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Hitachi Sumitomo Heavy Industries Construction Cranes Co.,Ltd

Head Office: 12-14 Ueno 7-chome, Taito-ku, Tokyo 110-005, Japan

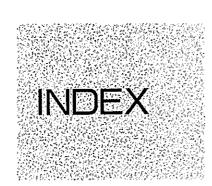
Telephone : (03)3845-1386 Facsimile : (03)3845-1394 http://www.hands-crane.com

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HITACHI SUMITOMO







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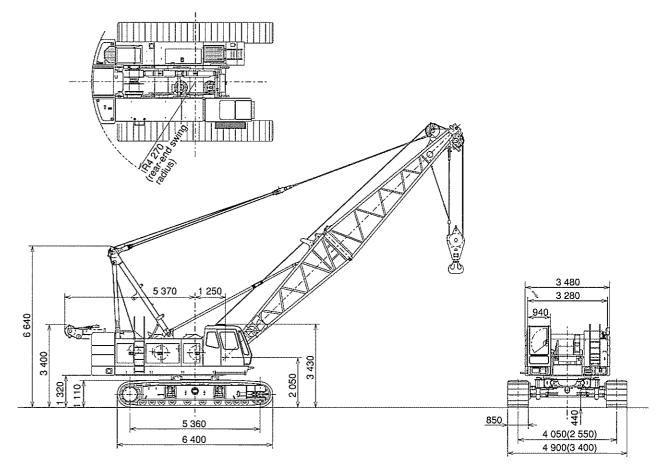
Note: • "ton" or "t" implies metric tons in this catalog.

• Specifications conform to the Safety Regulations for Cranes and Mobile Cranes in Japan.

CRAWLER CRANE

SGX(9)00

■Dimensions



Dimensions shown in () are with side frames fully retracted.

■Specifications

Maximum rated Load × Working radius	ton × m	90×4
Basic boom length	m	13
Max. boom length	m	61
Jib length	m	10 - 28
Max. boom with jib length	m	49 + 28
Line speeds		
Main hoist drum	m/min	*105/60/30
Aux. hoist drum	m/min	*105/60/30
Boom hoist drum	m/min	*55
Swing speed	min ⁻¹ (rpm)	2.7 (2.7)
Travel speed	km/h	1.6/1.1
Gradeability	% (°)	30 (16)
Engine Model		Mitsubishi 6D24-T
Rated horsepower	kW/min ⁻¹ (PS/rpm)	184/2 000 (250/2 000)
Ground Pressure	kPa(kgf/cm²)	89 (0.91)
Operating Weight	ton	87.5 (Equipped with 13 m boom and 90 ton capacity hook)

Notes: 1. Data is expressed in SI units, followed by conventional units in ().

2. *Line speeds will vary with the load.



■Technical Description



SUPERSTRUCTURE



Engine

Model	.Mitsubishi 6D24-T
	.Water-cooled, 4-cycle, 6-cylinder,
	direct fuel injection type diesel engine .184 kW (250 PS) at 2 000 min ⁻¹
Rated horsepower	.184 kW (250 PS) at 2 000 min ⁻¹
	(2 000 rpm)
Maximum torque	.981 N·m (100 kgf·m) at 1 400 min ⁻¹
	(1 400 rpm)
Piston displacement	
Fuel tank capacity	
Electric system	.DC 24 V

Main and Auxiliary Hoist Mechanism

- •The SCX900 is equipped with dual hoist mechanisms, each consisting of independent main and auxiliary hoist drums driven by a hydraulic motor.
- Hoisting and lowering the load is achieved by forward/reverse rotation of the hydraulic motor.
- •Power lowering is carried out with a hydraulic brake.
- Hoisting and lowering can be carried out at three speeds-fast, medium and slow-to suit job requirements.
- •Each drum is fitted with a friction band-type brake. This allows free fall (rapid lowering) of the hook.
- •Main and auxiliary hoist drums are each fitted with a pawl-type drum lock to positively hold the load in the air.
- The drum brake is an external contracting friction band-type using durable non-asbestos lining.
- ●The brake is controlled by the hydraulic servo system to reduce control force. Two brake modes are available; auto brake or free fall.



Boom Hoist Mechanism

- •Boom hoisting/lowering is done by forward/reverse rotation of a hydraulic motor. Boom lowering is made by power lowering through a hydraulic brake.
- Both hydraulic brake and spring-set/hydraulic-released multiplate disc type brake offer positive stopping of the boom. When the boom is hoisted or lowered, brakes are automatically
- Drum pawl lock is manually controlled from operator's seat.



Swing Mechanism

- Independent operation
- Driven by two hydraulic motors through reduction gear. Swing speeds are freely controllable from zero to maximum speed with a single lever.

Swing Brake

The disc-type swing brake can be hydraulically applied by the brake switch on the swing lever.

Swing Lock

Manual mechanical-lock with a rod tip engaged in the holder of the track frame for transportation.

Swing Circle

Single-row shear-type ball bearing with heat-treated internal

Revolving Frame

All welded steel construction, stress-relieved, precision-machined for rigidity and strength.

Lowerable for transportation.

Counterweight

Welded structure, total weight 30 400 kg Consisting of 4 sections: One 8 580 kg

One 6 610 kg One 7 850 kg



Boom

Tubular Chord Crane Boom

1 500 mm wide by 1 500 mm deep at connection, lattice construction using high-tensile steel tubular chords

Basic boom	Total length 13.0 m, 2-piece construction; upper section 6.5 m and lower section 6.5 m
Boom point	Offset boom point, 4 sheaves (560 mm PCD) mounted on anti-friction bearings on
	boom top
Boom inserts	3.0 m, 6.0 m and 9.0 m long available
Connection type	Pin-connected
Boom backstop	Dual-rail, telescopic tubular construction with spring damper
Boom hoist bridle	Serves as connection between pendants and boom hoist wire rope reeving, equipped with 6 sheaves (420 mm PCD) for

Crane Jib

940 mm wide by 750 mm deep at connection, lattice construction using high-tensile steel tubular chords.

12-part boom hoist wire rope reeving

Jib length	. Total length 10.0 m, 2-piece construction;
	upper section 5.0 m and lower section 5.0 m
Jib point	. 1 sheave (560 mm PCD) mounted on
	anti-friction bearings on jib top
jib insert	. 6.0 m long available
Connection type	
Auxiliary jib	Optional. Attachable to the main boom top
	to hoist the light load quickly with a single
	rone

Note: Boom insert, crane jib, or auxiliary jib can be attached to the basic boom when needed. However, both crane jib and auxiliary jib cannot be attached simultaneously to the boom.

Tubular Chord Tower Crane Boom

1 500 mm wide by 1 500 mm deep at connection, lattice construction using high-tensile steel tubular chords

7.0 m minimum
5.0 m maximum
.0 m, 6.0 m and 9.0 m tower inserts are in
ommon with crane boom inserts
in-connected
ual-rail, telescopic tubular construction
ith spring damper.
erves as connection between pendants
nd boom hoist wire rope reeving,
quipped with 6 sheaves (420 mm PCD) for
2-part boom hoist wire rope reeving.
֡

Tower Jib

1 150 mm wide by 1 150 mm deep at connection, lattice construction using high-tensile steel tubular chords

. 19.0 m to 37.0 m

Jib inserts	3.0 m and 6.0 m long available
Connection type	Pin-connected
Tower jib hoist bridle	Serves as connection between tower boom
	pendants and tower boomb hoist wire rope
	reeving, equipped with 4 sheaves (540 mm
	PCD) for 8-part tower jib hoist wire rope
	reeving.



Operator's Cab

All-weather, well-ventilated, roomy operator's cab with good visibility. The independent cab is insulated against noise and vibration. Sliding, fold-in windshield swings up and stores in roof. Adjustable reclining seat.

HYDRAULIC SYSTEM

- •3 variable displacement piston pumps allow both independent and combined operations of all functions.
- Variable displacement piston pumps control working speeds, and make effective use of engine horsepower.

	Pump-1	Pump-2
Type of pump	Variable di	splacement
Pressure setting	29.4 MPa (300 kgf/cm²)	29.4 MPa (300 kgf/cm ²)
Max. Oil flow *	236 L/min	236 L/min

	Pump-3	Pump-4
Type of pump	Variable displacement	Gear
December 2004	27.5 MPa	4.9 MPa
Pressure setting	(280 kgf/cm ²)	(50 kgf/cm ²)
Max. Oil flow *	148 L/min	36 L/min

^{*} with non-loaded condition

Main and Auxiliary Hoist Motors

Swashplate-type axial piston motors with counterbalance valves

Boom Hoist Motor

Bent axial piston motor with counterbalance valve

Swing Motor

Swashplate-type axial piston motor

Travel Motors

Swashplate-type axial piston motors with brake valve and spring-set/hydraulic-released multiplate disc brake

Relief and Brake Valves

- Each hydraulic circuit incorporates large-capacity relief valves to protect circuit from overload and shock load.
- •Counterbalance valves, provided for hoist motor, compensate load lowering and prevent accidental load drop if hydraulic power is suddenly reduced.
- Brake valves (consisting of relief valve and counterbalance valve) are provided for travel circuit.

Pressure Settings

Main Circuit

Main relief valves

Hoist (main and aux.)	29.4 MPa (300 kgf/cm ²)
Hoist (main and aux.) Swing	25.5 MPa (260 kgf/cm ²)
Overload relief valves	
Hoist (main and aux.) circuits	30.8 MPa (315 kgf/cm ²)
Boom hoist circuit	31.4 MPa (320 kgf/cm ²)
Hoist (main and aux.) circuits Boom hoist circuit Travel circuit	29.4 MPa (300 kgf/cm ²)
Pilot Circuit	
Attain relief value	4.0 MDa / 50 kaffam²\

◆Main relief valve4.9 MPa (50 kgf/cm²)

High-filtration 10 µm full-flow filter element is incorporated in the return line. Pilot filter and suction filter are provided in each circuit.

UNDERCARRIAGE

Traction mechanism

- •Each track is driven by a swashplate-type axial piston motor through reduction gear. This mechanism allows counter-rotation of tracks for maneuverability in close quarters.
- •When the lever is in neutral position, both hydraulic brake and spring-set/hydraulic-released multiplate disc brake are automatically applied for stopping.

All-welded, stress-relieved, box-section construction.

Side Frames

Side frames of all-welded construction can be retracted for transportation.

Side-Loading Device/Side Frame Removal Device (Optional)

With the self-loading device/side frame removal device, the basic machine can be jacked up and loaded on to a trailer, and both side frames can be removed. Travel motor piping is connected via self-seal couplings for quick disconnection.

Track Shoes

Heat-treated alloy steel castings with induction-hardened roller path and driving lugs. Shoes are connected by induction-hardened

No. of upper rollers (each side)	4
No. of lower rollers (each side)	
No. of track shoes (each side)	
Shoe width	

CONTROLS

Boom, Main and Auxiliary Hoist, Swing and Travel Remote controlled hydraulic servo. Working speed can be precisely controlled according to lever stroke.

Electric Accelerator Grip

Engine power can be controlled according to job needs by electric finger-touch grip atop the swing lever, accelerator lever and accelerator pedal.

Monitor Telling Machine Conditions

With the monitor, the operator can check, at a glance, engine oil pressure, water temperature and fuel level, as well as levels of hydraulic oil, engine oil and coolant. The red light turns on and the buzzer sounds in the event of an abnormality.

SAFETY DEVICE

Boom Angle Indicator

Mechanical-type boom angle indicator is provided at boom foot.

Counterbalance Valves (Brake Valves)

Counterbalance valves are each incorporated in travel motors. boom hoist motor, and main and auxiliary hoist motors. If the hydraulic line is broken, this valve is automatically actuated to prevent motor rotation.

Spring-Set/Hydraulic-Released Multiplate Disc Type Travel

Swing Lock and Swing Parking Brake

Drum Locks (Electric Type)

A pawl-type drum locks, provided at main drum, auxiliary drum and boom drum, are automatically applied when the engine key is set to OFF or ACC position.

Devices for Crane Operation

●Moment Limiter

On the moment limiter, analog displays and pictorial load indications are functionally arranged for easy reading.

●Hook Overhoist Prevention Device

When the hook reaches its hoist limit, the bell sounds and the auto-stop automatically actuates at the same time.

●Boom Overhoist Prevention Device

When the boom reaches its angle limit, the buzzer alarm sounds and boom hoisting automatically stops at the same time. The telescopic-type boom backstop is also provided.

Secondary Boom Overhoist Prevention Device

In addition to the hook overhoist prevention device and boom overhoist prevention device, the secondary boom overhoist prevention device is provided. It actuates at a boom angle of 82° to avoid overhoisting of both the boom and/or hook.

