

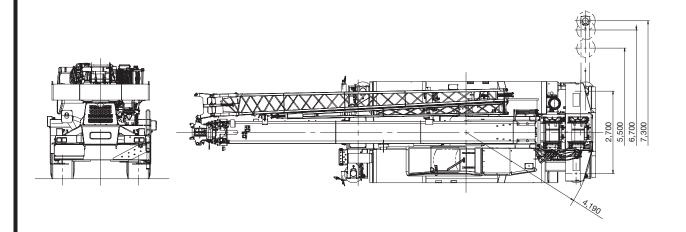
## **GR-750XL**

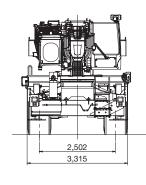
(Left-hand drive)
68.0 Metric Ton (75 US Ton) Capacity

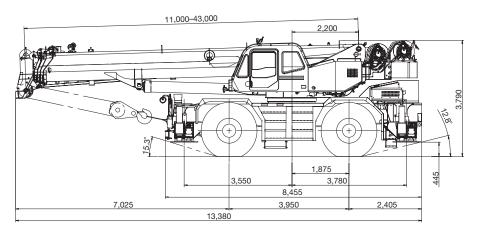
SPEC. SHEET NO. GR-750-3-00103/ES-04

## **HYDRAULIC ROUGH TERRAIN CRANE**

### **DIMENSIONS**







Note: Dimension is with boom angle at -1.6 degree.

#### **GENERAL DIMENSIONS**

Turning radius (29.5 - 25 Tires)	
4 wheel steer	6.8 m
2 wheel steer	11.9 m

Overall length	approx.	13,380 mm
Overall width	approx.	3,315 mm
Overall height	approx.	3,790 mm

## CRANE SPECIFICATIONS

#### **BOOM**

5 section full power partially synchronized telescoping boom of round box construction with 6 sheaves at boom head. The synchronization system consists of 2 telescope cylinder, extension cables and retraction cables. Hydraulic cylinder fitted with holding valve. 2 easily removable wire rope guards, rope dead end provided on both sides of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

#### **BOOM ELEVATION**

By a double acting hydraulic cylinder with holding valve. Combination controls for hand or foot operation. Boom angle indicator.

Automatic speed reduction and slow stop function.

#### JIB

2 stage lattice swing around type with triple offset (tilt type). Single sheave at jib head.

Stows alongside base boom section.

#### **AUXILIARY LIFTING SHEAVE (SINGLE TOP)**

Single sheave mounted to main boom head for single line work(stowable).

Root diameter..... 0.396 m

#### **ANTI-TWO-BLOCK DEVICE**

Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.

#### **SLEWING**

Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing.

Equipped with manually locked/released slewing brake. A positive slewing lock for pick and carry and travel modes, manually engaged in cab. Twin slewing system: Free slewing or lock slewing controlled by selector switch on front console.

Slewing speed ...... 2.4 min<sup>-1</sup> {rpm}

#### **WINCH**

#### MAIN WINCH

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

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Equipped with cable follower and drum rotation indicator.

#### MAIN DRUM

Root diameter x wide	0.362 m x 0.6 m
Wire rope diameter x length	. 19 mm x 235 m
Drum capacity	. 304 m, 7 layers
Maximum single line pull (1st layer)73	3.3 kN (7,480 kgf)
Maximum permissible linepull wire strength 69	9.4 kN (7,085 kgf)

#### **AUXILIARY WINCH**

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

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Wire rope diameter x length	19 mm x 133 m
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Maximum permissible linepull wire strength	69.4 kN (7,085 kgf)

#### **WIRE ROPE**

#### HOOK BLOCKS

68 ton (option)

7 sheaves with swivel hook and safety latch 35 ton (option)

3 sheaves with swivel hook and safety latch 5.6 ton

Weighted hook with swivel and safety latch

#### **HYDRAULIC SYSTEM**

**PUMPS** 

2 variable piston pumps for crane functions.

Tandem gear pump for steering, slewing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/disengaged by rotary switch from operator's cab.

#### **CONTROL VALVES**

Multiple valves actuated by pilot pressure with integral pressure relief valves.

#### **RESERVOIR**

763 liters capacity. External sight level gauge.

#### **FILTRATION**

BETA10=10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement.

OIL COOLER - Air cooled fan type.

#### **CAB AND CONTROLS**

Both crane and drive operations can be performed from one cab mounted on rotating superstructure.

Left side, 1 man type, steel construction with sliding door access and safety glass windows opening at side. Door window is powered control. Windshield glass window and roof glass window are shatter-resistant. Wiper and washer (front indshield and roof window). Tinted safety glass and sun visor. Tilt-telescoping steering wheel. Adjustable control lever stands for slewing, boom elevating, boom telescoping, auxiliary winch and main winch. Control lever stands can change neutral positions and tilt for easy access to cab. Foot operated controls: boom elevating, boom telescoping, service brake and engine throttle. 3 way adjustable operator's seat with high back, headrest and armrest. Cab floor mat. Engine throttle knob. Hot water cab heater and air conditioning.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, drive selector switch, parking brake switch, steering mode select switch, power window switch, pump engaged/disengaged switch, slewing brake switch, boom telescoping/auxiliary winch select switch, outrigger control panel, and slewing free/ lock selector switch.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Engin over-run alarm. Back-up alarm. Low oil pressure/high water temp. Warning device (visual). Rear steer centering light. Hydraulic oil pressure is monitored and displayed on the AML-C display panel.

## CRANE SPECIFICATIONS

#### TADANO LOAD MOMENT INDICATOR

(AML-C) including:

- · Control lever lockout function with audible and visual pre-warning
- Number of parts of line
- Boom position indicator
- Outrigger state indicator
- Slewing angle
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Potential lifting height
- Ratio of actual load moment to rated load moment indication
- Permissible load
- Automatic Speed Reduction and Slow Stop function on boom elevation and slewing
- Working condition register switch
- Load radius / boom angle / tip height / slewing range preset function
- External warning lamp
- Tare function

- · Main hydraulic oil pressure
- · Fuel consumption monitor
- Main winch / auxiliarly winch select
- Drum rotation indicator (audible and visible type) main and auxiliary winch
- On-rubber indicator

TADANO AML-C monitors outrigger extended length and automatically programs the corresponding "RATED LIFTING CAPACITIES" table

Operator's right hand console includes transmission gear selector, slewing lock lever and sight level bubble.

Upper right console includes flood lamp switch, roof washer and wiper switch, emergency outrigger set up key switch, jib status switch, eco mode switch, and air conditioning control switch. Lower right console includes boom emergency telescoping switch (2nd and 3rd-top)

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

## CARRIER SPECIFICATIONS

Rear engine, left-hand drive, driving axle 2-way selected type by manual switch, 4x2 front drive, 4x4 front and rear drive.

High tensile steel, all welded mono-box construction.

#### **ENGINE**

Model MITSUBISHI 6M60-TL Direct injection diesel Type

No. of cylinders

Combustion 4 cycle, turbo charged and after cooled

Bore x Stroke, mm 118 x 115 Displacement, liters 7.54 Air inlet heater 24 volt preheat

Dry type, replaceable element Air cleaner Oil filter Full flow with replaceable element Full flow with replaceable element Fuel filter

300, right side of carrier Fuel tank, liters

Cooling Liquid pressurized, recirculating by-pass Fin and tube core, thermostat controlled Radiator

Suction type, 6-blade, 600 dia. Fan, mm

24 volt Starting

24 volt system, negative ground Charging

2-120 amp. Hour Battery 830 at 2,600 min<sup>-1</sup> Compressor, air, I/min

Gross 200 (267) at 2,600 min-1 Output, Max. kW (HP)

Torque, Max. Nm 785 at 1,400 min-1

Capacity, liters

Cooling water 13-15 Lubrication Fuel 300

### **TRANSMISSION**

Electronically controlled full automatic transmission.

Torque converter driving full powershift with driving axle selector. 6 forward and 2 reverse speeds, constant mesh.

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

3 speeds - low range - 4-wheel drive

TRAVEL SPEED - 36 km/h

**GRADE ABILITY (tan** $\theta$ **)** - 147% (at stall), 30% \*

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

#### **AXLE**

Front: Full floating type, steering and driving axle with planetary reduction.

Rear: Full floating type, steering and driving axle with planetary reduction and non-spin rear differential.

#### **STEERING**

Hydraulic power steering controlled by steering wheel. 4 steering modes available: 2 wheel front, 2 wheel rear, 4 wheel coordinated and 4 wheel crab.

#### SUSPENSION

Front: Rigid mounted to the frame.

Rear: Pivot mounted with hydraulic lockout device.

#### **BRAKE SYSTEMS**

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.

TIRES - 29.5-25 22PR (OR) Air pressure: 420 kPa or 29.5-25 28PR (OR) Air pressure: 450 kPa

### **OUTRIGGERS**

4 hydraulic, beam and jack outriggers.

Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab. Beams extend to 7.3 m center-line and retract to within

3.315 m overall width with floats. Outrigger jack floats

are attached thus eliminating the need of manually attaching and

detaching them. Controls and sight bubble located in

superstructure cab. 4 outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas.

