TADANO HYDRAULIC TRUCK CRANE

SPEC. SHEET NO. GS-600E-1-90101/SP-01

GS-600EX

Singaporean Model

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.	3,950 mm
MASS		
Gross vehicle mass	approx.	42,800 kg
—front axle	approx.	15,800 kg
—rear axle	approx.	27,000 kg
PERFORMANCE		
Max. traveling speed	computed	80 km/h (limiter)
		*60 km/h (limiter for Singapore)
Gradeability (tanθ)	computed	50 %

CRANE SPECIFICATIONS

MODEL
GS-600EX

CAPACITY
60,000 kg at 3.0 m

BOOM
5-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.

Fully retracted length..... 11.1 m
Fully extended length..... 42.0 m
Extension speed..... 30.9 m in 130 s

JIB
2-staged slewing around boom extension. Triple offset (5˚/ 25˚/ 45˚) 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˚ to 80˚
Boom raising speed..... 20˚ to 60˚ 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 counter-balance 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

CRANE SPECIFICATIONS

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° 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.....2 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.

- Moment 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

COUNTERWEIGHT

Integral with slewing frame

- Mass.....4,630 kg

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

CARRIER SPECIFICATIONS

SPEC. SHEET NO. GS-600E-1-90101/SP-01

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..... AM920 (2x9,000kg)
Rear..... AD1501P, bogie type BT300B (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 2nd, 3rd, 4th 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

EQUIPMENT

FOR CRANE

Standard Equipment
Automatic moment Limiter (AML)
3-colors External lamp (AML)
Anti-two-block device
Winch automatic fail-safe brake
Winch drum rotation indicator (visual type)
Winch drum mirror
Cable follower
5.6t capacity hook block (swivel hook)
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
3 working lights
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)
Eco mode system
Tool box with lock key
Spare tire carrier with lock key
Telematics (machine data logging and monitoring system) with – HELLO-NET via internet (availability depends on countries)

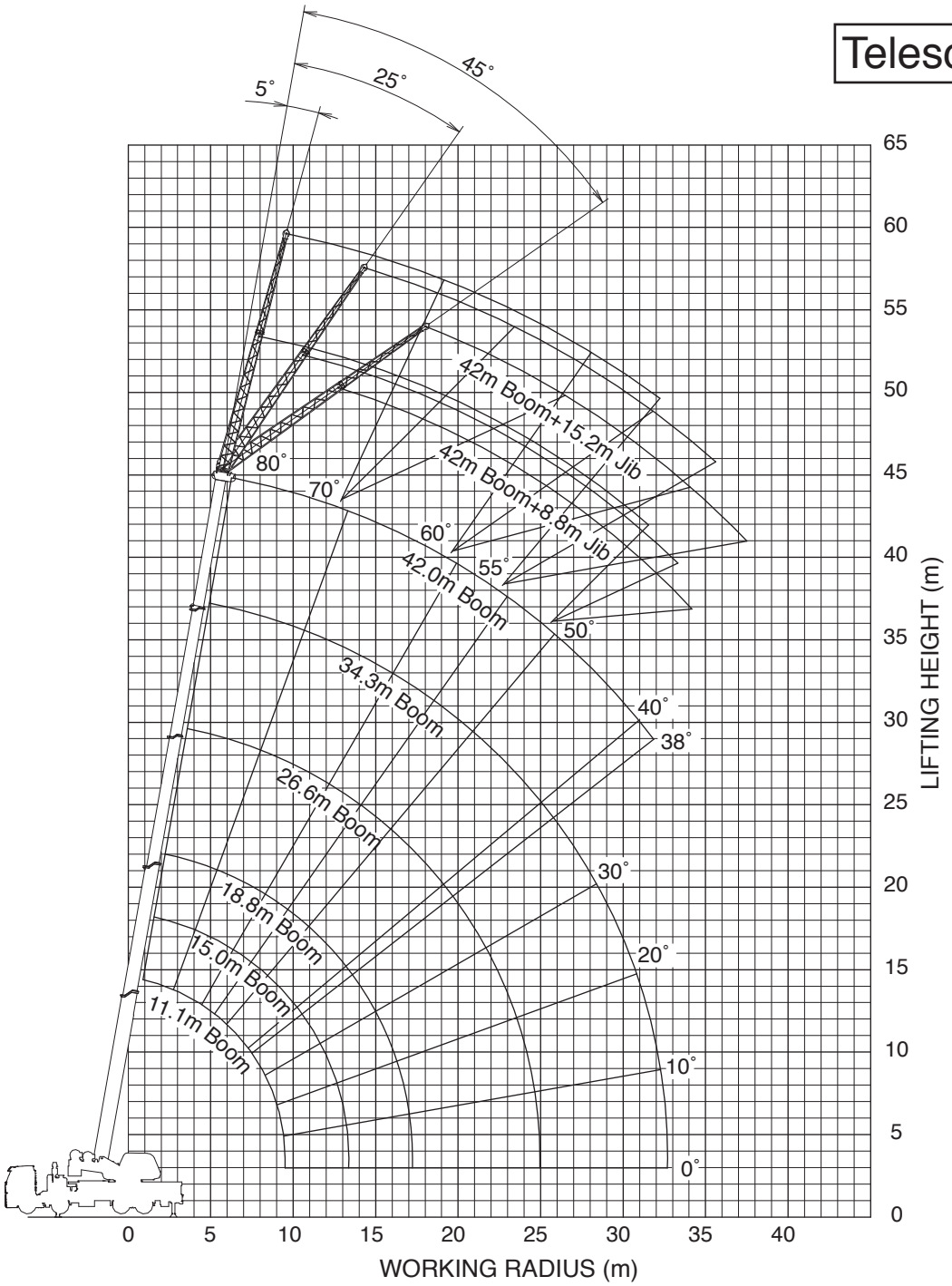
Optional Equipment
☐60 t capacity hook block (6 sheaves)
☐35 t capacity hook block (3 sheaves)
☐Over-unwinding prevention