●Pilot Control Shut-off Lever

The pilot control shut-off lever shuts out the hydraulic pilot pressure to pilot control valves. With the pilot control shut-off lever in the LOCK position, the machine will not operate even if the lever is accidentally shifted.

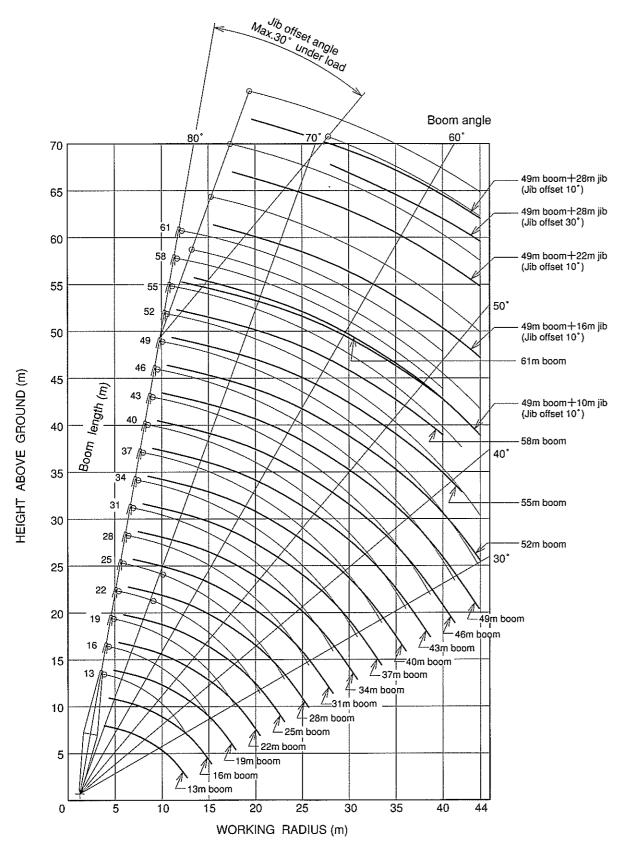
● Fail-safe mechanism

The related movements stop automatically if an electric wire is broken or an electric device fails.

SERVICE REFILL CAPACITIES

	Lite
Fuel tank	418
Engine coolant	47
Engine oil	4
Pump transmission	
Boom hoist reduction device	1
Winch hoist reduction device	19.5×2
Swing reduction device	17×2
Travel final device	25×2
Hydraulic system, including tank capacity	33
Hydraulic tank	

■Working Ranges



Note: Working ranges shown are under unloaded condition.



■Crane Ratings (Main Boom in 360° Working Area)

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- Oranic Ita	ingo (mam	Doom in se	o morking	Alca)					Om. (C
Working Radius				i	Boom Length (m	1)			
(m)	13	16	19	22	25	28	31	34	37
4.0	90.00								
4.5	80.50	4.6m×78.45t							
5.0	70.80	70.60	5.1m×68.25t						
5.5	60.85	60.65	60.55	5.7m×57.25t					·
6.0	53.35	53.10	53.00	52.95	6.2m×50.30t	İ			
6.5	47.40	47.20	47.25	47.00	46.90	6.7m×44.00t			
7.0	42.65	42.40	42.25	42.20	42.10	42.05	7.3m×39.45t	7.8m×35.75t	
8.0	35.45	35.20	35.05	35.00	34.85	34.80	34.65	34.50	8.4m×32.15
9.0	30.25	30.00	29.85	29.75	29.65	29.55	29.40	29.30	29.25
10.0	26.35	26.05	25.90	25.85	25.70	25.65	25.45	25.35	25.25
12.0	20.60	20.55	20.35	20.30	20.15	20.05	19.90	19.75	19.70
14.0	12.6m×18.40t	16.85	16.65	16.55	16.40	16.35	16.15	16.05	15.95
16.0		15.2m×14.90t	14.05	13.90	13.75	13.70	13.50	13.35	13.30
18.0			17.8m×12.25t	11.95	11.80	11.70	11.50	11.35	11.30
20.0				10.40	10.25	10.15	9.95	9.80	9.70
22.0				20.4m×10.15t	9.00	8.90	8.70	8.55	8.45
24.0					23.0m×8.50t	7.90	7.70 `	7.55	7.45
26.0						25.6m×7.20t	6.85	6.70	6.60
28.0							6.15	6.00	5.90
30.0							28.2m×6.10t	5.40	5.25
32.0								30.8m×5.20t	4.75
33.4			_						4.45

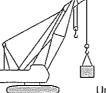
Working Radius		Boom Length (m)											
(m)	40	43	46	49	52	55	58	61					
8.9	29.50												
9.0	29.05	9.5m×26.85t				İ							
10.0	25,10	25,00	24.85	10.6m×22.00t	11.1m×21.25t	11.7m×19.60t	ntermopropriate and accompanies						
12.0	19.55	19.40	19.25	19.20	19.05	18.90	12.2m×17.30t	12.8m×15.00t					
14.0	15.80	15.65	15.50	15.45	15.30	15.15	15.00	14.50					
16.0	13.10	12.95	12.85	12.75	12.60	12.45	12.30	12,15					
18.0	11.10	10.95	10.80	10.75	10.60	10.45	10.30	10.10					
20.0	9.55	9.40	9.25	9,15	9.05	8.90	8.70	8.55					
22.0	8.30	8.15	8.00	7.90	7.75	7.60	7.45	7.30					
24.0	7.25	7.10	6.95	6.90	6.75	6.60	6.40	6.25					
26.0	6.40	6.25	6.10	6.00	5.90	5.75	5.55	5.35					
28.0	5.70	5.55	5.40	5.30	5.15	4.95	4.75	4.50					
30.0	5.10	4.95	4,80	4.65	4.45	4.25	4.05	3.80					
32.0	4.55	4.40	4.20	4.05	3.85	3.65	3.45	3.20					
34.0	4.10	3.90	3.70	3.55	3.35	3.15	2.90	2,70					
36.0	3.65	3.45	3.25	3.05	2.90	2.70	2.45	2.25					
38.0		3.05	2.85	2.65	2.50	2.30	2.05	1.80					
40.0		38.6m×2.95t	2.50	2.30	2.10	1.90	1.70	39.7m×1.50t					
42.0			41.2m×2.30t	2.00	1.80	1.60	41.1m×1.50t						
44.0	-			43.8m×1.75t	1.50	42.6m×1.50t							

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.
 - 2. The load to be actually lifted, will be the rated load shown minus the weight of all lifting attachments, such as a hook.
 - 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - 4. The counterweight is 30.4 ton.
 - 5. Be sure to fully extend the side frames before operating the machine.
 - 6. Correlation among the number of rope reevings, maximum rated loads and hook weights are shown in the table below

Hook	Hook				Maximum Ra	ted Load (ton)			
Capacity (ton)	Weight (ton)	8	7	6	5	4	3	2	1
90	0.97	90	77	66	55	44		_	
45	0.62			_	_	44	33	22	
22	0.60					l —	_	22	

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Propo Datingo / Auviliany lib in 2600 Marking Area)

Crane Ratin	iys (Auxillar	y JID III 360°	WORKING Are	Declaration of Committee Control (Control Control Cont			<u> </u>	D Unit: to					
Working Radius		Boom Length (m)											
(m)	13	16	19	22	25	28	31	34					
4.8	11.00												
5.0	11.00	5.3m×11.00t											
5.5	11.00	11.00	5.9m×11.00t										
6.0	11.00	11.00	11.00	6.4m×11.00t									
6.5	11.00	11.00	11.00	11.00									
7.0	11.00	11.00	11.00	11.00	11.00	7.5m×11.00t							
8.0	11.00	11.00	11.00	11.00	11.00	11.00	11.00	8.6m×11.00t					
9.0	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00					
10.0	11.00	11,00	11.00	11.00	11.00	11.00	11.00	11.00					
12.0	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00					
14.0	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00					
16.0		11.00	11.00	11.00	11.00	11.00	11.00	11.00					
18.0		16.6m×11.00t	11.00	11.00	11.00	11.00	11.00	11.00					
20.0		7/00/07/29/7/87/7/8/7/8/7/8//	19.2m×10.95t	10.25	10.05	9,95	9.75	9.60					
22.0				21.8m×9.15t	8.80	8.70	8.50	8.35					
24.0					7.80	7.70	7.50	7.30					
26.0					24.4m×7.65t	6.85	6.65	6.45					
28.0						27.0m×6.50t	5.95	5.75					
30.0				56,00,00,00,00,00			29.6m×5.45t	5.15					
32.0								4.65					
32.2								5.60					

Working Radius				Boom Length (m)			
(m)	37	40	43	46	49	52	55
9.1	11.00	9.7m×11.00t					
10.0	11.00	11.00	10.2m×11.00t	10.8m×11.00t	11.3m×11.00t	11.9m×11.00t	
12.0	11.00	11.00	11.00	11.00	11.00	11.00	12.4m×11.00t
14.0	11.00	11.00	11.00	11.00	11.00	11.00	11.00
16.0	11.00	11.00	11.00	11.00	11.00	11.00	11.00
18.0	11.00	10.90	10.75	10.60	10.50	10.35	10.20
20.0	9.50	9.30	9.15	9.00	8.95	8.80	8,65
22.0	8.25	8.05	7.90	7.75	7.65	7.50	7.35
24.0	7.20	7.05	6.90	6.70	6.65	6.45	6.30
26.0	6.35	6.20	6.00	5.85	5.75	5.60	5.45
28.0	5.65	5.45	5.30	5.15	5.00	4.80	4.60
30.0	5.05	4.85	4.65	4,45	4,30	4.10	3.90
32.0	4.50	4.30	4.05	3.85	3.70	3.50	3.30
34.0	4.00	3.75	3.55	3.35	3.20	3.00	2.80
36.0	34.8m×3.85t	3.30	3.10	2.90	2.75	2.55	2.30
38.0		37.4m×3.05t	2.70	2.50	2.30	2.10	1.90
40.0			2.35	2.15	1.95	1.75	1.55
42.0				1.85	1.65	41.6m×1.50t	40.2m×1.50t
42.6				1.75			

Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

2. 1110 1000 10 00 0010	idily intod this bo dio it
Hook Capacity (ton)	Weight (ton)
90	0.97
45	0.62
22	0.60
11	0.37

- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- 4. The counterweight is 30.4 ton.5. Be sure to fully extend the side frames before operating the machine.



11

■Crane Ratings (Main Boom with Auxiliary Jib in 360° Working Area)

Clane Nau	ngs (Main De	JOHI WILLI AU	mary Jib in a		yolicznia oceania za konocyczne cesznyc		<u> </u>	Dnit: to
Working Radius				Boom Le	ength (m)			75 6 6 6 6
(m)	13	16	19	22	25	28	31	34
4.0	89.65							
4.5	80.15	4.6m×78.10t						
5.0	70.40	70.20	5.1m×67.90t					
5.5	60.50	60.25	50.15	5.7m×56.85t				
6.0	52.95	52.70	52.60	52.55	6.2m×49.90t			
6.5	47.05	46.80	46.65	46.60	46.50	6.7m×44.00t		
7.0	42.25	42.00	41.90	41.80	41.70	41.65	7.3m×39.00t	7.8m×35.35t
8.0	35.05	34.80	34.65	3460	34.45	34.40	34.20	34.10
9.0	29.90	29.60	29.45	29.40	29.25	29.20	29.00	28.85
10.0	29.95	25.70	25.55	25.45	25.30	25.25	25.05	24.90
12.0	20.10	20.15	20.00	19.90	19.75	19.65	19.50	19.35
14.0	12.6m×17.95t	16.50	16.30	16.20	16.05	15.95	15.75	15.60
16.0		15.2m×14.40t	13.70	13.55	13.40	13.30	13.10	12.95
18.0			17.8m×11.85t	11.60	11.40	11.30	11.10	10.95
20.0				10.05	9.85	9.75	9.55	9.40
22.0				20.4m×9.80t	8.65	8.50	8.30	8.15
24.0					23.0m×8.15t	7.55	7.30	7.15
26.0						25.6m×6.85t	6.50	6.30
28.0							5.80	5.60
30.0		10-32-18-20-0-0-0-0	0.5000.000000.00000	0,000,050,000,000,000,000			28.2m×5.75t	5.00
30.8								4.80

Working Radius				Boom Length (m))		
(m)	37	40	43	46	49	52	55
8.4	31.75	8.9m×29.10t					
9.0	28.80	28.65	9.5m×26.40t				
10.0	24.85	24.70	24.55	24.40	10.6m×22.00t	11.1m×20.80t	11.7m×19.15t
12.0	19.30	19.10	18.95	18.80	18.75	18.60	18.45
14.0	15.55	15.35	15.20	15.05	15.00	14.85	14.70
16.0	12.90	12.70	12.55	12,40	12.30	12.15	12.00
18.0	10.85	10.70	10.55	10.35	10.30	10.15	10.00
20.0	9.30	9.10	8.95	8.80	8.70	8.55	8.40
22.0	8.05	7.85	7.70	7.55	7.45	7.30	7.15
24.0	7.05	6.85	6.70	6.55	6.45	6.30	6.15
26.0	6.20	6.00	5.85	5.70	5.60	5.45	5.25
28.0	5.50	5.30	5.15	4.95	4.85	4.70	4.55
30.0	4.90	4.70	4.55	4.35	4.25	4.10	3.95
32.0	4.40	4.15	4.00	3.85	3.70	3.55	3.40
34.0	33.4m×4.00t	3.70	3.55	3.35	3.25	3.10	2.95
36.0		3.20	3.15	2.95	2.85	2.70	2.50
38.0			2.65	2.60	2.50	2.35	2.15
40.0		5,486n25-16165-5-4	38.6m×2.50t	2.15	2,15	2,20	1.85
42.0				41.2m×1.85t	1.70	1.65	1.55
44.0					42.8m×1.50t	42.7m×1.50t	42.2m×1.50t

Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times overfront stability stipulated by the mobile crane construction standards.

