SPEC. SHEET No. GS-600E-1-90101
DATE December,2013

TADANO

Provisional

TADANO TRUCK CRANE

MODEL : GS-600EX

(CARRIER : SCANIA P360 CB8x4)

GENERAL DATA

CRANE CAPACITY 60,000 kg at 3.0 m

BOOM 5-section, 11.1 m – 42.0 m

DIMENSION

Overall length	approx.	13,480 mm
Overall width	approx.	2,590 mm
Overall height	approx.	3,980 mm

MASS

		Kilograms		
		Total	Front	Rear
Base machine with 300L fuel		42,800	15,800	27,000
Remove				
1	5.6t hook ball	-150	-125	-25
2	Top Jib (6.4m)	-225	-185	-40
3	Base Jib (8.8m)	-600	-710	110
4	Single Top (Auxiliary boom sheave)	-70	-130	60
5	Spare Tire	-125	-120	-5
6	Counter weight and pins	-4,630	2,300	-6,930
7	60t hook block	-570	-920	350
Add				
8	35t hook block	450	725	-275
9	2 Persons	150	180	-30

Permissible Axle load[1]	50,000	18,000	32,000

[1]The intensity of tire is not considered.

PERFORMANCE

Max. traveling speed	computed	80km/h (limiter)
Gradeability (tanθ)	computed	50%

Specifications are subject to change without notice.

CRANE SPECIFICATIONS

MODEL	GS-600EX
CAPACITY	60,000 kg at 3.0 m
BOOM	Five-section full power partially synchronized telescoping boom of hexagonal box construction with 5 sheaves at boom head. The synchronization system consists of 2 telescope cylinders, extension cables and retraction cables. Selection of 2 boom telescoping modes. Hydraulic cylinders fitted with holding valves. Fully retracted length --------11.1 m Fully extended length ------- 42.0 m Extension speed ----------30.9 m in 130s
JIB	Two-staged slewing around boom extension. Triple offset (5^o/ 25^o/ 45^o) type. Stows alongside base boom section. Assistant cylinders for mounting and stowing. Single sheave at jib head. Length----------8.8 m and 15.2 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. Automatic speed reduction and slow stop function. Boom angle---------- –2^o to 80^o Boom raising speed--------- 20^o to 60^o in 36s
HOIST – Main winch	Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting. Equipped with automatic brake (Neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Single line pull ---------- 54.9 kN {5,600 kgf} Single line speed -------- 146 m/min. (at the 4th layer) Wire rope---------- Spin-resistant type Diameter x length-------- 19 mm x 227 m
HOIST– Auxiliary winch	Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting. Equipped with automatic brake (Neutral brake) and counterbalance valve. Controlled independently of main winch. Single line pull ---------- 54.9 kN {5,600 kgf} Single line speed --------- 135 m/min.(at the 2nd layer) Wire rope ----------Spin-resistant type Diameter x length ---------19 mm x 127 m
SLEWING	Hydraulic axial piston motor driven through planetary speed reducer. Continuous 360^o full circle slewing on ball bearing slew ring. Equipped with manually locked/released slewing brake. Front and Rear positive slewing lock manually engaged in cab. Twin slewing system: Free slewing or lock slewing controlled by selector switch on front console. slewing speed ---------- 1.9 min^{-1}{rpm}

HYDRAULIC SYSTEM

Pumps ---------- Two variable piston pumps for telescoping, elevating and winches.
Tandem gear pump for slewing and optional equipment.
Control valves ------- Multiple valves actuated by pilot pressure with integral pressure relief valves.
Circuit ---------- Equipped with air cooled type oil cooler.
Oil pressure appears on AML display for main circuit.
Hydraulic oil tank capacity -----
approx. 690 liters
Filters ---------- Return line filter

CRANE CONTROL

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

CAB

One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side. Door window is power controled.
Operator's 3 way adjustable seat with headrest and armrest.
Air conditioner (Hot water cab heater and cooler)

TADANO Automatic Moment Limiter (Model:AML-C)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions (including slewing motion) before overload. With working range (load radius and/or boom angle and/or tip height and/or slewing range) limit function. Automatic Speed Reduction and Slow Stop function on boom elevation and slewing.
Following functions are displayed.

- Load as percentage
- Number of parts of line of rope
- Boom angle
- Boom length
- Load radius
- Outriggers position
- Actual hook load
- Permissible load
- Boom position indicator
- Potential hook height
- Slewing angle
- Main hydraulic oil pressure
- Jib length and jib offset angle (only when jib operation)

OUTRIGGERS

Hydraulically operated 4 point outriggers, front slewable and rear H-type outriggers. Each outrigger controlled simultaneously or independently from either side of carrier. 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 --------- 7,000 mm
Middle ------- 6,000 mm
Minimum ---- 5,100 mm
Float size (Diameter) --- 400 mm

COUNTER WEIGHT — Integral with slewing frame.
Mass----------4,630kg

STANDARD EQUIPMENT
Automatic moment Limiter (AML)
3-colors External lamp (AML)
Anti-two-block device
Winch automatic fail-safe brake
Cable follower
Hook safety latch
Pilot check valves
Counterbalance valves
Hydraulic pressure relief valves
Slewing brake
Slewing lock
Boom angle indicator
Boom elevation foot pedal
Boom telescoping foot pedal
Outrigger extension width detector
Hydraulic oil cooler
Front windshield wiper and washer
Roof window wiper and washer
Power window (Cab door)
3 way adjustable cloth seat with headrest and armrest
Cab floor mat
Sun visor (Front and roof)
Air conditioner (Hot water heater and cooler in upper cab)
Winch drum mirror
Eco mode system
Tool box with lock key
Spare tire carrier with lock key
Hook block – 5.6t capacity
(Swivel type with safety latch for single line use.
Mass : approx.150 kg)
Telematics (machine data logging and monitoring system) with – HELLO-NET via internet(availability depends on countries)

OPTIONAL EQUIPMENT
Hook block – 60t capacity
(6 sheaves, swivel type with safety latch.
Mass : approx.570 kg)
Hook block – 35t capacity
(3 sheaves, swivel type with safety latch.
Mass : approx.450 kg)
3 working lights
Over-unwinding prevention
Winch drum rotation indicator (Visual type)

