



TADANO HYDRAULIC ROUGH TERRAIN CRANE

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

GR-700EXL

Left hand steering

GENERAL DATA

CRANE CAPACITY	70,00	00 kg at 3.0 m
BOOM	5-section, 1	1.5 m - 44.0m
DIMENSION		
Overall length	approx.	14,230 mm
Overall width	approx.	3,315 mm
Overall height	approx.	3,800 mm
MASS		
Gross vehicle mass	approx.	48,100 kg
-front axle	approx.	24,700 kg
-rear axle	approx.	23,400 kg
PERFORMANCE		
Max. travelling speed	computed	40 km/h
Gradeability(tan θ)	computed	57 % (at stall)

CRANE SPECIFICATIONS

MODEL

GR-700EXL

CAPACITY

70,000 kg at 3.0 m

BOOM

5-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 length11.5 m Fully extended length44.0 m Extension speed32.5 m in 145 s

JIB

2-staged swingaround boom extension. Triple offset (3.5°/25°/45°) type. Stores alongside base boom section. Single sheave at jib head.

Assistant cylinders for mounting and stowing.

Length......9.9 m and 17.7 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.....-2° to 80° in 77 s

HOIST-Main winch

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

Equipped with automatic brake (Neutral brake) and counterbalance valve. Controlled independently of auxiliary winch.

Single line pull54.9 kN {5,600 kgf} Single line speed......143 m/min (at the 4th layer) Wire rope.....Spin-resistant type Diameter x length19 mm x 247 m

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CRANE SPECIFICATIONS

SPEC. SHEET No. GR-700E-1-00102/FX-11

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.

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 speed2.3 min⁻¹ {rpm}

HYDRAULIC SYSTEM

Pumps2	2 variable piston pumps for telescoping,	ele-
,	vating and winches.	
	Fandem gear pump for steering, swing a	nd
(optional equipment.	
Control valves	Multiple valves actuated by pilot pressure	е
,	with integral pressure relief valves.	
Circuit	Equipped with air cooled type oil cooler.	
(Oil pressure appears on AML display for	
r	main circuit.	
Hydraulic oil tank c	apacity	
á	approx. 740 liters	
Filters	Return line filter	

CRANE CONTROL

By 4 control levers for swing, boom hoist, main winch, boom telescoping or auxiliary winch with 2 control pedals for boom hoist and boom telescoping based on ISO standard layout. Control lever stands can change neutral positions and tilt for easy access to cab.

CAB

Both crane and drive operations can be performed from one cab mounted on rotating superstructure. One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side. Door window is powered control.

Operator's 3 way adjustable seat with headrest and armrest.

TADANO Automatic Moment Limiter (Model:AML-L)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions before overload.

With working range (load radius and/or boom angle and/or tip height and/or swing range) limit function.

Nine functions are constantly 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 and torque converter oil 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	7,200 mm
Middle	₃6,700 mm
Middle	5,500 mm
Minimum	2,800 mm
Float size(Diameter)	500 mm

COUNTERWEIGHT

Integral with swing	g frame (containing removab	le weight)
Mass	7,900 kg	

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



CARRIER SPECIFICATIONS

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

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.

Model......MITSUBISHI 6D16-TLU2A [EUROMOT Stage 2] Type......4 cycle, 6 cylinder in line, direct injection, water cooled, turbo charged with intercooler, diesel engine.

Piston displacement7,545 cm³ Bore x stroke118 mm x 115 mm Max. output......166 kW {225 PS} at 2,700 min⁻¹ {rpm} Max. torque705 N-m {72 kgf-m} at 1,300 min⁻¹ {rpm}

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

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. Four steering modes available:

2-wheel front

2-wheel rear

4-wheel coordinated

4-wheel crab

SUSPENSION

FrontRigid mounted to the frame.

