

 SPEC. SHEET No.
 GR-700E-1-00212/C-44

 DATE
 July, 2009

TADANO ROUGH TERRAIN CRANE

MODEL : GR-700EX

(Left-hand steering)

GENERAL DATA

CRANE CAPACITY	70,000 kg a	at 3.0 m
BOOM	5-section,	11.5 m — 44.0 m
DIMENSION		
Overall length	approx.	14,075 mm
Overall width	approx.	3,315 mm
Overall height	approx.	3,800 mm
MASS		
Gross vehicle mass	approx.	48,315 kg
-front axle	approx.	24,695 kg
-rear axle	approx.	23,620 kg
PERFORMANCE_		
Max. traveling speed	computed	36 km/h
Gradeability (tan θ)	computed	112 % (at stall)
		*30 %

* Machine should be operated within the limit of engine crankcase design (17° : MITSUBISHI 6M60-TLA3B, 6M60-TLU3B).

CRANE SPECIFICATIONS

MODEL	GR-700EX
CAPACITY	70,000 kg at 3.0 m
BOOM	 Five section full power partially synchronized telescoping boom of round hexagonal box construction with 7 sheaves at boom head. The synchronization system consists of 2 telescope cylinders, extension cables and retraction cables. Hydraulic cylinders fitted with holding valves. Fully retracted length 11.5 m Fully extended length
<u>JIB</u>	Two staged swingaround boom extension. Triple offset ($3.5^{\circ}/25^{\circ}/45^{\circ}$) type. Stores alongside base boom section. Assistant cylinders for mounting and stowing. Single sheave at jib head. Length
SINGLE TOP (AUXILIARY BOOM SHEAVE)	Single sheave. Mounted to main boom head for single line work.
<u>ELEVATION</u>	By a double-acting hydraulic cylinder, fitted with holding valve. Elevation speed
<u>HOIST - Main winch</u>	Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting. Equipped with automatic brake (Neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Single line pull 54.9 kN {5,600 kgf} Single line speed
HOOK BLOCK(Optional) - 70 t capacity	8 sheaves, swivel type hook with safety latch.
HOOK BLOCK(Optional) - <u>40 t capacity</u>	4 sheaves, swivel type hook with safety latch.

<u>HOIST -</u>	Variable speed type with grooved drum driven by hydraulic axial piston
Auxiliary winch	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
	Single line speed 125 m/min (at the 2nd layer)
	Wire rope Spin-resistant type
	Diameter x length19 mm x 133 m
HOOK BLOCK - 5.6 t capacity	Swivel hook with safety latch for single line use.
SWING	Hydraulic axial piston motor driven through planetary speed reducer.
	Continuous 360° full circle swing on ball bearing slew ring.
	Equipped with manually locked/released swing brake.
	Swing speed 2.3 r/min
HYDRAULIC SYSTEM	Pumps 2 variable piston pumps for telescoping, elevating and winches.
	Tandem gear pump for steering, swing and optional equipment.
	Control valvesMultiple valves actuated by pilot pressure with integral pressure relief valves.
	Circuit Equipped with air cooled type oil cooler.
	Oil pressure appears on AML display for main
	circuit.
	Hydraulic oil tank capacity
	approx. 740 liters
	Filters Return line filter
CRANE CONTROL	By 4 control levers for swing, boom hoist, main winch, boom telescoping
	or auxiliary winch with 2 control pedals for boom hoist and boom
	telescoping based on ISO standard layout. Control lever stands can
	change neutral positions and tilt for easy access to cab.

<u>CAB</u>	Both crane and drive operations can be performed from one cab mounted on rotating superstructure. One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side. Door window is powered control. Operator's 3 way adjustable seat with headrest and armrest. Hot water cab heater and air conditioning.(Optional)
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 constantly displayed : Either moment as percentage or main hydraulic pressure Either boom angle or moment % Either boom length or potential hook height Either actual load radius or swing angle Actual hook load Permissible load Either jib offset angle or number of parts of line of rope Boom position indicator Either outrigger position or on-tire indicator
OUTRIGGERS	Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab. Equipped with sight level gauge. Floats mounted integrally with the jacks retract to within vehicle width. All cylinders fitted with pilot check valves. Crane operation with different extended length of each outrigger. Equipped with extension width detector for each outrigger. Extended width Fully
<u>COUNTERWEIGHT</u>	Integral with swing frame (containing removable weight) Mass7,900 kg

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

CARRIER SPECIFICATIONS

<u>TYPE</u>	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.
<u>ENGINE</u>	 Model MITSUBISHI 6M60-TLA3B [EPA Tier 3] MITSUBISHI 6M60-TLU3B [EUROMOT Stage IIIA] MITSUBISHI 6M60-TLC1B [GB 20891-2007 II] Type 4 cycle, turbo charged and after cooled, 6 cylinder in line, direct injection, water cooled diesel engine. Piston displacement 7.54 L Bore x stroke
TRANSMISSION	Electronically controlled full automatic transmission. Torque converter driving full powershift with driving axle selector. 6 forward and 2 reverse speeds. 3 speeds - High range - 2 wheel drive ; 4 wheel drive 3 speeds - Low range - 4 wheel drive
AXLES	Front Full floating type, steering and driving axle with planetary reduction.
	Rear Full floating type, steering and driving axle with planetary reduction. Non-spin differential.
<u>STEERING</u>	Hydraulic power steering controlled by steering wheel. Four steering modes available: 2-wheel front 2-wheel rear 4-wheel coordinated 4-wheel crab
<u>SUSPENSION</u>	Front Rigid mounted to the frame. Rear Pivot mounted with hydraulic lockout cylinders.
BRAKE SYSTEM	 Service Air over hydraulic disc brakes on all 4 wheels. Parking / Emergency Spring applied-air released brake acting on input shaft of front axle. Auxiliary Electro-pneumatic operated exhaust brake.
ELECTRIC SYSTEM	24 V DC. 2 batteries of 12 V - 120 Ah capacity.
FUEL TANK CAPACITY	300 liters
TIRES	Front 29.5 - 25 22PR(OR), Single x 2 Rear 29.5 - 25 22PR(OR), Single x 2
TURN RADIUS	Min. turning radius (at center of extreme outer tire) 2-wheel steering 11.9 m 4-wheel steering 6.7 m