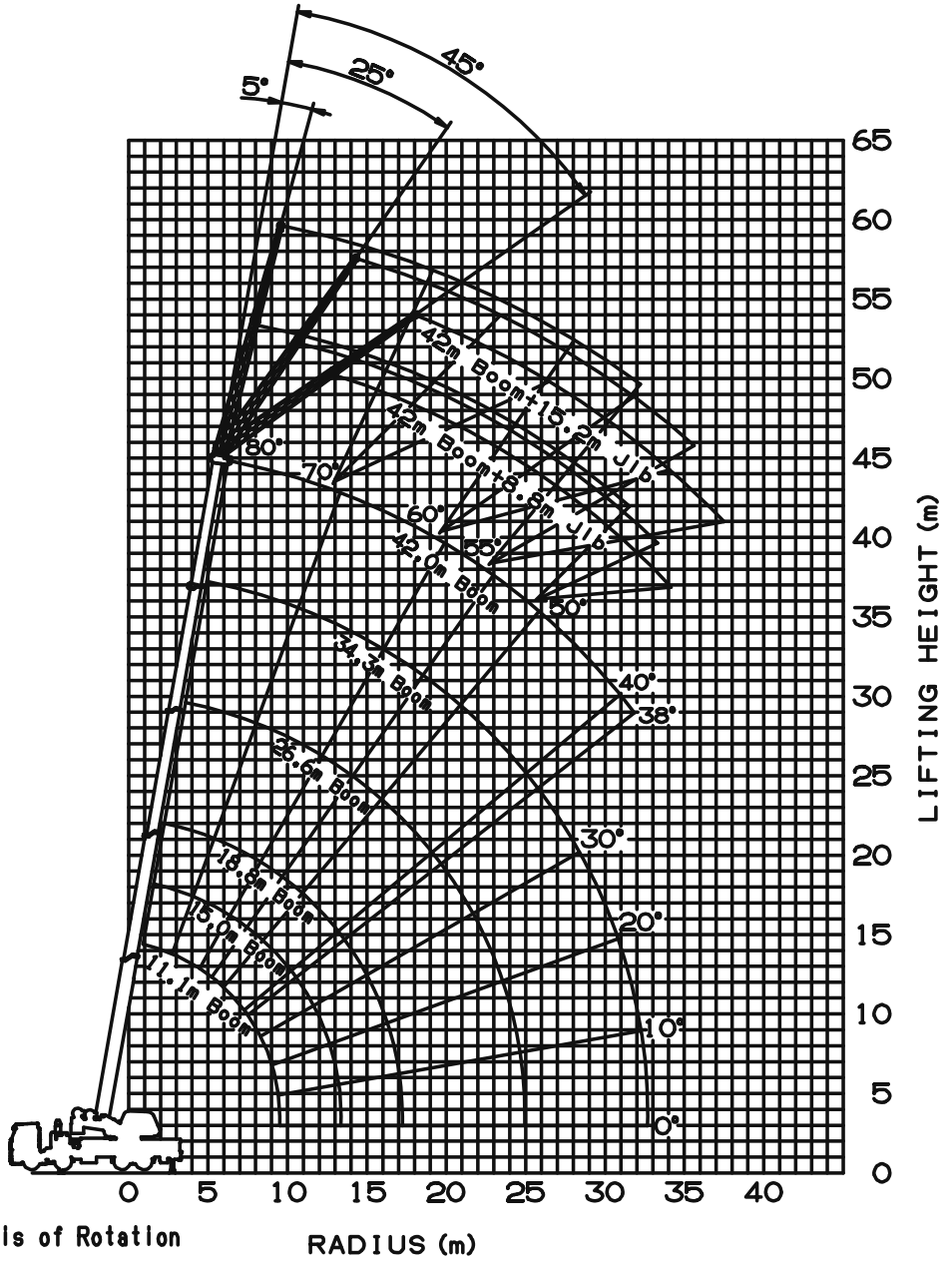
NOTE : Each crane motion speed is based on unladen conditions.

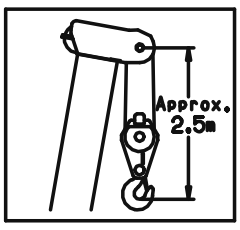
CARRIER SPECIFICATIONS

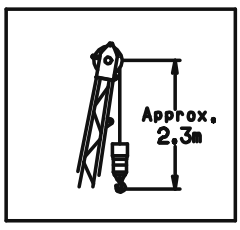
MANUFACTURER	SCANIA
MODEL	P360 CB8x4 ------ Right-hand steering , 8 x 4
ENGINE	Model --------- DC13 114 360 EURO5 with SCR Type ---------- 4 cycle, turbo charged and inter cooled. Piston displacement ---12.7 liters Max. output ---------- 265 kW {360 hp} at 1,900 min^{-1}{rpm} Max. torque -------1,850 N-m at 1,000-1300 min^{-1}{rpm}
CLUTCH	Automatic
TRANSMISSION	GRS905, 12+2 forward and 2 reverse speeds with Opticruise (Automatic), oil cooler
AXLES	Front ---------- AM900 (2x9,000kg) Rear ---------- AD1600P (32,000kg; 16,000+16,000kg) with hub reduction and differential lock
STEERING	Hydraulic and mechanical steering of both front axles with hydraulic power booster.
SUSPENSION	Front ------- Parabolic, leaf spring 4 x 28 with anti-roll bar Rear -------- Trapezoid, leaf spring 8x30/90 with anti-roll bar
BRAKE SYSTEM	Service ------ Full air drum brakes on all wheels with automatic-slack adjuster Dual-circuit system with ABS and traction control. Parking/ Emergency ------- Spring loaded brake on 2^{nd}, 3^{rd}, 4^{th} axle wheels
ELECTRIC SYSTEM	24 V DC. 2 batteries of 12 V Alternator ---- 28 V – 100 A
FUEL TANK CAPACITY	300 liters, with water separating fuel filter
CAB	Type CP14 with off-road package, 2-man full width cab with air conditioner, 4-point mechanical suspension, electrical-powered windows, electrical- mirror adjustment, central locking
TIRES	Front ----------315/80R22.5, Single x 4 Rear ----------315/80R22.5, Dual x 4 Spare ----------315/80R22.5, Single x 1
TURN RADIUS	Min. turning radius (at center of extreme outer tire) ----------12.0m
OTHER EQUIPMENT	Reverse alarm with disabling Head lamp protection 12V socket in dashboard Fold out step in bumper Boarding step lighting Towing devise in front bumper Protective rubber floor mats Tool kit