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

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

Front29.5 - 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

EQUIPMENTS

STANDARD EQUIPMENTS

Automatic moment limiter (AML-L)

External lamp (AML)

Pendant type over-winding cutout

Winch automatic fail-safe brake

Winch drum rotation indicator for main and auxiliary winch

Winch drum mirror

Cable follower

5.6 t capacity hook block (swivel hook)

Hook safety latch

Pilot check valves

Holding valves

Counterbalance valves

Hydraulic pressure relief valves

Swing brake

Swing lock (360° 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 (Rear)

Non-spin differential (Rear)

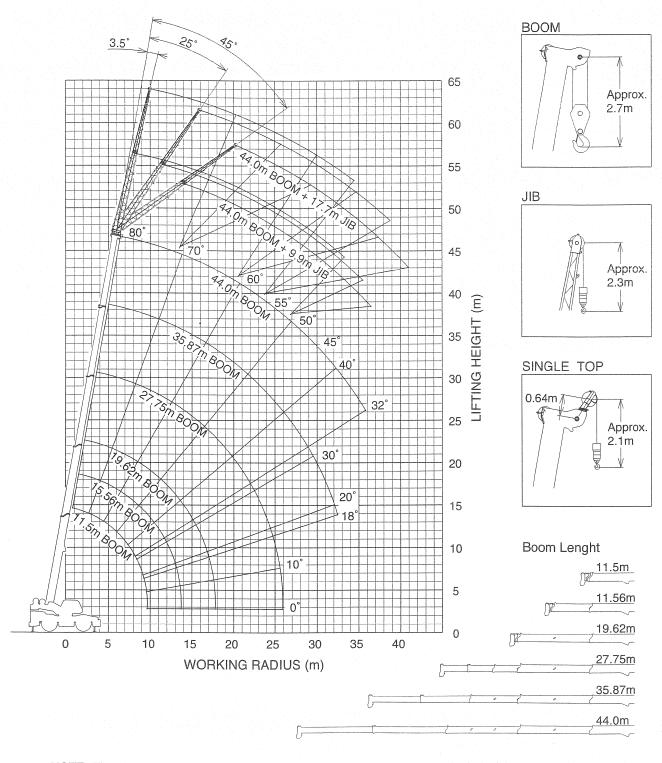
Towing eyes - front and rear

OPTIONAL EQUIPMENTS

- ☐ 70 t capacity hook block (8 sheaves)
- ☐ 40 t capacity hook block (4 sheaves)
- Hot water cab heater and air conditioner
- □Electric fan
- ☐Tire inflation kit
- □ Emergency steering

WORKING RANGE

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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.



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ON OUTRIGGERS

Unit: kg

				Outriage	's fully	extended (7.2m)					and a communication of the contract of the con	
360° Rotation													
\ AI		11.50	1	5.56	1	9.62	2	7.75	3	5.87		4.00	
В	С	11.00	С	0.00	С		С		С		С		
3.0	68.9	70,000	74.9	47,000	78.0	40,000							
3.5	65.9	58,500	72.6	47,000	76.6	40,000							
4.0	63.1	53,600	71.0	47,000	75.3	40,000							
4.5	60.1	49,600	69.0	47,000	73.7	40,000	78.9	20,000					
5.0	57.1	45,200	66.6	43,200	72.2	37,500	77.8	20,000					
5.5	54.0	40,500	64.8	39,400	70.6	35,000	76.8	20,000					
6.0	50.6	36,300	62.6	35,900	69.1	33,000	75.8	20,000	79.5	14,000			
6.5	47.2	32,900	60.7	32,800	67.5	30,700	74.8	20,000	78.7	14,000			
7.0	43.5	30,000	58.2	30,000	65.9	28,300	73.7	20,000	77.9	14,000			
8.0	35.5	25,200	53.6	25,000	62.4	23,700	71.7	19,400	76.4	14,000	79.5	8,000	
9.0	24.2	21,300	48.7	20,800	59.1	19,800	69.5	17,900	74.9	14,000	78.0	8,000	
10.0			43.6	17,300	55.6	16,600	67.1	16,300	73.3	13,700	77.0	8,000	
11.0			37.8	14,500	51.6	14,000	64.9	14,900	71.7	12,500	75.9	8,000	
12.0			30.4	12,300	47.6	11,700	62.6	13,300	69.9	11,500	74.7	8,000	
13.0			20.9	10,300	43.2	9,900	60.1	11,400	68.3	10,600	73.4	8,000	
14.0					38.6	8,500	57.4	9,800	66.5	9,800	72.1	8,000	
16.0					26.7	6,100	52.2	7,400	62.9	8,000	69.4	7,400	
18.0							46.4	5,700	59.0	6,400	66.5	6,400	
20.0					1		40.1	4,400	54.7	5,100	63.4	5,200	
22.0							32.6	3,400	50.6	4,000	60.3	4,300	
24.0	 				1		23.1	2,500	45.9	3,100	57.1	3,500	
26.0	 		1						40.8	2,400	53.6	2,800	
28.0	 		 					Ī	35.5	1,900	49.9	2,200	
30.0					1				29.0	1,400	46.2	1,700	
32.0	 		†						21.2	1,000	42.3	1,300	
D .		1			0°					18°		32°	
				Teles	coping	conditions	s (%)						
2nd boom		0	I	50		100		100		100		100	
3rd boom		0	T .	0		0		33	66		100		
4th boom		0		0		0		33	66		100		
Top boom		0		0		0		33	<u></u>	66	<u></u>	100	

