

SPEC. SHEET No.GR-700E-1-00102/EX-11DATEOctober, 2003

#### TADANO ROUGH TERRAIN CRANE

# MODEL : GR-700EXL

(Left-hand steering)

## GENERAL DATA

**CRANE CAPACITY** 70,000 kg at 3.0 m **BOOM** 5-section, 11.5 m --- 44.0 m DIMENSION **Overall length** approx. 14,230 mm Overall width 3,315 mm approx. **Overall height** approx. 3,800 mm MASS Gross vehicle mass 48,100 kg approx. -front axle 24,700 kg approx. -rear axle approx. 23,400 kg PERFORMANCE Max. traveling speed computed 40 km/h \* Gradeability (tan  $\theta$ ) computed 57% (at stall)

\* Machine should be operated within the limit of engine crankcase design (30° : MMC 6D16-TLU2A).

# CRANE SPECIFICATIONS

MODEL	GR-700EXL
<u>CAPACITY</u>	70,000 kg at 3.0 m
BOOM	<ul> <li>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.</li> <li>Hydraulic cylinders fitted with holding valves.</li> <li>Fully retracted length 11.5 m</li> <li>Fully extended length</li></ul>
<u>JIB</u>	Two staged swingaround boom extension. Triple offset (3.5°/25°/45°) type. Stores alongside base boom section. Assistant cylinders for mounting and stowing. Single sheave at jib head. 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.
<u>SWING</u>	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 min <sup>-1</sup> {rpm}
HYDRAULIC SYSTEM	Pumps 2 variable piston pumps for telescoping, elevating and winches.
	Tandem gear pump for steering, swing and optional equipment.
	Control 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
	FiltersReturn line filter
CRANE CONTROL	By 4 control levers for swing, boom hoist, main winch, boom telescoping
	or auxiliary winch with 2 control pedals for boom hoist and boom
	telescoping based on ISO standard layout. Control lever stands can
	change neutral positions and tilt for easy access to cab.

<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) Mass 7,900 kg

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

# CARRIER SPECIFICATIONS

TYPE	Rear engine, left-hand steering, driving axle 2-way selected type (by manual switch). 4 x 2 front drive 4 x 4 front and rear drive
FRAME	High-tensile steel, all welded mono-box construction.
<u>ENGINE</u>	<ul> <li>Model MITSUBISHI 6D16-TLU2A [EUROMOT Stage 2]</li> <li>Type 4 cycle, turbo charged and after cooled, 6 cylinder in line, direct injection, water cooled diesel engine.</li> <li>Piston displacement 7,545 cm<sup>3</sup></li> <li>Bore x stroke 118 mm x 115 mm</li> <li>Max. output 166 kW {225 PS} at 2,700 min<sup>-1</sup> {rpm}</li> <li>Max. torque</li></ul>
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
<u>AXLES</u>	<ul><li>Front Full floating type, steering and driving axle with planetary reduction.</li><li>Rear Full floating type, steering and driving axle with planetary reduction.</li><li>Non-spin differential.</li></ul>
<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	<ul> <li>Service Air over hydraulic disc brakes on all 4 wheels.</li> <li>Parking / Emergency Spring applied-air released brake acting on input shaft of front axle.</li> <li>AuxiliaryElectro-pneumatic operated exhaust brake.</li> </ul>
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 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
	Air dryer Water separator with filter Engine over-run alarm Hydraulic lockout suspension Non-spin differential (Rear) Towing eyes - front and rear
<u>OPTIONAL EQUIPMENT</u>	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 OL	JTRIG	GERS	FULL	Y EXTI	ENDE	D 7.2m	SPR	EAD		
			36	0 <sup>°</sup> ROT	ATIO	N (Uni	t: x 1,	000 kg)	)			
Α		l.5m		.56m		.62m		.75m		.87m	44.0m	
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							
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			-	(	) <sup>o</sup>		-			18 <sup>°</sup>		32°
				Teles	copin	g condi	tions	(%)				
2nd boom		0 50				00	100		100		1	00
3rd boom		0		0		0		33		66	1	00
4th boom		0 0		0		0		33	66		100	
Top boom		0		0		0		33	66		100	