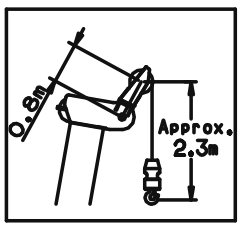
WORKING RANGE

Telescoping mode I

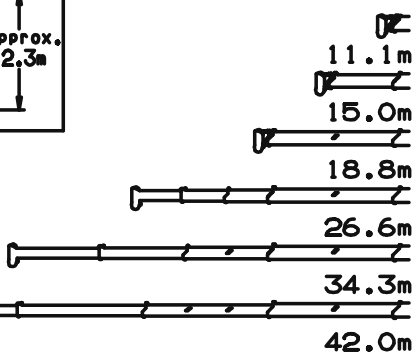








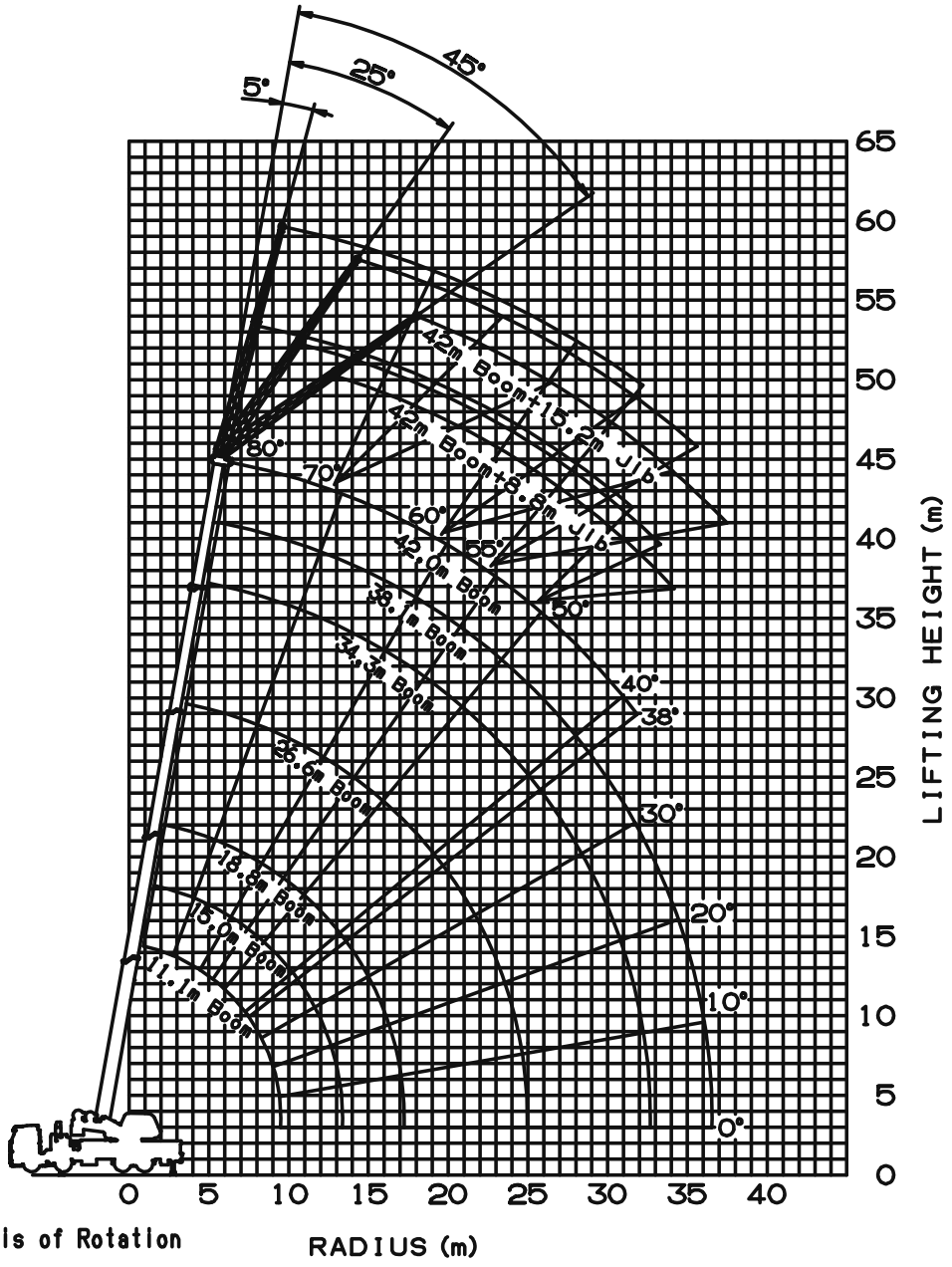
Boom Length

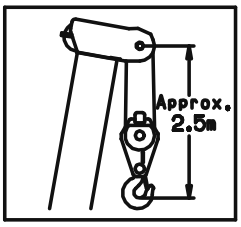


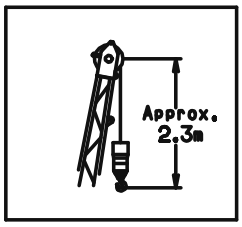
NOTE:1. Boom and Jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.
Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

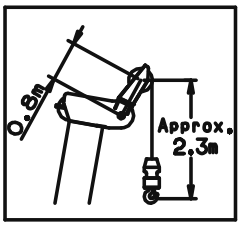
WORKING RANGE

Telescoping mode Ⅱ

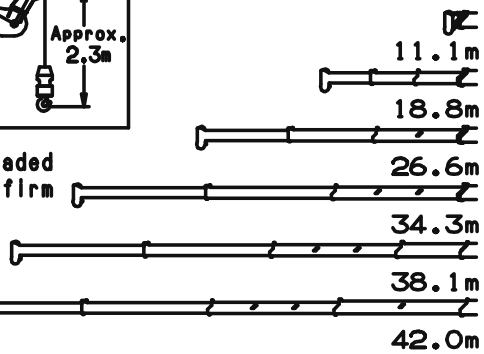








Boom Length



NOTE:1. Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface.
Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

GS-600EX RATED LIFTING CAPACITIES (BOOM)
ISO 4305

O/R_MAX(7.0m) UNIT x 1000kg

RADIUS(m)	BOOM LENGTH																			
	11.1m		15.0m		18.8m				26.6m				34.3m				38.1m		42.0m	
	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD
2.5	72	60.0																		
3.0	69	60.0	75	40.0	78	28.0	78	20.0												
3.5	66	53.1	73	40.0	77	28.0	76	20.0												
4.0	63	47.4	71	40.0	75	28.0	75	20.0												
4.5	60	42.6	69	40.0	74	28.0	73	20.0	79	20.0	79	14.0								
5.0	57	38.6	66	38.3	72	28.0	72	19.3	78	20.0	78	14.0								
5.5	53	35.1	64	34.9	70	27.5	70	18.5	77	20.0	77	14.0								
6.0	50	32.2	62	31.9	69	25.6	68	17.8	76	20.0	75	13.2	80	14.0	79	8.5				
6.5	46	29.6	60	28.6	67	23.9	67	17.2	75	19.3	74	12.4	79	14.0	79	8.5				
7.0	42	26.9	57	25.5	65	22.4	65	16.5	74	18.1	73	11.7	78	13.7	78	8.5	79	8.5		
7.5	38	23.4	55	22.9	64	21.0	63	16.0	72	17.0	72	11.1	77	13.0	77	8.5	79	8.5		
8.0	33	20.7	53	20.1	62	19.0	62	15.5	71	16.0	71	10.5	76	12.5	76	8.5	78	8.5	80	8.5
9.0	21	16.5	47	16.0	58	15.7	58	14.5	69	14.4	69	9.5	75	11.4	74	7.7	77	8.4	78	8.5
10.0			42	13.0	54	12.8	54	13.7	67	13.0	66	8.7	73	10.5	73	7.0	75	7.6	77	8.1
11.0			35	10.7	50	10.4	50	12.7	64	11.3	64	7.9	71	9.7	71	6.4	74	7.0	76	7.5
12.0			27	8.9	46	8.6	46	10.8	62	9.7	61	7.3	70	8.9	69	5.9	72	6.5	74	6.9
14.0					36	6.0	36	8.0	56	7.1	56	6.2	66	7.4	66	4.9	69	5.5	72	6.0
16.0					23	4.2	23	6.2	51	5.3	51	5.4	62	5.7	62	4.2	65	4.7	69	5.2
18.0									45	3.9	45	4.8	58	4.3	58	3.6	62	4.1	66	4.5
20.0									38	2.9	38	4.2	54	3.3	54	3.2	59	3.6	63	3.7
22.0									29	2.1	30	3.4	49	2.5	49	2.8	55	3.1	59	2.9
24.0									17	1.5	18	2.8	44	1.9	44	2.5	51	2.6	56	2.2
26.0													39	1.4	39	2.2	47	2.0	52	1.7
28.0													33	0.9	33	1.9	42	1.6	48	1.3
30.0													25	0.6	26	1.5	37	1.2	44	0.9
32.0															15	1.2	31	0.9	40	0.6
34.0																	24	0.6		
36.0																	13	0.4		
MINI ANGLE	0		0		0		0		0		0		0		0		0		37	
Rated Lifting Capacities	14.8		6.9		3.3		5.3		1.2		2.5				1.2					
Load Radius(m)	9.5		13.4		17.2		17.2		25.0		25.0		32.7		32.7		36.5		33.0	
Telescoping mode	Ⅰ,Ⅱ		Ⅰ		Ⅰ		Ⅱ		Ⅰ		Ⅱ		Ⅰ		Ⅱ		Ⅱ		Ⅰ,Ⅱ	