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

ON OUTRIGGERS

Unit: kg

offset

W

1,500

1,500

1,500

1,500

1,500

1,400 1,100

Outriggers fully extended (7.2m) 360° Rotation														
		44.0	m Boom	ı + 9.9m J	ib	300		Station		44.0	m Boom	+ 17.7m	Jib	
С	3.5°	offset		offset		offset		С	3.5°	offset	25°	offset	45°	offset
	8 R	W	R	W	R	W			R	W	R	· W	R	W
80°	9.8	4,500	13.7	4,000	16.1	3,400	- Contraction	80°	12.5	2,700	18.3	1,700	22.1	1,000
75°	15.1	4,500	18.7	3,900	20.3	3,300		75°	18.6	2,700	23.7	1,700	27.1	1,000
70°	20.0	4,400	23.0	3,400	24.4	3,000		70°	24.2	2,600	28.8	1,700	31.6	1,000
65°	24.3	3,600	27.2	3,000	28.5	2,700		65°	29.2	2,200	33.6	1,700	35.7	1,000
60°	28.1	2,400	30.9	2,400	32.0	2,200		60°	33.5	1,700	37.8	1,500	39.4	1,000
55°	31.8	1,600	34.1	1,500	35.1	1,500		55°	37.4	1,100	41.3	900	43.0	900
50°	35.2	1,000	37.1	1,000	37.9	900					14 150.			

1	50°	35.2	1,000	37.1	1,000	01.0	000	1						
-						Outrig	gers fully 360°		tended (7 otation	'.2m)				
			35.8	7m Boon	n + 9.9m	Jib				18 18 A	35.8	7m Boom	n + 17.7m	Jib
	С	3.5°	offset		offset		offset		С	3.5°	offset	25°	offset	45°
-		R	W	R	W	R	W			R	W	R	W	R
-	80°	8.0	5.600	11.6	5,000	13.8	3,800		80°	10.3	3,600	16.5	2,400	20.4
-	75°	12.2	5,600	15.5	4,500	17.5	3,600		75°	15.2	3,600	21.1	2,400	24.4
	70°	16.3	5,500	19.1	4.000	20.9	3,400	П	70°	19.8	3,200	25.2	2,100	28.2
	65°	20.0	4.500	22.6	3,500	24.1	3,000		65°	24.2	2,700	29.1	1,900	31.6
	60°	23.4	3,800	25.8	3,100	27.1	2,800		60°	28.4	2,300	32.6	1,700	34.7
	55°	26.7	2,800	28.8	2,500	29.9	2,600	1	55°	32.1	2,000	36.0	1,600	37.6
	50°	29.5	2,000	31.5	1,800	32.4	1,900		50°	35.4	1,400	39.0	1,200	40.1
	45°	32.2	1,400	34.0	1,300	34.6	1,400		45°	38.5	900			
	40°	34.7	1,000	36.2	900									