Min. Extension 2.7 m center to center Mid. Extension 5.5 m center to center Mid. Extension 6.7 m center to center Max. Extension 7.3 m center to center Float size (Diameter) 0.6 m

#### COUNTERWEIGHT

Integral with slewing frame Mass... 5,670 kg (Containing weight with auxiliary winch and wire rope)

## STANDARD EQUIPMENT

- Telematics (machine data logging and monitoring system) with - HELLO-NET via internet (availability depends on countries)
- Eco mode system
- Positive control
- Over unwinding prevention
- Emergency steering system
- Transmission neutral position engine start
- Overshift prevention
- Parking braked travel warning
- Tilt-telescope steering wheel
- Halogen head lamp
- Fenders

- Air dryer
- Water separator with filter (high filtration)
- Air cleaner dust indicator
- Full instrumentation package
- Complete highway light package
- Tire inflation kit
- Towing hooks-Front and rear
- Lifting eyes
- Hook block tie down (front bumper)
- Weighted hook storage compartment
- Winch drum mirror
- Tool storage compartment

## **OPTIONAL EQUIPMENT**

- Wind speed indicator
- Inclinometer (electronic inclination indicator)
- Outrigger load display and warning
- Hook block-68 t capacity (7 sheaves, swivel type with safty latch. Mass: approx. 540 kg)

- Hook block-35 t capacity (3 sheaves, swivel type with safty latch. Mass: approx. 450 kg)

## HOISTING PERFORMANCE

#### **LINE SPEEDS AND PULLS**

	Main or auxiliary wi	nch - 0.362 m drum
Layer	Line speeds <sup>1</sup>	Line pulls Available²
	m/min	kN (kgf)
1st	101	73.3 (7,480)
2nd	110	67.6 (6,900)
3rd	119	61.4 (6,260)
4th	128	56.5 (5,760)
5th	137	52.9 (5,400)
6th	146	48.9 (4,990)
7th³	155	45.8 (4,670)

- Maximum permissible line pull wire strength. Main & Auxiliary: 69.4 kN (7,085 kgf) with 6 x 31 class rope.

- <sup>1</sup> Line speed based only on hook block, not loaded.
- <sup>2</sup> Developed by machinery with each layer of wire rope, but not based on rope strength or other limitations in machinery or equipment.
- <sup>3</sup> Seventh layer of wire rope are not recommended for hoisting operations.

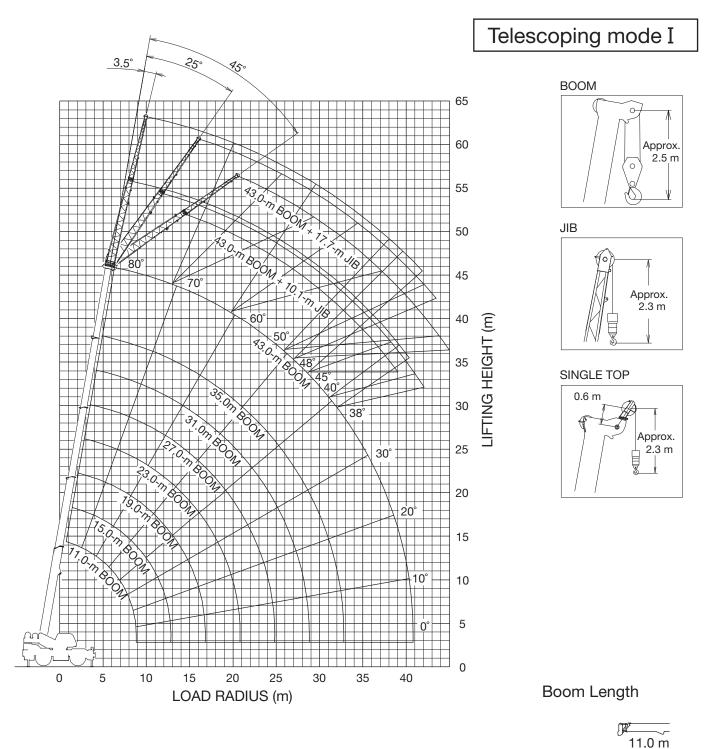
#### **DRUM WIRE ROPE CAPACITIES**

	Main and auxiliary d	rum grooved lagging
Wire	19 mm v	vire rope
rope layer	Rope per layer	Total wire rope
layer	m	m
1	34.2	34.2
2	37.3	71.5
3	40.3	111.8
4	43.4	155.2
5	46.4	201.6
6	49.5	251.1
7	52.6	303.7

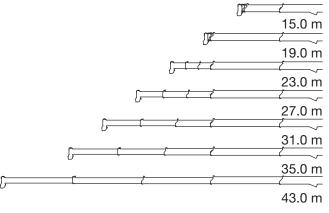
#### **DRUM DIMENSIONS**

Root diameter	362 mm
	002 111111
Length	600 mm
Flange diameter	657 mm

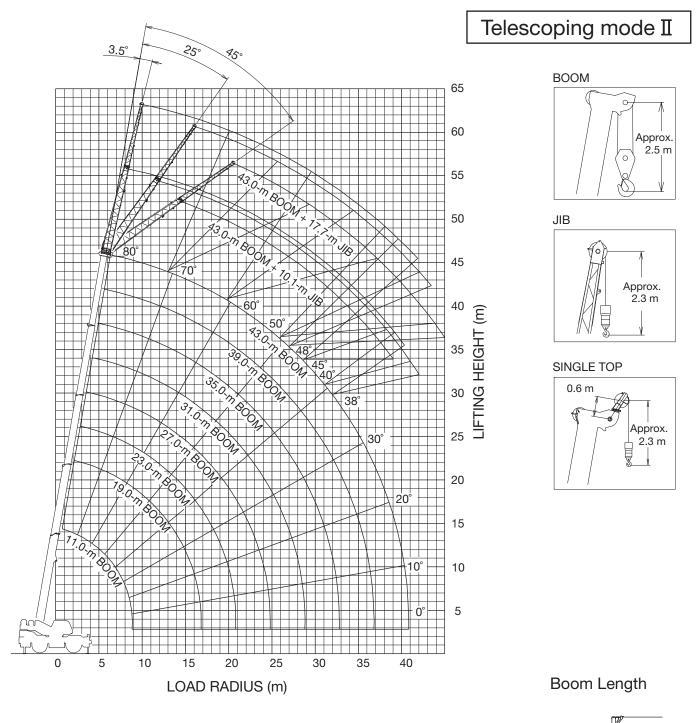
## **GR-750XL WORKING RANGE CHART**



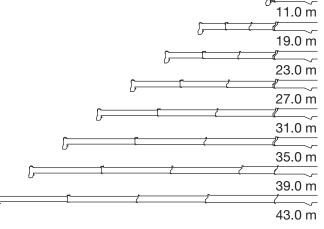
The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions. The above working range is shown on condition with outriggers fully (7.3 m) extended.



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The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions. The above working range is shown on condition with outriggers fully (7.3 m) extended.



									ON	OUTF				EXTE			n SP	READ										
Α .	11.	.0 m	15	.0 m		19.	0 m			23.	0 m			27.0	0 m			31.0	) m			35.0	) m		39	.0 m	43.	0 m
В	С		С	]	С		С	]	С		С	]	С		С	]	С		С		С		С		С		С	
2.4	72	68.0	77	40.8																								
3.0	68	60.7	75	40.8		32.0	_	20.0																				
3.5	65	54.9	73	40.8	78	32.0	77	20.0	79	20.0	79	20.0																
4.0	62	49.9	71	40.8	76	32.0	75	20.0	78	20.0	78	20.0																
4.5	59	45.1	68	40.8	73	32.0	73	20.0	77	20.0	77	20.0	79	20.0	79	17.0												
5.0	56	41.6	66	38.9	72	31.9	72	20.0	76	20.0	76	20.0	78	19.8	78	16.9												
5.5	52	38.3	64	36.7	71	31.7	71	20.0	75	20.0	75	20.0	77	19.5	77	16.9												
6.0	49	35.0	62	34.5	69	31.6	69	20.0	73	20.0	73	20.0	76	19.3	76	16.8	78	16.6	78	14.4								
6.5	44	32.4	60	32.2	68	30.3	67	20.0	72	20.0	72	19.9	75	18.8	75	16.3	77	16.1	77	13.9								
7.0	39	30.1	57	29.8	66	28.7	65	20.0	71	20.0	71	19.8	74	18.3	74	15.6	77	15.5	77	13.4								
7.5	34	27.8	55	27.5	64	27.2		20.0	69	20.0	69	19.7	73	17.8	73	14.9	76	14.8	76	12.9	78	12.9	78	11.2	79	10.0		
8.0	29	21.1	52	25.4	63	25.2	62	20.0	68	20.0	68	18.9	72	17.7	72	14.4	75	14.6	75	12.4	77	12.7	77	10.9	79	10.0		
9.0			47	21.4		21.0	58	20.0	65	20.0	65	17.1	70	17.6	69	13.5	73	14.3	73	11.5	75	12.0	75	10.2	77	10.0	79	9.0
10.0			40	17.8	55	17.3	55	18.5	62	17.6	62	15.6	68	16.6	67	12.5	71	14.0	71	11.0	74	11.8	74	9.5	76	9.6	78	8.7
11.0			33	14.6	50	14.2	50	16.6	59	14.9	59	14.3	65	15.1	65	11.5	69	13.6	69	10.4	72	11.5	72	9.0	75	9.1	77	8.3
12.0			23	12.3	46	11.9	46	14.2	56	12.6	56	13.2	63	13.0	63	10.7	67	12.7	67	9.6	70	11.3	70	8.6	73	8.6	75	7.9
14.0					36	8.7	36	10.8	49	9.3	49	10.9	57	9.7	57	9.3	62	10.0	62	8.4	67	10.0	66	7.8	70	8.0	73	7.6
16.0					21	6.1	20	7.8	42	7.1	42	8.7	52	7.5	52	8.2	58	7.8	58	7.4	64	8.0	63	6.7	67	7.4	70	7.4
18.0									32	5.5	32	7.0	46	5.9	46	7.1	54	6.1	54	6.5	59	6.3	59	5.9	64	6.6	67	6.5
20.0									19	4.3	20	5.7	39	4.7	39	5.9	49	4.9	49	5.8	55	5.1	55	5.2	60	5.6	65	5.3
22.0													31	3.8	31	4.9	43	4.0	43	5.0	50	4.2	50	4.6	56	4.7	61	4.4
24.0													18	3.0	20	4.2	36	3.2	36	4.2	45	3.4	46	4.2	52	3.9	58	3.6
26.0																	29	2.6	29	3.6	40	2.8	41	3.6	48	3.3	54	3.0
28.0																	18	2.1			34	2.3	34	3.1	44	2.7	50	2.5
30.0																					27	1.8	27	2.7	38	2.3	46	2.0
32.0																					16	1.5	16	2.4	33	1.9	42	1.7
34.0																									25	1.6	37	1.3
36.0																									13	1.4	32	1.1
38.0																											24	0.8
D														C														
									Т	elesco	ping	condi	tions	(%)														
Telescoping mode	I	п		I		I		П		I		П		I		П		I	1	Π		I		п	:	п	Ι,	п
2nd boom		0		50	1	00		0	1	00		0	1	00		0		00		0	1	00		0		50	10	00
3rd boom		0		0		0		33		16		50		33		66		50		33	6	6		00	1	00	10	00
4th boom		0		0		0	-:	33	1	16		50	3	33	- 6	36	- 5	50	8	33	6	66	1	00	1	00	10	00