FOR CARRIER

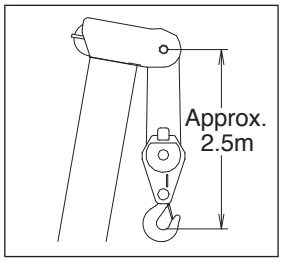
Standard Equipment
Reverse alarm with disabling
Head lamp protection
12V socket in dashboard
Fold out step in bumper
Boarding step lighting
Towing devise in front bumper
Protective rubber floor mats
Tool kit

WORKING RANGE

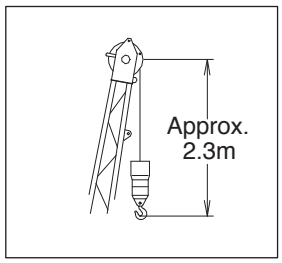
Telescoping mode I



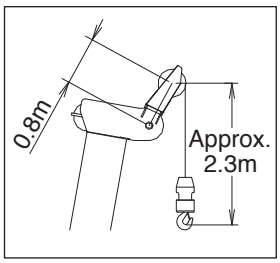
BOOM



JIB

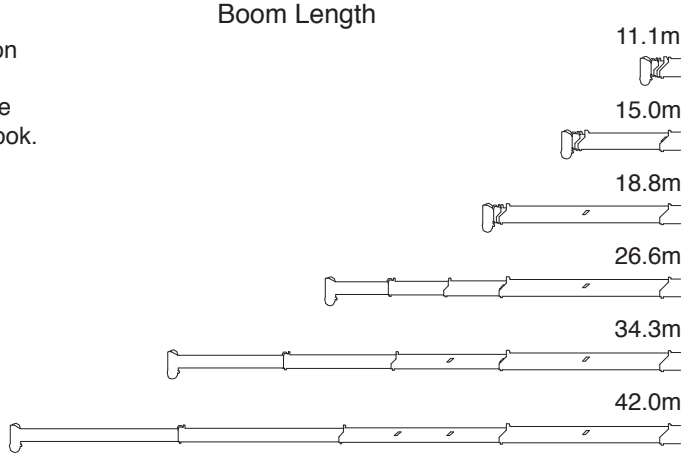


SINGLE TOP



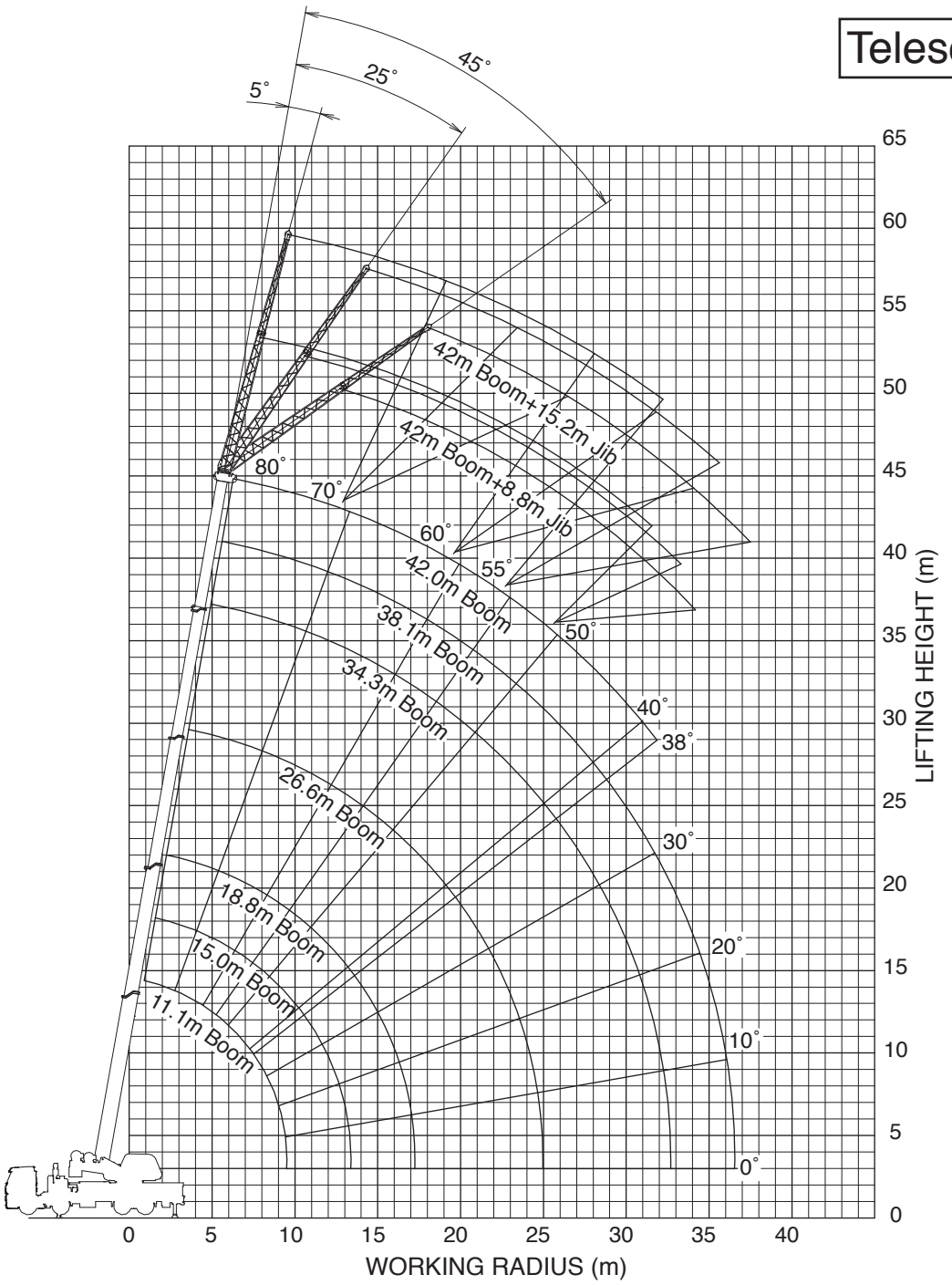
NOTE:
Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.