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



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

ON OUTRIGGERS Unit: kg

				Outrigg	ers ext	ended to n		6.7m)				
A	1	1.50	1 1	5.56	1 1	9.62	2	7.75	3:	5.87	1 44	1.00
В	С	i si fayasi	С		C		C		C		C	
3.0	68.7	70,000	74.8	47,000	78.1	40,000	20 4 7 1					
3.5	65.9	58,500	72.9	47,000	76.6	40,000					, a, a, .	
4.0	63.0	53,600	70.7	47,000	75.0	40,000						
4.5	59.9	49,600	69.0	47,000	73.7	40,000	78.8	20,000	3.5			
5.0	57.2	45,100	66.8	43,100	72.1	37,300	77.7	20,000				
5.5	54.0	40,300	64.8	39,100	70.5	34,800	76.8	20,000			100	
6.0	50.6	36,300	62.7	35,600	69.1	32,800	75.7	20,000	79.6	14,000	1000	
6.5	47.4	32,800	60.6	32,300	67.5	30,700	74.8	20,000	78.7	14,000	1.5	
7.0	43.7	29,800	58.4	29,200	65.8	28,200	73.7	20,000	78.0	14,000	2 1 2 7 2 2 2	
8.0	35.5	24,800	53.7	23,200	62.5	22,800	71.6	19,200	76.4	14,000	79.5	8.000
9.0	24.2	19,100	48.7	18,400	59.0	18,000	69.4	17,700	75.0	14,000	78.4	8,000
10.0	100	1 1 1 1 1 1 1 1 1	43.7	14,900	55.3	14,600	67.1	15,800	73.3	13.700	77.0	8,000
11.0			37.8	12,400	51.5	12.000	64.7	13,700	71.6	12,500	75.8	8,000
12.0			30.8	10,500	47.5	10,000	62.4	11,600	69.9	11,500	74.7	8,000
13.0			20.8	8,800	43.2	8,400	60.0	10,000	68.1	10,400	73.4	8,000
14.0					38.5	7,100	57.4	8,600	66.5	9,300	72.2	8,000
16.0			1 1 4 4		00.0	.,,.00	51.9	6,500	62.9	7,300	69.4	7,300
18.0			100		1		46.2	5.000	58.9	5,600	66.5	6,000
20.0					T		40.0	3,800	54.6	4,300	63.3	4,800
22.0			10,000				32.7	2,900	50.3	3,300	60.1	3,700
24.0							23.3	2.100	45.7	2,500	56.7	2,900
26.0					1				40.6	1,900	53.2	2,300
28.0			1 1	4 4					35.0	1,300	49.7	1,700
30.0											45.9	1,200
D				()°	<u> </u>				18°		32°
	***************************************	The state of the s				conditions	(%)		A			
2nd boom		0	I	50		100		100	Γ.	100	1	100
3rd boom		0		0		0		33		66		100
4th boom		0		0		0	T	33	66			100
Top boom		0		0		0	33			66	100	

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

ON OUTRIGGERS Unit: kg

					Outrigge	ers extend	ec	to middl	e (6.7m)					
						360° R	ot	ation						
		44.	0m Boon	n + 9.9m	Jib					44.	0m Boon	n + 17.7m	Jib	
C	3.5°	offset	25° (offset	45° (offset		С	3.5°	offset	25° (offset	45° (offset
	R	W	R	W	R	W			R	W	R	W	R	W
80°	10.0	4,500	13.7	4,000	16.0	3,400		80°	12.5	2,700	18.4	1700	22.3	1,000
75°	15.1	4,500	18.7	3,900	20.3	3,300		75°	18.6	2,700	23.7	1700	27.1	1,000
70°	20.0	4,400	23.1	3,400	24.5	3,000		70°	24.3	2,600	28.8	1700	31.6	1,000
65°	24.2	3,300	27.1	3,000	28.5	2,700		65°	29.2	2,200	33.4	1600	35.7	1,000
60°	28.0	2,100	30.6	2,000	31.7	1,900		60°	33.2	1,500	37.7	1300	39.4	1,000
55°	31.6	1,300	34.0	1,200	34.8	1,200	-							

			^	A	A										
	Outriggers extended to middle (6.7m) 360 ° Rotation														
	Γ					000 1		ation	т						
	l	35.8	37m Booi	m + 9.9m	Jib				35.8	37m Booi	m + 17.7n	n Jib			
C	C 3.5° offset 25° offset 45° offset								3.5°	offset	25° (offset	45° offset		
	R	W	R	W	R	W			R	W	R	W	R	W	
80°	8.0	5,600	11.6	5,000	13.8	3,800		80°	10.3	3,600	16.5	2,400	20.3	1,500	
75°	12.2	5,600	15.4	4,500	17.4	3,600		75°	15.2	3,600	21.1	2,400	24.4	1,500	
70°	16.2	5,500	19.1	4,000	20.9	3,400		70°	19.8	3,200	25.2	2,100	28.2	1,500	
65°	19.9	4,500	22.5	3,500	24.1	3,000		65°	24.2	2,700	29.0	1,900	31.6	1,500	
60°	23.4	3,700	25.8	3,100	27.1	2,800		60°	28.3	2,300	32.6	1,700	34.7	1,500	
55°	26.5	2,600	28.7	2,300	29.8	2,100		55°	31.9	1,700	35.9	1,500	37.5	1,400	
50°	29.4	1,800	31.4	1,600	32.2	1,500		50°	35.3	1,100	38.8	1,000	40.0	900	
45°	32.1	1,200	33.8	1,000	34.4	1,000				41 14 1					