O/R_MID(6.0m) UNIT x 1000kg

RADIUS(m)	BOOM LENGTH																			
	11.1m		15.0m		18.8m				26.6m				34.3m				38.1m		42.0m	
	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD
2.5	72	60.0																		
3.0	69	56.9	75	40.0	78	28.0	78	20.0												
3.5	66	50.1	73	40.0	77	28.0	76	20.0												
4.0	63	44.5	71	40.0	75	28.0	75	20.0												
4.5	60	39.9	69	39.6	74	28.0	73	20.0	79	20.0	79	14.0								
5.0	57	36.0	66	35.8	72	28.0	72	19.3	78	20.0	78	14.0								
5.5	53	32.7	64	32.4	70	27.5	70	18.5	77	20.0	77	14.0								
6.0	50	29.4	62	28.4	69	25.6	68	17.8	76	20.0	75	13.2	80	14.0	79	8.5				
6.5	46	24.5	60	23.7	67	23.2	67	17.2	75	19.3	74	12.4	79	14.0	79	8.5				
7.0	42	20.8	57	20.1	65	19.7	65	16.5	74	18.1	73	11.7	78	13.7	78	8.5	79	8.5		
7.5	38	18.0	55	17.4	63	16.9	63	16.0	72	17.0	72	11.1	77	13.0	77	8.5	79	8.5		
8.0	33	15.7	53	15.2	62	14.8	62	15.5	71	16.0	71	10.5	76	12.5	76	8.5	78	8.5	79	8.5
9.0	21	12.3	47	11.8	58	11.5	58	13.8	69	12.7	69	9.5	75	11.4	74	7.7	77	8.4	78	8.5
10.0			42	9.4	54	9.1	54	11.4	66	10.3	66	8.7	73	10.5	73	7.0	75	7.6	77	8.1
11.0			35	7.6	50	7.3	50	9.5	64	8.4	64	7.9	71	9.0	71	6.4	73	7.0	76	7.5
12.0			27	6.2	46	5.9	46	8.0	61	7.0	61	7.3	69	7.6	69	5.9	72	6.5	74	6.9
14.0					36	3.9	36	5.9	56	5.0	56	6.2	65	5.5	65	4.9	69	5.5	71	5.8
16.0					23	2.5	23	4.4	50	3.6	51	4.9	61	4.1	62	4.2	65	4.7	68	4.4
18.0									44	2.5	45	3.8	57	3.0	58	3.6	62	3.6	65	3.3
20.0									37	1.7	38	3.0	53	2.2	54	3.2	58	2.8	62	2.5
22.0									29	1.1	29	2.3	49	1.6	49	2.5	54	2.2	58	1.8
24.0									17	0.6	17	1.8	44	1.0	44	2.0	50	1.6	55	1.3
26.0													38	0.6	39	1.6	46	1.2	51	0.9
28.0															33	1.2	42	0.8		
30.0															25	0.9	36	0.5		
32.0															14	0.6				
MIN ANGLE	0		0		0		0		0		0		35		0		32		50	
Rated Lifting Capacities	10.6		4.0		1.9		3.6		0.4		1.5		0.4		0.4		0.4		0.4	
Load Radius(m)	9.5		13.4		17.2		17.2		25.0		25.0		27.3		32.7		31.6		26.9	
Telescoping mode	Ⅰ,Ⅱ		Ⅰ		Ⅰ		Ⅱ		Ⅰ		Ⅱ		Ⅰ		Ⅱ		Ⅱ		Ⅰ,Ⅱ	

O/R_MIN(5.1m) UNIT x 1000kg

RADIUS(m)	BOOM LENGTH																			
	11.1m		15.0m		18.8m				26.6m				34.3m				38.1m		42.0m	
	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD	ANGLE	LOAD
2.5	71	60.0																		
3.0	69	53.5	75	40.0	78	28.0	78	20.0												
3.5	66	46.9	73	40.0	77	28.0	76	20.0												
4.0	63	41.6	71	40.0	75	28.0	75	20.0												
4.5	60	37.1	68	36.8	73	28.0	73	20.0	79	20.0	79	14.0								
5.0	57	32.3	66	31.3	72	28.0	72	19.3	78	20.0	78	14.0								
5.5	53	26.0	64	25.2	70	24.7	70	18.5	77	20.0	77	14.0								
6.0	50	21.6	62	20.8	69	20.4	68	17.8	76	20.0	75	13.2	80	14.0	79	8.5				
6.5	46	18.2	60	17.6	67	17.2	67	17.2	75	18.5	74	12.4	79	14.0	79	8.5				
7.0	42	15.6	57	15.1	65	14.7	65	16.5	73	16.0	73	11.7	78	13.7	78	8.5	79	8.5		
7.5	38	13.5	55	13.0	63	12.7	63	15.1	72	13.9	72	11.1	77	13.0	77	8.5	79	8.5		
8.0	33	11.9	53	11.4	62	11.0	62	13.4	71	12.3	71	10.5	76	12.5	76	8.5	78	8.5	79	8.5
9.0	21	9.3	47	8.8	58	8.5	58	10.8	69	9.7	69	9.5	75	10.3	74	7.7	77	8.4	78	8.5
10.0			42	6.9	54	6.7	54	8.8	66	7.8	66	8.7	73	8.4	73	7.0	75	7.6	77	8.1
11.0			35	5.5	50	5.3	50	7.3	64	6.4	64	7.8	71	6.9	71	6.4	73	7.0	75	7.2
12.0			27	4.4	46	4.2	46	6.2	61	5.3	61	6.7	69	5.8	69	5.9	72	6.5	74	6.1
14.0					36	2.5	36	4.4	56	3.6	56	4.9	65	4.1	65	4.9	68	4.7	71	4.4
16.0					23	1.4	23	3.2	50	2.4	51	3.7	61	2.9	62	3.9	65	3.5	68	3.2
18.0									44	1.5	44	2.8	57	2.1	58	3.0	62	2.6	65	2.3
20.0									37	0.8	38	2.1	53	1.4	53	2.3	58	2.0	61	1.6
22.0											29	1.5	48	0.8	49	1.8	54	1.4	58	1.1
24.0											17	1.1			44	1.3	50	1.0		
26.0															39	0.9				
28.0															33	0.6				
MIN ANGLE	0		0		0		0		29		0		48		14		46		58	
Rated Lifting Capacities	8.2		3.0		0.8		2.6		0.4		0.9		0.4		0.4		0.4		0.4	
Load Radius(m)	9.5		13.4		17.2		17.2		22.2		25.0		22.5		32.0		25.9		22.3	
Telescoping mode	Ⅰ,Ⅱ		Ⅰ		Ⅰ		Ⅱ		Ⅰ		Ⅱ		Ⅰ		Ⅱ		Ⅱ		Ⅰ,Ⅱ	