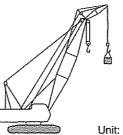
- 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.
- Auxiliary hook Hook capacity: 11 ton Hook weight: 0.37 ton

 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- 4. The counterweight is 30.4 ton.
- Be sure to fully extend the side frames before operating the machine.
- 6. Correlations among the number of hoist rope reevings, maximum rated loads and hook weights are shown in the table below.

Hook	Hook				Maximum Ra	ted Load (ton)			
Capacity (ton)	Weight (ton)	8	7	6	5	4	3	2	1
90	0.97	90	77	66	55	44	_	_	
45	0.62		_	_		44`	33	22	
22	0.60							22	

10





■Crane Ratings (Jib in 360° Working Area) (1)

Boom Length (m)	_ \5.2		/ \./		4) Unit: to
Jib Length (m)	1	0	1	16		2	2	8
Offset Angle (°) Working Radius (m)	10	30	10	30	10	30	10	30
11.3	11.00							
12,0	11.00		13.4m×11.00t					
14.0	11.00	14.3m×11.00t	11.00		15.5m×9.20t			
16.0	11.00	10.60	11.00		9.05		17.6m×5.05t	
18.0	11.00	10.20	11.00	18.20m×8.55t	8.65		5.00	
20.0	9.95	9.80	10.20	8.20	8.30		4.70	
22.0	8.65	8.95	8.90	7.80	7.95	22.1m×6.25t	4.50	
24.0	7.60	7.90	7.85	7.45	7.65	5.90	4.30	
26.0	6.70	6.95	6.95	7.15	7.10	5.60	4.10	3.25
28.0	6.00	6.20	6.20	6.55	6.35	5.35	3.90	3.15
30.0	5.35	5.50	5.55	5.85	5.70	5.10	3.75	3.05
32.0	4.80	4.95	5.00	5.25	5.15	4.90	3.60	3.00
34.0	4.35	4.45	4.50	4.75	4.65	4.70	3.45	2.90
36.0	3.90	4.00	4.10	4.30	4.20	4.50	3.35	2.85
38.0	3.55	3.60	3.70	3.90	3.80	4.10	3.25	2.75
40.0	3.25	3.25	3.35	3.50	3.50	3.75	3.15	2,70
42.0	40.6m×3.05t	41.2m×3.00t	3.05	3.20	3.15	3.40	3.05	2.65
44.0			2.80	2.90	2.90	3.10	2.95	2.60
46.0			2.45	2.60	2.65	2.80	2.70	2.55
48.0			46.3m×2.35t	47.2m×2.30t	2.40	2.55	2.50	2.55
50.0					2.20	2.30	2.25	2.45
52.0					51.9m×1.80t	2.05	2.10	2.25
54.0						53.2m×1.75t	1.90	2.05
56.0							1.60	1.85
58.0							56.5m×1.50t	1.55
58.5								58.2m×1.50t

Boom Length (m)				3	37			
Jib Length (m)	1	10		16		22	2	8
Offset Angle (°) Working Radius (m)	10	30	10	30	10	30	10	30
11.9	11.00							
12.0	11.00							
14.0	11.00	14.9m×10.95t	11.00					
16.0	11.00	10.70	11.00		16.1m×9.15t			
18.0	11.00	10.30	11.00	18.8m×8.55t	8.80		18.2m×5.00t	
20.0	9.85	9.55	10.10	8.30	8,40		4.80	
22.0	8.55	8.90	8.80	7.90	8.05	22.7m×6.20t	4.55	
24.0	7.50	7.80	7.70	7.60	7.75	6.00	4.35	
26.0	6.60	6.90	6.85	7.25	7.00	5.70	4.15	26.6m×3.25
28.0	5.85	6.10	6.10	6.45	6.25	5.45	4.00	3.20
30.0	5.25	5,45	5,45	5.80	5.60	5.20	3,85	3,10
32.0	4.70	4.85	4.90	5.20	5.00	5.00	3.70	3.00
34.0	4.20	4.35	4.40	4.65	4.55	4.80	3.55	2.95
36.0	3.80	3.90	3.95	4.20	4.10	4.45	3.45	2,85
38.0	3.40	3.50	3.60	3.80	3.70	4.05	3.30	2.80
40.0	3.10	3.15	3.25	3.40	3.35	3.65	3.20	2.75
42.0	2.80	2.85	2.95	3.10	3.05	3.30	3.10	2.70
44.0	43.2m×2.50t	43.8m×2.40t	2.65	2.80	2.75	3.00	2.85	2.65
46.0			2.40	2.50	2.50	2.70	2.60	2.60
48.0			2,10	2.25	2.30	2.45	2.35	2.55
50.0		62 PS (2:26) SU(5)	48.9m×1.90t	49.8m×1.85t	2.10	2.20	2.15	2.40
52.0					1.85	2.00	1.95	2.15
54.0					1.50	1.75	1.75	1.95
56.0						551.1m×1.50t	1.55	1.75
58.0							56.4m×1.50t	1.60
58.5								1.50

Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

Hook Capacity (ton)	Weight (ton)
90	0.97
45	0.62
22	0.60
11	0.37

- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- The counterweight is 30.4 ton.
 Be sure to fully extend the side frames before operating the machine.



■Crane Ratings (Jib in 360° Working Area)	(2	2
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Boom Length (m)				4	ŀO			
Jib Length (m) 10			1	6	2	2	2	8
Offset Angle (°) Working Radius (m)	10	30	10	30	10	30	10	30
12.4	11.00							
14.0	11.00	15.4m×10.95t	14.5m×11.00t					
16.0	11.00	10.85	11.00		16.6m×9.15t			
18.0	11.00	10.45	11.00	19.3m×8.50t	8.90		18.7m×5.00t	
20.0	9.65	10.10	9.95	8.40	8.55		4.85	
22.0	8.35	8.75	8.65	8.05	8.20	23.2m×6.20t	4.65	
24.0	7.30	7.65	7.55	7.70	7.75	6.10	4.45	
26.0	6.45	6.70	6.65	7.15	6.85	5.80	4.25	27.1m×3.25
28.0	5.70	5.95	5.90	6.35	6.10	5.55	4.05	3.20
30.0	5.05	5.25	5.25	5.65	5.40	5.30	3.90	3.10
32.0	4.50	4.70	4.70	5.05	4.85	5.10	3.75	3.05
34.0	4.00	4.20	4.20	4.50	4.35	4.80	3.65	2.95
36.0	3.60	3.75	3.80	4.05	3.90	4.30	3.50	2.90
38.0	3.25	3.35	3.40	3.65	3.55	3.90	3.40	2.80
40.0	2.90	3.00	3.05	3.25	3.20	3.50	3.30	2.75
42.0	2.60	2.65	2.75	2.95	2.90	3.15	2.95	2.70
44.0	2.30	2.40	2.50	2.65	2.60	2.85	2.70	2.65
46.0	45.8m×1.85t	1.90	2.25	2.35	2.35	2.55	2.45	2.60
48.0		46.4m×1.80t	2.00	2.10	2.10	2.30	2.20	2.50
50.0			1,65	1.85	1.90	2.05	2.00	2.25
52.0			50.7m×1.50t	51.5m×1.50t	1.70	1.85	1.80	2.00
54.0					53.3m×1.50t	1.65	1.60	1.80
56.0						55.0m×1.50t	55.3m×1.50t	1.60
57.3				[1.50

Boom Length (m)	43											
Jib Length (m)	10		1	16		22		28				
Offset Angle (°) Working Radius (m)	10	30	10	30	10	30	10	30				
13.0	11.00											
14.0	11.00		15.1m×11.00t									
16.0	11.00	10.95	11.00		17.2m×9.15t							
18.0	11.00	10.55	11.00	19.9m×8.50t	9.00		19.3m×5.00t					
20.0	9.50	10.00	9.80	8.50	8.65		4.90					
22.0	8.20	8.65	8.50	8.15	8.30	23.8m×6.20t	4.70					
24.0	7.15	7.50	7.40	7.80	7.60	6.15	4.50					
26.0	6.30	6.60	6.50	7.05	6.70	5.90	4.30	27.7m×3.25t				
28.0	5.55	5.80	5.75	6.20	5.95	5.60	4.15	3.20				
30.0	4,90	5,15	5.10	5.50	5.30	5.40	4.00	3.15				
32.0	4.35	4.55	4.55	4.90	4.70	5.20	3.85	3.05				
34.0	3.85	4.05	4.05	4.40	4.20	4.70	3.70	2.95				
36.0	3.45	3.60	3.60	3.90	3.75	4.20	3.55	2.90				
38.0	3.05	3.20	3.25	3.50	3.40	3.80	3.45	2.85				
40.0	2.75	2.85	2.90	3,15	3.05	3.40	3,15	2.80				
42.0	2.45	2.50	2.60	2.80	2.70	3.05	2.80	2.75				
44.0	2.15	2.25	2.30	2.50	2.45	2.75	2.55	2.70				
46.0	1.85	1.95	2.05	2.20	2.20	2.45	2.30	2.65				
48.0	47.5m×1.50t	1.50	1.85	1.95	1.95	2.20	2.05	2.35				
50.0			1.60	1.75	1.75	1.95	1.85	2.15				
52.0			50.5m×1.50t	51.6m×1.50t	1.55	1.75	1.65	1.90				
54.0					52.4m×1.50t	1.50	53.5m×1.50t	1.70				
56.0								1.50				

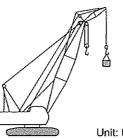
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

Hook Capacity (ton)	Weight (ton)
90	0.97
45	0.62
22	0.60
11	0.37

- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- The counterweight is 30.4 ton.
 Be sure to fully extend the side frames before operating the machine.