Boom Length

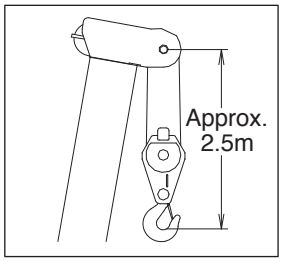


WORKING RANGE

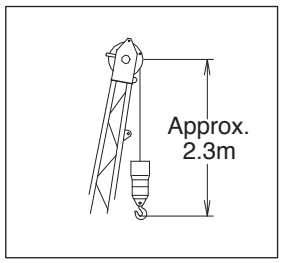
Telescoping mode Ⅱ



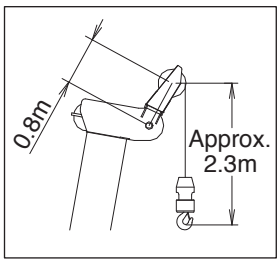
BOOM



JIB

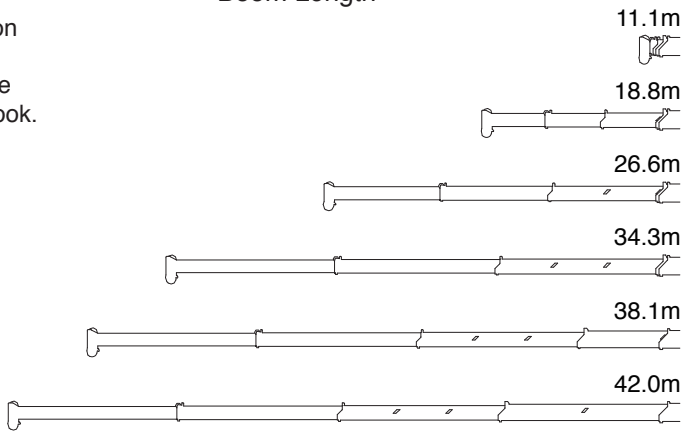


SINGLE TOP



NOTE:
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.

Boom Length



RATED LIFTING CAPACITIES (BOOM)
ISO 4305

SPEC. SHEET NO. GS-600E-1-90101/SP-01

UNIT: x1,000kg

Outriggers fully extended (7.0m)

A / B	11.1		15.0		18.8				26.6				34.3				38.1		42.0	
	C		C		C		C		C		C		C				C		C	
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		
D	0																		37	
Rated Lifting Capacities	14.8		6.9		3.3		5.3		1.2		2.5				1.2					
B	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	

UNIT: x1,000kg

Outriggers extended to middle (6.0m)

A / B	11.1		15.0		18.8				26.6				34.3				38.1		42.0	
	C		C		C		C		C		C		C				C		C	
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				
D	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	
B	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	

UNIT: x1,000kg

Outriggers extended to minimum (5.1m)

A / B	11.1		15.0		18.8				26.6				34.3				38.1		42.0	
	C		C		C		C		C		C		C				C		C	
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				
D	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	
B	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	

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

RATED LIFTING CAPACITIES (JIB)
ISO 4305

ON OUTRIGGERS

Outriggers fully extended (7.0m)
(Unit: ×1000kg)

C	42.0m Boom + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

C	42.0m BOOM + 15.2m JIB					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

Outriggers fully extended (7.0m)
(Unit: ×1000kg)

C	38.1m Boom(telescoping mode II) + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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		

C	38.1m Boom(telescoping mode II) + 15.2m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

Outriggers fully extended (7.0m)
(Unit: ×1000kg)

C	34.3m Boom(telescoping mode I) + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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		

C	34.3m Boom(telescoping mode I) + 15.2m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

C: Loaded boom angle (˚)
R: Load radius(m)
W: Rated lifting capacity(Unit:×1,000kg)

RATED LIFTING CAPACITIES (JIB)
ISO 4305

ON OUTRIGGERS

Outriggers extended to middle (6.0m)
(Unit: ×1000kg)

C	42.0m Boom + 8.8m JIB					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

C	42.0m Boom + 15.2m JIB					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

Outriggers extended to middle (6.0m)
(Unit: ×1000kg)

C	38.1m Boom (telescoping mode II) + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

C	38.1m Boom (telescoping mode II) + 15.2m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

Outriggers extended to middle (6.0m)
(Unit: ×1000kg)

C	34.3m Boom (telescoping mode I) + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

C	34.3m Boom (telescoping mode I) + 15.2m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

C: Loaded boom angle (˚)
R: Load radius(m)
W: Rated lifting capacity(Unit:×1,000kg)

RATED LIFTING CAPACITIES (JIB)
ISO 4305

ON OUTRIGGERS

Outriggers extended to minimum (5.1m)
(Unit: ×1000kg)

C	42.0m Boom + 8.8m JIB					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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		

C	42.0m Boom + 15.2m JIB					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

Outriggers extended to minimum (5.1m)
(Unit: ×1000kg)

C	38.1m Boom (telescoping mode II) + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

C	38.1m Boom (telescoping mode II) + 15.2m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

Outriggers extended to minimum (5.1m)
(Unit: ×1000kg)

C	34.3m Boom (telescoping mode I) + 8.8m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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

C	34.3m Boom (telescoping mode I) + 15.2m Jib					
	5˚Tilt		25˚Tilt		45˚Tilt	
	R	W	R	W	R	W
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				

C: Loaded boom angle (˚)
R: Load radius(m)
W: Rated lifting capacity(Unit:×1,000kg)

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)