EQUIPMENT

STANDARD EQUIPMENT	Automatic moment limiter (AML-L) External lamp (AML) Pendant type over-winding cutout Winch automatic fail-safe brake Cable follower Hook safety latch Pilot check valves Holding valves Counterbalance valves Hydraulic pressure relief valves Swing brake Swing lock (360° positive swing lock) Boom angle indicator Boom elevation foot pedal Boom telescoping foot pedal Red warning lamp (Top boom) 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 (Visual type) Winch drum mirror Electric fan Hot water cab heater and air conditioner Tire inflation kit Hook block - 70t capacity (8 sheaves, swivel type with safety latch. Mass : approx. 850 kg) Hook block - 40t capacity (4 sheaves, swivel type with safety latch. Mass : 470 kg)

RATED LIFTING CAPACITIES

ISO 4305

	ON OUTRIGGERS FULLY EXTENDED 7.2m SPREAD											
	360° ROTATION (Unit: x 1,000 kg)											
Α		l.5m		.56m		.62m		.75m		.87m		l.0m
В	С		С		С		С		С		С	
3.0	68.9	70.0	74.9	47.0	78.0	40.0						
3.5	65.9	58.5	72.6	47.0	76.6	40.0						
4.0	63.1	53.6	71.0	47.0	75.3	40.0						
4.5	60.1	49.6	69.0	47.0	73.7	40.0	78.9	20.0				
5.0	57.1	45.2	66.6	43.2	72.2	37.5	77.8	20.0				
5.5	54.0	40.5	64.8	39.4	70.6	35.0	76.8	20.0				
6.0	50.6	36.3	62.6	35.9	69.1	33.0	75.8	20.0	79.5	14.0		
6.5	47.2	32.9	60.7	32.8	67.5	30.7	74.8	20.0	78.7	14.0		
7.0	43.5	30.0	58.2	30.0	65.9	28.3	73.7	20.0	77.9	14.0		
8.0	35.5	25.2	53.6	25.0	62.4	23.7	71.7	19.4	76.4	14.0	79.5	8.0
9.0	24.2	21.3	48.7	20.8	59.1	19.8	69.5	17.9	74.9	14.0	78.0	8.0
10.0			43.6	17.3	55.6	16.6	67.1	16.3	73.3	13.7	77.0	8.0
11.0			37.8	14.5	51.6	14.0	64.9	14.9	71.7	12.5	75.9	8.0
12.0			30.4	12.3	47.6	11.7	62.6	13.3	69.9	11.5	74.7	8.0
13.0			20.9	10.3	43.2	9.9	60.1	11.4	68.3	10.6	73.4	8.0
14.0					38.6	8.5	57.4	9.8	66.5	9.8	72.1	8.0
16.0					26.7	6.1	52.2	7.4	62.9	8.0	69.4	7.4
18.0							46.4	5.7	59.0	6.4	66.5	6.4
20.0							40.1	4.4	54.7	5.1	63.4	5.2
22.0							32.6	3.4	50.6	4.0	60.3	4.3
24.0							23.1	2.5	45.9	3.1	57.1	3.5
26.0									40.8	2.4	53.6	2.8
28.0									35.5	1.9	49.9	2.2
30.0									29.0	1.4	46.2	1.7
32.0									21.2	1.0	42.3	1.3
D) ⁰					18 [°]		32 [°]
				Teles	coping	g condi	tions	(%)				
2nd boom		0		50		00		00	100		1	00
3rd boom		0		0		0		33		66	1	00
4th boom		0		0		0		33	(66	1	00
Top boom		0		0		0		33		66	1	00

A :Boom length (m)

B :Load radius (m)

 ${\bf C}$:Loaded boom angle ($^{\circ})$

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

	ON OUTRIGGERS FULLY EXTENDED 7.2m SPREAD														
	360° ROTATION														
		44.0r	n Boor	n + 9.9	m Jib			44.0n	n Boom	n + 17.7	7m Jib				
С	3.5	' Tilt	25°	Tilt	45°	Tilt	С	3.5	' Tilt	25°	Tilt	45°	Tilt		
	R	W	R	W	R	W		R	W	R	W	R	W		
80°	9.8	4.5	13.7	4.0	16.1	3.4	80°	12.5	2.7	18.3	1.7	22.1	1.0		
75°	15.1	4.5	18.7	3.9	20.3	3.3	75°	18.6	2.7	23.7	1.7	27.1	1.0		
70 [°]	20.0	4.4	23.0	3.4	24.4	3.0	70 [°]	24.2	2.6	28.8	1.7	31.6	1.0		
65°	24.3	3.6	27.2	3.0	28.5	2.7	65°	29.2	2.2	33.6	1.7	35.7	1.0		
60°	28.1	2.4	30.9	2.4	32.0	2.2	60°	33.5	1.7	37.8	1.5	39.4	1.0		
55°	31.8	1.6	34.1	1.5	35.1	1.5	55°	37.4	1.1	41.3	0.9	43.0	0.9		
50°	35.2	1.0	37.1	1.0	37.9	0.9									

	ON OUTRIGGERS FULLY EXTENDED 7.2m SPREAD														
	360° ROTATION														
		35.87	m Boo	m + 9.9	9m Jib				35.87r	n Boor	n + 17.	7m Jib	n Jib		
С	3.5	° Tilt	25°	Tilt	45°	Tilt	С	3.5	° Tilt	25°	' Tilt	45°	Tilt		
	R	W	R	W	R	W		R	W	R	W	R	W		
80°	8.0	5.6	11.6	5.0	13.8	3.8	80 [°]	10.3	3.6	16.5	2.4	20.4	1.5		
75°	12.2	5.6	15.5	4.5	17.5	3.6	75°	15.2	3.6	21.1	2.4	24.4	1.5		
70 [°]	16.3	5.5	19.1	4.0	20.9	3.4	70 [°]	19.8	3.2	25.2	2.1	28.2	1.5		
65°	20.0	4.5	22.6	3.5	24.1	3.0	65°	24.2	2.7	29.1	1.9	31.6	1.5		
60°	23.4	3.8	25.8	3.1	27.1	2.8	60°	28.4	2.3	32.6	1.7	34.7	1.5		
55°	26.7	2.8	28.8	2.5	29.9	2.6	55°	32.1	2.0	36.0	1.6	37.6	1.4		
50°	29.5	2.0	31.5	1.8	32.4	1.9	50°	35.4	1.4	39.0	1.2	40.1	1.1		
45 [°]	32.2	1.4	34.0	1.3	34.6	1.4	45°	38.5	0.9						
40 [°]	34.7	1.0	36.2	0.9											