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



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ON OUTRIGGERS

Unit: kg

Outriggers extended to middle (5.5m) 360° Rotation													
		1.50											
B	C	1.50	C	5.56		9.62	C 2	7.75 I		5.87		4.00	
3.0	69.1	66,300	74.8	47,000	C 70.0	40.000			С		С		
3.5	66.1	58,400	72.7	47,000	78.2 76.8	40,000	 						
4.0	63.2	51,200	71.0	47,000	75.2	40,000							
4.5	60.3	44,600	68.9	46,000	73.8	40,000	78.8	20,000					
5.0	57.1	39,100	66.9	38,700	72.2	34,500	77.8	20,000					
5.5	54.2	34,300	64.8	33,100	70.6	29,800	76.7	20,000					
6.0	50.8	30,100	62.6	28,800	68.9	26,000	75.7	20,000	79.5	14,000			
6.5	47.4	26,300	60.6	25,200	67.4		74.7	20,000	78.5	14,000			
7.0	44.0	23,000	58.3	22,000	65.7	20,500	73.6	19,800	77.9	14,000			
8.0	35.8	17,700	53.7	17,100	62.2	16,500	71.5	16,300	76.4	14,000	79.4	8,000	
9.0	24.2	13,700	48.7	13,600	58.8	13,200	69.2	13,800	74.9	13,300	78.3	8,000	
10.0			43.8	11,000	55.3	10,600	67.0	11,700	73.1	11,500	77.2	8,000	
11.0			37.9	9,000	51.5	8,600	64.6	10,000	71.4	10,000	75.9	8,000	
12.0			30.6	7,400	47.3	7,100	62.1	8,600	69.7	8,800	74.8	8,000	
13.0			21.6	6,100	42.9	5,800	59.8	7,300	67.9	7,700	73.3	7,600	
14.0					38.3	4,700	57.3	6,200	66.1	6,800	71.7	6,800	
16.0							51.9	4,400	62.6	5,200	68.9	5,400	
18.0							46.0	3,100	58.4	3,900	66.0	4,200	
20.0							39.9	2,200	54.3	2,800	62.8	3,200	
22.0							32.2	1,400	49.6	2,000	59.7	2,400	
24.0									44.9	1,300	56.4	1,700	
26.0											53.0	1,100	
D)°				1 11	18°		32°	
				Tele	scoping	g condition	s (%)						
2nd boom		0		50		100		100		100		00	
3rd boom		0		0		0		33	66		-	00	
4th boom		0		0		0		33	66			00	
Top boom		0		0	L	0	L	33		66	•	00	

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

ON OUTRIGGERS

Unit: kg

_															9
						Outrigge			d to middle otation	e (5.5m)					
		1.1.1.1	44.0m	n Boom +	- 9.9m Jib					N SAN	44.0m	Boom +	17.7m Jik)	
	C	3.5°	offset	25° (offset	45° c	offset		С	3.5°	offset	25°	offset	45° (offset
		R	W	R	W	R	W			R	W	R	W	R	W
	80°	10.0	4,500	13.7	4,000	16.1	3,400		80°	12.5	2,700	18.2	1,700	22.0	1,00
	75°	15.1	4,500	18.7	3,900	20.3	3,300		75°	18.7	2,700	24.0	1,700	27.1	1,00
	70°	19.6	3,600	22.9	3,000	24.4	2,900		70°	23.9	2,400	29.0	1,700	31.7	1,00
	65°	23.7	2,300	26.6	1,900	27.6	1,800	-	65°	28.4	1,400	33.3	1,300	35.8	1,00
L	60°	27.6	1,300	30.1	1,000	30.8	1,000								

		1,000	1 00.1	1,000	00.0	1 1,000								
					Outrigge			to middle	e (5.5m)					
		35.87n	n Boom -	+ 9.9m Jib			-			35.87m	Boom +	17.7m Jil)	
C	3.5°	offset	25° (offset	45° (offset	Performance of the Performance o	C [3.5°	offset	25° (offset	45° (offset
	R	W	R	W	R	W			R	W	R	W	R	W
80 °	8.0	5,600	11.6	5,000	13.8	3,800		80 ⁰	11.0	3,600	16.5	2,400	20.4	1,500
75°	12.2	5,600	15.4	4,500	17.4	3,600		75 °	15.3	3,600	21.1	2,400	24.4	1,500
70°	16.2	5,000	19.2	4,000	20.9	3,400		70°	19.8	3,200	25.2	2,100	28.2	1,500
65°	19.6	3,700	22.5	3,300	24.1	2,800		65°	24.1	2,600	29.0	1,900	31.5	1,500
60°	23.0	2,400	25.5	2,200	26.8	1,900	- Constitution	60°	27.9	1,600	32.4	1,400	34.6	1,200
55°	26.2	1,500	28.5	1,400	29.5	1,200							a Amarija (j. 194	

