This catalog is not applicable to European and North America areas. The machine shown may vary according to territory Specifications. Specifications are subject to change without notice.

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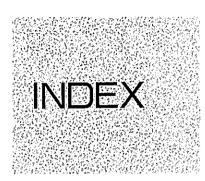


# SCX900 HYDRAULIC CRAWLER CRANE

# **Specifications**

**HITACHI SUMITOMO** 

# SCX900 HYDRAULIC CRAWLER CRANE



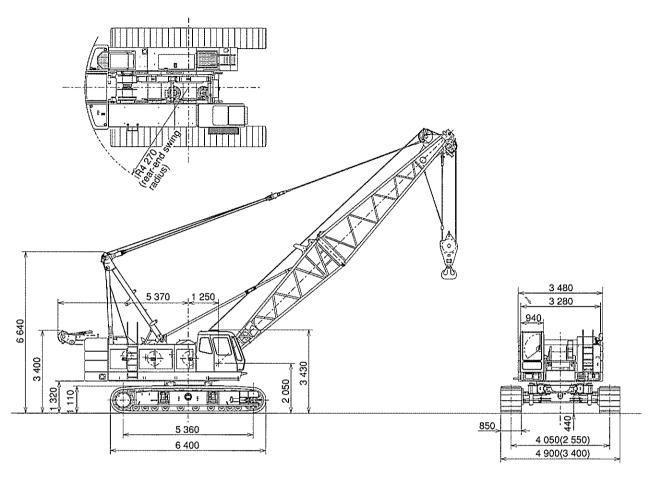
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Note: • "ton" or "t" implies metric tons in this catalog.

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

#### **CRAWLER CRANE**

**■**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 <sup>-1</sup> (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.



#### SUPERSTRUCTURE



#### **Engine**

Model	Mitsubishi 6D24-T
	Water-cooled, 4-cycle, 6-cylinder,
Rated horsenower	direct fuel injection type diesel engine184 kW (250 PS) at 2 000 min <sup>-1</sup>
•	(2 000 rpm)
Maximum torque	981 N·m (100 kgf·m) at 1 400 min <sup>-1</sup>
	(1 400 rpm)
Piston displacement	11.945 L
Fuel tank capacity	415 L
Electric system	

#### 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 released.
- 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.

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

#### **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
· · ·	0.040.1-

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
	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;
lih noint	upper section 5.0 m and lower section 5.0 m
Jib boilir	1 sheave (560 mm PCD) mounted on
	anti-friction bearings on jib top
jib insert	6.0 m long available
Connection type	Pin-connected
	Optional. Attachable to the main boom top
	to hoist the light load quickly with a single
	rope

Note: Boom insert, crane jib, or auxiliary jib can be attached to the basic boom when needed. However, both crane iib 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

Tower boom length	27.0 m minimum
	45.0 m maximum
Tower inserts	3.0 m, 6.0 m and 9.0 m tower inserts are in
	common with crane boom inserts
Connection type	Pin-connected
Tower backstop	Dual-rail, telescopic tubular construction
	with spring damper.
Tower hoist bridle	Serves as connection between pendants
	and boom hoist wire rope reeving,
	equipped with 6 sheaves (420 mm PCD) for

12-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

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.

Jib length ..... 19.0 m to 37.0 m

#### 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.

# H 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 displacement			
Pressure setting	29.4 MPa (300 kgf/cm²)	29.4 MPa (300 kgf/cm²)		
Max. Oil flow *	236 L/min	236 L/min		

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

<sup>\*</sup> 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

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<sup>2</sup>) ......25.5 MPa (260 kgf/cm²) Swing .... Overload relief valves Hoist (main and aux.) circuits......30.8 MPa (315 kgf/cm<sup>2</sup>) Boom hoist circuit ......31.4 MPa (320 kgf/cm<sup>2</sup>) Pilot Circuit

#### Line Filters

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.