C :Boom angle ([°]) **R** :Load radius (m)

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

ON OUTRIGGERS MID EXTENDED 6.7m SPREAD												
360° ROTATION (Unit: x 1,000 kg)												
A /	11	l.5m		.56m	19	.62m	27	.75m	35	.87m	44	l.0m
В	С		С		С		С		С		С	
3.0	68.7	70.0	74.8	47.0	78.1	40.0						
3.5	65.9	58.5	72.9	47.0	76.6	40.0						
4.0	63.0	53.6	70.7	47.0	75.0	40.0						
4.5	59.9	49.6	69.0	47.0	73.7	40.0	78.8	20.0				
5.0	57.2	45.1	66.8	43.1	72.1	37.3	77.7	20.0				
5.5	54.0	40.3	64.8	39.1	70.5	34.8	76.8	20.0				
6.0	50.6	36.3	62.7	35.6	69.1	32.8	75.7	20.0	79.6	14.0		
6.5	47.4	32.8	60.6	32.3	67.5	30.7	74.8	20.0	78.7	14.0		
7.0	43.7	29.8	58.4	29.2	65.8	28.2	73.7	20.0	78.0	14.0		
8.0	35.5	24.8	53.7	23.2	62.5	22.8	71.6	19.2	76.4	14.0	79.5	8.0
9.0	24.2	19.1	48.7	18.4	59.0	18.0	69.4	17.7	75.0	14.0	78.4	8.0
10.0			43.7	14.9	55.3	14.6	67.1	15.8	73.3	13.7	77.0	8.0
11.0			37.8	12.4	51.5	12.0	64.7	13.7	71.6	12.5	75.8	8.0
12.0			30.8	10.5	47.5	10.0	62.4	11.6	69.9	11.5	74.7	8.0
13.0			20.8	8.8	43.2	8.4	60.0	10.0	68.1	10.4	73.4	8.0
14.0					38.5	7.1	57.4	8.6	66.5	9.3	72.2	8.0
16.0							51.9	6.5	62.9	7.3	69.4	7.3
18.0							46.2	5.0	58.9	5.6	66.5	6.0
20.0							40.0	3.8	54.6	4.3	63.3	4.8
22.0							32.7	2.9	50.3	3.3	60.1	3.7
24.0							23.3	2.1	45.7	2.5	56.7	2.9
26.0									40.6	1.9	53.2	2.3
28.0									35.0	1.3	49.7	1.7
30.0											45.9	1.2
D				() ^o					18 [°]		32 [°]
					8	g condi	8					
2nd boom 0 50 100 100 100								00				
3rd boom		0		0		0		33		66		00
4th boom		0		0		0		33	66		100	
Top boom		0		0		0		33		66	1	00

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

 $\boldsymbol{\mathsf{C}}$:Loaded boom angle ($^{\circ}$)

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

			ON C	UTRIC		5 MID E 360° RC				′m SPI	READ			
	44.0m Boom + 9.9m Jib 44.0m Boom + 17.7m Jib													
С	3.5	° Tilt	25°	' Tilt	45°	' Tilt		С	3.5	' Tilt	25°	' Tilt	45°	Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
80°	10.0	4.5	13.7	4.0	16.0	3.4		80°	12.5	2.7	18.4	1.7	22.3	1.0
75°	15.1	4.5	18.7	3.9	20.3	3.3		75°	18.6	2.7	23.7	1.7	27.1	1.0
70 [°]	20.0	4.4	23.1	3.4	24.5	3.0		70°	24.3	2.6	28.8	1.7	31.6	1.0
65°	24.2	3.3	27.1	3.0	28.5	2.7		65°	29.2	2.2	33.4	1.6	35.7	1.0
60°	28.0	2.1	30.6	2.0	31.7	1.9		60°	33.2	1.5	37.7	1.3	39.4	1.0
55°	31.6	1.3	34.0	1.2	34.8	1.2	_							

	ON OUTRIGGERS MID EXTENDED 6.7m SPREAD														
	360° ROTATION 35.87m Boom + 9.9m Jib 35.87m Boom + 17.7m Jib														
		35.87	m Boo	m + 9.9	9m Jib				35.87r	n Boor	n + 17.	7m Jib			
С	3.5	° Tilt	25°	' Tilt	45°	Tilt	С	3.5	° Tilt	25°	' Tilt	45°	Tilt		
	R	W	R	W	R	W		R	W	R	W	R	W		
80°	8.0	5.6	11.6	5.0	13.8	3.8	80 [°]	10.3	3.6	16.5	2.4	20.3	1.5		
75°	12.2	5.6	15.4	4.5	17.4	3.6	75°	15.2	3.6	21.1	2.4	24.4	1.5		
70 [°]	16.2	5.5	19.1	4.0	20.9	3.4	70 [°]	19.8	3.2	25.2	2.1	28.2	1.5		
65°	19.9	4.5	22.5	3.5	24.1	3.0	65°	24.2	2.7	29.0	1.9	31.6	1.5		
60°	23.4	3.7	25.8	3.1	27.1	2.8	60°	28.3	2.3	32.6	1.7	34.7	1.5		
55°	26.5	2.6	28.7	2.3	29.8	2.1	55°	31.9	1.7	35.9	1.5	37.5	1.4		
50°	29.4	1.8	31.4	1.6	32.2	1.5	50°	35.3	1.1	38.8	1.0	40.0	0.9		
45°	32.1	1.2	33.8	1.0	34.4	1.0									

C :Boom angle (°)
R :Load radius (m)
W :Rated lifting capacity (Unit: x 1,000 kg)