■Crane Ratings (Jib in 360° Working Area) (3)

■Crane Rating	ooc iii uic) e	VVOIKING A	ea) (3)		10		C) Unit: to
Boom Length (m)			F		6			
Jib Length (m)	1	10		16	- 2	22	28	
\ Offset Angle (°) \ Working Radius (m) \ \	10	30	10	30	10	30	10	30
13.5	11.00							
14.0	11.00		15.6m×11.0t					
16.0	11.00	16.5m×10.95t	11.00		17.7m×9.15t			
18.0	11.00	10.65	11.00		9.10		19.8m×5.00t	
20.0	9.35	9.85	9.65	20.4m×8.50t	8.75		4.95	
22.0	8.05	8.50	8.35	8.20	8.40		4.75	[
24.0	7.00	7.40	7.25	7.90	7.45	24.3m×6.20t	4.55	
26.0	6.10	6.45	6.35	6.90	6.55	5.95	4.35	
28.0	5.35	5.65	5.60	6.10	5.80	5.70	4.20	28.2m×3.20t
30.0	4.75	5,00	4.95	5.40	5.15	5.45	4.05	3,15
32.0	4.20	4.40	4.40	4.80	4.55	5.15	3.90	3.05
34.0	3.70	3.90	3.90	4.25	4.05	4.60	3.75	3.00
36.0	3.25	3.45	3.45	3.80	3.60	4.10	3.65	2.95
38.0	2.90	3.05	3.10	3.40	3.25	3.65	3.35	2.85
40.0	2.55	2.70	2.75	3.00	2.90	3.25	3.00	2.80
42.0	2.25	2.40	2.45	2.65	2.55	2.90	2.70	2.75
44.0	2.00	2.10	2.15	2.35	2.30	2.60	2.40	2.70
46.0	1.75	1.85	1.90	2.10	2.05	2.30	2.15	2.55
48.0	47.2m×1.50t	1.50	1.70	1.85	1.80	2.05	1.90	2.25
50.0			49.5m×1.50t	1.60	1.60	1.80	1.70	2.00
52.0				50.7m×1.50t	51.0m×1.50t	1.60	1.50	1.80
54.0		1			<u> </u>	53.0m×1.50t		1.55
54.6								1.50

Boom Length (m)					9			
Jib Length (m) 10			1	16		22		28
Offset Angle (°) Working Radius (m)	10	30	10	30	10	30	10	30
14.1	11.00			,				1
16.0	11.00	17.1m×10.95t	16.2m×11.00t					
18.0	10.90	10.75	11.00		18.3m×9.15t	1		
20.0	9.25	9.80	9.55	21.0m×8.20t	8.85		20.4m×5.00t	200000000000000000000000000000000000000
22.0	7.95	8.45	8.25	8.00	8.45		4.80	
24.0	6.90	7.30	7.15	7.65	7.35	24.9m×6.15t	4.60	
26.0	6.00	6.40	6.25	6.85	6.45	6.00	4.45	
28.0	5,25	5.60	5.50	6.05	5.70	5.75	4.25	28.8m×3.20t
30.0	4.65	4.90	4.85	5.35	5.05	5.50	4.10	3.15
32.0	4.05	4.30	4.30	4.70	4.45	5.05	3.95	3.10
34.0	3.60	3.80	3.80	4.20	3.95	4.50	3.85	3.00
36.0	3.15	3.35	3.35	3.70	3.50	4.00	3.65	2.95
38.0	2.80	2.95	2.95	3.30	3.10	3.60	3.25	2.90
40.0	2.45	2.60	2,60	2.90	2.75	3.20	2.90	2.85
42.0	2.15	2.25	2.30	2.55	2.45	2.85	2.55	2.75
44.0	1.85	2.00	2.05	2.25	2.15	2.50	2.30	2.70
46.0	1.60	1.70	1.80	2.00	1.90	2.25	2.00	2.45
48.0	46.6m×1.50t	47.5m×1.50t	1.55	1.75	1.70	1.95	1.80	2.15
50.0			48.5m×1.50t	1.50	49.5m×1.50t	1.70	1.55	1.90
52.0						1.50	50.5m×1.50t	1.70
54.0								1.50

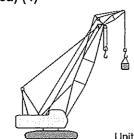
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

Hook Capacity (ton)	Weight (ton)
90	0.97
45	0.62
22	0.60
11	0.37

- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- 4. The counterweight is 30.4 ton.5. Be sure to fully extend the side frames before operating the machine.

■Crane Ratings (Jib in 360° Working Area) (4)



Boom Length (m)		5	2		
Jib Length (m)	1	0	16		
Offset Angle (°) Working Radius (m)	10	- 30	10	30	
14.6	11.00				
16.0	11.00	17.6m×10.20t	16.7m×11.00t		
18.0	10.75	10.10	11.00		
20.0	9.10	9.60	9.40	21.5m×77.10t	
22.0	7.80	8.30	8.10	7.00	
24.0	6.75	7.20	7.00	6.70	
26.0	5.85	6.25	6.10	6.40	
28.0	5.10	5.45	5.35	5.90	
30.0	4.45	4.80	4.70	5.20	
32.0	3.90	4.20	4,15	4.60	
34.0	3.45	3.65	3.65	4.05	
36.0	3.00	3.20	3.20	3.60	
38.0	2.60	2.80	2.80	3.15	
40.0	2.30	2.45	2.45	2,80	
42.0	2.00	2.15	2.15	2.45	
44.0	1.70	1.85	1.90	2.15	
46.0	45.5m×1.50t	1.55	1.60	1.85	
48.0		46.5m×1.50t	47.0m×1.50t	1.60	
48.7				1.50	

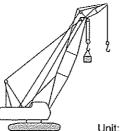
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

Hook Capacity (ton)	Weight (ton)
90	0.97
45	0.62
22	0.60
11	0.37

- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- The counterweight is 30.4 ton.
 Be sure to fully extend the side frames before operating the machine.





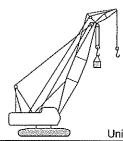
■Crane Ratings (Main boom with Jib in 360° Working Area) (1)

Boom Length (m)			- Control Control					
Jib Length (m)		10		16		22	2	8
\ Offset Angle (°) Working Radius (m) \ \	10	30	10	30	10	30	10	30
7.8	34.60	34.30	34.15	33.50	33.55	32.60	32.90	31.50
8.0	33.40	33.05	32.90	32.30	32.30	31.40	31.65	30.35
9.0	28.20	27.90	27.70	27.20	27.15	26.35	26.50	25.40
10.0	24.20	23.95	23.75	23.30	23.20	22.55	22.60	21.65
12.0	18.65	18.45	18.20	17.85	17.70	17.15	17.10	16.40
14.0	14.90	14.75	14.50	14.20	14.00	13.60	13.45	12.85
16.0	12.25	12.10	11.80	11.60	11.35	11.00	10.80	10.35
18.0	10.25	10.15	9.85	9.65	9.35	9.10	8.85	8.50
20.0	8.70	8.60	8.30	8.15	7.85	7.60	7.35	7.05
22.0	7.45	7.40	7.05	6.95	6.60	6.45	6.10	5.90
24.0	6.45	6.40	6.05	5.95	5.60	5.50	5.15	4.95
26.0	5.60	5.55	5.20	5.15	4.80	4.70	4.30	4.20
28.0	4.90	4.85	4.55	4.50	4.10	4.05	3.55	3.45
30.0	4.20	4.15	3.70	3.65	3.20	3.10	2.60	2.50
30.8	3.80	3.75	3.30	3.30	2.80	2.75	2.20	2.15

Boom Length (m)				3	37			
Jib Length (m)	1	0	1	16		22		18
Offset Angle (°) Working Radius (m)	10	30	10	-30	10	30	10	30
8.4	31.10	30.75	30.60	30.00	30.05	29.15	29.40	28.15
9.0	28.15	27.85	27.65	27.15	27.10	26.30	26.50	25.35
10.0	24.20	23.90	23.70	23.25	23.20	22,50	22.60	21.60
12.0	18.60	18.40	18.15	17.80	17.65	17.10	17.10	16.35
14.0	14.85	14.70	14.45	14.15	13.95	13.55	13.40	12.80
16.0	12.20	12.05	11.75	11.55	11.30	10.95	10.80	10.30
18.0	10.20	10.05	9.75	9.60	9.30	9.05	8.80	8.40
20.0	8.60	8.50	8.20	8.05	7.80	7.55	7,30	6.95
22.0	7.35	7.30	7.00	6.85	6.55	6.35	6.05	5.80
24.0	6.35	6.30	5.95	5.85	5.55	5.40	5.10	4.85
26.0	5.50	5.45	5.15	5.05	4.70	4.60	4.25	4.10
28.0	4.80	4.75	4.45	4.35	4.00	3.90	3.55	3.45
30.0	4.20	4.15	3.85	3.80	3.45	3.35	2.85	2.75
32.0	3.60	3.55	3.15	3.10	2.60	2.55	2.05	1.95
33.4	3.30	3.00	2.55	2.50	2.05	2.00	33.2m×1.50t	33.1m×1.5

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.
 - 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.
 - Auxiliary hook Hook capacity: 11 ton Hook weight: 0.37 ton
 - 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - 4. The counterweight is 30.4 ton.
 - 5. Be sure to fully extend the side frames before operating the machine.
 6. Correlations among the number of hoist rope reevings, maximum rated loads and hook weights are shown in the table below.

Hook	Hook		Maximum Ra	ted Load (ton)	
Capacity (ton)	Weight (ton)	4	3	2	1
45	0.62	34.6	33	22	
22	0.60			22	



Crane Ratings	(Main boom with Jib in 360°	[,] Working Area	(2

Boom Length (m)					40			
Jib Length (m)	1	0		16	2	2	2	28
Offset Angle (°) Working Radius (m)	10	30	10	30	10	30	10	30
8.9	28.45	28.15	27.95	27.40	27.45	26.60	26.80	25.65
9.0	27.95	27.70	27.50	26.95	26.95	26.15	26.35	25.20
10.0	24.00	23.75	23.55	23.10	23.05	22.35	22.45	21.45
12.0	18.45	18.20	18.00	17.65	17.50	16.95	16.95	16.20
14.0	14.70	14.50	14.25	14.00	13.80	13.35	13.30	12.65
16.0	12.00	11.85	11.60	11.35	11.15	10.80	10.65	10.15
18.0	10.00	9.90	9.60	9.40	9.15	8.85	8.70	8.25
20.0	8.45	8.35	8.05	7,90	7.60	7.35	7.15	6.80
22.0	7.20	7.10	6.80	6.65	6.40	6.20	5.90	5.65
24.0	6.15	6.10	5.80	5.70	5.40	5.20	4.90	4.70
26.0	5.35	5.25	4.95	4.85	4.55	4.40	4.10	3.90
28.0	4.60	4.55	4.25	4.15	3.85	3.75	3.40	3.25
30.0	4.00	3.95	3.65	3.60	3.25	3.15	2.80	2.70
32.0	3.50	3.45	3.15	3.10	2.65	2.60	2.10	2.00
34.0	2.95	2.90	2.45	2.40	1.95	1.90 🔪	33.7m×.1.50t	33.4m×1.50t
36.0	2.20	2.15	1.75	1.70	35.2m×1.50t	35.1m×1.50t		

Boom Length (m)				4	l3			
Jib Length (m)	1	0	1	16	2	22	2	18
Offset Angle (°) Working Radius (m)	10 30		10	30	10	30	10	30
9.5	25.75	25.45	25.30	24.75	24.75	24.00	24.20	23.10
10.0	23.90	23.60	23.45	22.95	22.95	22.20	22.35	21.35
12.0	18.30	18.10	17.85	17.50	17.40	16.80	16.85	16.05
14.0	14.55	14.35	14.15	13.85	13.70	13.25	13.15	12.55
16.0	11.85	11.70	11.45	11.20	11.05	10.65	10.55	10.00
18.0	9.85 9.75		9.45	9.25	9.05	8.70	8.55	8.15
20.0	8.30	8.20	7,90	7.75	7.50	7.20	7.00	6.65
22.0	7.05	6.95	6.65	6.50	6.25	6.05	5.80	5.50
24.0	6.00	5.95	5.65	5.50	5.25	5.05	4.80	4,55
26.0	5.15	5.10	4.80	4.70	4.40	4.25	3.95	3.75
28.0	4.45	4.40	4.10	4.00	3.70	3.55	3.25	3.10
30.0	3.85	3.80	3.50	3.40	3.10	3.00	2.70	2.55
32.0	3.35	3.30	3.00	2.90	2.60	2.50	2.10	1.95
34.0	2.85	2.85	2.50	2.40	2.00	1.90	33.8m×1.50t	33.3m×1.50t
36.0	2.30	2.25	1.85	1.80	35.5m×1.50t	35.3m×1.50t		
38.0	1.70	1.65	37.1m×1.50t	37.0m×1.50t				
38.6	1.50	1.50						

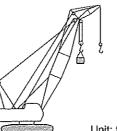
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

- 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.
- Auxiliary hook Hook capacity: 11 ton Hook weight: 0.37 ton
- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
- 4. The counterweight is 30.4 ton.
- 5. Be sure to fully extend the side frames before operating the machine.
- 6. Correlations among the number of hoist rope reevings, maximum rated loads and hook weights are shown in the table below.