#### Track Frame

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

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 Brakes

#### 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

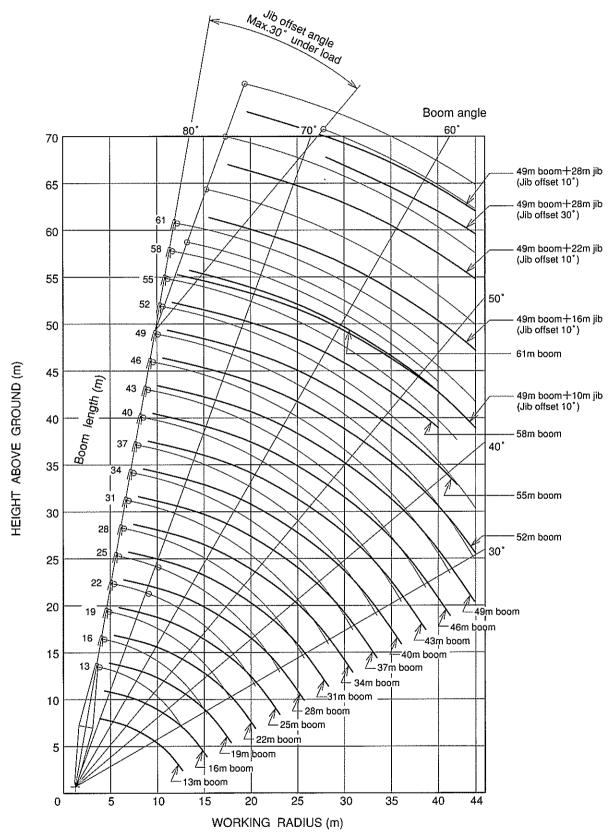
The pilot control shut-off lever shuts out the hydraulic pilot pressure to pilot control valves. With the pilot control shut-off lever in the LOCK position, the machine will not operate even if the lever is accidentally shifted.

#### • Fail-safe mechanism

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

#### SERVICE REFILL CAPACITIES

	Liter
Fuel tank	415
Engine coolant	47
Engine oil	45
Pump transmission	2
Boom hoist reduction device	10
Winch hoist reduction device	19.5×2
Swing reduction device	17×2
Travel final device	
Hydraulic system, including tank capacity	335
Hydraulic tank	255



Note: Working ranges shown are under unloaded condition.





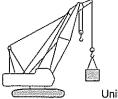
■ Crane Ra	tings (wain	Boom in 3t	U" Working	Area)					Unit: tor	
Working Radius	king Radius				Boom Length (m)					
(m)	13	16	19	22	25	28	31	34	37	
4.0	90.00									
4.5	80.50	4.6m×78.45t						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
5.0	70.80	70.60	5.1m×68.25t							
5.5	60.85	60.65	60.55	5.7m×57.25t						
6.0	53.35	53.10	53.00	52.95	6.2m×50.30t	ĺ				
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×32.15t	
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		60.00.00.00.00.00	1907/60/1907/60/1907/6	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) T	40	43	46	49	52	55	58	61				
8.9	29.50											
9.0	29.05	9.5m×26.85t										
10.0	25,10	25,00	24.85	10.6m×22.00t	11.1m×21.25t	11.7m×19.60t	feedings to by account of					
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.
- The counterweight is 30.4 ton.
   Be sure to fully extend the side frames before operating the machine.
   Correlation among the number of rone reevings, maximum rated loads and hook weights are shown in the table below.

U. CUITEIAI	don among the num	mei oi iohe iee	virigs, maximum	i rateu ibaus ai	iu nook weigins	are shown in u	ie table below.		
Hook	Balancia (no contra de la companio				Maximum Ra	ted Load (ton)			
Capacit (ton)	y 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	_



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

=Ciane Ram	ilys (Auxillai	y Jib ili Joo	WOINING AIR	a)			**************************************	o Onic. to
Working Radius								
(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		7.50.729.007.75.777.07	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				50, 50 (5) (6) (4) (5)			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×11.00
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.

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.



11

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

Claile Rau	nys (Main Di	John With Au	Killary Jib in 3		() Unit: to			
Working Radius				Boom Le	ength (m)			
(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			1/2/100 (00/00/00/00/00/00/				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		THE STATE OF STATE		1002-00 NC250 (005200-00000 CO5500-0000	52 m2 come to						
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		S. Gaves St. No. 5	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 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

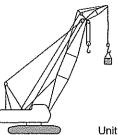
- 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.

- 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)	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	



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

Boom Length (m)				3	4			
Jib Length (m)	1	0	1	6	2	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	7			
Jib Length (m)	1	0	1	16	2	22	2	8
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	Į lū	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×3.25t
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			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.
- 4. The counterweight is 30.4 ton.5. Be sure to fully extend the side frames before operating the machine.



