

HYDRAULIC ROUGH TERRAIN CRANE

SPEC. SHEET NO. GR-300E-1-00212/EX-41

GR-300EX

Left hand steering

GENERAL DATA

CRANE CAPACITY BOOM	30,000 kg at 3.0 m 4-section, 9.7 m - 31.0 m						
DIMENSION	. 555511,	5.7 G					
Overall length	approx.	11,245 mm					
Overall width	approx.	2,620 mm					
Overall height	approx.	3,535 mm					
MASS							
Gross vehicle mass	approx.	26,940 kg					
—front axle	approx.	13,640 kg					
-rear axle	approx.	13,300 kg					
PERFORMANCE		_					
Max. travelling speed	computed	47 km/h					
Gradeability(tan θ)	computed	93 % (at stall) *57 %					

^{*}Machine should be operated within the limit of engine crankcase design (30°: Cummins QSB6.7)

CRANE SPECIFICATIONS

MODEL

GR-300EX

CAPACITY

30,000 kg at 3.0 m

BOOM

4-section full power partially synchronized telescoping boom of round hexagonal box construction with 4 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	.9.7 m
Fully extended length	.31.0 m
Extension speed	.21.3 m in 91 s

JIB

2-staged swingaround boom extension. Triple offset $(5^{\circ}/25^{\circ}/45^{\circ})$ type. Box type top section telescopes from lattice type base section which stores alongside base boom section. Single sheave at jib head.

Length......7.2 m and 12.8 m

SINGLE TOP (AUXILIARY BOOM SHEAVE)

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

ELEVATION

By a double-acting hydraulic cylinder, fitted with holding valve. Elevation speed......0° to 81° in 44 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	38.2 kN {3,900 kgf}
Single line speed	118 m/min (at the 4th layer)
Wire rope	Spin-resistant type
Diameter x length	16 mm x 170 m

TADANO LTD.

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	38.2 kN {3,900 kgf}
Single line speed	118 m/min (at the 4th layer)
Wire rope	Spin-resistant type
Diameter x length	16 mm x 98 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 speed2.7 min⁻¹ {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. 380 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 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 on the AML front panel)

OUTRIGGERS

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

All cylinders fitted with pilot check valves.

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

Extended width

Fully	6,300 mm
Middle	5,900 mm
Middle	5,000 mm
Minimum	2,200 mm
Float size(Diameter)	400 mm

COUNTERWEIGHT

Integral with swing	j frame
Mass	2,380 kg

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

TYPE

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

4 x 2 front drive

4 x 4 front and rear drive

FRAME

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

ENGINE

TRANSMISSION

Electronically controlled full automatic transmission.

Torque converter driving full powershift with driving axle selector. 8 forward and 2 reverse speeds.

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

4 speeds - Low range - 4 wheel drive

AXLES

FrontFull floating type, steering and driving axle with planetary reduction.

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

Non-spin differential.

STEERING

Hydraulic power steering controlled by steering wheel. Three steering modes available:

2-wheel front

4-wheel coordinated

4-wheel crab

SUSPENSION

FrontSemi-elliptic leaf springs with hydraulic lockout device.

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

device.

BRAKE SYSTEM

ServiceAir over hydraulic disc brakes on all 4 wheels. Parking / Emergency.....

Spring applied-air released brake acting on input shaft of front axle.

Auxiliary....Electro-pneumatic operated exhaust brake.

ELECTRIC SYSTEM

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

FUEL TANK CAPACITY

300 liters

TIRES

Front445 / 95 R 25(OR), Single x 2 Rear......445 / 95 R 25(OR), Single x 2

TURN RADIUS

Min. turning radius (at center of extreme outer tire)

2-wheel steering 9.55 m 4-wheel steering 5.7 m

EQUIPMENT -

STANDARD EQUIPMENT

Automatic moment limiter (AML-L)

External lamp (AML)

Pendant type over-winding cutout

Winch automatic fail-safe brake

Cable follower

30 t capacity hook block (4 sheaves)

3.9 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° swing lock)

Boom angle indicator

Boom elevation foot pedal

Boom telescoping foot pedal

Outrigger extension width detector

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

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

OPTIONAL EQUIPMENT

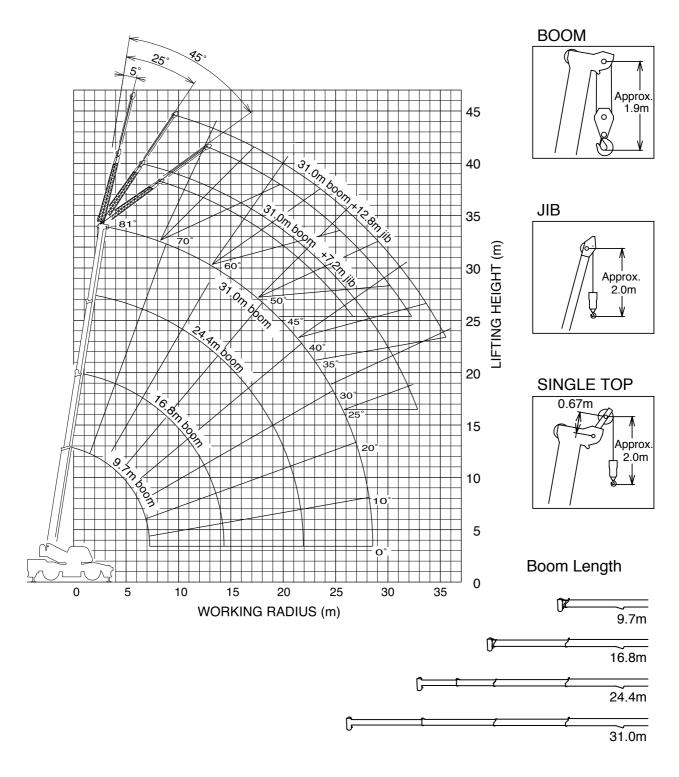
☐Winch drum	rotation	indicator for	or main	and	auxiliary	winch
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☐ Air conditioner (hot water heater and cooler)

☐Electric fan

□Tire inflation kit

☐Emergency steering



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 (6.3m) extended.