Hook	Hook		Maximum Ra	led Load (ton)	
Capacity (ton)	Weight (ton)	4	3	2	1
45	0.62	34.6	33	22	
22	0.60			22	

17





■Crane Ratings (Main boom with Jib in 360° Working Area) (3)

Crane Raungs	5 (Maiii DOO	III WILLI JID III	JUU TYUIKII				Variable State of the State of	Unit: to
Boom Length (m)				4	6			
Jib Length (m)		10	1	6	2	22	2	28
Offset Angle (*) Working Radius (m)	10	30	10	30	10	30	10	30
10.0	23.75	23.50	23.30	22.85	22.80	22.05	22,25	21.20
12.0	18.15	17.95	17.75	17.35	17.25	16.70	16.75	15.95
14.0	14.40	14.25	14.00	13.70	13.55	13.10	13.05	12.40
16.0	11.70	11.55	1.35	11.10	10.90	10.50	10.40	9.90
18.0	8.0 9.70 9.60			9.10	8.90	8.60	8.45	8.00
20.0	8.15	8.05	7.75	7.60	7.35	7.10	6.90	6.50
22.0	6.90	6.80	6.50	6.35	6.10	5.90	5.65	5.35
24.0	5.85	5.80	5.50	5.35	5.10	4.90	4.65	4.40
26.0	5.00	4.95	4.65	4.55	4.25	4.10	3.85	3.60
28.0	4.30	4.25	3.95	3.85	3.55	3.40	3.15	2.95
30.0	3.70	3.65	3.35	3.25	2.95	2.85	2,55	2.40
32.0	3.15	3.10	2.80	2.75	2.45	2.35	2.00	1.80
34.0	2.70	2.65	2.35	2.30	1.90	1.80	33.6m×1.50t	33.0m×1.50t
36.0	2.30	2.25	1.85	1.75	35.4m×1.50t	35.0m×1.50t		
38.0	1.75	1.70	37.2m×1.50t	37.0m×1.50t				
38.9	1.50	38.7m×1.50t						

Boom Length (m)				4	9			
Jib Length (m)	1	0	1	16	2	22	2	28
\ Offset Angle (°) Working Radius (m) \ \	10	30	10	30	10	30	10	30
10.6	21.75	21.50	21.30	20.85	20.85	20.15	20.30	19.35
12.0	18.10	17.85	17.65	17.30	17.20	16.65	16.70	15.90
14.0	14.35	14.15	13.95	13.65	13.50	13.00	13.00	12.35
16.0	11.65	11.50	11.25	11.00	10.85	10.45	10.35	9.80
18.0	9.65	9.50	9.25	9.05	8.85	8.50	8.40	7.90
20,0	8.05	7.95	7.70	7.50	7.30	7.70	6.85	6.45
22.0	6.80	6.70	6.45	6.30	6.05	5.80	5.60	5.25
24.0	5.80	5.70	5.40	5.30	5.50	4.80	4.60	4.30
26.0	4.95	4.85	4.55	4.45	4.20	4.00	3.75	3.50
28.0	4.20	4.15	3.85	3.75	3.50	3.30	3.05	2.85
30.0	3.60	3.55	3.25	3.15	2.85	2.75	2.45	2,30
32.0	3.05	3.00	2.70	2.65	2.35	2.25	1.90	1.70
34.0	2.60	2.55	2.25	2.20	1.85	1.70	33.3m×1.50t	32.7m×1.50t
36.0	2.20	2.15	1.80	1.70	35.2m×1.50t	34.7m×1.50t		
38.0	1.70	1.65	37.2m×1.50t	36.7m×1.50t				
38.9	38.8m×1.50t	38.6m×1.50t						

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.
 - 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

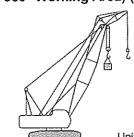
 - Auxiliary hook Hook capacity: 11 ton Hook weight: 0.37 ton

 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - 4. The counterweight is 30.4 ton.

 - 5. Be sure to fully extend the side frames before operating the machine.6. Correlations among the number of hoist rope reevings, maximum rated loads and hook weights are shown in the table below.

Hook	Hook		Maximum Ral	ted Load (ton)	
Capacity (ton)	Weight (ton)	4	3	2	1
45	0.62	34.6	33	22	
22	0.60			22	

■Crane Ratings (Main boom with Jib in 360° Working Area) (4)



				Unit: to					
Boom Length (m)		5	2						
Jib Length (m)		10	1	16					
Offset Angle (°) Working Radius (m)	10	30	10	30					
11.1	20.15	19.90	19.75	19.30					
12.0	17.95	17.70	17.55	17.15					
14.0	14.20	14.00	13.80	13.50					
16.0	11.50	11.35	11.10	10.85					
18.0	9.50	9.35	9.10	8.90					
20.0	7.90	7.80	7.55	7.35					
22.0	6.65	6.55	6.30	6.15					
24.0	5.65	5.55	5.30	5.15					
26.0	4.75	4.70	4.45	4.30					
28.0	4.05	4.00	3.70	3.60					
30.0	3.45	3.35	3,10	3.00					
32.0	2.90	2.85	2.55	2.50					
34.0	2.45	2.40	2.10	2.05					
36.0	2.05	2.00	1.65	1.55					
38.0	1.60	1.55	36.5m×1.50t	36.2m×1.50t					
38.4	1.50	38.2m×1.50t							

Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

- The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.
 Auxiliary hook Hook capacity: 11 ton Hook weight: 0.37 ton
 Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.

- 4. The counterweight is 30.4 ton.
- The counterweight is 30.4 ton.
 Be sure to fully extend the side frames before operating the machine.
 Correlations among the number of hoist rope reevings, maximum rated loads and hook weights are shown in the table below.

Hook	Hook		Maximum Rai	ted Load (ton)	
Capacity (ton)	Weight	4	3	2	1
45	0.62	34.6	33	22	
22	0.60	_		22	

■Crane Boom Construction

Boom Length (m) Elements	13	1	6	1	9	2	2	2	5	28		28 31		34		37		40		43		4	46		46		9	5	2	5	55	5	8	E	1
Lower Boom 6.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Upper Boom 6.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3 m Boom Insert			1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	Г	Г		
3 m Boom Insert		1		2	1	1		2	1	1		1		2	1	1		1		2	1	1		2	1	2	1	1		1	1	2	2		
6 m Boom Insert		Π				1	1	1	1	2	2	1	1	1	1	2	2	1	1	1	1	2	2	2	2	1	1	2	2	1	2	1	2		
9 m Boom Insert												1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	4	3	4	3		
																		Jib	Len	gth	10 r	n, 1	6 m							L		_			
Available Jib																	Jib	Len	gth	22 ı	n, 2	8 m						I					_		
Available aux. Jib	4	**************************************	5/85	98986	2878:	90998		33333 -		2000	2888	388	36398	257.55	i. 9888	3838)		 \$485	38888 38888	 85,890	34,838	7833	822			<u> </u>	9888	9599					_		

- Notes: 1. 6 m boom insert can be replaced with two 3 m boom inserts, and 9 m boom insert with a combination of 3 m and 6 m boom inserts.
 - When crane is transformed from tower crane by using tower boom of 52 m or longer, the following boom insertsare required.
 52 to 58 m boom: 9 m×1
 - 61 m boom : 9 m×1+3 m×1

■Crane Jib Construction

Jib Elements	Length (m)	10	16	22	28
Lower Jib	5 m	1	1	1	1
Upper Jib	5 m	1	1	1	1
6 m Jib Insert			1	2	3

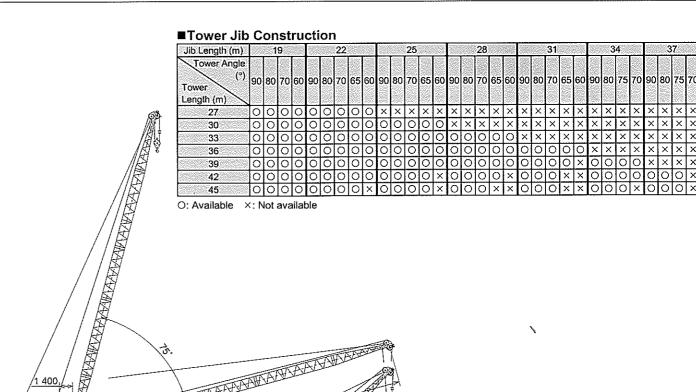
■Component Weights and Dimensions for Transport

	Components	Weight (ton)	Q'ty	Length ×	Width × I	Height (m)	Remarks
	Basic Machine	35.1	1	3.11	13.2	3.28	Including A-frame, lower boom, wire ropes for main hoist and boom hoist Excluding side frames, counterweights and float
	Basic Machine	32.4	1	3.11	7.79	3.28	Including A-frame Excluding side frames, lower boom wire ropes for main hoist and boom hoist, counterweights, and float
Basic Machine	Basic Machine	54.7	1	3.43	13.2	3.40	Including A-frame, lower boom, wire ropes for main hoist and boom hoist and side frames Excluding counterweights
	Side Frame (one side)	9.75	2	1.11	6.40	0.93	
	Counterweight A	8.58	1	0.91	3.48	1.27	
	Counterweight B	7.35	1	0.62	3.48	0.96	
	Counterweight C	6.61	1	0.53	3.48	0.96	
	Counterweight D	7.85	1	0.66	3.48	0.96	
0.30(3):00	Lower Boom	1.19	1	1.81	6.69	1.79	Including foot-pin and boom-joint pin
	Upper Boom	1.68	1	1.74	7.04	1.62	Including pendant ropes and hook overhoist cutoff switch
	Boom Stop (one side)	0.09	2	0.15	4.35	0.15	
	Bridle	0.39	1	0.30	1.85	0.63	
	3 m Boom Insert	0.43	1	1.73	3.14	1.79	Including joint pin Excluding pendant ropes
	6 m Boom Insert	0.70	1	1.73	6.14	1.79	Including joint pin Excluding pendant ropes
	9 m Boom Insert	1.01	1	1.73	9.14	1.79	Including joint pin Excluding pendant ropes
	Lower Jib	0.57	1	1.11	5.12	1.03	Including hook pin and jib mast
Crane Front	Upper Jib	0.31	1	1.35	5.43	1.01	Including hook overhoist cutoff switch
FIORE	6 m Jib Insert	0.18	1	0.93	6.08	1.06	
	Jib Mast	0.35	1	0.62	4.80	0.85	
	Aux Jib	0.33	1	0.84	1.47	0.94	Including hook overhoist cutoff switch
	90 ton Hook	0.97	1	1.98	0.73	0.45	
	45 ton Hook	0.62	1	1.76	0.73	0.36	
	22 ton Hook	0.60	1	1.67	0.73	0.36	
	11 ton Hook	0.37	1	1.03	0.45	0.45	

FULL-LUFFING TOWER CRANE

SOXOM

■Dimensions Unit: mm

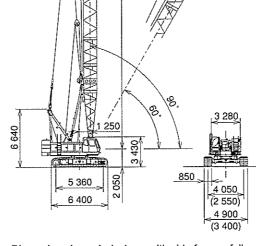


■Specifications

Maximum rated load	ton×m	15.0 × 14.0 (45 m tower + 25 m jib)
Tower length	m	27 to 45
Tower foot height	m	2.05
Jib length	m	19 to 37
Tower + Jib	m	45 + 37
Working radius	m	8.6 to 53.0
Max. lift above ground	m	78 (45m tower + 37m jib)
Line speeds		
Hoist / lower	m/min	*105/60/30
Jib hoist / lower	m/min	*50/30
Tower hoist / lower	m/min	*55
Ground pressure	kPa (kgf/cm²)	101 (1.03)
Operating weight	ton	99.1 (45 m tower + 37 m jib)
Notes: 1 Data is everessed i	n Stunite followed	by conventional units in ()

- otes: 1. Data is expressed in SI units, followed by conventional units in ().

 2. Other specifications, not shown, are similar to those for the crawler crane.
 - 3. *Line speeds will vary with the load.



Dimension shown in () are with side frames fully retracted.

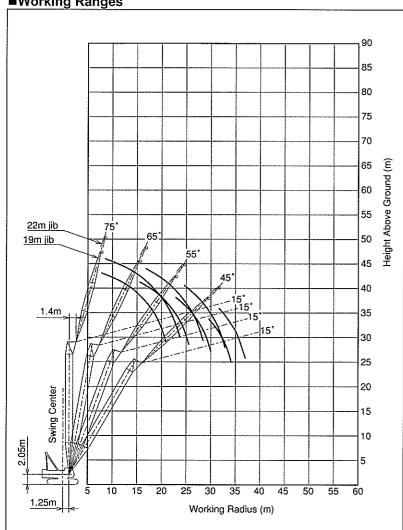


■Rated Loads for Tower Crane

1-14-	4
IDII.	าดก

Jib Length (m)		1	9		22							
Tower Angle (°) Working Radius (m)	90	80	70	60	90	80	70	60				
8.6	15.00											
9.0	15.00				9.5×5.00	1						
10.0	15.00	2.65		esantinas vijas	15.00		25-10-90 CHEV-2011	MARINE COMMON				
12.0	15.00				15.00							
14.0	15.00	15.6×13.05			15.00							
16.0	13.60	12.65			13.55	16.9×11.70						
18.0	11.80	10.95			11.70	10.85						
20.0	10.35	9.60	7/800/AGES (61/60)		10.25	9.50	90.531.551.55					
22.0	21.0×8.25	8.55	22.9×7.35		9.10	8.45						
24.0		7.65	6.95		23.9×7.05	7.55	24.6×6.60					
26.0		25.4×7.15	6.25			6.85	6.15					
28.0			5.70	29.5×4.80		6.20	5.60					
30.0			29.9×5.25t	4.65		28.3×6.15	5.10	31.6×4.25				
32.0				4.30			4.70	4.15				
34.0				3.95			32.8×4.55	3.85				
36.0				34.1×3.95				3.55				
37.0								3.40				

■Working Ranges



Working ranges shown are under unloaded condition.