GS-600EX RATED LIFTING CAPACITIES (JIB)
ISO4305

UNIT x 1000kg

O/R_MAX(7.0m)

E.ANGL	42.0m BOOM + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	10.1	4.5	13.1	2.7	15.1	1.9
79	11.1	4.5	14.1	2.7	16.1	1.9
78	12.2	4.5	15.1	2.6	17.0	1.9
77	13.2	4.4	16.0	2.6	17.9	1.9
76	14.1	4.2	17.0	2.5	18.8	1.8
75	15.0	4.0	17.9	2.5	19.7	1.8
73	16.8	3.6	19.8	2.4	21.5	1.8
70	19.5	3.2	22.5	2.3	24.1	1.7
68	21.2	2.9	24.3	2.2	25.8	1.7
65	23.7	2.5	26.8	2.0	28.2	1.7
63	25.3	2.3	28.4	1.9	29.8	1.6
60	27.7	1.8	30.7	1.6	32.0	1.5
58	29.1	1.5	32.0	1.3	33.4	1.2
55	31.1	1.1	33.9	0.9	35.1	0.9
53	32.4	0.8	35.1	0.7	36.1	0.7
50	34.3	0.5	36.8	0.5	37.7	0.5

E.ANGL	42.0m BOOM + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	12.7	2.7	17.4	1.3	20.9	0.9
79	13.9	2.7	18.5	1.3	22.0	0.9
78	15.1	2.6	19.6	1.3	23.0	0.9
77	16.2	2.5	20.7	1.2	24.0	0.8
76	17.3	2.4	21.8	1.2	25.0	0.8
75	18.4	2.3	22.9	1.2	26.0	0.8
73	20.6	2.1	25.0	1.1	28.0	0.8
70	23.7	1.8	28.0	1.0	30.8	0.8
68	25.8	1.7	30.0	1.0	32.7	0.8
65	28.7	1.5	32.8	0.9	35.3	0.7
63	30.6	1.4	34.7	0.9	37.0	0.7
60	33.4	1.2	37.3	0.9	39.4	0.7
58	35.1	1.0	39.0	0.9	41.0	0.7
55	37.4	0.7	41.3	0.5	43.1	0.5

UNIT x 1000kg

O/R_MAX(7.0m)

E.ANGL	38.1m BOOM(MODEⅡ) + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	8.9	4.5	12.0	2.8	13.6	2.0
79	9.8	4.5	12.8	2.7	14.4	1.9
78	10.7	4.5	13.7	2.7	15.2	1.9
77	11.7	4.5	14.6	2.6	16.0	1.9
76	12.5	4.4	15.4	2.6	16.8	1.9
75	13.4	4.2	16.3	2.5	17.6	1.8
73	15.0	3.8	18.0	2.4	19.2	1.8
70	17.4	3.3	20.4	2.3	21.4	1.8
68	19.0	3.0	22.0	2.2	22.9	1.7
65	21.3	2.6	24.3	2.1	25.1	1.7
63	22.8	2.4	25.8	2.0	26.5	1.7
60	24.9	2.1	27.9	1.8	28.5	1.6
58	26.3	2.0	29.2	1.7	29.7	1.6
55	28.4	1.8	31.1	1.6	31.5	1.5
53	29.6	1.6	32.3	1.5	32.7	1.4
50	31.5	1.3	34.1	1.2	34.3	1.1
48	32.7	1.1	35.1	1.0	35.2	1.0
45	34.3	0.8	36.6	0.8	36.6	0.7
43	35.3	0.7	37.5	0.7		
40	36.8	0.5	38.8	0.5		
38	37.7	0.4	39.6	0.4		

E.ANGL	38.1m BOOM(MODEⅡ) + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	11.4	2.7	16.3	1.4	19.9	0.9
79	12.5	2.7	17.3	1.3	20.8	0.9
78	13.6	2.6	18.3	1.3	21.7	0.9
77	14.6	2.5	19.3	1.2	22.7	0.9
76	15.6	2.4	20.3	1.2	23.6	0.8
75	16.6	2.3	21.2	1.2	24.5	0.8
73	18.6	2.1	23.1	1.1	26.3	0.8
70	21.4	1.9	25.9	1.1	28.8	0.8
68	23.3	1.7	27.7	1.0	30.5	0.8
65	26.0	1.6	30.3	1.0	32.9	0.8
63	27.8	1.5	32.0	0.9	34.4	0.7
60	30.3	1.3	34.5	0.9	36.6	0.7
58	32.0	1.3	36.0	0.9	38.0	0.7
55	34.3	1.2	38.2	0.8	40.0	0.7
53	35.8	1.1	39.6	0.8	41.3	0.7
50	37.9	0.8	41.6	0.7	43.0	0.7
48	39.2	0.7	42.8	0.6	44.1	0.6
45	41.0	0.5	44.4	0.4	45.4	0.4
43	42.1	0.4				

UNIT x 1000kg

O/R_MAX(7.0m)

E.ANGL	34.3m BOOM(MODEⅠ) + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	7.8	4.5	10.8	2.8	12.9	2.0
79	8.7	4.5	11.6	2.8	13.6	2.0
78	9.5	4.5	12.4	2.7	14.4	1.9
77	10.3	4.5	13.2	2.7	15.1	1.9
76	11.1	4.5	13.9	2.6	15.8	1.9
75	11.9	4.3	14.7	2.6	16.5	1.9
73	13.4	4.0	16.2	2.5	18.0	1.8
70	15.6	3.7	18.4	2.3	20.0	1.8
68	17.1	3.5	19.8	2.3	21.4	1.7
65	19.2	3.2	21.9	2.1	23.3	1.7
63	20.6	3.0	23.2	2.1	24.6	1.7
60	22.6	2.8	25.2	2.0	26.4	1.6
58	23.9	2.6	26.4	1.9	27.6	1.6
55	25.7	2.1	28.2	1.9	29.2	1.6
53	26.8	1.8	29.3	1.6	30.3	1.5
50	28.5	1.4	30.8	1.3	31.7	1.2
48	29.5	1.2	31.8	1.1	32.5	1.0
45	31.0	0.9	33.1	0.8	33.7	0.8
43	32.0	0.7	33.9	0.7		
40	33.3	0.5	35.1	0.5		
38	34.2	0.4	35.9	0.4		