ON OUTRIGGERS Unit: kg

Outriggers fully extended (6.3m)											
360° Rotation											
A	9.	7	16	<u>.</u> 8	24.4	ļ	31.0	,			
<u>B</u>	С		С		С		С				
3.0	60.6	30,000	74.4	19,200	79.7	12,500					
3.5	57.0	27,200	72.5	19,200	78.5	12,500					
4.0	53.1	23,400	70.9	19,200	77.5	12,500	80.8	8,400			
4.5	49.2	21,300	68.9	18,300	76.3	12,500	80.0	8,400			
5.0	44.7	19,600	67.1	17,000	75.0	12,500	79.1	8,400			
5.5	40.3	18,100	65.1	15,800	74.0	12,500	78.3	8,400			
6.0	34.9	16,600	63.3	14,700	72.8	12,500	77.3	8,400			
6.5	28.7	15,200	61.4	13,600	71.5	11,700	76.6	8,400			
7.0	18.3	14,100	59.4	12,900	70.3	11,000	75.6	8,100			
8.0			54.9	10,900	67.7	9,750	73.7	7,500			
9.0			50.5	9,000	65.0	8,750	71.8	6,800			
10.0			45.8	7,050	62.4	7,900	69.8	6,200			
11.0			40.3	5,800	59.5	6,600	67.6	5,800			
12.0			34.3	4,800	56.5	5,600	65.6	5,400			
13.0			27.0	4,050	53.6	4,750	63.5	5,000			
14.0			15.7	3,400	50.4	4,150	61.3	4,400			
15.0				,	47.0	3,600	59.0	3,850			
16.0					43.4	3,200	56.6	3,450			
17.0					39.6	2,750	54.2	3,050			
18.0					35.5	2.450	51.8	2,650			
19.0					30.7	2,050	49.2	2,400			
20.0					25.6	1,800	46.6	2,100			
22.0						,	40.8	1,700			
24.0							34.4	1,300			
26.0							26.2	1,000			
28.0							13.4	500			
D		'		C	°	•	•				

A: Boom length (m)

B: Load radius (m)

C: Loaded boom angle (°)

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

ON OUTRIGGERS Unit: kg

	Outriggers fully extended (6.3m)													
						360°	R	otation						
				7.2m Jib				31.0m Boom + 12.8m Jib						
C	5°c	ffset	25°c	offset	45°0	offset]	С	5°c	ffset	25°0	offset	45°c	offset
	R	W	R	W	R	W			R	W	R	W	R	W
80°	5.9	3,500	8.1	2,400	9.8	1,700		80°	7.7	2,200	11.7	1,200	14.6	800
77.5°	7.7	3,500	9.8	2,300	11.4	1,650]	77.5°	9.8	2,150	13.5	1,150	16.3	780
75°	9.4	3,500	11.4	2,200	12.9	1,600		75°	11.8	2,100	15.3	1,100	17.9	750
72.5°	11.2	3,230	13.0	2,100	14.4	1,550		72.5°	13.6	1,930	17.1	1,050	19.4	730
70°	12.7	2,950	14.6	2,000	15.8	1,500		70°	15.5	1,750	18.8	1,000	21.0	700
67.5°	14.3	2,750	16.1	1,930	17.2	1,450		67.5°	17.2	1,630	20.5	950	22.5	680
65°	15.8	2,550	17.5	1,850	18.6	1,400]	65°	18.9	1,500	22.0	900	23.9	650
62.5°	17.3	2,350	19.0	1,800	19.9	1,380		62.5°	20.6	1,400	23.6	880	25.2	650
60°	18.7	2,150	20.4	1,750	21.2	1,350]	60°	22.3	1,300	25.1	850	26.6	650
57.5°	20.0	1,950	21.6	1,650	22.4	1,330	Ī	57.5°	23.8	1,230	26.4	800	27.8	650
55°	21.4	1,750	22.9	1,550	23.6	1,300		55°	25.4	1,150	27.9	750	29.0	650
52.5°	22.6	1,550	24.0	1,380	24.7	1,230]	52.5°	26.8	1,100	29.2	730	30.2	630
50°	23.9	1,350	25.2	1,200	25.7	1,150	1	50°	28.3	1,050	30.5	700	31.4	600
47.5°	25.0	1,180	26.3	1,100	26.7	1,100]	47.5°	29.6	900	31.7	680	32.5	600
45°	26.0	1,000	27.3	1,000	27.7	1,000		45°	30.8	750	32.8	650	33.5	600
42.5°	27.1	900	28.2	900			1	42.5°	32.0	680	33.8	600		
40°	28.1	800	29.1	800			1	40°	33.1	600	34.8	550		
37.5°	29.0	700	30.0	700]	37.5°	34.2	530	35.7	480		
35°	30.0	600	30.8	600			1	35°	35.2	450	36.5	400		
32.5°	30.8	530	31.5	530			Ī	32.5°	36.1	400				
30°	31.6	450	32.2	450				30°	37.0	350				
27.5°	32.3	400	32.8	380]	-			•		•	
25°	33.0	350	33.4	300										