		ON	OUTF	RIGGER	S MIC	EXTEN	IDED	5.5m SF	PREA	C		
			3	360° RO	TATIC	N (Unit	t: x 1,0	000kg)				
A	11	1.5m	15	.56m	19	.62m	27	.75m	35	.87m	44	l.0m
В	С		С		С		С		С		С	
3.0	69.1	66.3	74.8	47.0	78.2	40.0						
3.5	66.1	58.4	72.7	47.0	76.8	40.0						
4.0	63.2	51.2	71.0	47.0	75.2	40.0						
4.5	60.3	44.6	68.9	46.0	73.8	40.0	78.8	20.0				
5.0	57.1	39.1	66.9	38.7	72.2	34.5	77.8	20.0				
5.5	54.2	34.3	64.8	33.1	70.6	29.8	76.7	20.0				
6.0	50.8	30.1	62.6	28.8	68.9	26.0	75.7	20.0	79.5	14.0		
6.5	47.4	26.3	60.6	25.2	67.4	23.0	74.7	20.0	78.5	14.0		
7.0	44.0	23.0	58.3	22.0	65.7	20.5	73.6	19.8	77.9	14.0		
8.0	35.8	17.7	53.7	17.1	62.2	16.5	71.5	16.3	76.4	14.0	79.4	8.0
9.0	24.2	13.7	48.7	13.6	58.8	13.2	69.2	13.8	74.9	13.3	78.3	8.0
10.0			43.8	11.0	55.3	10.6	67.0	11.7	73.1	11.5	77.2	8.0
11.0			37.9	9.0	51.5	8.6	64.6	10.0	71.4	10.0	75.9	8.0
12.0			30.6	7.4	47.3	7.1	62.1	8.6	69.7	8.8	74.8	8.0
13.0			21.6	6.1	42.9	5.8	59.8	7.3	67.9	7.7	73.3	7.6
14.0					38.3	4.7	57.3	6.2	66.1	6.8	71.7	6.8
16.0							51.9	4.4	62.6	5.2	68.9	5.4
18.0							46.0	3.1	58.4	3.9	66.0	4.2
20.0							39.9	2.2	54.3	2.8	62.8	3.2
22.0							32.2	1.4	49.6	2.0	59.7	2.4
24.0									44.9	1.3	56.4	1.7
26.0											53.0	1.1
D 0) ^o					18°		32 [°]	
				Teles	scopin	g condit	ions (9	%)				
2nd boom		0		50	1	00		100	100		1	00
3rd boom		0		0	0		33		66		100	
4th boom		0 0		0 33			33	66		100		
Top boom		0		0		0		33		66	1	00

A :Boom length (m)

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

	ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION													
		44.0	m Boor	n + 9.9ı		300 NC				44.0r	n Boorr	า + 17.7	'm Jib	
С	3.5	°Tilt	25	Tilt	45	^o Tilt		С	3.5	°Tilt	25	°Tilt	45	^o Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
80°	10.0	4.5	13.7	4.0	16.1	3.4		80°	12.5	2.7	18.2	1.7	22.0	1.0
75°	15.1	4.5	18.7	3.9	20.3	3.3		75°	18.7	2.7	24.0	1.7	27.1	1.0
70 [°]	19.6	3.6	22.9	3.0	24.4	2.9		70 [°]	23.9	2.4	29.0	1.7	31.7	1.0
65°	23.7	2.3	26.6	1.9	27.6	1.8		65°	28.4	1.4	33.3	1.3	35.8	1.0
60 [°]	27.6	1.3	30.1	1.0	30.8	1.0								

	ON OUTRIGGERS MID EXTENDED 5.5m SPREAD													
	360° ROTATION													
	35.87m Boom + 9.9m Jib									35.87	m Boor	n + 17.	7m Jib	
С	3.5	°Tilt	25	^o Tilt	45	^{>} Tilt		С	3.5	°Tilt	25	^{>} Tilt	45 [°]	[°] Tilt
	R	W	R	W	R	W			R	W	R	W	R	W
80°	8.0	5.6	11.6	5.0	13.8	3.8		80°	11.0	3.6	16.5	2.4	20.4	1.5
75°	12.2	5.6	15.4	4.5	17.4	3.6		75°	15.3	3.6	21.1	2.4	24.4	1.5
70 [°]	16.2	5.0	19.2	4.0	20.9	3.4		70 [°]	19.8	3.2	25.2	2.1	28.2	1.5
65°	19.6	3.7	22.5	3.3	24.1	2.8		65°	24.1	2.6	29.0	1.9	31.5	1.5
60 [°]	23.0	2.4	25.5	2.2	26.8	1.9		60°	27.9	1.6	32.4	1.4	34.6	1.2
55°	26.2	1.5	28.5	1.4	29.5	1.2								

C :Boom angle (°)
R :Load radius (m)
W :Rated lifting capacity (Unit: x1,000kg)

		ON	OUT	RIGGER	S MIN	IEXTEN		2.8m SI	PREA	C		
				360° RO	TATIC	DN (Uni	t: x1,0	00kg)				
A	11	1.5m	15	.56m		.62m	27	.75m		.87m	44.0m	
В	С		С		С		С		С		С	
3.0	69.1	38.9	74.8	36.1	78.1	35.2						
3.5	66.1	30.2	72.7	28.4	76.4	27.7						
4.0	63.2	24.2	70.8	22.8	74.9	22.2						
4.5	60.2	19.8	68.7	18.6	73.4	18.2	78.8	19.2				
5.0	57.3	16.5	66.7	15.5	71.8	15.1	77.6	16.4				
5.5	54.1	14.0	64.7	13.1	70.1	12.8	76.5	14.2			_	
6.0	50.8	12.0	62.5	11.2	68.5	10.9	75.5	12.4	79.5	13.2		
6.5	47.6	10.4	60.3	9.6	66.9	9.3	74.4	10.8	78.6	11.6		
7.0	44.0	9.1	58.1	8.3	65.3	8.0	73.3	9.5	77.6	10.3		
8.0	35.9	6.9	53.5	6.2	62.1	5.9	71.0	7.4	76.0	8.1	79.5	8.0
9.0	24.9	5.2	48.8	4.7	58.4	4.4	68.8	5.8	74.3	6.5	78.1	6.9
10.0			43.4	3.5	54.9	3.2	66.4	4.6	72.5	5.2	76.7	5.7
11.0			37.7	2.5	51.1	2.2	64.1	3.6	70.9	4.2	75.3	4.7
12.0			30.7	1.7	46.9	1.4	61.7	2.7	69.2	3.3	73.9	3.8
13.0							59.3	2.0	67.3	2.6	72.4	3.0
14.0							56.6	1.4	65.7	2.0	70.9	2.4
D		()°			38°		46 [°]		54°		62 [°]
				Teles	scopin	g condit	ions (%)				
2nd boom		0	50			00	1	100		100	1	00
3rd boom	om 0 0			0		33		66		100		
4th boom	h boom 0 0				0		33		66		100	
Top boom		0		0		0		33		66	1	00

A :Boom length (m)

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

NOTES FOR "ON OUTRIGGERS" TABLE

- 1. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above bold lines are based on crane strength and those below, on its stability.
- 2. Rated lifting capacities based on crane stability are according to ISO 4305.
- 3. The mass of the hook (850 kg for 70t capacity, 470 kg for 40t capacity, 150 kg for 5.6 t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- 4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reduction for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
- 5. Standard number of parts of line for each boom length is as shown below. Load per line should not surpass 54.9 kN {5,600 kgf} for main winch and auxiliary winch.