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.
 - The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

Hook Capacity (ton)	Hook Weight (ton)
22	0.60

- Working radius is a horizontal distance between swing center of the machine and center of gravity of the load lifted.
- 4. Counterweight is 30.4 t.
- 5. Be sure to fully extend the side frames before operating the
- 6. Figures described as OOxOO in the tables indicate working radius (m) × rated load (t).

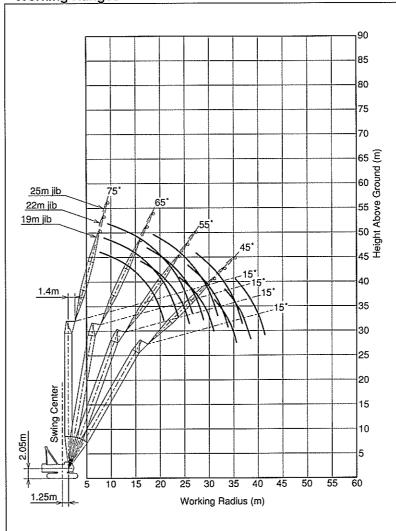
30 m Tower (2-Rope Reevings)

■Rated Loads for Tower Crane

U	n	it:	1	C

Jib Length (m)		1	9			2	2			25			
Tower Angle (°) Working Radius (m)	90	80	70	60	90	80	70	60	90	80	70	60	
8.7	15.00												
9.0	15.00				9.5×15.00							*****	
10.0	15.00	725-425-1560 SS		74967164518665B	15.00			3447.55.35.765	10.3×15.00	11.00.000.000.000.000			
12.0	15.00				15.00				15.00				
14.0	15.00				15.00				15.00				
16.0	13.60	16.1×12.40			13.50	17.4×11.15			13.40				
18.0	11.80	10.80			11.70	10.70			11.60	18.7×10.10			
20.0	10.35	9,50			10.25	9.40	\$100 March	9/17/12/5	10.15	9.25			
22.0	21.0×8.50	8.45	23.9×6.75		9.10	8.35			9.00	8.20			
24.0		7.55	6.70		23.9×7.25	7.45	25.6×6.05		8.05	7.35			
26.0		25.9×6.85	6.05			6.75	5.95		7.30	6.65	27.3×5.45		
28.0			5.50			6.15	5.40		26.8×6.25	6.00	5.25		
30.0			5.05	31.0×4.25		28.8×5.90	4.95	33.1×3.75		5.50	4.80		
32.0			30.9×4.85	4.05			4.55	3.60		31.7×5.10	4.40		
34.0				3.75			33.8×4.20	3.35			4.05	35.2×3.30	
36.0		1		35.6×3.50				3.10			3.75	3.20	
38.0								38.5×3.05			36.7×3.65	2.95	
40.0								1000000	501/05/4/1930/4000/13			2.75	
41.4												2.60	

■Working Ranges



Working ranges shown are under unloaded condition.

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile
 - crane construction standards.

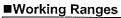
 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

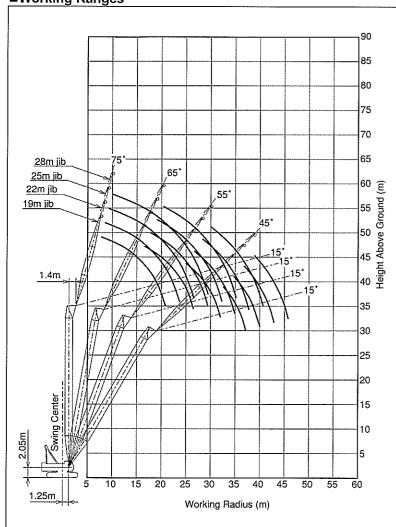
- Working radius is a horizontal distance between swing center of the machine and center of gravity of the load 4. Counterweight is 30.4 t.
- 5. Be sure to fully extend the side frames before operating the
- 6. Figures described as OOxOO in the tables indicate working radius (m) × rated load (t).



■Rated Loads for Tower Crane

■Rated Load	ds for '	Tower	Crane													Unit: ton		
Jib Length (m)	Jib Length (m) 19						22				25				28			
Tower Angle (°) Working Radius (m)	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60		
8.7	15.00															-2		
9.0	15.00				9.6×15.00							-						
10.0	15.00	8,855,655,65	60/68/62/	200000000	15.00	63/65/6			10.4×15.00			S. S. S.	11.2×15.00		7657638	555555		
12.0	15.00				15.00				15.00				15.00					
14.0	15.00				15.00				15.00				15.00					
16.0	13.55	16.6×11.75			13.50	17.9×10.60			13.40	İ			13.30					
18.0	11.75	10.65			11.65	10.55			11.55	19.2×9.60			11.45					
20.0	10.30	9.35			10.25	9.25			10.15	9.10			10.05	20.4×8.80				
22.0	21.0×8.70	8.30			9.10	8.20			9.00	8.05			8.90	7.95				
24.0		7.45	24.9×6.20		23.9×7.45	7.35			8.05	7.20			8.00	7.10				
26.0		6.70	5.85			6.65	26.6×5.55		7.30	6.50			7.20	6.40				
28.0		26.5×6.55	5.30			6.05	5.20		26.8×6.35	5.90	28.4×4.95		6.55	5.80				
30.0			4.85	008/700/140000		29.4×5.65	4.75	99199775		5.40	4.60		29.7×5.45	5.30	30.1×4.45			
32.0			4.45	32.5×3.70			4.35			4.95	4.20		***************************************	4.85	4.10			
34.0				3.50			4.00	34.6×3.30		32.3×4.90	3.85			4.50	3.75			
36.0				3.20			34.9×3.85	3.10			3.55	36.7×2.85		35.2×4.25	3.45			
38.0				31.7×3.10				2.85			37.7×3.35	2.70			3.20	38.8×2.50		
40.0								2.65				2,50			2.95	2.40		
42.0												2.35			40.6×2.90			
44.0							<u> </u>					42.9×2.25				2.00		
45.8									-			T				1.85		





Working ranges shown are under unloaded condition.

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.
 - 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

- Working radius is a horizontal distance between swing center of the machine and center of gravity of the load
- 4. Counterweight is 30.4 t.
- 5. Be sure to fully extend the side frames before operating the
- 6. Figures described as OOxOO in the tables indicate working radius (m) × rated load (t).

36 m Tower (2-Rope Reevings)

■Rated Loads for Tower Crane

Jib Length (m)		1	9		22				25				28			
\ Tower Angle (°) Working Radius (m) \	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60
8.8	15.00															
9.0	15.00				9.6×15.00											
10.0	15.00		36556255650	4.72.070,0	15.00	The state of the s			10.4×15.00			ŠEŽ.	11.3×15.00			
12.0	15.00				15.00				15.00				15.00			
14.0	15.00				15.00				15.00				15.00			
16.0	13.55	17.2×11.10			13.45				13.35				13.25			
18.0	11.70	10.50			11.65	18.4×10.10			11.55	19.7×9.15			11.45			
20.0	10.30	9.20			10.20	9.10	9.86.E.S.	100000000000000000000000000000000000000	10.10	8.95	557,553,648		10.00	21.0×8.30	Service Control	90.0000.0000.000
22.0	21.0×8.55	8.15			9.05	8.05			8.95	7.95			8.90	7.85		
24.0		7.30	25.9×5.65		23.9×7.35	7.20			8.05	7.10			7.95	7.00		
26.0		6.60	5.65			6.50	27.7×5.05		7.25	6.40			7.20	6.30		
28.0		27.0×6.30	5.10			5.90	5.00		26.8×6.30	5.80	29.4×4.55		6.50	5.70		
30.0	7/5/02/02		4.65			29.9×5.45	4.55			5.30	4.40	91.85 Me	29.7×5.40	5.20	31.1×4.10	
32.0			4.30				4.15			4.85	4.05			4.75	3.90	<u> </u>
34.0			33.0×4.10	3.25			3.85			32.8×4.70	3.70		ļ	4.40	3.60	
36.0				3.00			35.9×3.55	36.1×2.85			3.40			35.7×4.10	3.30	
38.0				2.75	1			2.65			3.15	38.2×2.45			3.05	
40.0				38.6×2.70				2.45	750000000000000000000000000000000000000	200025788988	38.8×3.05	2.25			2.80	40.3×2.05
42.0					1		1	41.5×2.30				2.05			41.7×2.65	1.90
44.0	İ											1.90`\				1.70
46.0												44.4×1.85				1.55
47.3																1.45

Jib Length (m)	40,000,000	3	1			
Tower Angle (°) Working Radius (m)	90	80	70	60		
12.1	14.90					
14.0	14.75					
16.0	13.20					
18.0	11.35					
20.0	9.95					
22.0	8.80	22.2×7.65				
24.0	7.85	6.90				
26.0	7.10	6.20				
28.0	6.45	5.60				
30.0	5,90	5.10				
32.0	5.25	4.65	32.8×3.65			
34.0	32.6×4.60	4.30	3.50			
36.0		3.95	3.20			
38.0		3.65	2.95			
40.0		38,6×3,60	2.70			
42.0			2.50	42.5×1.70		
44.0			2.30	1.55		
46.0			44.6×2.25	1.40		
48.0				1.25		
50.0	2016918		865.954	1.15		
50.2				1.10		

- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.
 - 2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a

Hook Capacity (ton)	Hook Weight (ton)
22	0.60

- 3. Working radius is a horizontal distance between swing center of the machine and center of gravity of the load
- 4. Counterweight is 30.4 t.
 5. Be sure to fully extend the side frames before operating
- 6. Figures described as OOxOO in the tables indicate working radius (m) x rated load (t).

							90
							85
							80
							75
31m jib	75*	65					70
28m jib 25m jib		1					65
22m jib 19m jib		$\rightarrow \downarrow \sim$	A	55*			60 <u>E</u>
			X		45°		(m) 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
					15	-•	50 g
		/ M				15°	45 A
1.4m	1/2			1-11-1		15°	40 th
	1	1-1-1	1	1/1/	-14/		35
		Al-		\ '			30
							25
							20
wing center							15
wing (10
Swin							5
1 11	5 10 1	5 20	 25 30	<u> </u> 35 40	45 5	0 55 6] 30
	5 10 1		25 30 Working R			0 55 6	

Working ranges shown are under unloaded condition.

Unit: ton



■Rated Load	ds for	Tower	Crane													Unit: tor
Jib Length (m)		1	9			2	2			2	25			2	28	
Tower Angle (°) Working Radius (m)	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60
8.8	15.00															
9.0	15.00				9.7×15.00	· ·									i	
10.0	15.00	5.55.55.5		20,80,80	15.00			1814 GH 2514	10,5×15.00	grading.	ALTA (20)	5-15-1-1-1-1	11.3×15.00			No. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10
12.0	15.00				15.00		i		15.00				15.00			i
14.0	15.00				15.00				15.00				15.00			İ
16.0	13.50	17.7×10.55			13.45				13.30				13.25			
18.0	11.70	10.30			11.60	18.9×9.60			11.50				11.40			
20.0	10.25	9.05		68.48E-8565	10.20	8,95	160 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No. 150 No		10.10	20,2×8,70	6.55 G/A	6000000	10.00	21.5×7.90		
22.0	21.1×8.75	8.05			9.05	7.90	· · · · ·		8.95	7.80			8.85	7.70		
24.0		7.20			7.50	7.10			8.00	6.95			7,95	6.85		
26.0		6.50	27.0×5.15			6.40			7.25	6.30			7.15	6.20		
28.0		27.5×6.05	4.90			5.80	28.7×4.60		26.9×6.35	5.70		İ	6.50	5.60		
30.0			4.45			5.30	4.35			5.20	30,4×4.10		29.8×5.45	5.10		
32.0			4.10			30.4×5.20	4.00			4.75	3.85			4.65	32.1×3.70	
34.0			3.75	35.5×2.80			3.65			33.3×4.50	3.50			4.30	3.40	
36.0				2.75			3.35	37.6×2.40			3.25			3.95	3.10	
38.0				2.55			36.9×3.25	2.35			3.00	39.7×1.95		32.6×3.95	2.85	
40.0		59759750		2.30				2.15		0.5000000000000000000000000000000000000	39.8×2.80	1.95		word and the second	2.65	41.8×1.60
42.0				40.1×2.30				1.95				1.75			2.45	1.60
44.0								43.0×1.85				1.60			42.7×2.40	1.40
46.0												45.9×1.45				1.25
48.0								i								1.15
48.8																1.10