					LI	FTING	CAP	ACITI	ES AT	ZER	O DEC	GREE	воо	M AN	GLE C	ON OL	JTRIG	GERS	5 FULI	LY EX	TENE	DED						
									7.	3 m S	PREA	AD.	360°	ROTA	TION	(Unit:	1,000	kg)										
A														27	.0 m			31.0	0 m			35.	0 m		39.	0 m	43.	0 m
c	В		В		В В				В		В		В		В		В		В		В		В		В		В	
0	8.8	11.9	12.8	7.7	16.8	5.0	16.8	6.3	20.9	3.5	20.9	4.6	24.9	2.7	24.8	3.8	28.7	2.0	28.6	3.0	32.5	1.4	32.4	2.2	36.3	1.4	39.9	0.6
Telescoping mode	coping I II I I							П		I		П		I		П		[	I	I		I		п		П	I	, П

									0	N OUT						6.7 m	SPR	EAD										
Α		.0 m	4.5	.0 m		10	0 m	1		00	0 m	VERS	SIDE	(Unit:	1,000 0 m	kg)		31.	0			35.0				0 m	40	.0 m
В	c''	.0 m	C	.u m 	С	19.	C C		С	23. 	C m	1	С	27.	C m	1	С	31.	C		С	35.0	C	ı	<b>C</b>	U M	C 43.	l m
2.4	72	68.0	77	40.8									_				Ť				_						Ť	
3.0	68	59.7	75	40.8	79	32.0	78	20.0																				
3.5	65	53.5	73	40.8	78	32.0	77	20.0	79	20.0	79	20.0																
4.0	62	48.3	71	40.8	76	32.0	75	20.0	78	20.0	78	20.0																
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5.5	52	36.9	64	35.9	71	31.7	71	20.0	75	20.0	75	20.0	77	19.5	77	16.9												
6.0	49	33.6	62	33.3	69	31.6	69	20.0	73	20.0	73	20.0	76	19.3	76	16.8	78	16.6	78	14.4								
6.5	44	30.8	60	30.4	68	29.4	67	20.0	72	20.0	72	19.9	75	18.8	75	16.3	77	16.1	77	13.9								
7.0	39	28.0	58	27.5	66	26.8	65	20.0	71	20.0	71	19.8	74	18.3	74	15.6	77	15.5	77	13.4								
7.5	34	25.3	56	24.6	64	24.1	63	20.0	69	20.0	69	19.7	73	17.8	73	14.9	76	14.8	76	12.9	78	12.9	78	11.2	79	10.0		
8.0	29	19.4	53	22.0	63	21.6	62	19.6	68	19.2	68	18.9	72	17.6	72	14.4	75	14.5	75	12.4	77	12.7	77	10.9	79	10.0		
9.0			48	17.1	59	16.7	58	18.7	65	17.1	65	17.1	70	17.3	69	13.5	73	14.0	73	11.5	75	12.0	75	10.2	77	10.0	79	9.0
10.0			41	14.0	55	13.6	55	16.0	62	14.3	62	15.4	68	14.8	67	12.5	71	13.5	71	11.0	74	11.5	74	9.5	76	9.6	78	8.7
11.0			33	11.4	50	11.0	50	13.3	59	11.8	59	13.6	65	12.2	65	11.5	69	12.5	69	10.4	72	11.0	72	9.0	75	9.1	77	8.3
12.0			24	9.5	46	9.2	46	11.4	56	9.9	56	11.6	63	10.3	63	10.7	67	10.6	67	9.6	70	10.5	70	8.6	73	8.6	75	7.9
14.0					36	6.5	35	8.6	49	7.2	49	8.8	57	7.6	57	9.0	62	7.8	62	8.4	66	8.0	66	7.8	70	7.8	73	7.4
16.0					20	4.7	19	6.7	42	5.4	42	6.9	52	5.7	52	7.1	58	6.0	58	7.2	63	6.2	63	6.7	67	6.8	70	6.4
18.0									32	4.0	32	5.5	46	4.4	46	5.7	54	4.6	54	5.8	59	4.8	59	5.8	63	5.4	67	5.1
20.0									19	3.0	20	4.5	38	3.4	38	4.6	49	3.6	49	4.7	55	3.8	55	4.8	60	4.4	64	4.0
22.0													31	2.6	31	3.8	43	2.8	43	3.9	50	3.0	50	4.0	56	3.6	61	3.2
24.0													18	1.9	18	3.2	36	2.2	36	3.2	45	2.4	45	3.3	52	2.9	57	2.6
26.0																	29	1.6	29	2.7	40	1.8	40	2.7	48	2.4	53	2.0
28.0																	17	1.2			34	1.4	34	2.3	43	1.9	49	1.6
30.0																					26	1.0	26	1.9	37	1.5	45	1.2
32.0																					15	0.7	15	1.6	32	1.2	41	0.9
34.0																									25	0.9		-
36.0	_													0											13	0.7	,	33
ע											т	elesco		condi	tione	(%)											<u>`</u>	10
Telescoping					І П								<del>.          </del>			` ′		-		-						-		
mode	_	П		I		_				I		П		I		П		I	_	I		I		П		<u> </u>		, II
2nd boom		0		0 0		00		0		00 16		0 50		00 33		0 36		00 50		0		00 6		00		00		00
3rd boom		-		-		-				16		50		33		36 36		50	_	33		66		00		00		00
4th boom	_	0 0 0 33					_		16		50		33		36	_	50		33		66		00		00	_	00	
Top boom		U		U		U		J		IU		JU	_ `	U		JU		JU		JU		,U		UU		UU	_ '	JU

					L	IFTIN	G CA	PACIT		T ZEF 6.7 m				OM AN ER SII				GGER g)	S MI	) EXT	ENDE	D					
_ A																											
c	ВВ						В		В		В	]	В		В		В		В		В		В		В		
0	8.8	11.9	12.8	7.5	16.9	4.0	16.9	6.0	20.8	2.6	20.9	4.1	24.9	1.7	24.8	2.9	28.7	1.1	28.7	2.1	32.5	0.6	32.5	1.4	36.3	0.7	
0 8.8   11.9   12.8   7.5   16.9   4.0   16.9   6.0   20.8   2.6   20.9   4.1   24.9   1.7   24.8   2.9   28.7   1.1   28.7   2.1   32.5   0.6   32.5   1.4   36.3   0.7    Telescoping mode   I, II																											

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

									Ol	TUO I		GERS OVER S				5.5 m kg)	SPR	EAD										
A	11.	.0 m	15.	0 m		19.0	0 m			23.	0 m			27.	0 m			31.0	) m			35.0	) m		39.0	0 m	43.0	) m
В	С		С		С		С	ŀ	С		С		С		С		С		С		С		С	ı	С		С	
2.4	72	68.0	77	40.8																								
3.0	68	56.0	75	40.8	79	32.0	78	20.0																				
3.5	65	49.6	73	40.8	78	32.0	77	20.0	79	20.0	79	20.0																
4.0	62	44.6	71	40.2	76	32.0	75	20.0	78	20.0	78	20.0																
4.5	58	40.1	68	39.4	73	32.0	73	20.0	77	20.0	77	20.0	79	20.0	79	17.0												
5.0	55	36.1	66	35.9	72	30.5	72	20.0	76	20.0	76	20.0	78	19.8	78	16.9												
5.5	52	32.3	64	31.9	71	28.9	71	20.0	75	20.0	75	20.0	77	19.5	77	16.9												
6.0	49	28.4	62	28.0	69	27.2	69	20.0	73	20.0	73	20.0	76	19.3	76	16.8	78	16.6	78	14.4								
6.5	44	25.0	60	24.6	68	24.2	67	19.9	72	19.4	72	19.9	75	18.8	75	16.3	77	16.1	77	13.9								
7.0	39	21.7	57	21.3	66	21.0	65	19.7	71	18.7	71	19.8	74	18.3	74	15.6	77	15.5	77	13.4								
7.5	34	18.3	55	18.0	64	17.7	63	19.5	69	17.9	69	19.7	73	17.8	73	14.9	76	14.8	76	12.9	78	12.9	78	11.2	79	10.0		
8.0	29	15.7	52	15.8	63	15.6	62	18.1	68	16.4	68	18.3	72	16.5	72	14.4	75	14.3	75	12.4	77	12.7	77	10.9	79	10.0		
9.0			47	12.4	59	12.1	58	14.5	65	13.0	65	14.8	69	13.4	69	13.5	73	13.4	73	11.5	75	12.0	75	10.2	77	10.0	79	9.0
10.0			40	10.1	55	9.8	55	12.0	62	10.6	62	12.4	67	11.1	67	12.1	71	11.4	71	11.0	74	10.9	74	9.5	76	9.6	78	8.7
11.0			32	8.2	50	7.9	50	10.1	59	8.7	59	10.4	65	9.1	65	10.6	69	9.4	69	10.3	72	9.6	72	9.0	75	9.1	77	8.3
12.0			23	6.7	46	6.5	46	8.5	56	7.2	56	8.8	63	7.7	63	9.1	67	8.0	67	9.1	70	8.2	70	8.6	73	8.6	75	7.9
14.0					36	4.4	36	6.4	49	5.1	49	6.7	57	5.5	57	6.8	62	5.8	62	7.0	66	6.0	66	7.1	70	6.7	73	6.2
16.0					21	3.0	20	4.9	42	3.6	42	5.2	52	4.0	52	5.3	58	4.3	58	5.4	63	4.5	63	5.5	67	5.2	70	4.8
18.0									32	2.5	32	4.0	46	2.9	45	4.2	53	3.2	53	4.3	59	3.4	59	4.4	63	4.0	66	3.7
20.0									20	1.7	20	3.2	38	2.1	38	3.3	48	2.4	48	3.4	55	2.6	55	3.5	60	3.2	63	2.8
22.0													31	1.5	30	2.7	42	1.7	42	2.8	50	1.9	50	2.8	56	2.5	60	2.2
24.0													18	0.9	18	2.1	35	1.2	35	2.2	45	1.4	45	2.3	51	1.9	57	1.6
26.0																	28	0.7	29	1.8	40	0.9	40	1.8	47	1.5	53	1.2
28.0																							34	1.5	43	1.1	49	0.8
30.0																							26	1.2	37	0.8		
32.0																							15	0.9				
D								0									2	21		0	2	4		0	3	32	4	15
											Т	elesco	ping	condi	tions	(%)												
	I,	. II		I				II				II				IÌ /		I		II		l		II		II	I,	II
2nd boom		0 50 100 0				0	1	00		0	10	00		0	1	00		0	10	00		0	5	0	1/	00		
3rd boom		0	(	0		0	3	3	-	6	5	50	3	3	6	6	5	50	8	33	6	6	1	00	1	00	1	00
4th boom		0 0 0 33						6		50		3		6	5	50		33	6			00	1	00	1/	00		
Top boom		0	-	0		0	3	3		6	5	50	3	3	6	66	5	50	8	33	6	6	1	00	1	00	1/	00