C: Boom angle R: Load radius (m)

W: Rated lifting capacity

45° offset

800

780

750

730

700

680

650

650

650

650

650

630

600

550

500

14.6

16.3

17.9

19.4

21.0

22.5

23.9

25.2

26.6

27.8

29.0

30.2

31.3

32.3

33.3

ON OUTRIGGERS Unit: kg

Outriggers extended to middle (5.9m)											
360° Rotation											
A		9.7		6.8		24.4		1.0			
В	С		С		O		C				
3.0	60.6	30,000	74.4	19,200	79.7	12,500					
3.5	57.0	27,200	72.5	19,200	78.5	12,500					
4.0	53.1	23,400	70.9	19,200	77.5	12,500	80.8	8,400			
4.5	49.2	21,300	68.9	18,300	76.3	12,500	80.0	8,400			
5.0	44.7	19,600	67.1	17,000	75.0	12,500	79.1	8,400			
5.5	40.3	18,100	65.1	15,800	74.0	12,500	78.3	8,400			
6.0	34.9	16,600	63.3	14,700	72.8	12,500	77.3	8,400			
6.5	28.7	15,200	61.4	13,600	71.5	11,700	76.6	8,400			
7.0	18.3	12,900	59.4	12,600	70.3	11,000	75.6	8,100			
8.0		,	54.9	9.650	67.7	9,750	73.7	7,500			
9.0			50.5	7,700	65.0	8,750	71.8	6,800			
10.0			45.8	6,250	62.1	7,050	69.8	6,200			
11.0			40.3	5,150	59.4	5,950	67.6	5,800			
12.0			34.3	4,200	56.5	4,950	65.5	5,300			
13.0			27.0	3,500	53.4	4,200	63.2	4.500			
14.0			15.7	2,900	50.2	3,550	61.1	3,850			
15.0				,	46.9	3,050	58.8	3,350			
16.0					43.3	2,600	56.5	2,850			
17.0					39.5	2,250	54.0	2,500			
18.0					35.2	1,850	51.6	2,200			
19.0					30.6	1,600	49.1	1,850			
20.0					25.1	1,350	46.4	1,600			
22.0						, , , , , ,	40.4	1,150			
24.0							33.6	800			
26.0							25.6	550			
D				C	٥						

A: Boom length (m)

B: Load radius (m)

C: Loaded boom angle (°)