C:Boom angle

R:Load radius (m)
W:Rated lifting capacity



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

ON OUTRIGGERS

ON OUTR	IGGE	RS									Unit:	kg	
			C	outriggers		ed to minir		.8m)					
						O Rotation	1						
A		1.50		5.56		9.62		7.75		5.87		4.00	
В	С		С		С		С		С		C		
3.0	69.1	38,900	74.8	36,100	78.1	35,200							
3.5	66.1	30,200	72.7	28,400	76.4	27,700		1010 1010 100				4 - 4 - 1	
4.0	63.2	24,200	70.8	22,800	74.9	22,200		eren i un gerri					
4.5	60.2	19,800	68.7	28,600	73.4	18,200	78.8	19,200					
5:0	57.3	16,500	66.7	15,500	71.8	15,100	77.6	16,400					
5.5	54.1	14,000	64.7	13,100	70.1	12,800	76.5	14,200				And a second	
6.0	50.8	12,000	62.5	11,200	68.5	10,900	75.5	12,400	79.5	13,200		7 9 9 1 1 T	
6.5	47.6	10,400	60.3	9,600	66.9	9,300	74.4	10,800	78.6	11,600			
7.0	44.0	9,100	58.1	8,300	65.3	8,000	73.3	9,500	77.6	10,300			
8.0	35.9	6,900	53.5	6,200	62.1	5,900	71.0	7,400	76.0	8,100	79.5	8,000	
9.0	24.9	5,200	48.8	4,700	58.4	4,400	68.8	5,800	74.3	6,500	78.1	6,900	
10.0			43.4	3,500	54.9	3,200	66.4	4,600	72.5	5,200	76.7	5,700	
11.0	100		37.7	2,500	51.1	2,200	64.1	3,600	70.9	4,200	75.3	4,700	
12.0			30.7	1,700	46.9	1,400	61.7	2,700	69.2	3,300	73.9	3,800	
13.0				41 1 4	100	Alexander Alexander	59.3	2,000	67.3	2,600	72.4	3,000	
14.0					1 0 1		56.6	1,400	65.7	2,000	70.9	2,400	
D				38°			46°		54°		62°		
				Tele	scopin	g condition	ns (%)						
2nd boom		0		50		100		100		100		100	
3rd boom		0		0		0		33	66		100		
4th boom		0		0		0		33	<u> </u>	66		100	
Top boom		0		0 0 33 66		66		100					

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. (* OPTIONAL EQUIPMENT)
- 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.

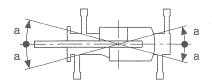
Boom length	11.5m	11.5m to 15.56m	15.56m to 19.62m	19.62m to 27.75m	27.75m to 44.0m	Single top / Jib
Number of parts of line	16	12	10	6	4	1

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

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(middle)	5.5m(middle)	2.8m(minimum)
Angle a°	30	20	5