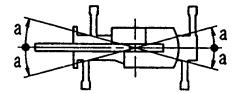
Boom length	11.5m	11.5m to 15.56m	15.56m to 19.62m	19.62m to 27.75m	27.75m to 44.0m	Single top Jib
Number of parts of line	16	12	10	6	4	1

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

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

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

Outriggers extended width	6.7m	5.5m	2.8m
	(middle)	(middle)	(minimum)
Angle a °	30	20	5



RATED LIFTING CAPACITIES

ON RUBBER STATIONARY (Unit: x1,000kg) Over Front 360° Rotation a 11.5m 19.62m 27.75m 11.5m 19.62m 3.0 69.0 33.0 C C C C C 3.0 69.0 33.0 66.2 22.2 1 1 66.0 18.5 1 4.0 63.2 28.1 66.0 18.5 1<	ISO 4305										
A Over Front 360° Rotation B C C C C C C C 3.0 60.0 33.0 66.2 29.3 66.0 18.5 C 3.5 66.2 29.3 66.0 18.5 C C 4.0 63.2 26.1 63.2 14.7 C C 4.5 60.2 23.7 60.0 112.5 C C C 5.5 54.2 19.6 53.7 9.0 C C C S.7.5 C C C S.7.5 S.2.4 R.8.6 S.7.7 L.1 43.8 S.5.5 S.2.4 R.8.8 R.7 R.0 2.3.9 S.1.6 S.8 R.7 R.0 2.3.9 S.6 C C C C C											
A 11.5m 19.62m 27.75m 11.5m 19.62m 3.0 60.0 33.0 66.0 22.2 $\column 3.0 66.2 29.3 66.0 18.5 \column \column $			N RUB				KY (UN		U	,	
B C C C C C C 3.0 69.0 33.0 66.0 18.5 1 3.5 66.2 29.3 66.0 18.5 1 4.0 63.2 26.1 66.0 12.5 1 4.5 60.2 23.7 60.1 12.5 1 5.5 54.2 19.6 53.7 9.0 1 6.0 50.9 17.0 14.0 47.1 6.4 66.9 5.8 7.0 44.1 13.8 65.3 12.1 43.8 5.5 65.2 4.8 8.0 36.2 11.0 22.0 10.1 35.7 4.1 62.0 8.8 5.2 1 12.0 47.7 4.1 61.8 5.2 1 1 14.0 13.0 14.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< td=""><td></td><td></td><td>1.5m</td><td></td><td></td><td></td><td>75m</td><td></td><td></td><td></td><td></td></t<>			1.5m				75m				
3.0 69.0 33.0 66.0 18.5 1 3.5 66.2 29.3 66.0 18.5 1 4.0 63.2 26.1 63.2 14.7 1 4.5 60.2 23.7 60.1 12.5 1 5.0 57.4 21.5 57.1 10.5 1 6.0 50.5 7.5 5 5 66.9 5.8 7.0 44.1 13.8 65.3 12.1 43.8 5.5 65.2 4.8 8.0 36.2 11.0 62.0 10.1 35.7 4.1 62.0 3.5 9.0 25.0 8.8 8.7 8.0 23.9 3.1 58.8 8.2.3 10.0 51.4 5.1 64.3 5.2 1 1 1.8 1 1 13.0 43.7 3.2 59.3 3.6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1.5m 1	_	.02111		.750		.5m		
3.5 66.2 29.3 66.0 18.5 4.0 63.2 26.1 63.2 14.7 14.7 4.5 60.2 23.7 60.1 12.5 15.5 5.0 57.4 21.5 57.1 10.5 57.1 10.5 5.5 54.2 19.6 53.7 9.0 16.0 57.1 10.5 56.2 6.5 47.5 15.4 67.0 14.0 47.1 6.4 66.9 5.8 7.0 44.1 13.8 65.3 12.1 43.8 55 65.2 4.8 8.0 36.2 11.0 62.0 10.1 35.7 4.1 62.0 3.5 9.0 25.0 8.8 58.7 8.0 23.9 3.1 58.8 2.3 11.0 51.4 51.4 64.3 5.2 1 1 10.1 1			33.0						22.2		
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5.0 57.4 21.5 57.1 10.5 53.7 9.0 6.0 50.9 17.0 60.5 53.7 9.0 9.0 6.5 47.5 15.4 67.0 14.0 47.1 6.4 66.9 5.8 7.0 44.1 13.8 65.3 12.1 43.8 5.5 65.2 4.8 8.0 36.2 11.0 62.0 10.1 35.7 4.1 62.0 3.5 9.0 25.0 8.8 58.7 8.0 23.9 3.1 58.8 2.3 10.0 51.4 5.1 64.3 5.2 1 <td></td>											
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6.0 50.9 17.0 50.5 7.5 50.5 6.5 47.5 15.4 67.0 14.0 47.1 6.4 66.9 5.8 7.0 44.1 13.8 65.3 12.1 43.8 5.5 65.2 4.8 8.0 36.2 11.0 62.0 10.1 35.7 4.1 62.0 3.5 9.0 25.0 8.8 58.7 8.0 23.9 3.1 58.8 58.7 8.0 23.9 3.1 58.8 58.7 8.0 10.0 11.0 51.4 5.1 64.3 5.2 10.0 10.0 10.0 10.0 10.0 10.0 11.0 13.0 43.7 3.2 59.3 3.6 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 11.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0											
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16.0 52.3 2.0 18° D 0° 18° Telescoping conditions (%) 2nd boom 0 100 100 0 100 3rd boom 0 0 33 0 0 3rd boom 0 0 33 0 0 Top boom 0 0 33 0 0 ON RUBBER CREEP (Unit: x1,000kg) OVer Front 360° Rotation A 11.5m 19.62m 27.75m 11.5m 19.62m 3.0 69.0 25.5 66.0 14.7 19.62m B C C C C C C 3.1 20.0 66.1 68.9 17.1 1 1 3.5 66.0 22.5 66.0 14.7 1 1 4.0 63.3 12.7 1 1 1 1 4.0 63.3	13.0)		43.7		59.3	3.6				
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4.5 60.3 17.9 60.1 10.6 57.3 8.8 57.5 57.5 57.3 66.5 57.0 57.4 12.3 67.1 11.7 47.1 5.6 66.8 5.0 57.4 8.0 35.3 9.6 62.1 9.0 35.5 3.7 61.9 3.0 9.0 24.7 2.7 58.3 2.1 10.0 10.0 55.2 5.7 66.5 5.5 5.5 10.1 11.0 11.0 51.4 4.6 64.2 4.8 <t< td=""><td>3.0</td><td>C 69.0</td><td>1.5m 25.5</td><td>Ove 19</td><td>ER CR</td><td>EEP 27</td><td>(Unit: ></td><td>11 C 68.9</td><td>0kg) 360[°] R .5m 17.1</td><td>19</td><td>on</td></t<>	3.0	C 69.0	1.5m 25.5	Ove 19	ER CR	EEP 27	(Unit: >	11 C 68.9	0kg) 360 [°] R .5m 17.1	19	on
5.0 56.9 16.3 57.3 8.8 5.5 54.0 14.8 53.9 7.5 6.0 50.6 13.5 50.8 6.5 6.5 47.4 12.3 67.1 11.7 47.1 5.6 66.8 5.0 7.0 43.6 11.3 65.5 10.7 43.8 4.9 65.1 4.2 8.0 35.3 9.6 62.1 9.0 35.5 3.7 61.9 3.0 9.0 24.1 8.0 58.6 7.1 24.7 2.7 58.3 2.1 10.0 51.4 4.6 64.2 4.8 11.0 51.4 4.6 64.2 4.8 13.0 43.8 2.9 59.5 3.5 14.0 39.1 2.2 57.1 2.9 16.0 52.2 2.0 <td>3.0 3.5</td> <td>69.0</td> <td>1.5m 25.5 22.5</td> <td>Ove 19</td> <td>ER CR</td> <td>EEP 27</td> <td>(Unit: ></td> <td>11 C 68.9 66.0</td> <td>0kg) 360[°] R .5m 17.1 14.7</td> <td>19</td> <td>on</td>	3.0 3.5	69.0	1.5m 25.5 22.5	Ove 19	ER CR	EEP 27	(Unit: >	11 C 68.9 66.0	0kg) 360 [°] R .5m 17.1 14.7	19	on