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

ON OUTRIGGERS Unit: kg

Inia	JLNJ											
			C	Outrigger				(5.9m)				
	31.0	m Boom	1 + 7.2m s	lib		П			31.0	m Boom	+ 12.8m	Jib
5°o					offset	1	С	5°0				
R	W	R	W	R	W	1		R	W	R	W	
5.9	3,500	8.1	2,400	9.8	1,700	1	80°	7.7	2,200	11.7	1,200	14
7.7	3,500	9.8	2,300	11.4	1,650	1	77.5°	9.8	2,150	13.5	1,150	16
9.4	3,500	11.4	2,200	12.9	1,600	1	75°	11.8	2,100	15.3	1,100	17
11.2	3,230	13.0	2,100	14.4	1,550	Ī	72.5°	13.6	1,930	17.1	1,050	19
12.7	2,950	14.6	2,000	15.8	1,500	1	70°	15.5	1,750	18.8	1,000	21
14.3	2,750	16.1	1,930	17.2	1,450	1	67.5°	17.2	1,630	20.5	950	22
15.8	2,550	17.5	1,850	18.6	1,400	1	65°	18.9	1,500	22.0	900	23
17.3	2,350	19.0	1,800	19.9	1,380	1	62.5°	20.6	1,400	23.6	880	25
18.7	2,150	20.4	1,750	21.2	1,350		60°	22.3	1,300	25.1	850	26
20.0	1,880	21.6	1,600	22.4	1,330	1	57.5°	23.8	1,230	26.4	800	27
21.4	1,600	22.9	1,450	23.6	1,300]	55°	25.4	1,150	27.9	750	29
22.6	1,350	24.0	1,250	24.7	1,150	1	52.5°	26.8	1,000	29.2	730	30
23.9	1,100	25.1	1,050	25.7	1,000	1	50°	28.2	850	30.4	700	31
25.0	950	26.1	900	26.7	880	1	47.5°	29.5	730	31.6	630	32
26.0	800	27.1	750	27.7	750	1	45°	30.7	600	32.7	550	33
27.1	680	28.1	630			1	42.5°	31.9	480	33.7	450	
28.1	550	29.0	500				40°	33.1	350	34.7	350	
29.0	480	29.8	430]						
30.0	400	30.7	350									
	5°0 R 5.9 7.7 9.4 11.2 12.7 14.3 15.8 17.3 18.7 20.0 21.4 22.6 23.9 25.0 26.0 27.1 28.1 29.0	5° offset R W 5.9 3,500 7.7 3,500 9.4 3,500 11.2 3,230 12.7 2,950 14.3 2,750 15.8 2,550 17.3 2,350 18.7 2,150 20.0 1,880 21.4 1,600 22.6 1,350 23.9 1,100 25.0 950 26.0 800 27.1 680 28.1 550 29.0 480	31.0m Boom 5° offset 25° c R W R 5.9 3,500 8.1 7.7 3,500 9.8 9.4 3,500 11.4 11.2 3,230 13.0 12.7 2,950 14.6 14.3 2,750 16.1 15.8 2,550 17.5 17.3 2,350 19.0 18.7 2,150 20.4 20.0 1,880 21.6 21.4 1,600 22.9 22.6 1,350 24.0 23.9 1,100 25.1 25.0 950 26.1 26.0 800 27.1 27.1 680 28.1 28.1 550 29.0 29.0 480 29.8	31.0m Boom + 7.2m C 5° offset	Outrigger 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R 5.9 3,500 8.1 2,400 9.8 7.7 3,500 9.8 2,300 11.4 9.4 3,500 11.4 2,200 12.9 11.2 3,230 13.0 2,100 14.4 12.7 2,950 14.6 2,000 15.8 14.3 2,750 16.1 1,930 17.2 15.8 2,550 17.5 1,850 18.6 17.3 2,350 19.0 1,800 19.9 18.7 2,150 20.4 1,750 21.2 20.0 1,880 21.6 1,600 22.4 21.4 1,600 22.9 1,450 23.6 22.6 1,350 24.0 1,250 24.7 23.9 1,100 25.1 1,050 25.7 25.0 950 26.1 900 26.7 26.0 <td>Outriggers extended 360° 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 17.3 2,350 19.0 1,800 19.9 1,380 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 21.4 1,600 22.9 1,450 23.6 <td< td=""><td>Outriggers extended a 360° R 31.0m Boom + 7.2m Jib 5° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 17.3 2,350 19.0 1,800 19.9 1,380 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 21.4 1,600 22.9 1,450 23.6 <td< td=""><td>Outriggers extended to middle 360° Rotation 31.0m Boom + 7.2m Jib C S*offset 45*offset C R W R W R W 80° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 72.5</td><td>Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 9.8 7.7 3,500 9.8 2,300 11.4 1,650 77.5° 9.8 9.4 3,500 11.4 2,200 12.9 1,600 77.5° 9.8 11.2 3,230 13.0 2,100 14.4 1,550 72.5° 11.8 12.7 2,950 14.6 2,000 15.8 1,500 70° 15.5 14.3 2,750 16.1 1,930 17.2 1,450 67.5° 17.2 15.8 2,550 17.5 1,850 18.6 1,400 65° 18.9 17.3 2,350 19.0 1,800 19.9 1,380 62.5° 20.6 18.7</td><td>Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 31.0m Boom + 7.2m Jib C 31.0 5° offset 25° offset 45° offset C 5° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 22.6 1,350<</td><td> Solutriggers extended to middle (5.9m) Solutriggers extended to middle (5.9c) Solutriggers extended to middle (5.</td><td>Outriggers extended to middle (5.9m) 31.0m Boom + 7.2m Jib C 31.0m Boom + 12.8m Foffset 25° offset 45° offset C 5° offset 25° offset 25° offset 25° offset 25° offset 25° offset R W B 25° offset R W</td></td<></td></td<></td>	Outriggers extended 360° 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 17.3 2,350 19.0 1,800 19.9 1,380 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 21.4 1,600 22.9 1,450 23.6 <td< td=""><td>Outriggers extended a 360° R 31.0m Boom + 7.2m Jib 5° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 17.3 2,350 19.0 1,800 19.9 1,380 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 21.4 1,600 22.9 1,450 23.6 <td< td=""><td>Outriggers extended to middle 360° Rotation 31.0m Boom + 7.2m Jib C S*offset 45*offset C R W R W R W 80° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 72.5</td><td>Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 9.8 7.7 3,500 9.8 2,300 11.4 1,650 77.5° 9.8 9.4 3,500 11.4 2,200 12.9 1,600 77.5° 9.8 11.2 3,230 13.0 2,100 14.4 1,550 72.5° 11.8 12.7 2,950 14.6 2,000 15.8 1,500 70° 15.5 14.3 2,750 16.1 1,930 17.2 1,450 67.5° 17.2 15.8 2,550 17.5 1,850 18.6 1,400 65° 18.9 17.3 2,350 19.0 1,800 19.9 1,380 62.5° 20.6 18.7</td><td>Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 31.0m Boom + 7.2m Jib C 31.0 5° offset 25° offset 45° offset C 5° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 22.6 1,350<</td><td> Solutriggers extended to middle (5.9m) Solutriggers extended to middle (5.9c) Solutriggers extended to middle (5.</td><td>Outriggers extended to middle (5.9m) 31.0m Boom + 7.2m Jib C 31.0m Boom + 12.8m Foffset 25° offset 45° offset C 5° offset 25° offset 25° offset 25° offset 25° offset 25° offset R W B 25° offset R W</td></td<></td></td<>	Outriggers extended a 360° R 31.0m Boom + 7.2m Jib 5° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 17.3 2,350 19.0 1,800 19.9 1,380 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 21.4 1,600 22.9 1,450 23.6 <td< td=""><td>Outriggers extended to middle 360° Rotation 31.0m Boom + 7.2m Jib C S*offset 45*offset C R W R W R W 80° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 72.5</td><td>Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 9.8 7.7 3,500 9.8 2,300 11.4 1,650 77.5° 9.8 9.4 3,500 11.4 2,200 12.9 1,600 77.5° 9.8 11.2 3,230 13.0 2,100 14.4 1,550 72.5° 11.8 12.7 2,950 14.6 2,000 15.8 1,500 70° 15.5 14.3 2,750 16.1 1,930 17.2 1,450 67.5° 17.2 15.8 2,550 17.5 1,850 18.6 1,400 65° 18.9 17.3 2,350 19.0 1,800 19.9 1,380 62.5° 20.6 18.7</td><td>Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 31.0m Boom + 7.2m Jib C 31.0 5° offset 25° offset 45° offset C 5° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 22.6 1,350<</td><td> Solutriggers extended to middle (5.9m) Solutriggers extended to middle (5.9c) Solutriggers extended to middle (5.</td><td>Outriggers extended to middle (5.9m) 31.0m Boom + 7.2m Jib C 31.0m Boom + 12.8m Foffset 25° offset 45° offset C 5° offset 25° offset 25° offset 25° offset 25° offset 25° offset R W B 25° offset R W</td></td<>	Outriggers extended to middle 360° Rotation 31.0m Boom + 7.2m Jib C S*offset 45*offset C R W R W R W 80° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 77.5° 72.5	Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 5° offset 25° offset 45° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 9.8 7.7 3,500 9.8 2,300 11.4 1,650 77.5° 9.8 9.4 3,500 11.4 2,200 12.9 1,600 77.5° 9.8 11.2 3,230 13.0 2,100 14.4 1,550 72.5° 11.8 12.7 2,950 14.6 2,000 15.8 1,500 70° 15.5 14.3 2,750 16.1 1,930 17.2 1,450 67.5° 17.2 15.8 2,550 17.5 1,850 18.6 1,400 65° 18.9 17.3 2,350 19.0 1,800 19.9 1,380 62.5° 20.6 18.7	Outriggers extended to middle (5.9m) 360° Rotation 31.0m Boom + 7.2m Jib 31.0m Boom + 7.2m Jib C 31.0 5° offset 25° offset 45° offset C 5° offset R W R W R W 5.9 3,500 8.1 2,400 9.8 1,700 7.7 3,500 9.8 2,300 11.4 1,650 9.4 3,500 11.4 2,200 12.9 1,600 11.2 3,230 13.0 2,100 14.4 1,550 12.7 2,950 14.6 2,000 15.8 1,500 14.3 2,750 16.1 1,930 17.2 1,450 15.8 2,550 17.5 1,850 18.6 1,400 18.7 2,150 20.4 1,750 21.2 1,350 20.0 1,880 21.6 1,600 22.4 1,330 22.6 1,350<	Solutriggers extended to middle (5.9m) Solutriggers extended to middle (5.9c) Solutriggers extended to middle (5.	Outriggers extended to middle (5.9m) 31.0m Boom + 7.2m Jib C 31.0m Boom + 12.8m Foffset 25° offset 45° offset C 5° offset 25° offset 25° offset 25° offset 25° offset 25° offset R W B 25° offset R W