E.ANGL	34.3m BOOM(MODEⅠ) + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	10.0	2.7	14.9	1.4	18.5	0.9
79	11.0	2.7	15.8	1.4	19.4	0.9
78	11.9	2.7	16.7	1.3	20.2	0.9
77	12.9	2.6	17.6	1.3	21.0	0.9
76	13.8	2.5	18.4	1.3	21.8	0.9
75	14.7	2.4	19.3	1.2	22.6	0.8
73	16.5	2.2	21.0	1.2	24.2	0.8
70	19.1	2.0	23.5	1.1	26.5	0.8
68	20.7	1.8	25.1	1.0	27.9	0.8
65	23.2	1.6	27.5	1.0	30.1	0.8
63	24.8	1.5	29.0	0.9	31.5	0.8
60	27.1	1.4	31.2	0.9	33.4	0.7
58	28.6	1.3	32.6	0.9	34.7	0.7
55	30.8	1.2	34.6	0.8	36.4	0.7
53	32.2	1.2	35.8	0.8	37.5	0.7
50	34.2	0.9	37.6	0.8	39.1	0.7
48	35.4	0.8	38.8	0.7	40.0	0.6
45	37.1	0.5	40.3	0.5	41.3	0.4
43	38.1	0.4				

GS-600EX RATED LIFTING CAPACITIES (JIB)
ISO4305

UNIT x 1000kg

O/R_MID(6.0m)

E.ANGL	42.0m BOOM + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	9.9	4.5	12.9	2.7	14.9	1.9
79	10.9	4.5	13.9	2.7	15.8	1.9
78	12.0	4.5	14.8	2.6	16.8	1.9
77	12.9	4.4	15.8	2.6	17.7	1.9
76	13.9	4.2	16.7	2.5	18.6	1.8
75	14.8	4.0	17.7	2.5	19.5	1.8
73	16.6	3.6	19.5	2.4	21.2	1.8
70	19.2	3.2	22.2	2.3	23.8	1.7
68	20.9	2.8	24.0	2.2	25.4	1.7
65	23.2	2.1	26.3	1.8	27.9	1.7
63	24.7	1.7	27.7	1.5	29.2	1.4
60	26.9	1.2	29.7	1.0	31.0	1.0
58	28.3	0.9	31.0	0.8	32.2	0.8

E.ANGL	42.0m BOOM + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	12.5	2.7	17.0	1.3	20.6	0.9
79	13.6	2.7	18.1	1.3	21.6	0.9
78	14.8	2.6	19.2	1.3	22.6	0.9
77	15.9	2.5	20.3	1.2	23.6	0.8
76	17.0	2.4	21.3	1.2	24.6	0.8
75	18.1	2.3	22.4	1.2	25.6	0.8
73	20.2	2.1	24.4	1.1	27.5	0.8
70	23.3	1.8	27.4	1.0	30.3	0.8
68	25.3	1.7	29.4	1.0	32.1	0.8
65	28.2	1.5	32.2	0.9	34.7	0.7
63	29.9	1.2	34.0	0.9	36.4	0.7
60	32.3	0.8				

UNIT x 1000kg

O/R_MID(6.0m)

E.ANGL	38.1m BOOM(MODEⅡ) + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	8.8	4.5	11.8	2.8	13.9	2.0
79	9.7	4.5	12.7	2.7	14.7	1.9
78	10.6	4.5	13.6	2.7	15.6	1.9
77	11.5	4.5	14.4	2.6	16.4	1.9
76	12.4	4.4	15.3	2.6	17.2	1.9
75	13.2	4.2	16.1	2.5	18.0	1.8
73	14.9	3.8	17.8	2.4	19.6	1.8
70	17.3	3.3	20.3	2.3	21.9	1.8
68	18.9	3.0	21.8	2.2	23.4	1.7
65	21.2	2.6	24.1	2.1	25.6	1.7
63	22.6	2.4	25.6	2.0	27.0	1.7
60	24.7	2.0	27.6	1.8	29.0	1.6
58	26.0	1.7	28.9	1.5	30.2	1.4
55	28.0	1.3	30.6	1.2	31.8	1.1
53	29.2	1.1	31.8	1.0	32.8	0.9
50	31.0	0.8	33.4	0.7	34.3	0.7
48	32.2	0.6	34.4	0.6	35.2	0.6
45	33.8	0.4	35.9	0.4	36.6	0.4

E.ANGL	38.1m BOOM(MODEⅡ) + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	11.2	2.7	16.0	1.4	19.7	0.9
79	12.3	2.7	17.0	1.3	20.6	0.9
78	13.4	2.6	18.0	1.3	21.5	0.9
77	14.4	2.5	19.0	1.2	22.4	0.9
76	15.4	2.4	19.9	1.2	23.3	0.8
75	16.4	2.3	20.9	1.2	24.2	0.8
73	18.3	2.1	22.8	1.1	26.0	0.8
70	21.2	1.9	25.5	1.1	28.5	0.8
68	23.0	1.7	27.3	1.0	30.2	0.8
65	25.7	1.6	29.9	1.0	32.6	0.8
63	27.5	1.5	31.6	0.9	34.1	0.7
60	30.0	1.3	34.0	0.9	36.3	0.7
58	31.6	1.2	35.5	0.9	37.7	0.7
55	33.7	0.9	37.6	0.7	39.6	0.7
53	35.1	0.7	38.8	0.6	40.6	0.5
50	37.0	0.5				

UNIT x 1000kg

O/R_MID(6.0m)

E.ANGL	34.3m BOOM(MODEⅠ) + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	7.7	4.5	10.7	2.8	12.7	2.0
79	8.5	4.5	11.5	2.8	13.5	2.0
78	9.4	4.5	12.2	2.7	14.2	1.9
77	10.2	4.5	13.0	2.7	14.9	1.9
76	11.0	4.5	13.8	2.6	15.7	1.9
75	11.7	4.3	14.5	2.6	16.4	1.9
73	13.3	4.0	16.0	2.5	17.8	1.8
70	15.5	3.7	18.2	2.3	19.8	1.8
68	16.9	3.5	19.6	2.3	21.2	1.7
65	19.1	3.2	21.7	2.1	23.1	1.7
63	20.4	2.8	23.0	2.1	24.4	1.7
60	22.2	2.2	24.9	2.0	26.2	1.6
58	23.5	1.9	26.0	1.7	27.3	1.6
55	25.2	1.4	27.7	1.3	28.8	1.2
53	26.4	1.2	28.7	1.1	29.7	1.0
50	28.0	0.8	30.2	0.8	31.1	0.7
48	29.1	0.7	31.2	0.6	31.9	0.6
45	30.6	0.4	32.5	0.4	33.1	0.4