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													
44.0m Boom + 9.9m Jib 44.0m Boom + 17.7m Jib														
С	3.5 <sup>°</sup>	' Tilt	25°	Tilt	45°	Tilt	C	3.5 <sup>°</sup>	<sup>°</sup> 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 <sup>°</sup>	20.0	4.4	23.0	3.4	24.4	3.0	70 <sup>°</sup>	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														
					3	$860^{\circ} RC$	OTATIO	N							
		35.87	m Boo	m + 9.9	9m Jib				35.87r	n Boor	n + 17.	7m Jib	ib		
С	3.5° Tilt		3.5° Tilt 25° Tilt 45° Tilt		Tilt	С	3.5 <sup>°</sup>	° 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 <sup>°</sup>	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 <sup>°</sup>	16.3	5.5	19.1	4.0	20.9	3.4	70 <sup>°</sup>	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 C	UTRI	GGER	S MID	EXTE	NDED	0 6.7m \$	SPRE	AD			
			7	0° ROT	7		7						
Α		l.5m		.56m		.62m		.75m		.87m	44.0m		
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				(	) <sup>o</sup>					18 <sup>°</sup>		32 <sup>°</sup>	
						g condi	1						
2nd boom		0		50	1	00		00		00	100		
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 ( ° ) for indicated length (no load)

	ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION													
	44.0m Boom + 9.9m Jib 44.0m Boom + 17.7m Jib													
С	3.5	° Tilt	25°	Tilt	45°	' Tilt		С	3.5	<sup>o</sup> 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	ΙC	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	Į	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	ΙC	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	Į	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												1	
С										° Tilt		' Tilt		Tilt
	R	W	R	W	R	W	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							
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 <sup>°</sup>	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 MID	EXTEN	IDED	5.5m SF	PREA	)		
			3	360° RO	TATIC	N (Unit	t: x 1,0	000kg)				
A	1'	1.5m	15	.56m	19	.62m	27	.75m	35	.87m	44.0m	
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				C	) <sup>o</sup>					18°		32 <sup>°</sup>
				Teles	scopin	g condit	ions (S	%)				
2nd boom		0		50	1	00	1	00	1	100	1	00
3rd boom		0	0			0	33		66		100	
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)
C :Loaded boom angle (°)
D :Minimum boom angle (°) for indicated length (no load)

	ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION													
44.0m Boom + 9.9m Jib 44.0m Boom + 17.7m Jib														
С	3.5	°Tilt	25	Tilt	45	<sup>o</sup> Tilt		С	3.5	°Tilt	25	°Tilt	45	<sup>o</sup> 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 <sup>°</sup>	19.6	3.6	22.9	3.0	24.4	2.9		70 <sup>°</sup>	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 <sup>°</sup>	27.6	1.3	30.1	1.0	30.8	1.0								

	ON OUTRIGGERS MID EXTENDED 5.5m SPREAD													
	360° ROTATION													
		35.87	'm Boo	m + 9.9	)m Jib					35.87	m Boor	n + 17.	7m Jib	
С	3.5	°Tilt	25	<sup>&gt;</sup> Tilt	45	°Tilt		С	3.5	°Tilt	25	°Tilt	45	<sup>&gt;</sup> 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 <sup>°</sup>	16.2	5.0	19.2	4.0	20.9	3.4		70 <sup>°</sup>	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 OUTRIGGERS MIN EXTENDED 2.8m SPREAD											
	360° ROTATION (Unit: x1,000kg)											
	<b>A</b> 1	1.5m	15	.56m	19.62m		27	.75m	35	.87m	44.0m	
в	C		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			0 <sup>°</sup>			38°		46 <sup>°</sup>		54°		62°
				Teles	scopin	g condit	ions (	%)				
2nd boo	m	0		50	1	100	1	100	100		100	
3rd boo	m	0		0		0		33	66		100	
4th boo	m	0		0		0		33	66		100	
Top boo	m	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 <b>a</b> °	30	20	5