C: Boom angle (°)

R: Load radius (m)

W: Rated lifting capacity

ON OUTRIGGERS Unit: kg

Outriggers extended to middle (5.0m)										
				360° Rotati	on					
A	9.7			6.8		24.4		31.0		
В	С		С		С		С			
3.0	60.6	30,000	74.4	19,200	79.7	12,500				
3.5	57.0	27,200	72.5	19,200	78.5	12,500				
4.0	53.1	23,400	70.9	19,200	77.5	12,500	80.8	8,400		
4.5	49.2	21,300	68.9	18,300	76.3	12,500	80.0	8,400		
5.0	44.7	19,600	67.1	17,000	75.0	12,500	79.1	8,400		
5.5	40.3	15,700	65.1	15,000	74.0	12,500	78.3	8,400		
6.0	34.9	13,200	63.3	12,650	72.8	12,500	77.3	8,400		
6.5	28.7	11,300	61.4	10,850	71.5	11,700	76.6	8,400		
7.0	18.2	9,650	59.4	9,500	70.1	10,400	75.6	8,100		
8.0			54.9	7,300	67.5	8,200	73.7	7,500		
9.0			50.5	5,800	64.8	6,700	71.8	6,800		
10.0			45.8	4,700	62.0	5,500	69.5	5,800		
11.0			40.3	3,800	59.3	4,650	67.3	4,900		
12.0			34.3	3,100	56.3	3,900	65.2	4,250		
13.0			27.0	2,550	53.0	3,250	63.0	3,600		
14.0			15.7	1,900	49.9	2,750	60.8	3,100		
15.0					46.6	2,300	58.5	2,650		
16.0					43.0	1,900	56.1	2,250		
17.0	·				39.4	1,600	53.8	1,950		
18.0					35.2	1,350	51.3	1,650		
19.0					30.5	1,100	48.7	1,400		
20.0					24.9	750	46.0	1,200		
22.0							40.3	800		
D			()°			20	6°		

A: Boom length (m)

B: Load radius (m)