E.ANGL	34.3m BOOM(MODEⅠ) + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	9.9	2.7	14.8	1.4	18.4	0.9
79	10.8	2.7	15.7	1.4	19.2	0.9
78	11.8	2.7	16.5	1.3	20.0	0.9
77	12.7	2.6	17.4	1.3	20.8	0.9
76	13.6	2.5	18.3	1.3	21.6	0.9
75	14.5	2.4	19.1	1.2	22.4	0.8
73	16.3	2.2	20.8	1.2	24.0	0.8
70	18.9	2.0	23.3	1.1	26.3	0.8
68	20.6	1.8	24.9	1.0	27.7	0.8
65	23.0	1.6	27.3	1.0	29.9	0.8
63	24.6	1.5	28.8	0.9	31.2	0.8
60	26.9	1.4	30.9	0.9	33.2	0.7
58	28.4	1.3	32.3	0.9	34.4	0.7
55	30.4	1.0	34.3	0.8	36.2	0.7
53	31.7	0.8	35.4	0.6	37.1	0.6
50	33.5	0.5				

GS-600EX RATED LIFTING CAPACITIES (JIB)
ISO4305

UNIT x 1000kg

O/R_MIN(5.1m)

E.ANGL	42.0m BOOM + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	9.8	4.5	12.7	2.7	14.9	1.9
79	10.8	4.5	13.7	2.7	15.9	1.9
78	11.8	4.5	14.6	2.6	16.8	1.9
77	12.8	4.4	15.5	2.6	17.7	1.9
76	13.7	4.2	16.5	2.5	18.6	1.8
75	14.6	4.0	17.4	2.5	19.5	1.8
73	16.4	3.6	19.2	2.4	21.2	1.8
70	18.8	2.5	21.8	2.1	23.8	1.7
68	20.4	2.0	23.3	1.7	25.3	1.5
65	22.7	1.3	25.5	1.2	27.3	1.1
63	24.2	1.0	26.9	0.9		

E.ANGL	42.0m BOOM + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	12.2	2.7	16.8	1.3	20.4	0.9
79	13.4	2.7	17.8	1.3	21.4	0.9
78	14.5	2.6	18.9	1.3	22.4	0.9
77	15.6	2.5	19.9	1.2	23.4	0.8
76	16.7	2.4	21.0	1.2	24.4	0.8
75	17.8	2.3	22.0	1.2	25.4	0.8
73	19.9	2.1	24.1	1.1	27.3	0.8
70	22.9	1.8	27.0	1.0	30.1	0.8
68	24.7	1.4	28.9	1.0	31.8	0.8

UNIT x 1000kg

O/R_MIN(5.1m)

E.ANGL	38.1m BOOM(MODEⅡ) + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	8.7	4.5	11.7	2.8	13.8	2.0
79	9.6	4.5	12.6	2.7	14.6	1.9
78	10.5	4.5	13.5	2.7	15.4	1.9
77	11.4	4.5	14.3	2.6	16.2	1.9
76	12.3	4.4	15.2	2.6	17.0	1.9
75	13.1	4.2	16.0	2.5	17.8	1.8
73	14.8	3.8	17.7	2.4	19.4	1.8
70	17.2	3.3	20.1	2.3	21.7	1.8
68	18.7	2.9	21.7	2.2	23.2	1.7
65	20.9	2.2	23.9	1.9	25.4	1.7
63	22.3	1.8	25.2	1.6	26.6	1.5
60	24.3	1.3	27.1	1.2	28.4	1.1
58	25.7	1.1	28.3	0.9	29.5	0.9
55	27.6	0.7	30.1	0.6	31.2	0.6

E.ANGL	38.1m BOOM(MODEⅡ) + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	11.1	2.7	15.8	1.4	19.4	0.9
79	12.1	2.7	16.8	1.3	20.4	0.9
78	13.2	2.6	17.8	1.3	21.3	0.9
77	14.2	2.5	18.7	1.2	22.2	0.9
76	15.2	2.4	19.7	1.2	23.1	0.8
75	16.2	2.3	20.7	1.2	23.9	0.8
73	18.1	2.1	22.5	1.1	25.7	0.8
70	21.0	1.9	25.3	1.1	28.2	0.8
68	22.8	1.7	27.0	1.0	29.8	0.8
65	25.5	1.6	29.6	1.0	32.2	0.8
63	27.0	1.3	31.2	0.9	33.7	0.7
60	29.3	0.9	33.4	0.7	35.7	0.6
58	30.8	0.7				

UNIT x 1000kg

O/R_MIN(5.1m)

E.ANGL	34.3m BOOM(MODEⅠ) + 8.8m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	7.6	4.5	10.6	2.8	12.6	2.0
79	8.4	4.5	11.3	2.8	13.4	2.0
78	9.2	4.5	12.1	2.7	14.1	1.9
77	10.0	4.5	12.9	2.7	14.8	1.9
76	10.8	4.5	13.6	2.6	15.5	1.9
75	11.6	4.3	14.4	2.6	16.2	1.9
73	13.1	4.0	15.9	2.5	17.6	1.8
70	15.3	3.7	18.0	2.3	19.7	1.8
68	16.7	3.3	19.5	2.3	21.0	1.7
65	18.6	2.4	21.5	2.1	22.9	1.7
63	19.9	2.0	22.7	1.7	24.1	1.6
60	21.8	1.4	24.4	1.3	25.8	1.2
58	23.1	1.1	25.6	1.0	26.8	1.0
55	24.8	0.8	27.2	0.7	28.3	0.6

E.ANGL	34.3m BOOM(MODEⅠ) + 15.2m JIB					
	5°TILT		25°TILT		45°TILT	
	RADIUS	LOAD	RADIUS	LOAD	RADIUS	LOAD
80	9.7	2.7	14.6	1.4	18.3	0.9
79	10.7	2.7	15.5	1.4	19.1	0.9
78	11.6	2.7	16.4	1.3	19.9	0.9
77	12.6	2.6	17.2	1.3	20.7	0.9
76	13.5	2.5	18.1	1.3	21.5	0.9
75	14.4	2.4	18.9	1.2	22.3	0.8
73	16.1	2.2	20.6	1.2	23.8	0.8
70	18.7	2.0	23.1	1.1	26.1	0.8
68	20.4	1.8	24.7	1.0	27.6	0.8
65	22.8	1.6	27.0	1.0	29.7	0.8
63	24.3	1.4	28.5	0.9	31.0	0.8
60	26.5	1.0	30.6	0.8	32.9	0.7
58	27.8	0.7				

NOTES

1. Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above thick lines are based on crane strength and those below, on its stability.

2. Rated lifting capacities based on crane stability are according to ISO4305.

3. The mass of the hook (570kg for *60 t capacity, 450 kg for *35t capacity, 150kg 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

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 boom hook mass and the net capacity must be so reduced.