Jib Length (m)	400.000/300	3	11	ulisa kanalan	a, 100, 200, 10	34	91540,994,550
Tower Angle (°) Working Radius (m)	90	80	70	60	90	80	70
12.1	14.90				13.0×11.80		
14.0	14.55				11.60		
16.0	13.15				11.25		
18.0	11.35				10.90		
20.0	9.90	7/18/19/19			9.80	WW.	3000000000000000000000000000000000000
22.0	8.80	22.8×7.25			8.70		
24.0	7.85	6.75			7.75	6.65	
26.0	7.05	6.10			7.00	5.95	
28.0	6.40	5.50			6.30	5.40	
30.0	5.85	5.00			5.75	4.90	
32.0	5.30	4.55	33.8×3.30		5.25	4.45	
34.0	32.7×4.65	4.20	3.30		4.85	4.10	35.6×2.95
36.0		3.85	3.00		35.6×4.00	3.75	2.90
38.0		3.60	2.75	39.0×220		3.20	2.65
40.0		39.1×3.45	2.55	2.10		3.00	2.40
42.0			2.35	1.90			2.20
44.0			2.15	1.70			2.00
46.0			45.6×2.05	1.55			1.80
48.0				1.40			1.65
48.7				1.35			48.5×1.60

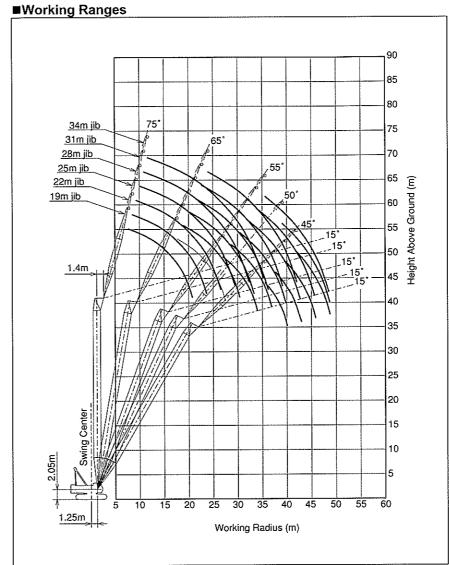
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile

crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

Hook Hook Capacity Weight (ton) (ton)

- 22 0.60
 Working radius is a horizontal distance between swing center of the machine and center of gravity of the load lifted.
 Counterweight is 30.4 t.
 Be sure to fully extend the side frames before operating the machine.
 Figures described as OOxOO in the tables indicate working radius (m) x rated load (t).



Working ranges shown are under unloaded condition.



■Rated Loads for Tower Crane

■Rated Load	is for	ower	<u>Crane</u>													Unit: tor
Jib Length (m)		1	9			7	22			2	25			2	.8	
_Tower Angle (°) Working Radius (m) \	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60
8.9	15.00															
9.0	15.00				9.7×15.00											i
10.0	15.00		165,745,755	SALDES SOL	15,00	AN ASSAULT			10.5×15.00	\$455.5E	900000000	20.24	11.4×15.00	0.0000000000000000000000000000000000000	186566	10.000 F.S.A
12.0	15.00				15.00				15.00				15.00		1	
14.0	15.00				15.00				15.00				15.00			
16.0	13.50				13.40				13.30				13.20			
18.0	11.65	18.2×10.00			11.60	19.5×9.05			11.45				11.40			
20.0	10.25	8.90	<i>(19)</i>		10.15	8.75	<u> Tana</u>	700 F	10.05	20.7×8,25		3729	9,95			
22.0	21.1×8.90	7.90			9.00	7.75			8.90	7.65			8.85	7.55		
24.0		7.05			7.60	6.95			8.00	5.80			7.90	6.70		
26.0		6.35				6.25			7.20	6.15			7.15	6.05		
28.0		5.80	4.65			5.70	29.7×4.20		26.9×6.45	5.55			6.45	5.45		
30.0			4.25			5.20	4,10			5.10	31.4×3.70		29,8×5.50	5.00		
32.0			3.90			30.9×5.00	3.75			4.65	3.60			4.55	33.2×3.30	
34.0			3.55				3.45			33.8×4.30	3.30			4.20	3.20	
36.0			35.0×3.45	37.0×2.30			3.20				3.05	36.5×2.50		3.85	2.95	
38.0				2.15			37.9×2.95	39.1×1.85			2.80	2.30		36.7×3.75	2.70	38.4×2.10
40.0				1.95		<i>\$15</i> 55	2332	1.80			2.60	2.10			2.50	1.95
42.0				41.6×1.85				1.60			40.8×2.50	1.90			2.30	1.75
44.0								1.45	l			1.75			43.7×2.10	1.55
46.0								44.5×1.45				44.2×1.70				1.40
47.1																1.35

Jib Length (m)	Service Const	31	165HSH6	84.868/884	34			37	
Tower Angle (°) Working Radius (m)	90	80	70	90	80	70	90	80	70
12.2	14.25			13.0×11.75			13.8×9.30		
14.0	13.95			11.60			9.30		
16.0	13.10			11.25			9.00		
18.0	11.30			10.90			8.70		İ
20.0	9.90			9.80			8.45	West of	-2005-2016-55
22.0	8.75	23.3×6.90		8.65			8.20		
24.0	7.80	6.60		7.75	24.5×6.30		7.65	25.8×5.80	
26.0	7.05	5.95		6.95	5.80		6.85	5.70	
28.0	6.40	5.35		6.30	5.25		6.20	5.15	
30.0	5.85	4.90		5.75	4.75		5.65	4.65	
32.0	5.30	4.45		5.25	4.35		5.15	4.25	32.2×3.65
34.0	32.7×4.70	4.10	34.9×2.95	4.85	4.00		4.45	3.90	3.35
36.0		3.75	2.80	35.6×4.00	3.65	36.6×2.60	3.85	3.55	3.05
38.0		3.50	2.60		3.35	2.40	3.35	3.25	2.80
40.0		39.6×3.25	2,35		3.10	2.15	38.5×3.25	3.00	2.55
42.0			2.15		2.90	1.95		2.80	2.35
44.0			1.95		42.5×2.85	1.75		2.60	2.15
46.0			1.75			1.60		45.4×2.45	2.00
48.0			46.6×1.70			1.45			1.80
49.5						1.35			49.0×1.75

Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a book

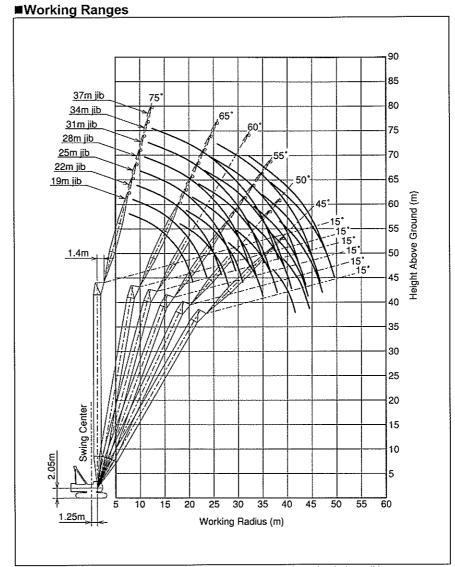
attachments su	ch as a hook.
Hook Capacity (ton)	Hook Weight (ton)
20	0.60

- 22 0.60

 3. Working radius is a horizontal distance between swing center of the machine and center of gravity of the load lifted.

 4. Counterweight is 30.4 t.

 5. Be sure to fully extend the side frames before
- operating the machine.
- 6. Figures described as OOxOO in the tables indicate working radius (m) x rated load (t).



Working ranges shown are under unloaded condition.



■Rated Load	ls for 1	Γower	Crane											U	nit: ton
Jib Length (m)		1	9			2	2			2	5			28	
\ Tower Angle (°) Working Radius (m) \	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70
8.9	15.00														
9.0	15.00				9.8×15.00										
10.0	15.00			805 000 000 000 000 000 000 000 000 000	15,00			Sementarios	10,6×15.00	7. S. S. S. S. S. S. S. S. S. S. S. S. S.	ente santane		11.4×14.55		
12.0	15.00				15.00				15.00				14.55		
14.0	15.00				15.00				15.00				14.05		
16.0	13.45				13.35				13.25				13.15		
18.0	11.65	18.7×9.50			11.55				11.45				11.35		
20.0	10.20	8.70	1001/8556		10.10	8.60		\$15000E	10.00	21,3×7.80			9.95		
22.0	21.1×9.10	7.75			9.00	7.60			8.90	7.50			8.80	22.5×7.15	
24.0		6.90			7.65	6.80			7.95	6.70			7.90	6.55	L
26.0		6.25				6.15			7.20	6.00			7.10	5.90	
28.0		5.65	29.0×4.20			5.55			26.9×6.50	5.45			6.45	5.35	
30.0		28.5×5.55	4.05		75 100 100 100 100 100 100 100 100 100 10	5.10	30.7×3.75			4.95			29,8×5,55	4.85	
32.0			3.70			31.4×4.80	3.55			4.55	32.5×3.35			4.45	
34.0			3.40				3.25	35.8×2.50		4.20	3.10	<u> </u>		4.10	34.2×2.95
36.0			3.10				3.00	2.45		34.3×4.15	2.85	37.7×2.05		3.75	2.75
38.0			36.1×3.10	38.5×1.75			2.75	2.20			2.60	2.00		37.2×3.60	2.50
40.0				1.65			39.0×2.65	2.00			2.40	1.80			2.25
42.0				1.45				1.85			41.9×2.20	1.60			2.05
44.0	_			43.1×1.40				42.5×1.80				1.45			1.85
45.4	_					·						1.35			44.8×1.80

Jib Length (m)	egan page a property	31		and the same	34		(50) (150) (150)	37	
Tower Angle (*) Working Radius (m)	90	80	70	90	80	70	90	80	70
12.2	13.55			13.1×11.65			13.9×9.35		
14.0	13.00			11.55			9.30		
16.0	12.45			11.20			9.00		
18.0	11.25			10.90			8.70		
20.0	9.85			9.75			8.45		
22.0	8.70	23.8×6.55		8.60			8.15		
24.0	7.80	6.45		7.70	25.1×5.95		7.60		
26.0	7.00	5.80		6.90	5.70		6.85	26.3×5.50	
28.0	6.35	5.25		6.25	5.15		620	5.05	
30.0	5.80	4.75		5.70	4.65	31.5×3.70	5.65	4.55	
32.0	5.30	4.35		5.25	4.25	3.60	5.05	4.15	33.0×3.35
34.0	32.7×4.75	4.00	35.9×2.60	4.80	3.85	3.30	4.35	3.80	3.20
36.0		3.65	2.60	35.6×4.05	3.55	3.00	3.75	3.45	2.90
38.0		3.40	2.35		3.25	2.75	3.25	3.20	2.65
40.0		3.15	2.10		3.00	2.55	38.5×3.15	2.95	2.45
42.0		40.1×3.10	1.90		2.80	2.35		2.70	2.20
44.0			1.70		43.0×2.70	2.15		2.50	2.00
46.0			1.55			1.95		45.9×2.30	1.80
48.0			47.6×1.40			46.8×1.90			1.65
49.7									1.50

Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile

crane construction standards.

2. The load to be actually lifted will be the rated load shown minus the weight of all lifting

ŧ	attachmer	its su	ch as	a hoc	k.
	Hool Capac (ton	ity	۷	Hook Veighl (ton)	40.75
ľ	22			0.60	

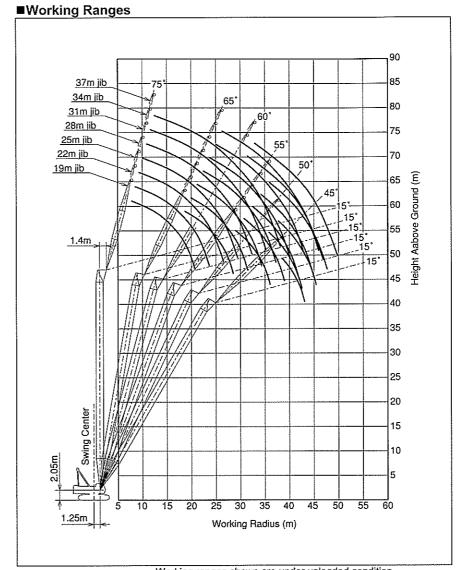
- 22 0.60

 3. Working radius is a horizontal distance between swing center of the machine and center of gravity of the load lifted.

 4. Counterweight is 30.4 t.

 5. Be sure to fully extend the side frames before operating the machine.

 6. Figures described as OO×OO in the tables indicate working radius (m) × rated load (t).



Working ranges shown are under unloaded condition.