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED																								
	5.5 m SPREAD OVER SIDE (Unit: 1,000 kg)																								
A	11	.0 m	15.	.0 m		19.	0 m			23.	.0 m			27.	0 m		31.0	) m		35.0	) m		39.0	m	43.0 m
c \	В	]	В		В		В		В		В		В		В			В			В	]			
0	8.8	11.7	12.8	5.7	16.9	2.5	16.9	4.4	20.9	1.4	20.9	2.9	24.9	0.8	24.8	2.0		28.7	1.3		32.5	0.7			
Telescoping		, П		т		т		п		т		п		т		п			п			п			

									Ω	N OUT	RIGO	SERS	MIN F	XTFN	IDFD	2.7 m	SPR	FAD										
									0	1001		VER S					0											
A	11.0	m	15.0	m		19.0	m			23.0	m			27.0	m			1 0.18	n			35.0 ı	m		39.0	m	43.0	m
В	С		С		С		С		С		С		С		С		С		С		С		С		С		С	l
2.4	72	58.3	77	40.8																								
3.0	68	37.7	74	35.5	79	32.0	78	20.0																				
3.5	65	28.0	73	27.3	77	26.2	77	20.0	79	20.0	79	20.0																
4.0	62	22.1	71	21.5	75	21.1	75	19.4	78	18.8	78	19.5																
4.5	58	17.5	68	17.0	73	16.6	73	18.6	77	17.0	77	18.8	78	17.2	79	17.0												
5.0	55	14.9	66	14.4	72	14.1	72	16.5	76	14.8	76	16.7	78	15.3	78	15.5												
5.5	51	12.6	64	12.2	71	11.9	70	14.2	75	12.6	75	14.4	77	13.0	77	13.9												
6.0	48	10.3	61	10.0	69	9.7	68	11.9	73	10.4	73	12.1	76	10.8	76	12.2	77	10.6	78	11.9								
6.5	43	8.9	59	8.6	67	8.4	67	10.5	72	9.0	72	10.7	75	9.4	75	10.9	77	9.7	77	11.0								
7.0	38	7.8	57	7.5	65	7.2	65	9.3	71	7.9	71	9.5	74	8.3	74	9.7	77	8.5	76	9.8								
7.5	33	6.6	55	6.3	63	6.1	63	8.1	69	6.7	69	8.3	72	7.1	72	8.5	76	7.4	75	8.6	77	7.3	77	8.4	79	7.9		
8.0	29	5.7	52	5.5	62	5.3	62	7.3	68	5.9	68	7.5	71	6.3	71	7.7	75	6.6	74	7.7	77	6.8	77	7.8	79	7.4		
9.0			47	4.1	58	3.9	58	5.8	64	4.5	64	6.1	69	4.9	69	6.2	72	5.2	72	6.3	75	5.3	75	6.4	77	5.9	78	5.4
10.0			40	3.1	54	2.9	54	4.7	61	3.5	61	5.0	67	3.9	67	5.2	70	4.1	70	5.2	73	4.3	73	5.3	75	4.9	77	4.6
11.0			32	2.2	50	2.0	50	3.8	58	2.6	58	4.1	64	3.0	64	4.3	68	3.3	68	4.4	71	3.5	71	4.4	73	4.0	76	3.7
12.0			23	1.5	46	1.3	46	3.1	56	2.0	56	3.4	62	2.3	62	3.6	66	2.6	66	3.7	69	2.8	69	3.7	71	3.3	74	3.0
14.0							35	2.1	48	0.9	49	2.3	57	1.3	56	2.5	62	1.6	61	2.6	65	1.7	65	2.7	69	2.3	71	2.0
16.0							20	1.3			41	1.5			51	1.7			57	1.8	62	1.0	62	1.9	66	1.5	68	1.2
18.0											32	0.9			45	1.1			53	1.2			58	1.3	62	0.9		<u> </u>
20.0															38	0.6			47	0.7			54	0.8				
D		(	)		3	38		0	4	15	2	21	5	52	3	3	5	8	4	4	5	8	5	1	5	9	(	35
											T	elesco	ping	condi	tions	(%)												
Telescoping mode		Ш		I		I		II		I		II		I		11		ı		1		ı		II	- 1	II	1	, II
2nd boom		0	5	50	1	00		0	1	00		0	1	00		0	1	00		)	10	00		0	5	0	1	00
3rd boom		0		0		0	3	33	1	16	5	50	3	33	6	66	5	50	8	3	6	6	1	00	10	00	1	00
4th boom		0		0		0	3	33	1	16	5	50	3	33	6	66	5	50	8	3	6	6	1	00	10	00	1	00
Top boom		n		0		n	- 5	3.3	-	16	-	50		33	6	36	-	50	8	3	6	6	1	00	10	າດ	1	OΩ

A: Boom	length	(m)
---------	--------	-----

B: Load radius (m)

0

11.0 m

Ι, Π

4.4

В

19.0 m

16.8 1.1

П

В

15.0 m

12.8 0.9

Ι

В

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 2.7 m SPREAD OVER SIDE (Unit: 1,000 kg)

C: Loaded boom angle (°)

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

				ON (	OUTRIGO	SERS FUL 360°
		4	3.0 m Boom	+ 10.1 m Ji	ib	
С	3.5°	Tilt	25°	' Tilt	45°	Tilt
	R	w	R	w	R	w
80	10.7	4.2	14.8	4.0	16.9	3.4
79	11.8	4.2	15.8	3.9	17.8	3.3
78	12.8	4.2	16.7	3.7	18.6	3.2
77	13.8	4.2	17.7	3.6	19.6	3.1
76	14.9	4.2	18.6	3.5	20.4	3.1
75	16.0	4.2	19.5	3.4	21.3	3.0
73	18.0	4.1	21.3	3.3	22.9	2.9
70	20.7	3.7	23.9	3.0	25.4	2.7
68	22.5	3.5	25.6	2.9	26.7	2.6
65	25.5	3.3	28.0	2.7	29.0	2.4
63	26.6	3.0	29.5	2.6	30.4	2.4
60	28.8	2.6	31.6	2.3	32.4	2.2
58	30.3	2.3	32.9	2.1	33.7	2.0
55	32.4	1.9	34.8	1.7	35.4	1.6
53	33.7	1.6	36.0	1.5	36.5	1.4
50	35.6	1.3	37.8	1.2	38.1	1.2
48	36.8	1.1	38.9	1.1	39.1	1.0
45	38.6	0.9	40.4	0.8	40.6	0.8
43	39.7	0.8	41.4	0.7		
40	41.3	0.6	42.9	0.6	1	
38	42.4	0.5	43.8	0.5	l	

	ATION			2 0 m Poom	+ 17.7 m Jik		
		0.50					
	C	3.5°	1111		Tilt	45°	
		R	w	R	w	R	W
	80	13.1	2.6	20.0	2.4	23.4	1.8
1	79	14.4	2.6	21.1	2.3	24.4	1.7
	78	15.6	2.6	22.1	2.2	25.4	1.7
	77	16.8	2.6	23.1	2.1	26.2	1.7
1	76	17.9	2.6	24.1	2.1	27.2	1.6
	75	19.1	2.6	25.1	2.0	28.1	1.6
1	73	21.4	2.6	27.1	1.9	29.8	1.5
1	70	24.8	2.5	30.1	1.7	32.3	1.4
1	68	26.8	2.4	32.0	1.6	33.9	1.4
	65	29.6	2.1	34.5	1.5	36.2	1.3
	63	31.4	2.0	36.2	1.4	37.7	1.3
	60	34.1	1.8	38.7	1.3	39.9	1.2
	58	35.6	1.6	40.2	1.3	41.2	1.2
	55	37.9	1.3	42.2	1.0	43.0	0.9
	53	39.4	1.1	43.5	0.9	44.1	0.8
]	50	41.5	0.8	45.3	0.7	45.7	0.6
1	48	42.9	0.7	46.5	0.5	46.7	0.5
1	45	44.9	0.5			· ·	