5.5 54.0 14.8 53.9 7.5 6.0 50.6 13.5 50.8 6.5 6.5 47.4 12.3 67.1 11.7 47.1 5.6 66.8 5.0 7.0 43.6 11.3 65.5 10.7 43.8 4.9 65.1 4.2 8.0 35.3 9.6 62.1 9.0 35.5 3.7 61.9 3.0 9.0 24.1 8.0 58.6 7.1 24.7 2.7 58.3 2.1 10.0 1 51.4 4.6 64.2 4.8 11.0 51.4 4.6 64.2 4.8 <td>3.0 3.5 4.0</td> <td>C 69.0 66.0</td> <td>1.5m 25.5 22.5 20.0</td> <td>Ove 19</td> <td>ER CR</td> <td>EEP 27</td> <td>(Unit: ></td> <td>11 C 68.9 66.0 63.3</td> <td>0kg) 360° R .5m 17.1 14.7 12.7</td> <td>19</td> <td>on</td>	3.0 3.5 4.0	C 69.0 66.0	1.5m 25.5 22.5 20.0	Ove 19	ER CR	EEP 27	(Unit: >	11 C 68.9 66.0 63.3	0kg) 360° R .5m 17.1 14.7 12.7	19	on
6.0 50.6 13.5 50.8 6.5 6.5 47.4 12.3 67.1 11.7 47.1 5.6 66.8 5.0 7.0 43.6 11.3 65.5 10.7 43.8 4.9 65.1 4.2 8.0 35.3 9.6 62.1 9.0 35.5 3.7 61.9 3.0 9.0 24.1 8.0 58.6 7.1 24.7 2.7 58.3 2.1 10.0 55.2 5.7 66.5 5.5 11.0 51.4 4.6 64.2 4.8 12.0 47.6 3.7 61.7 4.1 13.0 43.8 2.9 59.5 3.5 14.0 39.1 2.2 57.1 2.9 16.0	3.0 3.5 4.0 4.5	69.0 66.0 63.1 60.3	1.5m 25.5 22.5 20.0 17.9	Ove 19	ER CR	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1	0kg) 360° R .5m 17.1 14.7 12.7 10.6	19	on
6.5 47.4 12.3 67.1 11.7 47.1 5.6 66.8 5.0 7.0 43.6 11.3 65.5 10.7 43.8 4.9 65.1 4.2 8.0 35.3 9.6 62.1 9.0 35.5 3.7 61.9 3.0 9.0 24.1 8.0 58.6 7.1 24.7 2.7 58.3 2.1 10.0 55.2 5.7 66.5 5.5 $ 11.0$ 51.4 4.6 64.2 4.8 $ 12.0$ 47.6 3.7 61.7 4.1 $ 13.0$ 43.8 2.9 59.5 3.5 $ 14.0$ 39.1 2.2 57.1 2.9 $ 16.0$ $ 52.2$ 2.0 $ 16.0$ $ 16.0$	3.0 3.5 4.0 4.5 5.0	C 69.0 66.0 63.1 60.3 56.9	1.5m 25.5 22.5 20.0 17.9 16.3	Ove 19	ER CR	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1 57.3	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8	19	on
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.0 3.5 4.0 4.5 5.0 5.5	C 69.0 66.0 63.1 60.3 56.9 54.0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8	Ove 19	ER CR	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1 57.3 53.9	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5	19	on
8.0 35.3 9.6 62.1 9.0 35.5 3.7 61.9 3.0 9.0 24.1 8.0 58.6 7.1 24.7 2.7 58.3 2.1 10.0 55.2 5.7 66.5 5.5 11.0 51.4 4.6 64.2 4.8 12.0 47.6 3.7 61.7 4.1 13.0 43.8 2.9 59.5 3.5 14.0 39.1 2.2 57.1 2.9 16.0 52.2 2.0	3.0 3.5 4.0 4.5 5.0 5.5 6.0	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5	Ove 19 C	ER CR r Front .62m	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5	19 C	on .62m
9.0 24.1 8.0 58.6 7.1 24.7 2.7 58.3 2.1 10.0 55.2 5.7 66.5 5.5 11.0 51.4 4.6 64.2 4.8 12.0 47.6 3.7 61.7 4.1 13.0 43.8 2.9 59.5 3.5 14.0 39.1 2.2 57.1 2.9 16.0 0 52.2 2.0	$ \begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ \end{array} $	C 69.0 63.1 60.3 56.9 54.0 50.6 47.4	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3	Ove 19 C	ER CR r Front .62m 	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6	19 C	5.0
10.0 55.2 5.7 66.5 5.5 Image: constraint of the state o	$ \begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ 7.0 \end{array} $	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3	Ove 19 C	ER CR r Front .62m 	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9	19 C	5.0 4.2
11.0 51.4 4.6 64.2 4.8 Image: constraint of the state o	$\begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ 7.0\\ 8.0\\ \end{array}$	C 69.0 66.1 63.1 60.3 556.9 54.0 50.6 47.4 43.6 35.3	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1	ER CR r Front .62m .11.7 10.7 9.0	EEP 27	(Unit: >	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C 66.8 65.1 61.9	5.0 5.0 5.0
12.0 47.6 3.7 61.7 4.1 13.0 43.8 2.9 59.5 3.5 14.0 39.1 2.2 57.1 2.9 16.0 52.2 2.0 0 0° 52.2 2.0 0 100 100 0 100 100 2nd boom 0 100 100 0 100 0 3rd boom 0 0 33 0 0 0	$\begin{array}{r} 3.0 \\ 3.5 \\ 4.0 \\ 4.5 \\ 5.0 \\ 5.5 \\ 6.0 \\ 6.5 \\ 7.0 \\ 8.0 \\ 9.0 \end{array}$	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3 24.1	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1 58.6	ER CR r Front .62m 11.7 10.7 9.0 7.1	27 C	(Unit: > .75m	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C 66.8 65.1 61.9	5.0 5.0 5.0
13.0 43.8 2.9 59.5 3.5 Image: constraint of the system of the s	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0 10.0	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 24.1	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1 58.6 55.2	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7	EEP 27 C 66.5	(Unit:) .75m 5.5	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C 66.8 65.1 61.9	5.0 5.0 5.0
16.0 52.2 2.0 18° D 0° 18° Telescoping conditions (%) 2nd boom 0 100 100 100 3rd boom 0 0 33 0 0 4th boom 0 0 33 0 0	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0 10.0 11.0	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 24.1 0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6	EEP 27 C 66.5 64.2 61.7	(Unit:) .75m 5.5 4.8	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C 66.8 65.1 61.9	5.0 5.0 5.0