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

ON OUTRIGGERS Unit: kg

Outriggers extended to middle (5.0m) 360° Rotation C S*offset 25°offset 45°offset C S*offset 25°offset 45°offset C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor C S*offset 80° Floor <th co<="" th=""><th colspan="10"></th></th>	<th colspan="10"></th>											
C 5°offset 25°offset 45°offset C 5°of R W R W R W 80° 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 7.7 3,500 9.8 2,300 11.4 1,650 75° 9.4 3,500 11.4 2,200 12.9 1,600 72.5° 11.2 3,230 13.0 2,100 14.4 1,550 70° 12.7 2,950 14.6 2,000 15.8 1,500 67.5° 14.3 2,700 16.1 1,930 17.2 1,450 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 55° 21.1 1,100 22.7 1,000 23.4 950												
R W R W R W 80° 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 7.7 3,500 9.8 2,300 11.4 1,650 75° 9.4 3,500 11.4 2,200 12.9 1,600 72.5° 11.2 3,230 13.0 2,100 14.4 1,550 70° 12.7 2,950 14.6 2,000 15.8 1,500 67.5° 14.3 2,700 16.1 1,930 17.2 1,450 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 55° 21.1 1,100 22.7 1,000 23.4 950 55.° 22.4 930 23.9 830 24.5 800			31.0	m Boom	+ 7.2m J	ib						
80° 5.9 3,500 8.1 2,400 9.8 1,700 77.5° 7.7 3,500 9.8 2,300 11.4 1,650 75° 9.4 3,500 11.4 2,200 12.9 1,600 72.5° 11.2 3,230 13.0 2,100 14.4 1,550 70° 12.7 2,950 14.6 2,000 15.8 1,500 67.5° 14.3 2,700 16.1 1,930 17.2 1,450 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 55° 21.1 1,100 22.7 1,000 23.4 950 55° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 <	С	5°o	ffset	25°c	ffset	45°c	offset		С	5°of		
77.5° 7.7 3,500 9.8 2,300 11.4 1,650 75° 9.4 3,500 11.4 2,200 12.9 1,600 72.5° 11.2 3,230 13.0 2,100 14.4 1,550 70° 12.7 2,950 14.6 2,000 15.8 1,500 67.5° 14.3 2,700 16.1 1,930 17.2 1,450 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 55° 21.1 1,100 22.7 1,000 23.4 950 55° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 50° 24.8 600 26.1 500		R	W	R	W	R	W	1		R		
75° 9.4 3,500 11.4 2,200 12.9 1,600 72.5° 11.2 3,230 13.0 2,100 14.4 1,550 70° 12.7 2,950 14.6 2,000 15.8 1,500 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 55° 21.1 1,100 22.7 1,000 23.4 950 52.5° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 47.5° 24.8 600 26.1 500 26.6 500	80°	5.9	3,500	8.1	2,400	9.8	1,700	П	80°	7.7		
72.5° 11.2 3,230 13.0 2,100 14.4 1,550 70° 12.7 2,950 14.6 2,000 15.8 1,500 67.5° 14.3 2,700 16.1 1,930 17.2 1,450 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 57.5° 19.8 1,380 21.5 1,230 22.3 1,150 55° 21.1 1,100 22.7 1,000 23.4 950 55.° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 50° 24.8 600 26.1 500 26.6 500	77.5°	7.7	3,500	9.8	2,300	11.4	1,650		77.5°	9.8		
70° 12.7 2,950 14.6 2,000 15.8 1,500 67.5° 14.3 2,700 16.1 1,930 17.2 1,450 65° 15.8 2,450 17.5 1,850 18.6 1,400 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 57.5° 19.8 1,380 21.5 1,230 22.3 1,150 55° 21.1 1,100 22.7 1,000 23.4 950 52.5° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 47.5° 24.8 600 26.1 500 26.6 500	75°	9.4	3,500	11.4	2,200	12.9	1,600		75°	11.8		
67.5° 14.3 2,700 16.1 1,930 17.2 1,450 67.5° 17.2 65° 15.8 2,450 17.5 1,850 18.6 1,400 65° 18.9 1,650 19.9 1,380 62.5° 18.9 62.5° 20.6 60° 18.6 1,650 20.2 1,450 21.1 1,350 60° 22.2 22.3 1,150 57.5° 23.7 23.7 1,000 23.4 950 55° 25.1 22.4 930 23.9 830 24.5 800 52.5° 26.5 50° 27.9 47.5° 24.8 600 26.1 500 26.6 500	72.5°	11.2	3,230	13.0	2,100	14.4	1,550		72.5°	13.6		
65° 15.8 2,450 17.5 1,850 18.6 1,400 65° 18.9 62.5° 17.1 2,050 18.9 1,650 19.9 1,380 62.5° 20.6 60° 18.6 1,650 20.2 1,450 21.1 1,350 60° 22.2 57.5° 19.8 1,380 21.5 1,230 22.3 1,150 57.5° 23.7 55° 21.1 1,100 22.7 1,000 23.4 950 55° 25.1 52.5° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 47.5° 24.8 600 26.1 500 26.6 500	70°	12.7	2,950	14.6	2,000	15.8	1,500		70°	15.5		
62.5° 17.1 2,050 18.9 1,650 19.9 1,380 60° 18.6 1,650 20.2 1,450 21.1 1,350 57.5° 19.8 1,380 21.5 1,230 22.3 1,150 55° 21.1 1,100 22.7 1,000 23.4 950 52.5° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 47.5° 24.8 600 26.1 500 26.6 500	67.5°	14.3	2,700	16.1	1,930	17.2	1,450	П	67.5°	17.2		
60° 18.6 1,650 20.2 1,450 21.1 1,350 60° 22.2 57.5° 19.8 1,380 21.5 1,230 22.3 1,150 57.5° 23.7 55° 21.1 1,100 22.7 1,000 23.4 950 55° 25.1 50° 23.6 750 25.0 650 25.5 650 50° 27.9 47.5° 24.8 600 26.1 500 26.6 500		15.8	2,450	17.5	1,850	18.6	1,400		65°	18.9		
57.5° 19.8 1,380 21.5 1,230 22.3 1,150 57.5° 23.7 55° 21.1 1,100 22.7 1,000 23.4 950 55° 25.1 52.5° 22.4 930 23.9 830 24.5 800 52.5° 26.5 50° 23.6 750 25.0 650 25.5 650 650 27.9 47.5° 24.8 600 26.1 500 26.6 500	62.5°	17.1	2,050	18.9	1,650	19.9	1,380		62.5°	20.6		
55° 21.1 1,100 22.7 1,000 23.4 950 55° 25.1 52.5° 22.4 930 23.9 830 24.5 800 52.5° 26.5 50° 23.6 750 25.0 650 25.5 650 50° 27.9 47.5° 24.8 600 26.1 500 26.6 500	60°	18.6	1,650	20.2	1,450	21.1	1,350		60°	22.2		
52.5° 22.4 930 23.9 830 24.5 800 50° 23.6 750 25.0 650 25.5 650 47.5° 24.8 600 26.1 500 26.6 500	57.5°	19.8	1,380	21.5	1,230	22.3	1,150		57.5°	23.7		
50° 23.6 750 25.0 650 25.5 650 47.5° 24.8 600 26.1 500 26.6 500	55°	21.1	1,100	22.7	1,000	23.4	950		55°	25.1		
47.5° 24.8 600 26.1 500 26.6 500	52.5°	22.4	930	23.9	830	24.5	800		52.5°	26.5		
		23.6	750	25.0	650	25.5	650		50°	27.9		
45° 25.9 450 27.1 350 27.5 350	47.5°	24.8	600	26.1	500	26.6	500					
	45°	25.9	450	27.1	350	27.5	350					