## **RATED LIFTING CAPACITIES**

				ISO	430	)5				
	ON RUBBER STATIONARY (Unit: x1,000kg)									
				r Front		(-		360° R	,	n
	11	.5m		.62m	27	.75m		.5m		.62m
в	С		C		С		C		C	
3.0	69.0	33.0						22.2		
3.5	66.2	29.3						18.5		
4.0	63.2	26.1					63.2	14.7		
4.5	60.2	23.7					60.1	12.5		
5.0	57.4	21.5					57.1	10.5		
5.5	54.2	19.6					53.7	9.0		
6.0	50.9	17.0					50.5	7.5		
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	2.3
10.0			54.9	6.5	66.6	6.1				
11.0			51.4	5.1	64.3	5.2				
12.0			47.7	4.1	61.8					
13.0			43.7		59.3					
14.0			39.0	2.5	57.0					
16.0					52.3	2.0				
D				-	) <sup>o</sup>				1	8°
				coping			(%)			
2nd boom		0	1	100		00		0	1	00
3rd boom		0		0		33	0		0	
4th boom		0		0		33		0		0
Top boom	oom 0 0 33 0					~ ~		2		
p		0		0		33		0		0
			UBBE				(1,00			0
				ER CR				0kg)	otatio	-
		ON R	Ove	ER CR r Front	EEP	(Unit: >		0kg) 360° R		on
A	11		Over 19	ER CR	EEP 27		11	0kg)	19	-
AB	11 <b>C</b>	ON R	Ove	ER CR r Front	EEP	(Unit: >	11 <b>C</b>	0kg) 360° R .5m		on
<b>B</b> 3.0	11 <b>C</b> 69.0	ON R .5m 25.5	Over 19	ER CR r Front	EEP 27	(Unit: >	11 <b>C</b> 68.9	0kg) 360 <sup>°</sup> R .5m 17.1	19	on
<b>B</b> 3.0 3.5	11 <b>C</b> 69.0 66.0	ON R .5m 25.5 22.5	Over 19	ER CR r Front	EEP 27	(Unit: >	11 <b>C</b> 68.9 66.0	0kg) 360° R .5m 17.1 14.7	19	on
<b>B</b> 3.0 3.5 4.0	11 <b>C</b> 69.0 66.0 63.1	ON R .5m 25.5 22.5 20.0	Over 19	ER CR r Front	EEP 27	(Unit: >	11 <b>C</b> 68.9 66.0 63.3	0kg) 360 <sup>°</sup> R .5m 17.1 14.7 12.7	19	on
<b>B</b> 3.0 3.5 4.0 4.5	11 <b>C</b> 69.0 66.0 63.1 60.3	ON R .5m 25.5 22.5 20.0 17.9	Over 19	ER CR r Front	EEP 27	(Unit: >	11 <b>C</b> 68.9 66.0	0kg) 360° R .5m 17.1 14.7 12.7 10.6	19	on
<b>B</b> 3.0 3.5 4.0	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9	ON R .5m 25.5 22.5 20.0 17.9 16.3	Over 19	ER CR r Front	EEP 27	(Unit: >	11 <b>C</b> 68.9 66.0 63.3 60.1	0kg) 360° R .5m 17.1 14.7 12.7 10.6	19	on
<b>B</b> 3.0 3.5 4.0 4.5 5.0 5.5	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0	ON R .5m 25.5 22.5 20.0 17.9 16.3 14.8	Over 19	ER CR r Front	EEP 27	(Unit: >	11 <b>C</b> 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
<b>B</b> 3.0 3.5 4.0 4.5 5.0	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6	ON R .5m 25.5 22.5 20.0 17.9 16.3 14.8 13.5	Ove	ER CR r Front .62m	EEP 27	(Unit: >	11 <b>C</b> 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 <b>C</b>	on .62m
<b>B</b> 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5	11 69.0 66.0 63.1 60.3 56.9 54.0 54.0 54.0 47.4	ON R .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 <b>C</b> 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	19 C	on
<b>B</b> 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0	11 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6	ON R 25.5 22.5 20.0 17.9 16.3 14.8 13.5 12.3 11.3	Ove 19 C 67.1 65.5	ER CR r Front .62m	EEP 27	(Unit: >	11 <b>C</b> 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	19 C	5.0 4.2
<b>B</b> 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0	11 69.0 66.0 63.1 60.3 56.9 54.0 54.0 54.0 47.4	ON R 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 <b>C</b> 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	19 C 66.8 65.1 61.9	5.0
<b>B</b> 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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 <b>C</b> 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 3.7	19 C	5.0 4.2 3.0
<b>B</b> 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 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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	(Unit: ) .75m 5.5	11 <b>C</b> 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 4.2 3.0
<b>B</b> 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	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6	EEP 27 C 66.5 64.2	(Unit: ) .75m 5.5 4.8	11 <b>C</b> 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 4.2 3.0
<b>B</b> 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	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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 3.7	EEP 27 C 66.5 64.2 61.7	(Unit: ) .75m 5.5 4.8 4.1	11 <b>C</b> 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 4.2 3.0