					OUTRIGO	36
					+ 10.1 m Jib	
С	3.5°	Tilt	25°	<sup>o</sup> Tilt	45°	' Tilt
	R	W	R	w	R	w
80	9.4	4.6	13.4	4.3	15.7	3.5
79	10.4	4.6	14.3	4.2	16.5	3.4
78	11.4	4.6	15.1	4.0	17.3	3.3
77	12.3	4.6	16.0	3.9	18.1	3.3
76	13.2	4.6	16.8	3.8	18.8	3.2
75	14.2	4.6	17.7	3.7	19.5	3.1
73	16.0	4.5	19.3	3.5	21.0	3.0
70	18.5	4.1	21.6	3.2	23.3	2.8
68	20.1	3.9	23.2	3.1	24.6	2.7
65	22.5	3.6	25.4	2.8	26.6	2.5
63	24.0	3.4	26.8	2.7	27.9	2.4
60	26.3	3.0	28.8	2.5	29.8	2.3
58	27.6	2.8	30.2	2.4	31.0	2.2
55	29.6	2.5	32.1	2.2	32.8	2.1
53	30.9	2.3	33.2	2.1	33.8	2.0
50	32.8	2.1	35.0	1.9	35.4	1.9
48	34.0	1.9	36.0	1.8	36.3	1.7
45	35.6	1.7	37.5	1.5	37.6	1.5
43	36.7	1.5	38.4	1.4		
40	38.1	1.3	39.7	1.2	l	
38	39.1	1.2	40.5	1.1	l	
35	40.4	1.0	41.6	1.0		
33	41.3	0.9	42.3	0.9		
30	42.4	0.8	43.3	0.8		
25	44.0	0.7	44.6	0.6		
20	15.2	0.6		•	-	

		3	9.0 m Boor	n (telescopii	ng mode II) +	⊦ 17.7 m Jib	
	С	3.5°	Tilt	25°	Tilt	45°	Tilt
		R	w	R	w	R	W
5	80	11.8	2.8	18.5	2.5	22.1	1.8
4	79	13.0	2.8	19.5	2.4	22.9	1.8
3	78	14.0	2.8	20.5	2.3	23.8	1.8
3	77	15.2	2.8	21.4	2.2	24.6	1.7
2	76	16.3	2.8	22.4	2.2	25.4	1.7
1	75	17.3	2.8	23.2	2.1	26.2	1.6
0	73	19.6	2.8	25.1	2.0	27.8	1.6
В	70	22.6	2.7	27.8	1.8	30.1	1.5
7	68	24.4	2.5	29.4	1.7	31.6	1.4
5	65	27.0	2.2	31.9	1.6	33.7	1.3
4	63	28.7	2.1	33.4	1.5	35.3	1.3
3	60	31.3	1.9	35.7	1.4	37.4	1.2
2	58	32.8	1.8	37.3	1.3	38.8	1.2
2	55	35.2	1.6	39.4	1.3	40.7	1.1
0	53	36.7	1.5	40.8	1.2	41.9	1.1
9	50	38.8	1.4	42.8	1.1	43.6	1.1
7	48	40.1	1.3	44.0	1.1	44.6	1.0
5	45	41.9	1.1	45.5	0.9	45.7	0.9
	43	43.1	0.9	46.5	0.8		
	40	44.8	0.8	47.8	0.7		
	38	45.8	0.7	48.6	0.6		
	35	47.3	0.6	49.6	0.5		
	33	48.2	0.5	50.3	0.4		

				OIV	JUTHIGG	ERS FUL
						360°
	;	35.0 m Booi	n (telescopi	ng mode I) +	+ 10.1 m Jib	
С	3.5	<sup>o</sup> Tilt	25	° Tilt	45	° Tilt
	R	w	R	W	R	w
80	8.6	5.6	12.3	5.1	14.5	4.0
79	9.4	5.6	13.0	4.7	15.1	3.8
78	10.3	5.6	13.9	4.7	15.9	3.8
77	11.2	5.6	14.7	4.7	16.7	3.7
76	12.1	5.6	15.4	4.6	17.3	3.6
75	12.9	5.6	16.2	4.5	18.0	3.6
73	14.5	5.6	17.7	4.2	19.4	3.4
70	16.8	5.2	19.8	3.9	21.4	3.3
68	18.3	4.9	21.2	3.7	22.6	3.1
65	20.5	4.6	23.2	3.5	24.5	3.0
63	21.9	4.4	24.5	3.3	25.7	2.9
60	23.9	4.1	26.4	3.1	27.4	2.8
58	25.1	3.8	27.6	3.0	28.5	2.7
55	26.9	3.2	29.2	2.8	30.1	2.6
53	28.1	2.8	30.3	2.5	31.0	2.4
50	29.7	2.4	31.9	2.2	32.4	2.1
48	30.8	2.2	32.8	2.0	33.2	1.9
45	32.3	1.9	34.2	1.7	34.5	1.6
43	33.3	1.7	35.0	1.5		
40	34.7	1.5	36.3	1.3		
38	35.6	1.3	37.0	1.2		
35	36.9	1.1	38.1	1.1		
33	37.6	1.0	38.7	1.0		
30	38.7	0.9	39.6	0.8		
25	40.3	0.7	40.8	0.7		
20	41.5	0.6				
15	42.4	0.5				

O ROTA	ENDED 7. TION	.5 III 5FNE					
		3	5.0 m Boor	n (telescopi	ng mode I) +	- 17.7 m Jib	
	С	3.5°	Tilt	259	° Tilt	45°	Tilt
1		R	w	R	w	R	W
1	80	10.7	3.2	17.3	2.8	21.0	2.1
1	79	11.7	3.2	18.1	2.6	21.7	1.9
1	78	12.7	3.2	19.1	2.6	22.5	1.9
1	77	13.7	3.2	20.0	2.6	23.4	1.9
1	76	14.7	3.2	20.9	2.5	24.1	1.9
	75	15.6	3.2	21.7	2.4	24.9	1.9
	73	17.6	3.2	23.4	2.3	26.3	1.8
1	70	20.5	3.2	25.8	2.1	28.4	1.7
	68	22.2	3.1	27.4	2.0	29.8	1.7
	65	24.7	2.8	29.8	1.9	31.7	1.6
	63	26.2	2.6	31.1	1.8	33.0	1.5
	60	28.5	2.4	33.2	1.7	34.8	1.5
	58	30.0	2.2	34.6	1.6	35.9	1.5
1	55	32.3	2.1	36.5	1.6	37.5	1.4
	53	33.6	2.0	37.7	1.5	38.5	1.4
1	50	35.5	1.6	39.4	1.4	39.9	1.3
1	48	36.7	1.5	40.4	1.2	40.7	1.2
1	45	38.5	1.2	41.9	1.0	41.9	1.0
-	43	39.6	1.1	42.8	0.9	•	
	40	41.2	0.9	44.1	0.8		
	38	42.2	0.8	44.8	0.7		
	35	43.5	0.6	45.9	0.6		
	33	44.4	0.6	46.6	0.5		
	30	45.6	0.5	,			

C: boom angle (°) R: Load radius (m)

W: Rated lifting capacity (Unit: ×1,000 kg)

0.6

#### ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD **OVER SIDE** 43.0 m Boom + 10.1 m Jib С 3.5° Tilt 25° Tilt 45° Tilt R 14.8 15.8 4.0 3.9 3.7 16.9 17.8 18.6 10.7 4.2 4.2 4.2 4.2 4.2 4.2 3.4 3.3 3.2 3.1 3.0 2.9 2.7 2.6 2.2 80 78 12.8 16.7 13.8 17.7 3.6 3.5 3.4 3.3 3.0 2.9 19.6 18.6 19.5 21.3 23.9 25.6 27.7 20.4 21.3 22.9 25.4 26.7 28.8 76 75 14.9 16.0 73 70 18.0 20.7 22.5 24.8 4.1 3.7 3.5 2.8 2.4 65 26.2 28.4 29.8 2.3 1.8 1.5 29.1 31.1 32.4 2.0 1.6 1.3 30.1 32.0 33.2 1.9 1.5 1.2 63 60 58 31.9 33.2 35.1 36.4 0.9 0.7 0.5 0.4 34.3 35.6 37.4 1.0 35.0 0.9 36.1 37.7 38.8 0.8

38.5

0.5

48

		43.	.0 m Boom	+ 17.7 m	Jib	
С	3.5°	Tilt	25°	Tilt	45°	Tilt
	R	W	R	W	R	W
80	13.1	2.6	20.0	2.4	23.4	1.8
79	14.4	2.6	21.1	2.3	24.4	1.7
78	15.6	2.6	22.1	2.2	25.4	1.7
77	16.8	2.6	23.1	2.1	26.2	1.7
76	17.9	2.6	24.1	2.1	27.2	1.6
75	19.1	2.6	25.1	2.0	28.1	1.6
73	21.4	2.6	27.1	1.9	29.8	1.5
70	24.8	2.5	30.1	1.7	32.3	1.4
68	26.8	2.4	32.0	1.6	33.9	1.4
65	29.3	1.9	34.3	1.5	36.1	1.3
63	30.9	1.6	35.9	1.2	37.5	1.1
60	33.3	1.1	38.1	0.9	39.4	0.8
58	34.5	0.9	39.4	0.7	40.7	0.6
55	37.2	0.6	41.5	0.4	42.5	0.4
53	38.6	0.4				