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		11.1m	15.0m	18.8m	26.6m	34.3m to 42.0m	Single top Jib
Number of parts of line	model Ⅰ	12	10 ~ 8	8 ~ 6	6 ~ 4	4	1
	model Ⅱ			6 ~ 4			

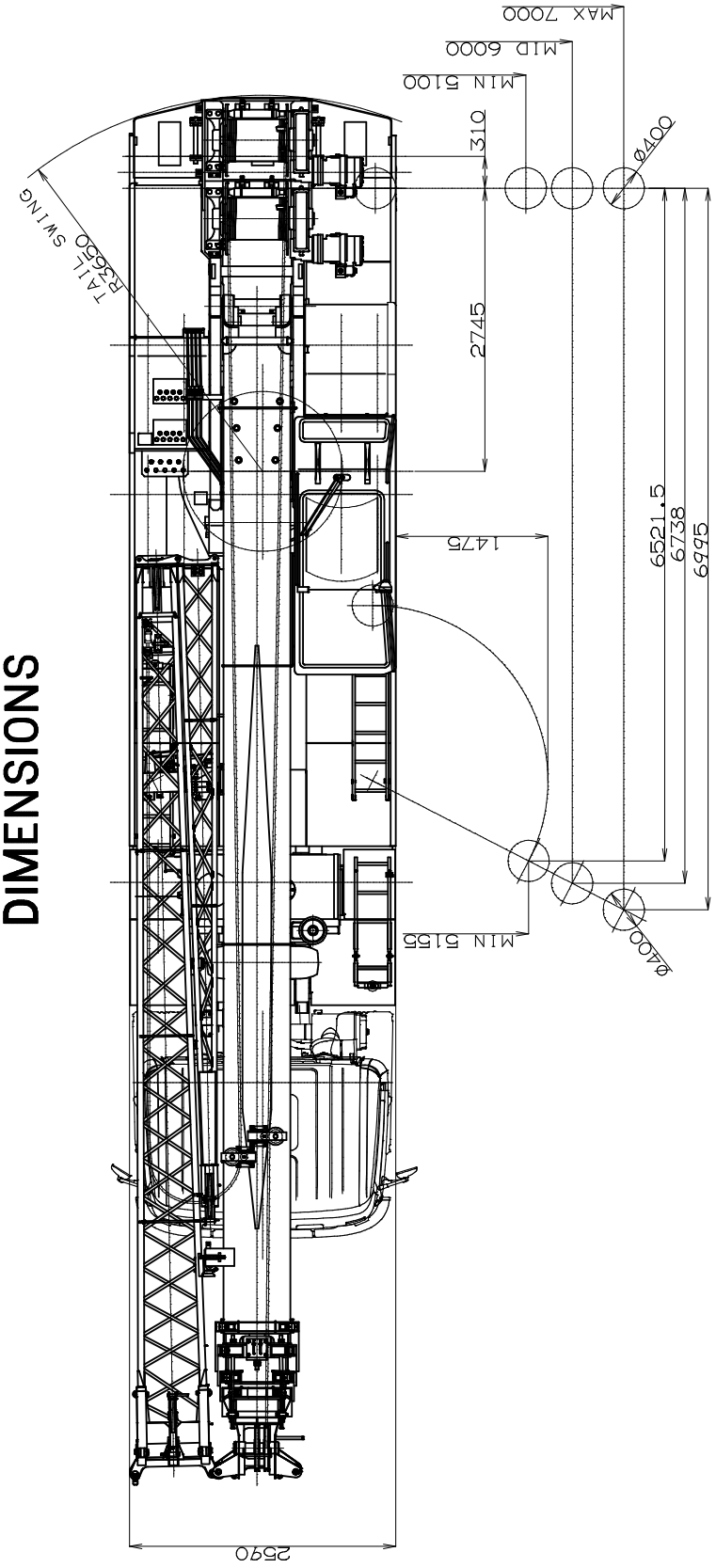
The lifting capacity data stowed in the AUTOMATIC MOMENT LIMITER (AML) is based on the standard number of parts of line listed in the chart.
Maximum lifting capacity is restricted by the number of parts of line of AUTOMATIC MOMENT LIMITER (AML).

6.HOISTING PERFORMANCE

	Main or auxiliary hoist 0.4m drum -19mm wire rope	
Layer	Line pulls	drum grooved lagging
	Available	Total wire rope
	kgf	Meters
1st	6,630	37.6
2nd	6,080	78.3
3rd	5,610	122.0
4th	5,220	168.8
5th	4,870	218.6
6th	4,560	271.6
7th[1]	4,300	327.5

[1] 7th layer of wire rope is not recommended for hoisting operations.

DIMENSIONS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6738
6995
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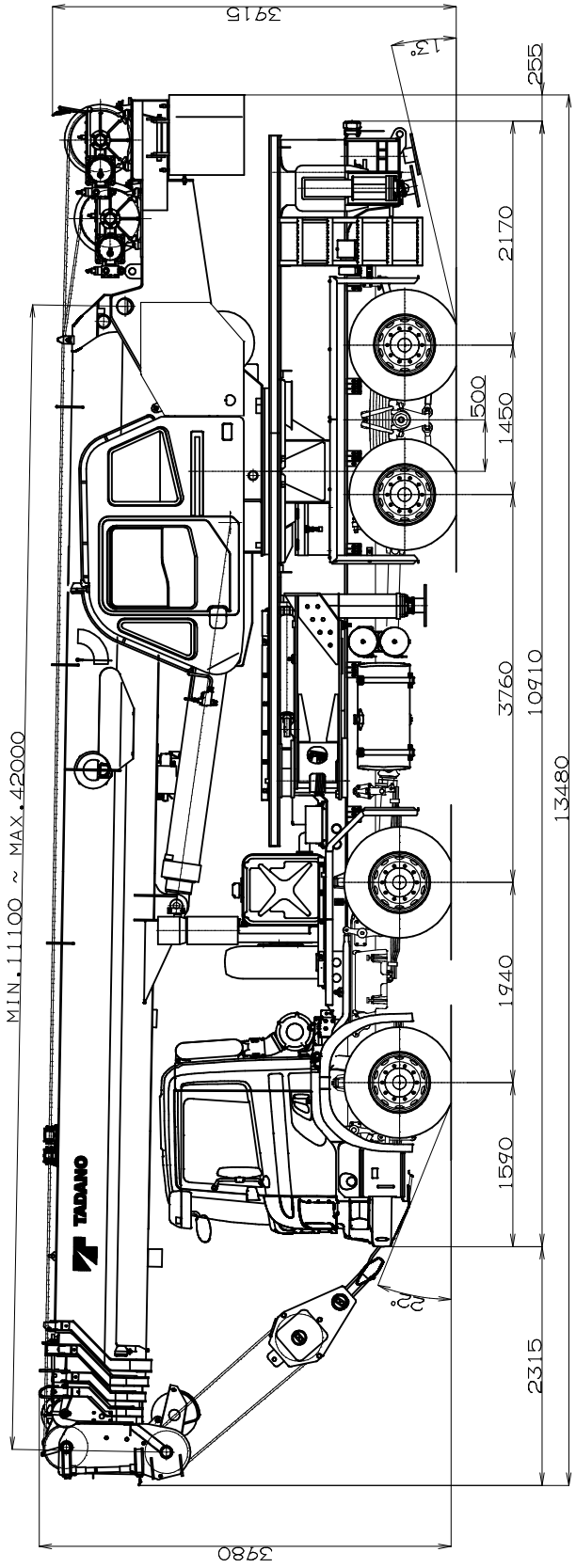
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500
1450
3760
10910
13480
MIN.11100 ~ MAX.42000
1940
1590
22°
2315
TADANO
3980