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

ON TIRES

Unit: kg

				Sta	ationary					
			Over	Front				360° F	Rotation	
A	1	1.50		9.62	27	7.75	1	1.50		9.62
В	С		С		C		С		C	
3.0	69.0	33,000					68.7	22,200		
3.5	66.2	33,000			10 m		66.0	18,500		
4.0	63.2	33,000			1		63.2	14,700		
4.5	60.2	23,700					60.1	12,500		
5.0	57.4	21,500					57.1	10,500		
5.5	54.2	19,600					53.7	9,000		
6.0	50.9	17,000				· · · · · ·	50.5	7,500		***************************************
6.5	47.5	15,400	67.0	14,000			47.1	6,400	66.9	5,800
7.0	44.1	13,800	65.3	12,100			43.8	5,500	65.2	4,800
8.0	36.2	11,000	62.0	10,100			35.7	4,100	62.0	3,500
9.0	25.0	8,800	58.7	8,000			23.9	3,100	58.8	2,300
10.0	23.0	0,000	54.9		66.6	6,100	20.8	5,100	30.0	2,300
11.0	-		51.4	6,500	66.6 64.3	5,200			 	
12.0			47.7	5,100	61.8	4,300			\vdash	
13.0			43.7	4,100 3,200	59.3	3,600			1	
14.0			39.0	2,500	57.0	3,000				
16.0			39.0	2,500	52.3	2,000		**************************************	1	
D			<u> </u>)°	2,000	L1		 	18°
<u>U</u>	İ				_	(0/)			L	18
0 11	т		1	escoping c					Т	100
2nd boom		0	-	100	<u> </u>	100	ļ	0	ļ	100
3rd boom		0		0		33		0	0	
4th boom_		0		0		33	0		0	
	1	0	1	^		00		0		0
Top boom	<u></u>	0	<u> </u>	0		33		0		0
Top boom		0			Creep	33			<u> </u>	0
1 op boom			Over	0 Front				360°	Rotation	
Top boom A	1-	1.50	19		27	7.75			19	9.62
AB	С	1.50		Front			С	360° 1.50		
B 3.0	C 69.0	1.50 25,500	19	Front	27		C 68.9	360° 1.50	19	
АВ	C 69.0 66.0	1.50 25,500 22,500	19	Front	27		C 68.9 66.0	360° 1.50 17,100 14,700	19	
B 3.0 3.5 4.0	C 69.0 66.0 63.1	1.50 25,500 22,500 20,000	19	Front	27		C 68.9	360° 1.50 17,100 14,700 12,700	19	
B 3.0 3.5 4.0 4.5	C 69.0 66.0 63.1 60.3	1.50 25,500 22,500 20,000 17,900	19	Front	27		C 68.9 66.0 63.3 60.1	360° 1.50 17,100 14,700 12,700 10,600	19	
3.0 3.5 4.0 4.5 5.0	C 69.0 66.0 63.1 60.3 56.9	1.50 25,500 22,500 20,000 17,900 16,300	19	Front	27		C 68.9 66.0 63.3 60.1 57.3	360° 1.50 17,100 14,700 12,700 10,600 8,800	19	
B 3.0 3.5 4.0 4.5	C 69.0 66.0 63.1 60.3 56.9 54.0	1.50 25,500 22,500 20,000 17,900 16,300 14,800	19	Front	27		C 68.9 66.0 63.3 60.1 57.3 53.9	360° 1.50 17,100 14,700 12,700 10,600	19	
3.0 3.5 4.0 4.5 5.0	C 69.0 66.0 63.1 60.3 56.9	1.50 25,500 22,500 20,000 17,900 16,300	19	Front	27		C 68.9 66.0 63.3 60.1 57.3	360° 1.50 17,100 14,700 12,700 10,600 8,800	19	
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	1.50 25,500 22,500 20,000 17,900 16,300 14,800	19	Front	27		C 68.9 66.0 63.3 60.1 57.3 53.9	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500	19	9.62
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	1.50 25,500 22,500 20,000 17,900 16,300 14,800 13,500	19 C	Front 9.62	27		C 68.9 66.0 63.3 60.1 57.3 53.9 50.8	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500	C 19	5,000
3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4	1.50 25,500 22,500 20,000 17,900 16,300 14,800 13,500 12,300	19 C	Front 9.62 11,700	27		C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600	C C	5,000 4,200
B 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6	1.50 25,500 22,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300	67.1 65.5 62.1	Front 9.62 11,700 10,700	27		C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900	19 C	5,000 4,200 3,000
B 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0 9.0	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5	11,700 10,700 9,000 7,100	27		C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9	5,000 4,200 3,000
B 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 8.0	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2	11,700 10,700 9,000 7,100 5,700	27 C	5,500	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9	5,000 4,200 3,000
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2 51.4	11,700 10,700 9,000 7,100 5,700 4,600	66.5 64.2	5,500 4,800	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9	5,000 4,200 3,000
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2 51.4 47.6	11,700 10,700 9,000 7,100 5,700 4,600 3,700	66.5 64.2 61.7	5,500 4,800 4,100	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9	5,000 4,200 3,000
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2 51.4	11,700 10,700 9,000 7,100 5,700 4,600 3,700 2,900	66.5 64.2 61.7 59.5	5,500 4,800 4,100 3,500	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9	5,000 4,200 3,000
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8	11,700 10,700 9,000 7,100 5,700 4,600 3,700	66.5 64.2 61.7 59.5 57.1	5,500 4,800 4,100 3,500 2,900	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9	5,000 4,200 3,000
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8	11,700 10,700 9,000 7,100 5,700 4,600 3,700 2,900 2,200	66.5 64.2 61.7 59.5 57.1 52.2	5,500 4,800 4,100 3,500	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9 58.3	5,000 4,200 3,000 2,100
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600	67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1	11,700 10,700 9,000 7,100 5,700 4,600 3,700 2,900 2,200	66.5 64.2 61.7 59.5 57.1 52.2	5,500 4,800 4,100 3,500 2,900 2,000	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700	66.8 65.1 61.9 58.3	5,000 4,200 3,000
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 D	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 22,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600 8,000	67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1	11,700 10,700 9,000 7,100 5,700 4,600 3,700 2,900 2,200	66.5 64.2 61.7 59.5 57.1 52.2	5,500 4,800 4,100 3,500 2,900 2,000	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700 2,700	66.8 65.1 61.9 58.3	5,000 4,200 3,000 2,100
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 D	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 22,500 20,000 17,900 16,300 13,500 12,300 11,300 9,600 8,000	67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1	11,700 10,700 9,000 7,100 5,700 4,600 3,700 2,900 2,200	66.5 64.2 61.7 59.5 57.1 52.2	5,500 4,800 4,100 3,500 2,900 2,000	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700 2,700	66.8 65.1 61.9 58.3	5,000 4,200 3,000 2,100
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	C 69.0 66.0 63.1 60.3 56.9 54.0 50.6 47.4 43.6 35.3	1.50 25,500 22,500 20,000 17,900 16,300 14,800 13,500 12,300 11,300 9,600 8,000	67.1 65.5 62.1 58.6 55.2 51.4 47.6 43.8 39.1	11,700 10,700 9,000 7,100 5,700 4,600 3,700 2,900 2,200	66.5 64.2 61.7 59.5 57.1 52.2	5,500 4,800 4,100 3,500 2,900 2,000	C 68.9 66.0 63.3 60.1 57.3 53.9 50.8 47.1 43.8 35.5	360° 1.50 17,100 14,700 12,700 10,600 8,800 7,500 6,500 5,600 4,900 3,700 2,700	66.8 65.1 61.9 58.3	5,000 4,200 3,000 2,100