				ON	OUTRIG		ID EXTE VER SID		7 m SPRE	EAD
	39.0 r	n Boom (te	elescoping	mode II) +	+ 10.1 m Ji	b			39.0 1	m Bo
С	3.5°	Tilt	25°	Γilt	45°	Γilt		С	3.5°	Tilt
	R	W	R	W	R	W			R	V
80	9.4	4.6	13.4	4.3	15.7	3.5		80	11.8	
79	10.4	4.6	14.3	4.2	16.5	3.4		79	13.0	
78	11.4	4.6	15.1	4.0	17.3	3.3		78	14.0	
77	12.3	4.6	16.0	3.9	18.1	3.3		77	15.2	
76	13.2	4.6	16.8	3.8	18.8	3.2		76	16.3	
75	14.2	4.6	17.7	3.7	19.5	3.1		75	17.3	
73	16.0	4.5	19.3	3.5	21.0	3.0		73	19.6	
70	18.5	4.1	21.6	3.2	23.3	2.8		70	22.6	
68	20.1	3.9	23.2	3.1	24.6	2.7		68	24.4	
65	22.5	3.6	25.4	2.8	26.6	2.5		65	27.0	
63	24.1	3.4	26.8	2.7	27.9	2.4		63	28.7	
60	26.1	2.7	28.8	2.4	29.8	2.2		60	31.3	
58	27.4	2.4	30.0	2.1	30.9	2.0		58	32.7	
55	29.4	1.9	31.8	1.7	32.6	1.6		55	34.8	
53	30.6	1.7	32.9	1.5	33.7	1.4		53	36.3	
50	32.4	1.4	34.6	1.2	35.2	1.2		50	38.3	
48	33.6	1.2	35.6	1.1	36.1	1.0		48	39.6	
45	35.2	1.0	37.1	0.9	37.5	0.8		45	41.5	
43	36.3	0.8	38.1	0.8			•	43	42.7	
40	37.9	0.7	39.5	0.6						
38	38.8	0.5	40.3	0.5						
35	40.2	0.4	41.5	0.4						

OVER SI	DE O	01 112	., .,				
		39.0 r	n Boom (t	elescoping	mode II) -	+ 17.7 m Ji	b
7	С	3.5°	Tilt	25°	Tilt	45°	Tilt
7		R	W	R	W	R	W
	80	11.8	2.8	18.5	2.5	22.1	1.8
7	79	13.0	2.8	19.5	2.4	22.9	1.8
7	78	14.0	2.8	20.5	2.3	23.8	1.8
	77	15.2	2.8	21.4	2.2	24.6	1.7
1	76	16.3	2.8	22.4	2.2	25.4	1.7
7	75	17.3	2.8	23.2	2.1	26.2	1.6
	73	19.6	2.8	25.1	2.0	27.8	1.6
	70	22.6	2.7	27.8	1.8	30.1	1.5
	68	24.4	2.5	29.4	1.7	31.6	1.4
	65	27.0	2.2	31.9	1.6	33.7	1.3
	63	28.7	2.1	33.4	1.5	35.3	1.3
7	60	31.3	1.9	35.7	1.4	37.4	1.2
7	58	32.7	1.6	37.3	1.3	38.8	1.2
	55	34.8	1.3	39.2	1.0	40.5	0.9
1	53	36.3	1.1	40.4	0.9	41.5	0.8
7	50	38.3	0.8	42.2	0.7	43.0	0.6
	48	39.6	0.7	43.3	0.5	43.8	0.5
	45	41.5	0.5	44.9	0.4		
	43	42.7	0.4				

				ON	OUTRIG		ID EXTE VER SID		7 m SPRE	EAD
	35.0	m Boom (te	elescoping	mode I) +	· 10.1 m Jil	)			35 m	n Boo
С	3.5°	Tilt	25°	Tilt	45°	Γilt		С	3.5°	Tilt
	R	W	R	W	R	W			R	V
80	8.6	5.6	12.3	5.1	14.5	4.0		80	10.7	
79	9.4	5.6	13.0	4.7	15.1	3.8		79	11.7	
78	10.3	5.6	13.9	4.7	15.9	3.8		78	12.7	
77	11.2	5.6	14.7	4.7	16.7	3.7		77	13.7	
76	12.1	5.6	15.4	4.6	17.3	3.6		76	14.7	
75	12.9	5.6	16.2	4.5	18.0	3.6		75	15.6	
73	14.5	5.6	17.7	4.2	19.4	3.4		73	17.6	
70	16.8	5.2	19.8	3.9	21.4	3.3		70	20.5	
68	18.3	4.9	21.2	3.7	22.6	3.1		68	22.2	
65	20.4	4.5	23.2	3.5	24.5	3.0		65	24.7	
63	21.7	3.8	24.5	3.2	25.7	2.9		63	26.2	
60	23.6	3.1	26.2	2.7	27.3	2.5		60	28.4	
58	24.8	2.7	27.3	2.3	28.3	2.2		58	29.8	
55	26.6	2.2	29.0	1.9	29.9	1.8		55	31.8	
53	27.7	1.9	30.1	1.7	30.8	1.6		53	33.1	
50	29.4	1.6	31.6	1.4	32.2	1.3		50	35.0	
48	30.5	1.4	32.6	1.2	33.0	1.1		48	36.3	
45	32.1	1.1	34.0	1.0	34.3	0.9		45	38.1	
43	33.1	0.9	34.8	0.8		_	•	43	39.2	
40	34.5	0.7	36.1	0.7						
38	35.4	0.6	36.9	0.5						
35	36.7	0.5	37.9	0.4						

35 m Boom (telescoping mode I) + 17.7 m Jib           R         W         R         W         R         W           80         10.7         3.2         17.3         2.8         21.0         2.1           79         11.7         3.2         18.1         2.6         21.7         1.9           78         12.7         3.2         19.1         2.6         22.5         1.9           77         13.7         3.2         20.0         2.6         23.4         1.9           76         14.7         3.2         20.9         2.5         24.1         1.9           75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0								
R		35 n	n Boom (te	elescoping	mode I) +	17.7 m Jib		
80         10.7         3.2         17.3         2.8         21.0         2.1           79         11.7         3.2         18.1         2.6         21.7         1.9           78         12.7         3.2         19.1         2.6         22.5         1.9           77         13.7         3.2         20.0         2.6         23.4         1.9           76         14.7         3.2         20.9         2.5         24.1         1.9           75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55	С	3.5°	Tilt	25°	Tilt	45° Tilt		
79         11.7         3.2         18.1         2.6         21.7         1.9           78         12.7         3.2         19.1         2.6         22.5         1.9           77         13.7         3.2         20.0         2.6         23.4         1.9           76         14.7         3.2         20.9         2.5         24.1         1.9           75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         36.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55		R	W	R	W	R	W	
78         12.7         3.2         19.1         2.6         22.5         1.9           77         13.7         3.2         20.0         2.6         23.4         1.9           76         14.7         3.2         20.9         2.5         24.1         1.9           75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           50	80	10.7	3.2	17.3	2.8	21.0	2.1	
77         13.7         3.2         20.0         2.6         23.4         1.9           76         14.7         3.2         20.9         2.5         24.1         1.9           75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48	79	11.7	3.2	18.1	2.6	21.7	1.9	
76         14.7         3.2         20.9         2.5         24.1         1.9           75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45	78	12.7	3.2	19.1	2.6	22.5	1.9	
75         15.6         3.2         21.7         2.4         24.9         1.9           73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4		13.7	3.2	20.0	2.6	23.4	1.9	
73         17.6         3.2         23.4         2.3         26.3         1.8           70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	76	14.7	3.2	20.9	2.5	24.1	1.9	
70         20.5         3.2         25.8         2.1         28.4         1.7           68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	75	15.6	3.2	21.7	2.4	24.9	1.9	
68         22.2         3.1         27.4         2.0         29.8         1.7           65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4		17.6	3.2	23.4	2.3	26.3		
65         24.7         2.8         29.8         1.9         31.7         1.6           63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	70	20.5	3.2	25.8	2.1	28.4		
63         26.2         2.6         31.1         1.8         33.0         1.5           60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	68	22.2	3.1	27.4	2.0	29.8	1.7	
60         28.4         2.1         33.2         1.7         34.8         1.5           58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	65	24.7	2.8	29.8	1.9	31.7	1.6	
58         29.8         1.8         34.4         1.5         35.8         1.3           55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	63	26.2	2.6	31.1	1.8	33.0	1.5	
55         31.8         1.4         36.3         1.2         37.4         1.0           53         33.1         1.2         37.4         1.0         38.4         0.9           50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	60	28.4	2.1	33.2	1.7	34.8	1.5	
53     33.1     1.2     37.4     1.0     38.4     0.9       50     35.0     0.9     39.1     0.8     39.7     0.7       48     36.3     0.8     40.1     0.6     40.7     0.6       45     38.1     0.6     41.6     0.4     41.9     0.4	58	29.8	1.8	34.4	1.5	35.8	1.3	
50         35.0         0.9         39.1         0.8         39.7         0.7           48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	55	31.8	1.4	36.3	1.2	37.4	1.0	
48         36.3         0.8         40.1         0.6         40.7         0.6           45         38.1         0.6         41.6         0.4         41.9         0.4	53	33.1	1.2	37.4	1.0	38.4	0.9	
45 38.1 0.6 41.6 0.4 41.9 0.4	50	35.0	0.9	39.1	0.8	39.7	0.7	
	48	36.3	0.8	40.1	0.6	40.7	0.6	
43 39.2 0.4	45	38.1	0.6	41.6	0.4	41.9	0.4	
10 00.2 0.1	43	39.2	0.4		•	•		

C: Loaded boom angle (°)

R: Load radius (m)

W: Rated lifting capacity (Unit:×1,000 kg)

