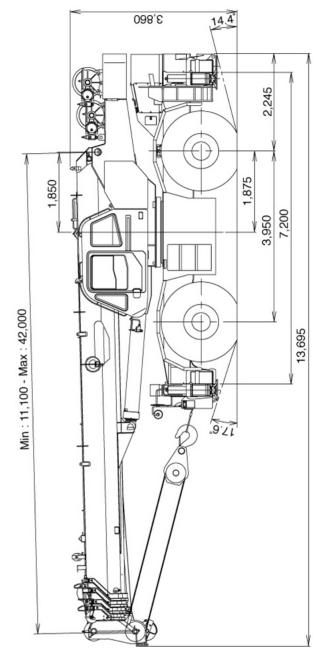
### Telescoping mode II

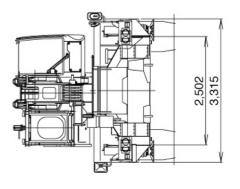


**NOTE:** The above lifting height and boom angle are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions. The above working range is shown on condition with outriggers fully (7.2m) extended.









GR-550EX Axle Weight Distribution Chart

GR-550EX Axle Weight Distribution Chart			UNIT : kg
	GVW	Front	Rear
Basic standard machine includes: 5-section boom (11.1 m - 42.0 m) 2-stage jib (9.9 m, 17.7 m) Mitsubishi 6M60-TLU3B Single top 5.6 ton hook ball 40 ton 4 sheaves hook block Hot water cab heater, air conditioner and defroster Outrigger control box (Both sides of carrier) Reversing steering compensator Emergency steering	43,690	23,975	19,715
Add: 1. 55 ton 6 sheaves hook block 2. 20 ton 2 sheaves hook block	+570 +400	+1,030 +720	-460 -320
Remove: 1. 5.6 ton hook ball 2. Top jib (7.8 m) 3. Base jib (9.9 m)	-150 -307 -831	-209 -367 -1,538	59 60 707