D 0° 18° Telescoping conditions (%) 2nd boom 0 100 100 100 3rd boom 0 0 33 0 0 4th boom 0 0 33 0 0	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0 10.0 11.0 12.0 13.0	C 69.0 66.1 63.1 60.3 556.9 54.0 50.6 47.4 43.6 35.3 24.1 0 0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9	EEP 27 C 66.5 64.2 61.7 59.5	(Unit:) .75m 5.5 4.8 4.1 3.5	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C 66.8 65.1 61.9	5.0 5.0 5.0
Telescoping conditions (%) 2nd boom 0 100 100 100 3rd boom 0 0 33 0 0 4th boom 0 0 33 0 0	$\begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ 7.0\\ 8.0\\ 9.0\\ 10.0\\ 11.0\\ 12.0\\ 13.0\\ 14.0\end{array}$	C 69.0 66.1 63.1 60.3 556.9 54.0 50.6 47.4 43.6 35.3 24.1 0 0 0 0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9	EEP 27 C 66.5 64.2 61.7 59.5 57.1	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C 66.8 65.1 61.9	5.0 5.0
2nd boom 0 100 100 0 100 3rd boom 0 0 33 0 0 0 4th boom 0 0 33 0 0 0	$\begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ 7.0\\ 8.0\\ 9.0\\ 10.0\\ 11.0\\ 12.0\\ 13.0\\ 14.0\end{array}$	C 69.0 66.1 63.1 60.3 556.9 54.0 50.6 47.4 43.6 35.3 24.1 0 0 0 0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9 2.2	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C	5.0 4.2 3.0 2.1
3rd boom 0 0 33 0 0 4th boom 0 0 33 0 0	$\begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ 7.0\\ 8.0\\ 9.0\\ 10.0\\ 11.0\\ 12.0\\ 13.0\\ 14.0\\ 16.0\end{array}$	C 69.0 66.1 63.1 60.3 556.9 54.0 50.6 47.4 43.6 35.3 24.1 0 0 0 0	1.5m 25.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6 8.0	Ove 19 C 67.1 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9 2.2	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2 °	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9 2.0	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5 24.7 	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C	5.0 4.2 3.0 2.1
4th boom 0 0 33 0 0	$\begin{array}{r} 3.0\\ 3.5\\ 4.0\\ 4.5\\ 5.0\\ 5.5\\ 6.0\\ 6.5\\ 7.0\\ 8.0\\ 9.0\\ 10.0\\ 11.0\\ 12.0\\ 13.0\\ 14.0\\ 16.0\end{array}$	C 69.0 66.1 63.1 60.3 556.9 54.0 50.6 47.4 43.6 35.3 24.1 0 0 0 0	1.5m 25.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6 8.0	Ove 19 C 67.1 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9 2.2	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2 ° cond	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9 2.0 ditions	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5 24.7 	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7	19 C	5.0 4.2 3.0 2.1
	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 16.0 D	C 69.0 66.0 63.1 60.3 56.5 54.0 50.6 47.4 43.6 35.3 24.1 0 0 0 0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6 8.0	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1 Teles	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9 2.2 Copping	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2 0° 1 cone	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9 2.0 ditions 00	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5 24.7 	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7 2.7 	19 C 66.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1
Top boom 0 0 33 0 0	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 14.0 2nd boo	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 24.1 0 0 0 0 0 0 0 0 0 0 0 0 0	1.5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6 8.0	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1 Teles	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9 2.2 00 00 0	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2 ° 1 cone 1	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9 2.0 ditions 00 33	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5 24.7 	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7 2.7 2.7 0 0 0	19 C 66.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1 18°
	3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 13.0 2nd boc 3rd boc 4th boc	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3 24.1 0	1.5m 25.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3 9.6 8.0 0 0 0 0	Ove 19 C 67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1 Teles	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7 2.9 2.2 (coping 00 0 0 0	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2 0° Cond	(Unit:) .75m 5.5 4.8 4.1 3.5 2.9 2.0 ditions 00 33 33	11 C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5 24.7 	0kg) 360° R .5m 17.1 14.7 12.7 10.6 8.8 7.5 6.5 5.6 4.9 3.7 2.7 2.7 0 0 0 0 0 0	19 C 66.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1 18° 00 0 0 0