				ON (	OUTRIGO		D EXTE VER SID		5.5 m SPF	READ
		43.	0 m Boom	+ 10.1 m	Jib					
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Γilt
	R	W	R	W	R	W			R	W
80	10.7	4.2	14.8	4.0	16.9	3.4		80	13.1	2.
79	11.8	4.2	15.8	3.9	17.8	3.3		79	14.4	2.
78	12.8	4.2	16.7	3.7	18.6	3.2		78	15.6	2.
77	13.8	4.2	17.7	3.6	19.6	3.1		77	16.8	2.
76	14.9	4.2	18.6	3.5	20.4	3.1		76	17.9	2.
75	16.0	4.2	19.5	3.4	21.3	3.0		75	19.1	2.
73	17.8	3.8	21.2	3.2	22.8	2.8		73	21.3	2.
70	20.2	2.8	23.4	2.4	24.9	2.2		70	24.0	1.
68	21.8	2.3	24.9	2.0	26.3	1.8		68	25.7	1.
65	24.1	1.7	27.7	1.5	28.3	1.4		65	28.2	0.
63	25.6	1.4	28.5	1.2	29.6	1.1		63	29.9	0.
60	27.9	1.0	30.6	0.9	31.6	0.8		60	32.6	0.
58	29.3	0.7	32.0	0.6	32.8	0.6				
55	31.4	0.4								

VER SI	VER SIDE											
			43.	0 m Boom	+ 17.7 m	Jib						
1	С	3.5°	Tilt	25°	Tilt	45°	Tilt					
1		R	W	R	W	R	W					
1	80	13.1	2.6	20.0	2.4	23.4	1.8					
1	79	14.4	2.6	21.1	2.3	24.4	1.7					
1	78	15.6	2.6	22.1	2.2	25.4	1.7					
1	77	16.8	2.6	23.1	2.1	26.2	1.7					
1	76	17.9	2.6	24.1	2.1	27.2	1.6					
	75	19.1	2.6	25.1	2.0	28.1	1.6					
1	73	21.3	2.5	27.1	1.9	29.8	1.5					
1	70	24.0	1.8	29.5	1.4	32.1	1.2					
1	68	25.7	1.4	31.1	1.1	33.4	1.0					
1	65	28.2	0.9	33.4	0.7	35.5	0.7					
1	63	29.9	0.7	35.0	0.5	37.0	0.5					
1	60	32.6	0.5									
1												

				ON (	OUTRIGO		D EXTE VER SII		5.5 m SPF	READ
	39.0	0 m Boom	(telescopii	ng mode II	) + 10.1 m	Jib			39.0	) m Boo
С	3.5°	Tilt	25°	Tilt	45°	Tilt		С	3.5°	Tilt
	R	W	R	W	R	W			R	W
80	9.4	4.6	13.4	4.3	15.7	3.5		80	11.8	2.
79	10.4	4.6	14.3	4.2	16.5	3.4		79	13.0	2.
78	11.4	4.6	15.1	4.0	17.3	3.3		78	14.0	2.
77	12.3	4.6	16.0	3.9	18.1	3.3		77	15.2	2.
76	13.2	4.6	16.8	3.8	18.8	3.2		76	16.3	2.
75	14.2	4.6	17.7	3.7	19.5	3.1		75	17.3	2.
73	16.0	4.5	19.3	3.5	21.0	3.0		73	19.6	2.
70	18.5	4.1	21.6	3.2	23.3	2.8		70	22.6	2.
68	20.0	3.5	23.1	2.9	24.6	2.6		68	24.2	2.
65	22.1	2.7	25.1	2.3	26.4	2.1		65	26.7	1.
63	23.5	2.3	26.4	2.0	27.6	1.8		63	28.2	1.
60	25.6	1.8	28.3	1.6	29.4	1.4		60	30.5	1.
58	26.9	1.5	29.5	1.3	30.6	1.2		58	32.0	0.
55	28.9	1.2	31.3	1.0	32.3	0.9		55	34.2	0.
53	30.1	1.0	32.5	0.8	33.3	0.8		53	35.7	0.
50	32.0	0.7	34.2	0.6	34.8	0.6			•	
48	33.2	0.5	35.3	0.5	35.8	0.4				

	39.	0 m Boom	(telescopii	ng mode II	) + 17.7 m	Jib				
С	3.5°	Tilt	25°	Tilt	45°	Tilt				
	R	W	R	W	R	W				
80	11.8	2.8	18.5	2.5	22.1	1.8				
79	13.0	2.8	19.5	2.4	22.9	1.8				
78	14.0	2.8	20.5	2.3	23.8	1.8				
77	15.2	2.8	21.4	2.2	24.6	1.7				
76	16.3	2.8	22.4	2.2	25.4	1.7				
75	17.3	2.8	23.2	2.1	26.2	1.6				
73	19.6	2.8	25.1	2.0	27.8	1.6				
70	22.6	2.7	27.8	1.8	30.1	1.5				
68	24.2	2.3	29.4	1.7	31.6	1.4				
65	26.7	1.8	31.7	1.4	33.6	1.2				
63	28.2	1.5	33.1	1.2	35.0	1.0				
60	30.5	1.1	35.1	0.9	36.9	0.8				
58	32.0	0.9	36.5	0.7	38.1	0.6				
55	34.2	0.6	38.5	0.5						
53	35.7	0.5								

				ON (	OUTRIGO		D EXTE VER SII		5.5 m SPF	READ
	35.	0 m Boom	(telescopi	ng mode I	) + 10.1 m	Jib			35.0	m Boo
С	3.5°	Tilt	25°	Tilt	45° Tilt			С	3.5°	Tilt
	R	W	R	W	R	W			R	W
80	8.6	5.6	12.3	5.1	14.5	4.0		80	10.7	3.
79	9.4	5.6	13.0	4.7	15.1	3.8		79	11.7	3.
78	10.3	5.6	13.9	4.7	15.9	3.8		78	12.7	3.
77	11.2	5.6	14.7	4.7	16.7	3.7		77	13.7	3.
76	12.1	5.6	15.4	4.6	17.3	3.6		76	14.7	3.
75	12.9	5.6	16.2	4.5	18.0	3.6		75	15.6	3.
73	14.5	5.6	17.7	4.2	19.4	3.4		73	17.6	3.
70	16.9	4.9	19.8	3.9	21.4	3.3		70	20.5	3.
68	18.1	4.1	21.1	3.3	22.6	2.9		68	22.0	2.
65	20.1	3.2	22.9	2.6	24.2	2.4		65	24.2	2.
63	21.3	2.7	24.1	2.2	25.4	2.0		63	25.7	1.
60	23.3	2.1	25.9	1.8	27.0	1.6		60	27.8	1.
58	24.5	1.7	27.0	1.5	28.1	1.4		58	29.3	1.
55	26.3	1.3	28.7	1.1	29.6	1.1		55	31.4	0.
53	27.4	1.1	29.8	0.9	30.6	0.9		53	32.7	0.
50	29.1	0.8	31.3	0.7	32.0	0.6				
48	30.2	0.6	32.3	0.5	32.9	0.5				

VER SIDE										
		35.0	) m Boom	(telescopi	ng mode I)	+ 17.7 m	Jib			
	С	3.5° 7	Γilt	25°	Tilt	45°	Γilt			
		R	W	R	W	R	W			
1	80	10.7	3.2	17.3	2.8	21.0	2.1			
	79	11.7	3.2	18.1	2.6	21.7	1.9			
	78	12.7	3.2	19.1	2.6	22.5	1.9			
	77	13.7	3.2	20.0	2.6	23.4	1.9			
1	76	14.7	3.2	20.9	2.5	24.1	1.9			
	75	15.6	3.2	21.7	2.4	24.9	1.9			
	73	17.6	3.2	23.4	2.3	26.3	1.8			
1	70	20.5	3.2	25.8	2.1	28.4	1.7			
1	68	22.0	2.7	27.4	2.0	29.8	1.7			
	65	24.2	2.1	29.4	1.6	31.5	1.4			
	63	25.7	1.8	30.7	1.3	32.7	1.2			
7	60	27.8	1.3	32.7	1.0	34.5	0.9			
	58	29.3	1.0	34.0	0.8	35.6	0.7			
	55	31.4	0.7	35.8	0.6	37.2	0.5			
	53	32.7	0.5							

C: Loaded boom angle (°)

R: Load radius (m)
W: Rated lifting capacity (Unit:×1,000 kg)

					ON-F	RUBBER	STATIONA	ARY					
-	١		Over I	ront						360° Ro	otation		
	11.	0 m	19.0	) m	27.0	) m		11.0 m		19.0 m		27.0 m	
В	С	]	С	•	С			С		С		С	
3.5	65	27.8						65	14.6				
4.0	62	25.5						62	11.6				
4.5	59	23.0						58	9.4				
5.0	56	20.6	72	15.9				55	8.1	72	9.0		
5.5	52	18.3	71	15.9				51	6.9	70	7.8		
6.0	49	15.9	69	15.9				48	5.7	68	6.6		
6.5	44	14.1	67	14.7				43	4.9	67	5.8		
7.0	39	12.5	65	13.2				39	4.2	65	5.1		
7.5	33	10.8	63	11.7				34	3.6	63	4.5		
8.0			62	10.5	72	9.6				62	4.0	71	4.2
9.0			58	8.5	69	8.7				58	3.1	69	3.3
10.0			54	7.1	67	7.6				54	2.4	67	2.7
11.0			50	6.1	64	6.5				50	1.9	64	2.1
12.0			46	5.2	62	5.6				47	1.4	62	1.7
14.0			36	3.5	57	4.1							
16.0			20	2.4	52	3.1							
18.0					45	2.4							
20.0					38	1.8							
D			C					0		37	7	54	4
					Tele	scoping c	onditions (	(%)					
Telescopin mod		II	II		II			1, 1		II		II	
2nd boom	(	)	C		0	•		0		0		0	
3rd boom	(	)	3		66	_		0		33		66	_
4th boom	(	)	3	3	66			0		33		66	6
Top boom	(	)	3	3	66	6		0		33	3	66	6

	LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON-RUBBER STATIONARY										
A	A Over Front 360° Rotation										
	11.	11.0 m 19.0 m 27.0 m				11.0 m					
c	В		В		В			В			
0	8.8	7.9	16.9	2.0	24.8	0.4		8.8	2.3		

ON-RUBBER CREEP											
Α			Over	Front							
	11.0	0 m	19.	0 m	27.	0 m					
В	С		С		С						
3.5	65	20.8									
4.0	62	18.6									
4.5	58	16.6									
5.0	55	15.2	72	15.0							
5.5	52	13.8	70	13.9							
6.0	49	12.5	68	12.9							
6.5	44	11.5	67	12.0							
7.0	39	10.6	65	11.1							
7.5	33	9.7	63	10.2							
8.0			62	9.4	72	9.5					
9.0			58	7.9	69	8.3					
10.0			55	6.7	67	7.1					
11.0			50	5.6	64	6.1					
12.0			46	4.7	62	5.2					
14.0			35	3.2	56	3.9					
16.0			20	2.2	51	2.8					
18.0					45	2.1					
20.0					38	1.5					
D			(	)							

Telescoping conditions (%)									
Telescoping mode	1, 11	II	II						
2nd boom	0	0	0						
3rd boom	0	33	66						
4th boom	0	33	66						
Top boom	0	33	66						

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE						
ON-RUBBER CREEP						
A	A Over Front					
	11.0 m 19.0 m		27.	0 m		
C	В		В		В	
0	8.8	7.7	16.9	1.8	24.8	0.4

A: Boom length (m)

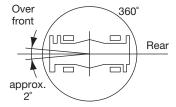
B: Load radius (m)
C: Loaded boom angle (°)
D: Minimum boom angle (°) for indicated boom length (no load)

# WARNING AND OPERATING INSTRUCTIONS FOR ON RUBBER LIFTING CAPACITIES

- Rated lifting capacities on-rubber do not exceed 75% of tipping loads as determined by SAE J765-Crane Stability Test Code.
- Rated lifting capacities shown in the chart are based on the condition that crane is set on firm level surfaces 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.
- If the suspension lock cylinders contain air, the axle will not be locked completely and rated lifting capacities may not be obtainable. Bleed the cylinders according to the operation safety and maintenance manual.
- Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- 5. Tires shall be inflated to correct air pressure.

Tires	Air Pressure
29.5-25 22PR	420 kPa
29.5-25 28PR	450 kPa

Over front operation shall be performed within 2 degrees in front of chassis.



7. On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 27.0 m.

- 8. When making lift on rubber stationary, set parking brake.
- For creep operation, boom must be centered over front of machine, slewing lock engaged, and load restrained from slewing. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 10. Do not operate the crane while carrying the load.
- 11. 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.
- 12. For creep operation, choose the drive mode and proper gear according to the road or working condition.
- 13. The mass of the hook (700 kg for 68 t capacity, 450 kg for 35 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.
- 14. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
- 15. The lifting capacity data stowed in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on rubber operation should be according to the following table.

Boom length	11.0 m	11.0 m to 27.0 m	Single top
Telescoping mode	Ι, Π	П	Ι, Π
Number of parts of line	6	4	1

# WARNING AND OPERATING INSTRUCTIONS FOR LIFTING CAPACITIES

#### **GENERAL**

- RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
- Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the *Operation and Maintenance Manual* supplied with the crane. If this manual is missing, order a replacement through the distributor.
- The operator and other personnel associated with this machine shall fully acquaint themselves with the latest American National Standards Institute (ANSI) safety standards for cranes.

#### SET LIE

- Rated lifting capacities on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger bearing surface.
- 2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

#### **OPERATION**

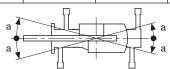
- Rated lifting capacities have been tested to and meet minimum requirements of SAE J1063-Cantilevered Boom Crane Structures Method of Test.
- Rated lifting capacities do not exceed 85% of the tipping load on outriggers fully extended as determined by SAE J765-Crane Stability Test Code.
  - Rated lifting 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 above thick lines in the chart are based on crane strength and those below, on its stability.
- They are based on actual load radius increased by boom deflection.
- 4. The weight of handling device such as hook blocks (540 kg for 60 t capacity, 450 kg for 35 t capacity, 150 kg for 5.6 t capacity), slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
- 5. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous.
  - Such action can damage the boom, jib or slewing mechanism, and lead to overturning of the crane.
- 6. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the conditions that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 9 m/s to 12 m/s; reduced by 70 % when the wind speed is 12 m/s to 14 m/s. If the wind speed is 14 m/s or over, stop operation. During jib lift, stop operation if the wind speed is 9 m/s or over.
- Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
- Do not operate at boom lengths, radii, or boom angles, where no capacities are shown. Crane may overturn without any load on the hook.
- When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
- When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- Load per line should not exceed 54.9 kN (5,600 kgf) for main winch and auxiliary winch.
- 12. Check the actual number of parts of line with LOAD MOMENT INDICATOR (AML-C) before operation. Maximum lifting capacity is restricted by the number of parts of line of LOAD MOMENT INDICATOR (AML-C). Limited capacity is as determined from the formula, Single line pull for main winch 54.9 kN(5,600 kgf) x number of parts of line.
- 13. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
- 14. The 11.0-m Boom length capacities are based on boom fully retracted. If not fully retracted [less than 15.0 m boom length], use the rated lifting capacities for the 15.0-m Boom length.

- 15. Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
- 16. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom. For the lifting capacity of single top, the net capacity shall not exceed 5,600 kg including the main boom hook mass attached to the boom.
- When a jib is removed, set the jib state switch to the REMOVED position.
- 18. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- Use "ANTI-TWO-BLOCK DEVICE" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
- 20. For boom length 43.0 m or less and 35.0 m or longer with jib, rated lifting capacities are determined by loaded boom angle only in the column handed "43.0-m Boom + jib".
  - For boom length 35.0 m or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "35.0-m Boom + jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity. (Telescoping MODE I) For boom length 43.0 m or less and 39.0 m or longer with jib, rated lifting capacities are determined by loaded boom angle only in the column handed "43.0-m Boom + jib".
  - For boom length 39.0 m or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "39.0-m Boom + jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity.(Telescoping MODE II)
- 21. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
  - Enter the operation status as jib operation, not as boom operation.
  - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.
- 22. Before telescoping the boom, set the telescoping mode selector switch to MODE I or MODE II with the boom fully retracted. A change of the telescoping mode is not permissible when the boom has been partially or fully extended.
- 23. The lifting capacity data stowed in the LOAD MOMENT INDICATOR (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on outrigger operation should be according to the following table.

Boom length	11.0 m	11.0 m to 15.0 m		15,0 m to 19.0 m	19.0 m to 43.0 m	Single top/ jib
Telescoping mode	Ι, Π	I	п	Ι, Π	Ι, Π	Ι, Π
Number of parts of line	12	8	6	6	4	1

24. The lifting capacity for over side area differs depending on outrigger extension width. Work with 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	6.7 m	5.5 m	2.7 m
	(middle)	(middle)	(minimum)
Angle a°	60	40	15



#### DEFINITIONS

- Load Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
- 2. Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
- Working Area: Area measured in a circular arc about the centerline of rotation.
- 4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

# WARNING AND OPERATING INSTRUCTIONS FOR USING THE LOAD MOMENT INDICATOR (AML-C)

- Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
- 2. When operating crane on outriggers:
  - Set P.T.O. switch to "ON".
  - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
  - Press the lift state select key to register the lift state to be used (single top / jib / boom).
  - Each time the lift state select key is pressed, the display changes. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
  - When erecting and stowing jib, select the status of jib set (Jib lift indicative symbol flickers).
- 3. When operating crane on rubber:
  - Set P.T.O. switch to "ON".
  - Press the outrigger state select key to register for the on rubber operation. Each time the outrigger state select key is pressed, the display changes. Select the creep operation, the on rubber state indicative symbol flickers.
  - Press the lift state select key to register the lift state. However, pay attention to the following.
  - (1) For stationary operation.
    - The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360° capacities are in effect.
    - When a load is lifted in the front position and then slewed to the side area, make sure the value of the LOAD MOMENT INDICATOR (AML-C) is below the 360° lifting capacity.

- (2) For creep operation.
  - The creep capacities are attainable only when boom is in the straight forward position of chassis and the over front position symbol is on. If boom is not in the straight forward position of chassis, never lift load.
- This machine is equipped with an automatic slewing stop device.
  - (For the details, see Operation and Maintenance Manual.) But, operate very carefully because the automatic slewing stop does not work in the following cases.
  - During on rubber operation.

reduced.

- 5. During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
- 6. The displayed values of LOAD MOMENT INDICATOR (AML-C) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tire, operating speed, side loads, etc. For safe operation, it is recommended when extending and lowering boom or slewing, lifting loads shall be appropriately
- 7. LOAD MOMENT INDICATOR (AML-C) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction. Sole reliance upon LOAD MOMENT INDICATOR (AML-C) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

## **GR-750XL Axle weight distribution chart**

	Kilograms		
	GVW	Front	Rear
Basic machine	43,690	21,476	22,214
Add: 1. 68 ton 7 sheaves hook block	700	1,244	-544
2. 35 ton 3 sheaves hook block	450	800	-350
Remove: 1. 5.6 ton hook block	-150	-214	64
2. Top jib	-336	-365	29
3. Base jib	-867	-1,483	616
Counter weight with auxiliary winch and wire rope	-5,670	2,498	-8,168



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