		31.0m Boom + 12.8m Jib											
C	5°of	fset	25°0	ffset	45°0	ffset							
	R	W	R	W	R	W							
80°	7.7	2,200	11.7	1,200	14.6	800							
77.5°	9.8	2,150	13.5	1,150	16.3	780							
75°	11.8	2,100	15.3	1,100	17.9	750							
72.5°	13.6	1,930	17.1	1,050	19.4	730							
70°	15.5	1,750	18.8	1,000	21.0	700							
67.5°	17.2	1,630	20.5	950	22.5	680							
65°	18.9	1,500	22.0	900	23.9	650							
62.5°	20.6	1,380	23.6	880	25.2	650							
60°	22.2	1,250	25.1	850	26.6	650							
57.5°	23.7	1,030	26.5	750	27.8	650							
55°	25.1	800	27.7	650	29.0	650							
52.5°	26.5	650	29.0	550	30.2	550							
50°	27.9	500	30.3	450	31.2	450							

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

ON OUTRIGGERS	Unit: kg
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Outrigger extended to minimum (2.2m) 360° Rotation										
A	(9.7	1	6.8	2	24.4	3	31.0		
В	С		С	Ī	С	Ī	С] I		
3.0	60.6	13,200	74.2	13,000	79.5	12,500				
3.5	57.0	10,250	72.2	9,800	78.4	10,900				
4.0	53.1	8,000	70.5	7,800	77.2	8,800	79.9	8,000		
4.5	49.2	6,700	68.4	6,450	75.9	7,250	79.0	7,200		
5.0	44.7	5,700	66.8	5,300	74.6	6,200	77.9	6,050		
5.5	40.3	4,700	64.6	4,400	73.3	5,200	77.0	5,450		
6.0	34.9	3,850	62.8	3,650	72.0	4,400	76.1	4,800		
6.5	28.7	3,300	60.9	3,050	70.6	3,800	75.1	4,250		
7.0	18.3	2,700	58.7	2,600	69.5	3,300	74.1	3,650		
8.0			54.6	1,850	66.7	2,400	72.3	2,750		
9.0			50.2	1,200	64.1	1,750	70.3	2,050		
10.0			45.1	550	61.3	1,350	68.3	1,500		
11.0					58.7	950	66.2	1,200		
12.0					55.9	550	64.3	900		
13.0							62.2	500		
D		0°	4	10°	5	3°	6	60°		

A: Boom length (m)

B: Load radius (m)

C: Loaded boom angle (°)

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

NOTES FOR "ON OUTRIGGERS" TABLE

- 1. Rated lifting capacities 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 (270kg for 30 t capacity, 100kg for 3.9 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 3,900 kg including main boom hook mass and the net capacity must be so reduced.
- 5. Standard number of parts line for each boom length is as shown below. Load per line should not surpass 38.2 kN {3,900 kgf} for main winch and auxiliary winch.

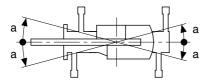
Boom length	9.7m	9.7m to 16.8m	16.8m to 31.0m	Single top / Jib
Number of parts line	9	6	4	1

The lifting capacity data stored in the AUTOMATIC MOMENT LIMITER (AML-L) is based on the standard number of parts line listed in the chart.

Maximum lifting capacity is restricted by the number parts 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	5.9m(middle)	5.0m(middle)	2.2m(minimum)
Angle a°	45	40	15



ON TIRES Unit: kg

Stationary												
A			r Front		360° Rotation							
		9.7		16.8		24.4		9.7		16.8	24.4	
В	С		С		С		С		С		С	
3.0	60.6	18,000					60.6	11,000				
3.5	56.8	17,000					57.1	9,000				
4.0	53.0	15,000					53.5	7,300				
4.5	49.2	12,700	68.8	11,000			49.7	5,700	68.5	5,500		
5.0	44.9	10,600	66.9	9,500			45.4	4,900	66.3	4,500		
5.5	39.9	9,000	64.9	8,000			40.8	4,000	64.6	3,700		
6.0	34.6	7,700	63.1	7,000			35.3	3,200	62.5	3,100		
6.5	27.7	6,600	61.1	6,100			28.9	2,750	60.9	2,500		
7.0	17.7	5,700	59.0	5,300			20.5	2,270	58.6	2,100		
8.0			54.6	4,250	67.2	5,000			54.6	1,400	66.9	2,200
9.0			50.0	3,450	64.3	3,900			49.9	850	64.3	1,600
10.0			45.2	2,650	61.6	3,150					61.6	1,100
11.0			40.1	2,100	58.8	2,550					58.7	800
12.0			33.8	1,600	55.9	2,100						
13.0			26.5	1,200	52.9	1,750						
14.0			15.7	750	49.7	1,400						
15.0					46.7	1,100						
16.0					43.1	850						
17.0					39.4	600						
D		0	0		28	3°	C)°	44	1°	56	3°