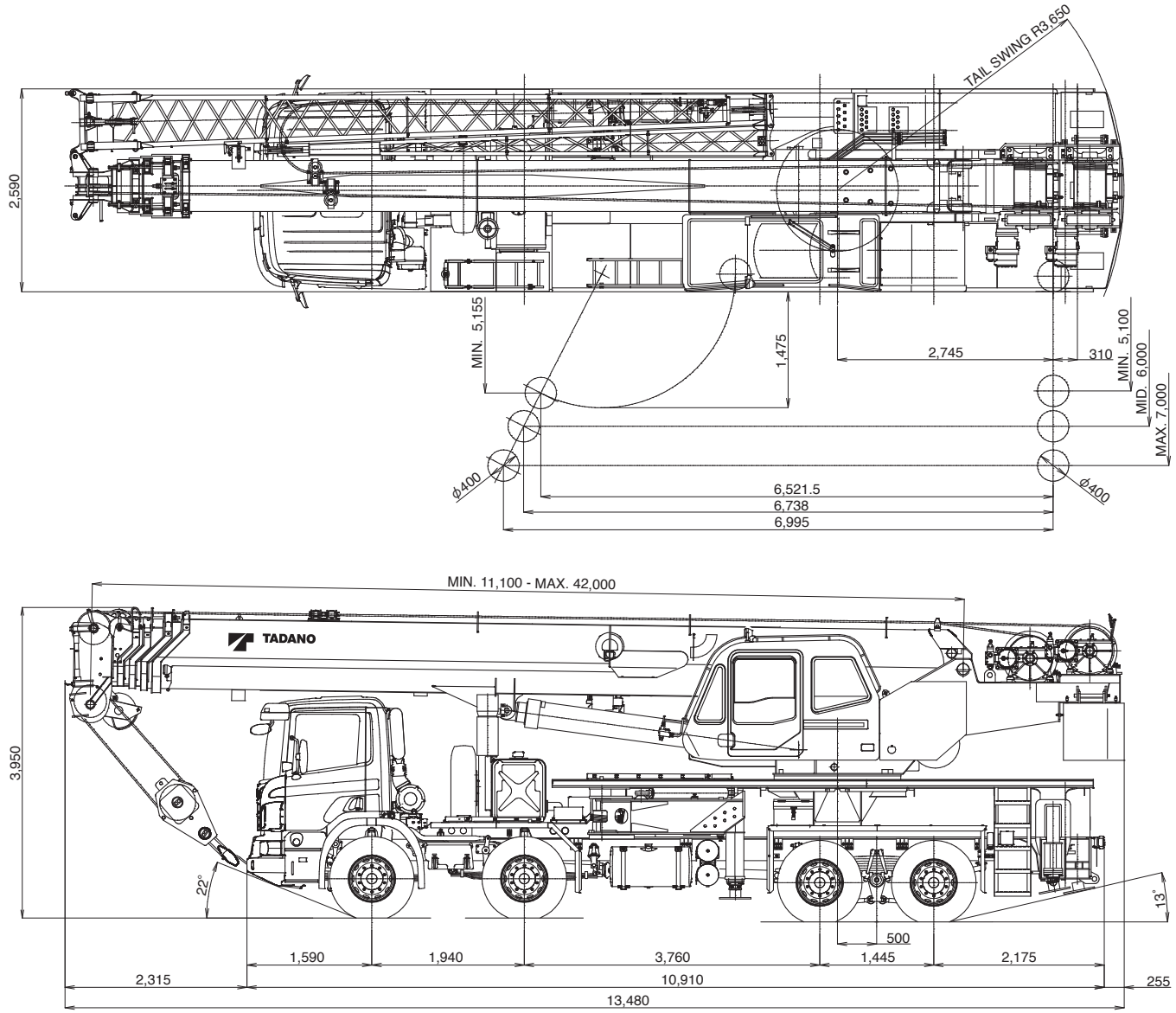
4. For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reduction for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main boom hook mass and the net capacity must be so reduced.

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).

DIMENSION



Axle weight distribution chart

			Kilograms		
			Total	Front	Rear
Base machine with 300L fuel * incl. 60 t hook block (optional)			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 (optional)	-570	-920	350
Add.	8	35t hook block (optional)	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.

Specifications are subject to change without notice.

TADANO

TADANO LTD. (International Division)
4-12, Kamezawa 2-chome,
Sumida-ku, Tokyo 130-0014, Japan
Tel : +81-(0)3-3621-7750
Fax : +81-(0)3-3621-7785
URL http://www.tadano.com/
E-mail info@tadano.com

Printed in Japan

GS-600EX-2014-06-01