<b>B</b> 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	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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	ER CR r Front .62m 11.7 10.7 9.0 7.1 5.7 4.6 3.7	EEP 27 C 66.5 64.2	(Unit: ) .75m 5.5 4.8	11 <b>C</b> 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 4.2 3.0
<b>B</b> 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	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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 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 <b>C</b> 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 4.2 3.0
<b>B</b> 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	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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 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	(Unit: ) .75m 5.5 4.8 4.1 3.5 2.9	11 <b>C</b> 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 <b>C</b> 66.8 65.1 61.9 58.3 	5.0 4.2 3.0 2.1
<b>B</b> 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	11 <b>C</b> 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	ON R 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	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 <b>C</b> 68.9 66.0 63.3 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 <b>C</b> 66.8 65.1 61.9 58.3 	5.0 4.2 3.0
<b>B</b> 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 <b>D</b>	11 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3 24.1	ON R 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 0 ccoping	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 <b>C</b> 68.9 66.0 63.3 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 <b>C</b> 666.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1
<b>B</b> 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 <b>D</b> 2nd boom	11 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3 24.1	ON R 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	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	11 <b>C</b> 68.9 66.0 63.3 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 0	19 <b>C</b> 666.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1 18°
<b>B</b> 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 <b>D</b> 2nd boom 3rd boom	11 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3 24.1	ON R 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 ° cond 1	(Unit: ) .75m 5.5 4.8 4.1 3.5 2.9 2.0 ditions 00 33	11 <b>C</b> 68.9 66.0 63.3 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 <b>C</b> 666.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1 18° 00 0
<b>B</b> 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 <b>D</b> 2nd boom	11 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3 24.1	ON R 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	EEP 27 C 66.5 64.2 61.7 59.5 57.1 52.2 ° Conc 1	(Unit: ) .75m 5.5 4.8 4.1 3.5 2.9 2.0 ditions 00	11 <b>C</b> 68.9 66.0 63.3 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 0	19 <b>C</b> 666.8 65.1 61.9 58.3	5.0 4.2 3.0 2.1 18°

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

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

**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/cm<sup>2</sup>}.
- 10. For CREEP operation, set Drive select switch to "4-WHEEL(Lo)" and set gear shift lever to "1".
- 11. Standard number of parts of line for on tires operation should be according to the following table.

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

Boom length	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.









GR-700EXL Axle Weight Distrib	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) Mitsubishi 6D16-TLU2A 29.5-25-22PR tires Single top 5.6 ton hook ball	48,100	24,700	23,400
Add: 1. 70 ton 8 sheaves hook block 2. 40 ton 4 sheaves hook block	+850 +470	+1,530 +850	-680 -380
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