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



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

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 (*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.

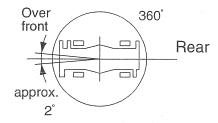
 (* OPTIONAL EQUIPMENT)
- 4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 5.600 kg including main hook.
- 5. On tires lifting with "jib" is 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		Over Front	360° Rotation		
Doom length	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

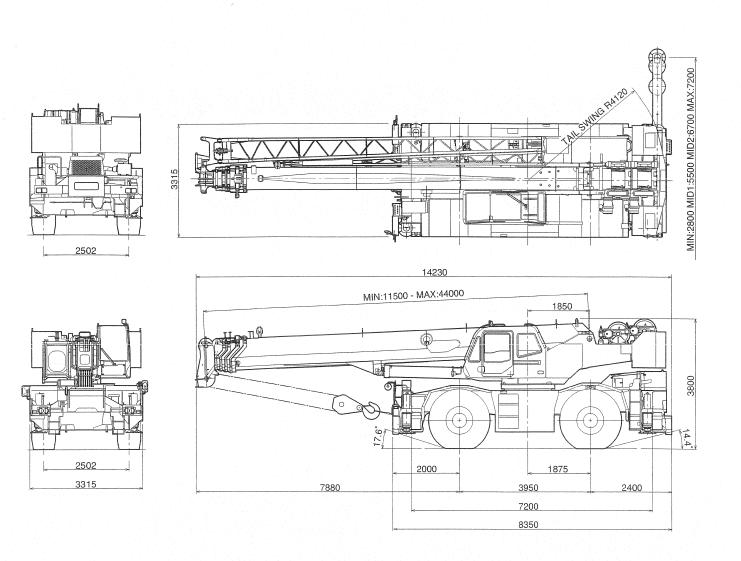


Without outriggers "Over front" operation should be performed within 2 degrees in front of chassis.



DIMENSION

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



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

Axle Weight Distribution 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) 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	+1,530	-680
	+470	+850	-380
Remove: 1. 2-stage jib (9.9 m, 17.7 m) 2.Removable counterweight	-1,138	-2,006	+868
	-7,900	+3,400	-11,300



Specifications are subject to change without notice.



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