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

ON TIRES Unit:kg

	Creep											
			Over	Front			360° Rotation					
A		9.7		16.8	:	24.4		9.7		16.8	24.4	
В	С		С		С		С	Ī	С		С	
3.0	60.6	18,000					60.6	10,000				
3.5	56.8	15,450					57.0	8,000				
4.0	53.0	13,000					53.3	6,500				
4.5	49.0	11,100	68.6	9,700			49.2	5,100	68.6	5,100		
5.0	44.7	9,300	66.6	8,400			44.4	4,300	66.6	4,200		
5.5	39.8	7,950	64.6	7,000			39.6	3,700	64.7	3,500		
6.0	34.7	6,700	62.8	6,000			34.0	3,000	62.7	2,700		
6.5	28.0	5,750	60.8	5,300			27.0	2,500	60.7	2,350		
7.0	18.2	5,000	58.7	4,650			18.1	1,950	58.9	1,850		
8.0			54.4	3,600	67.0	4,300			54.5	1,300	67.0	1,900
9.0			49.9	2,800	64.3	3,400			50.2	750	64.3	1,350
10.0			45.1	2,300	61.7	2,800					61.7	900
11.0			39.6	1,800	58.8	2,250					58.8	600
12.0			33.3	1,350	56.0	1,800						
13.0			26.0	1,000	52.9	1,500						
14.0			14.6	600	49.7	1,200						
15.0					46.4	950						
16.0					42.9	600						
D		0	°		3	31°		0°		44°		56°

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

NOTES FOR "ON TIRES" TABLE

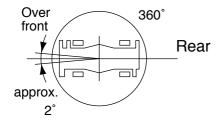
- 1. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface, with suspension lock applied. Those above bold lines are based on tire capacity and those below, on crane stability. They are based on actual working radii increased by tire deformation and boom deflection.
- 2. Rated lifting capacities based on crane stability are according to ISO 4305.
- 3. The mass of the hook (270 kg for 30 t capacity, 100 kg for 3.9 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 weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 3,900 kg including main hook.
- 5. On tires lifting with "jib" is not permitted. Maximum permissible boom length is 24.4 m.
- 6. CREEP is motion for crane not to travel more than 60 m in any 30 minute period and to travel at the speed of less than 1.6 km/h.
- 7. During "CREEP" duties travel slowly and keep the lifting load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- 8. Do not operate the crane while carrying the load.
- 9. Tires should be inflated to their correct air pressure of 0.9 MPa {9.0 kgf/cm²}.
- 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 38.2 kN {3,900 kgf} for main winch and auxiliary winch.

		Over Front		360° Rotation			
Boom length	9.7m	9.7m 16.8m 24.4m			16.8m	24.4m	
Number of parts line (Single top)	6 (1)	4 (1)	4 (1)	4 (1)	4 (1)	4 (1)	

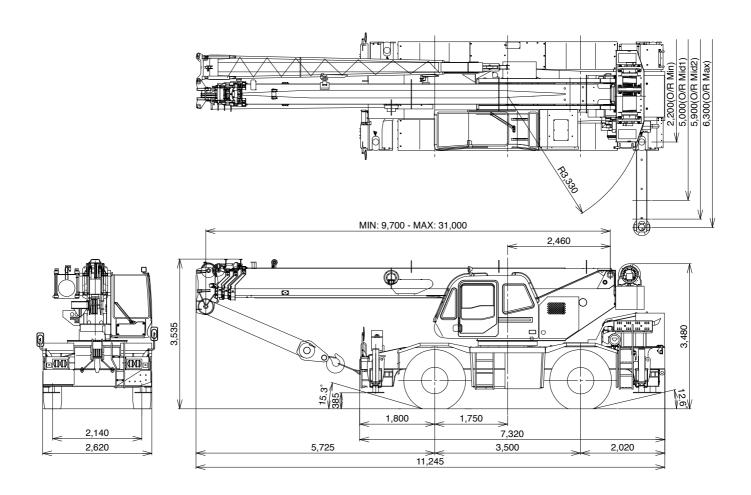
The lifting capacity data stored in the AUTOMATIC MOMENT LIMITER (AML-L) is based on the standard number of parts line listed in the chart.

Maximum lifting capacity is restricted by the number of parts line of AUTOMATIC MOMENT LIMITER (AML-L).

WORKING AREA



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



Axle Weight Distribution Chart

	GVW	Front	Rear
Basic standard machine includes: 4-section boom (9.7 m - 31.0 m) 2-stage jib (7.2 m, 12.8 m) Cummins QSB6.7 Single top 30 ton 4 sheaves hook block 3.9 ton hook block	26,940	13,640	13,300
Add: Air conditioner	+95	+26	+69
Remove:			
1. 2-stage jib (7.2 m, 12.8 m)	-630	-1,085	+455
2. 30 ton 4 sheaves hook block	-270	-480	+210
3. 3.9 ton hook block	-100	-140	+40

Unit: kg

Specifications are subject to change without notice.



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