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

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

NOTES FOR "ON RUBBER" TABLES

- 1. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface, with suspension lock applied. Those above bold lines are based on tire capacity and those below, on crane stability. They are based on actual working radii increased by tire deformation and boom deflection.
- 2. Rated lifting capacities based on crane stability are according to ISO 4305.
- 3. The mass of the hook (850 kg for 70t capacity, 470 kg for 40t capacity, 150 kg for 5.6t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- 4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
- 5. On tires lifting with "jib" is not permitted. Maximum permissible boom length is 27.75 m (over front) and 19.62 m (360° rotation).
- 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 0.41 MPa {4.2 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.

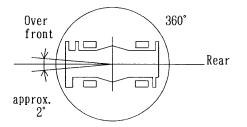
Load per line should not surpass 54.9 kN {5,600 kgf} for main winch and auxiliary winch.

Boom length	Ov	360° Rotation			
Boomiengin	11.5m	19.62m	27.75m	11.5m	19.62m
Number of parts of line (Single top)	8(Stationary) 6(Creep) (1)	4 (1)	4 (1)	6 (1)	4 (1)

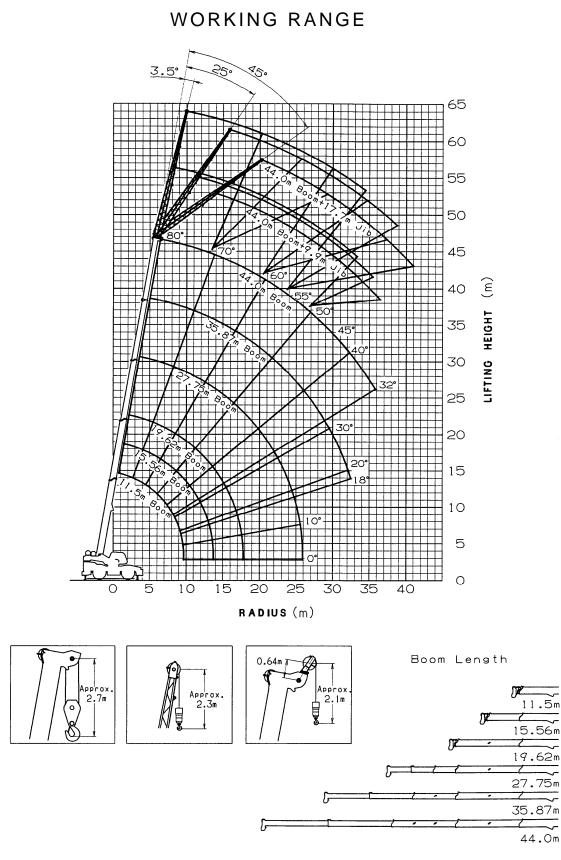
The lifting capacity data stored in the AUTOMATIC MOMENT LIMITER (AML-L) is based on the standard number of parts of line listed in the chart.

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

WORKING AREA

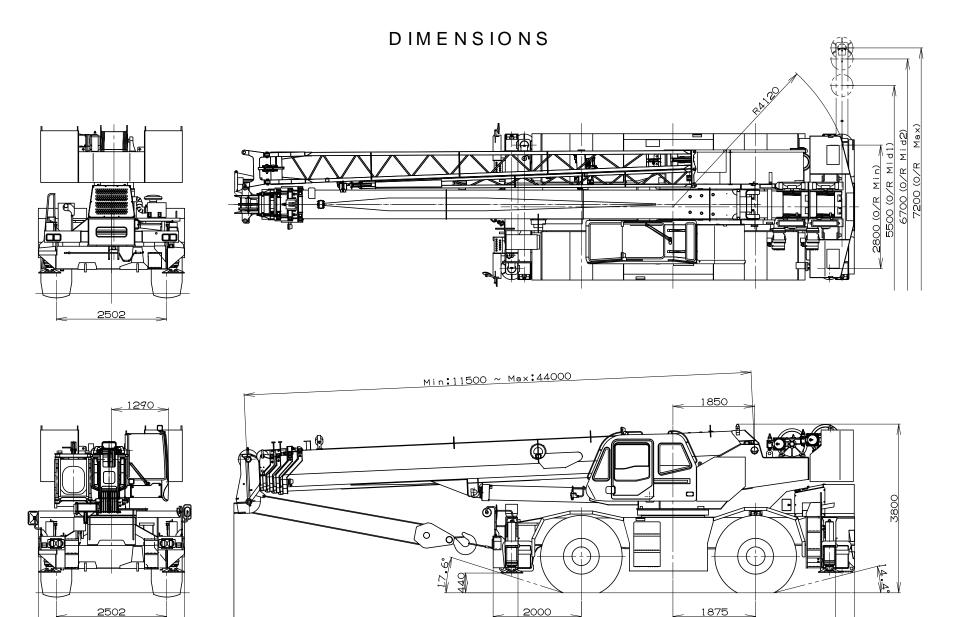


Without outriggers "Over front" operation should be performed within 2 degrees in front of chassis.



NOTE: The above lifting height and boom angle are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

The above working range is shown on condition with outriggers fully (7.2m) extended.



14075

7880

- 18 -

3315

Note : Dimension is with boom angle at -2° .

2245

3950

7200

GR-700EX Axle Weight Distribut	tion Chart		UNIT : kg
	GVW	Front	Rear
Basic standard machine includes: 5-section boom (11.5 m - 44.0 m) 2-stage jib (9.9 m, 17.7 m) 29.5-25 22PR tires Single top 5.6t hook ball	48,315	24,695	23,620
Add: 1. 70t 8 sheaves hook block 2. 40t 4 sheaves hook block 3. Hot water cab heater and air conditioner	+850 +470 + 97	+1,530 +850 + 31	-680 -380 + 66
Remove: 1. 2-stage jib (9.9 m, 17.7 m) 2. Removable counterweight	-1,138 -7,900	-2,006 +3,400	+868 -11,300