■Tower Boom Construction

Elements T	ower Length (m)	27	30	3	3	36	39	4	12	45
Lower tower	6.5 m	1	1	1	1	1	1		1	1
Upper tower	2.5 m	1	1	T	1	1	1		1	1
3 m(B) Boom	Insert	1	1		1	1	1		1	1
3 m Ttower In	sert	1	1	2		1	1	2		1
6 m Tower Ins	sert	2	1	1	2	2	1	1	2	2
9 m (B) Towe	r Insert		1	1	1	1	2	2	2	2
	19 m	And Assessment of the Assessme	Signal de persona de la composición de la composición de la composición de la composición de la composición de	aratiskiankia Chiskwanaga	orojanjošejotš provinskiriši		ndistancia incentral Afri	ninkelösteks Soltokennine		erioteriyane.
	22 m	Section of the sectio		ana sa a sa a sa a sa a sa a sa a sa a	erocastros Salutiblish		eranne erann erangasian er Opplikken projektion til sekation til sekation til sekation til sekation til sekation til sekation til sekatio		enecensen Sammenen	
A	25 m		Sec. 1000000000	Secretarions	Selember Husspan			nermikerene Aktopiski (SA	euroesiumen Salasiumen	94-94040808-944 - 1745 374809-35002 - 1740
Available tower jib	28 m			70% - 1856 70% - 1856	0000-0000-00-00 0000-0000-00-00	elekeristismen sussisik genterio. Risk sintekski propositistisme films	trentreteinin kenstin kiril Kanky väälänä jääläksä ja		anatantania Markanasa	enertistatejata Grigophisopon vai
tower jib	31 m						andres and service services and services are services and services and services and services and services and services and services and services and services and services and services and services and services and services and services and services and services and services and services and services are services and services and services are services and services and services are services and services and services are services and services and services are services and services and services are services and services are services and services are services and services are services and services are services and services are services and services are services and services are services and services are services and services are services and services are services are services and services are services are			
	34 m								V63456	5095050505
	37 m						•	# G		

■Crane Jib Construction

Ji Elements	b Length (m)	19	22	25	28	31	34	37
Lower Jib	6.5 m	1	1	1	1	1	1	1
Upper Jib	6.5 m	1	1	1	1	1	1	1
3 m Jib Insert			1	2	1	1	2	1
6 m Jjib Insert		1	1	1	2	1	1	2
9 m Jjib linsert						1	1	1

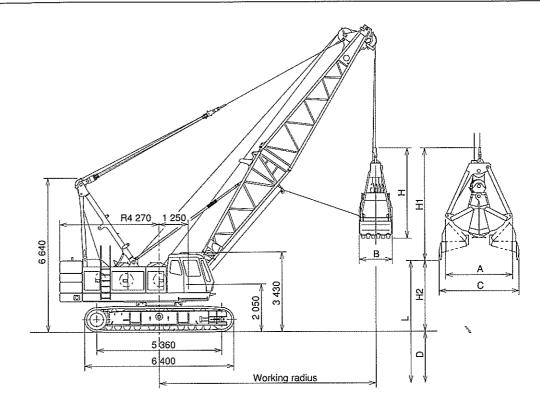
■Component Weights and Dimensions for Transport

	Components	Weight (ton)	Q'ty	Length x	Width × I	Height (m)	Remarks
	Basic Machine	35.1	1	3.11	13.2	3.28	Including A-frame, lower boom, wire ropes for main hoist and boom hoist Excluding side frames, counterweights and float
	Basic Machine	32.4	1	3.11	7.79	3.28	Including A-frame Excluding side frames, lower boom wire ropes for main hoist and boom hoist, counterweights, and float
Basic Machine	Basic Machine	54.7	1	3.43	13.2	3.40	Including A-frame, lower boom, wire ropes for main hoist and boom hoist and side frames Excluding counterweights
	Side Frame (one side)	9.75	2	1.11	6.40	0.93	
	Counterweight A	8.58	1	0.91	3.48	1.27	
	Counterweight B	7.35	1	0.62	3.48	0.96	
	Counterweight C	6.61	1	0.53	3.48	0.96	
	Counterweight D	7.85	1	0.66	3.48	0.96	
	Upper Tower	0.89	1	3.02	2.43	1.62	Excluding links and guide rollers
	3 m Tower Insert(B)	0.81	1	2.28	3.14	1.79	Excluding guide sheaves and jib hanger
	Guide Roller	0.23	1	2.45	2.14	0.83	
	Swing Levers	0.92	1	1.02	5.18	1.68	
	Lower Jib	0.62	1	1.25	6.95	1.68	Including jib stop
	Upper Jib	0.67	1	1.30	7.17	1.25	
	3 m Jib Insert	0.21	1	1.34	3.10	1.28	
Tower	6 m Jib Insert	0.38	1	1.34	6.10	1.28	
Front	9 m Jib Insert	0.53	1	1.34	9.10	1.28	
	Tower stop, Right	0.48	1	0.35	6.59	0.33	
	Tower stop, Left	0.48	1	0.47	6.59	0.29	
	Tower Bridle	0.45	1	0.29	1.85	1.27	Including links for tower
	Hanger (Tower Jib)	0.33	1	0.40	1.62	1.28	
	Bridle (Tower Jib)	0.31	1	0.69	0.83	0.87	

CLAMSHELL

SC)(900)

■Dimensions



■Specifications

Bucket capacity	m³	2.5					
Allowable clamshell gross	weight ton		10.0				
Boom length	m	13	13 to 22				
Max. digging depth	m		36				
Line speeds							
Suspend line	m/min	*105/60/30	Rope 26mm dia.				
Open/close line	m/min	*105/60/30	- Rope Zomin dia				
Boom hoist line	m/min	*55	Rope 20mm dia.				
Ground pressure	kPa (kgf/cm²)	93.7 (0.96)					
Operating weight	ton	92.0 (13 m boom + 2.5 m ³ bucket)					

■Clamshell Bucket

Capacity (m³)	Weight (t)	A (mm)	92/05 E. (ASS)	(mm)	200000000000000000000000000000000000000	H1 (mm)
2.5	5.5	2 880	1 400	3 450	4 180	5 130

Notes: 1. Data is expressed in SI units, followed by conventional units in ().
2. Other specifications, not shown, are similar to those for the crawler crane.
3. *Line will vary with the load.

■Working Ranges

Boom length m			3			4	6	87.55.50.85		4	9			2	!2	
One of the second secon		Septiment September 18	on vice substitute of every			MARKERY/CFGM/DNC	h(\$6000000000000000000000000000000000		4436 m30.4	PROCESSES CONTRACTOR		5 MASS		(ARCON PRODUKE)	4-1-162-10-7-00-20-10-4-4-00-0	T 0-
Boom angle degree	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55	65
Working radius m	12.4	11.0	9.3	73	14.8	13.1	11.0	8.6	17.3	15.2	12.7	9.9	19.8	17.3	14.4	11.1
Rated load ton	10	10	10	10	10	10	10	10	10	10	10	10	9.5	10	10	10
Lift L = D + H2 m	38.3	40.1	41.6	42.5	40.1	42.2	44.1	45.5	41.8	44.4	46.5	48.2	43.5	46.5	49.0	51.0
Max, digging depth D m		36														
Dumping height H2 m	2.3	4.1	5.6	6.5	4.1	6.2	8.1	9.5	5.8	8.4	10.5	12.2	7.5	10.5	13.0	15.0

Notes: 1. Rated loads for clamshell do not exceed 90% those for crane.

2. The rated loads shown are upper limits determined by the following equation. Please select a bucket in such amanner that its rated load does not exceed the rated load shown above, according to kinds of the loads handled.

Rated load = Bucket capacity (m³) × Specific gravity of load (ton/m³)+Bucket weight (ton)

- Be careful that brake will be overheated if the bucket is too heavy even within the rated loads.

 3. Working radius is the horizontal distance from the swing center to the center of gravity of lifted load.
- 4. The bucket weight is 5.5 ton max.

- 5. The counterweight is 30.4 ton.6. Be sure to fully extend the side frames before operating the machine.7. Free fall using brake will vary with operating conditions such as bucket weight and work cycle, but its height should be within 10 m.

• Drum pawl lock

Swing alarm

• Boom stop

Boom angle indicator

• Open/close and suspend rope disengagement

prevention device (for tubular chord boom)

• Open/close rope (26 mm dia. × 82 m)*

(main and auxiliary hoist, and boom hoist)

TECHNICAL DATA ■STANDARD EQUIPMENT BASIC MACHINE Undercarriage • Crawler-type undercarriage (with 850 mm shoes) Side frame extend cylinder (tandem) Superstructure • Front lights (2 lights) • Under-cover (at superstructure bottom) • Rearview mirrors (left and right) Cab climbing steps · Centralized lubrication system · Ultra slow speed controller (for gantry and swing circle) • Drum rotation sensing system • Electric refuel device • 30.4 t counterweight Standard tool kit Cab • Intermittent-wipers (front and roof windows) Auto-tuning clock radio (AM/FM) · Washers (front and roof windows) · Cigarette lighter • Rolled sunshade (roof window) Ashtray Sunvisor Brake mode selector switch Floor mat Electric tilt-type stand Room light Safety Devices Swing lock Fail safe brake system

STANDARD EQUIPMENT FOR RESPECTIVE FRONT ATTACHMENT

Crane	
 13 m basic boom (lower 6.5 m, upper 6.5 m) Boom stop Boom angle indicator 90 ton hook Main hoist rope (26 mm dia. × 200 m) 	Boom hoist rope (20 mm dia × 170 m) Moment limiter Overhoist prevention devices (Including secondary safety device for main hook and boom hoist)
Full-Luffing Tower Crane	
 45 m tower boom (lower: 6.5 m, 3 m × 2, 6 m × 2, 9 m × 2, upper: 2.5 m) 37 m tower jib (lower: 6.5 m, 3 m × 1, 6 m × 2, upper: 6.5 m) Tower stop Tower boom angle indicator 22 ton hook Main hoist rope (26 mm dia. × 260 m) Tower jib hoist rope (26 mm dia. × 150 m) Clamshell	 Tower hoist rope (20 mm dia. × 180 m) Moment limiter Overhoist prevention devices (including secondary sagety device for hook, tower and jib) Anemometer Foam type level Tower assembling pillow
• 13 m basic boom (lower 6.5 m, upper 6.5 m)	Suspend rope (26 mm dia. × 70 m)*

• Pilot control shut-off lever

· Before-work check monitor

• Hydraulic tagline (10 mm dia. × 55 m rope included)

* Two lengths of open/close and suspend ropes are determined based on 22

and Boom hoist rope (20 mm dia. x 170 m)

m boom length and 12 m digging depth.

Standard and Optional Equipment O: Standard Front Attachment Crane	CRAWLWER CRANE	FULL-LUFFING TOWER CRANE	CLAMSHELL
90 ton hook	0	●*1	
45 ton hook	•	●*2	
22 ton hok	•	0	****
11 ton hook	•	•	_
3 m boom insert	•	0	•
6 m boom insert	•	0	•
9 m boom insert	•	•	•
10 m jib assembly [10 m basic jib, aux. Jib hook overhoist prevention device, jib mast, aux. Jib rope (26 mm dia. × 170 m), 11 ton hook]	•	• *2	NAME OF THE PROPERTY OF THE PR
6 m jib insert	•	●*2	***************************************
Aux. jib assembly [aux. jib aux. jib hook overhoist prevention device, aux. jib rope (26 mm dia. × 170 m), 11 ton hook]	•	• *2	
Aux. jib [aux. jib aux. jib hook overhoist prevention device]	•	● *2,*3	
Crane kit (6.5 m upper boom, 9.0 ton hook, boom stop, main hoist hook overhoist prevention device		•	_
Front Attachment for Clamshell			
2.5 m³ clamshell bucket	•	_	•
Open/close and suspend ropes			•
Hydraulic tagline		_	•
Upperstructure			
Drum cooler (for aux. drum)	-		•
Side walk (folded type)	•	•	•
Side walk (fixed type with handrails)	•	•	•
Fuel double element	•	•	•
Engine air cleaner double element	•	•	•
Cab			
AM/FM radio	0	0	0
Fan	•	•	•
Loudspeaker	•	•	•
Air conditioner	•	•	•
Heater			
Safety Device			
Boom lower limiter			•
Foam type level (in cab)		0	
Bucket overhoist prevention device		_	•
Undercarriage			

Notes: *1. Included in crane kit.

^{*2.} Designed for use with crane kit

*3. When purchased together with jib assembly, these component, excluding common parts such as hook and wire rope, are added