Crane Kanng	19 (111 010)	WOIKING A	ea) (2)		I Accession to the control of the co	644/440-00040040400040600406	<u> </u>	Unit:
Boom Length (m) Jib Length (m)	1 1	0	1	6	10 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×3.2
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

lib Longth (re)	10		<u> </u>	43 16		22		28	
Jib Length (m)		U		0		<b>4</b>	2	0	
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×3.25	
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	

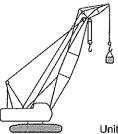
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

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

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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 (Jih in 360° Working Area) (3)

Jib Length (m)   10   16   22   28	■Crane Rating	a fain iii aan	WORKING A	ea) (3)				<u> </u>	Offic to
Offset Angle (*)         10         30         10         30         10         30         10         30           13.5         11.00         15.6m×11.0t         1.00         17.7m×9.15t         1.00         19.8m×5.00t         11.00         19.8m×5.00t         4.95         4.95         4.95         4.95         4.95         4.95         4.95         4.95         4.95         4.95         4.95         4.25         4.00         4.20         4.28m×3.2         3.15         3.15 <th>Boom Length (m)</th> <th></th> <th></th> <th></th> <th>210022000000000000000000000000000000000</th> <th></th> <th></th> <th></th> <th></th>	Boom Length (m)				210022000000000000000000000000000000000				
Working Radius (m)	Jib Length (m)	1	0	1	6	2	2	2	8
Working Radius (m)   13.5	\ Offset Angle (°)  ☐	10	30	10	30	10	30	10	30
14.0         11.00         15.6m×10.95t         11.00         17.7m×9.15t         11.00         19.8m×5.00t           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×3.2           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         <	Working Radius (m)	2	30	10	30	2	00	10	3
16.0         11.00         16.5m×10.95t         11.00         17.7m×9.15t         19.8m×5.00t           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×3.2           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           38.0         2.90         3.05 <t< td=""><td>13.5</td><td>11.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	13.5	11.00							
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×3.2           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           38.0         2.90         3.05         3.10         3.40         3.25         3.35         2.85           40.0         2.25	14.0	11.00		15.6m×11.0t					
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×3.2           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           38.0         2.90         3.05         3.10         3.40         3.25         3.65         3.35         2.85           40.0         2.25         2.70         2.75         3.00         2.90         3.25         3.00         2.80 <td>16.0</td> <td>11.00</td> <td>16.5m×10.95t</td> <td>11.00</td> <td></td> <td>17.7m×9.15t</td> <td></td> <td></td> <td></td>	16.0	11.00	16.5m×10.95t	11.00		17.7m×9.15t			
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×3.2           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         2.25         2.40         2.45         2.65         2.55         2.90	18.0	11.00	10.65	11.00		9.10		19.8m×5.00t	
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×3.2           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         2.255         2.70         2.75         3.00         2.90         3.25         3.00         2.80           42.0         2.255         2.40         2.45         2.65	20.0	9,35	9.85	9.65	20.4m×8.50t	8.75		4.95	
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×3.2           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 <td< td=""><td>22.0</td><td>8.05</td><td>8.50</td><td>8.35</td><td>8.20</td><td>8.40</td><td></td><td>4.75</td><td></td></td<>	22.0	8.05	8.50	8.35	8.20	8.40		4.75	
28.0         5.35         5.65         5.60         6.10         5.80         5.70         4.20         28.2m×3.2           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         2.75           46.0         1.75         1.85 <td< td=""><td>24.0</td><td>7.00</td><td>7.40</td><td>7.25</td><td>7.90</td><td>7.45</td><td>24.3m×6.20t</td><td>4.55</td><td></td></td<>	24.0	7.00	7.40	7.25	7.90	7.45	24.3m×6.20t	4.55	
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         2.75           46.0         1.75         1.85         1.90         2.10         2.05         2.30         2.60         2.40         2.75           48.0         47.2m×1.50t         <	26.0	6.10	6.45	6.35	6.90	6.55	5.95	4.35	
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         50.7m×1.50t         51.0m×1.50t<	28.0	5.35	5.65	5.60	6.10	5.80	5.70	4.20	28.2m×3.20t
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 <t< td=""><td>30.0</td><td>4.75</td><td>5.00</td><td>4.95</td><td>5.40</td><td>5.15</td><td>5.45</td><td>4.05</td><td>3.15</td></t<>	30.0	4.75	5.00	4.95	5.40	5.15	5.45	4.05	3.15
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         1.50         1.50	32.0	4.20	4.40	4.40	4.80	4.55	5.15	3.90	3.05
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         53.0m×1.50t         1.55         1.55         1.55         1.55	34.0	3.70	3.90	3.90	4.25	4.05	4.60	3.75	3.00
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         53.0m×1.50t         53.0m×1.50t         1.55         1.55	36.0	3.25	3.45	3.45	3.80	3.60	4.10	3.65	2.95
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         53.0m×1.50t         1.55         53.0m×1.50t         1.55	38.0	2.90	3.05	3.10	3.40	3.25	3.65	3.35	2.85
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         53.0m×1.50t         1.55         1.55         1.55         1.55	40.0	2.55	2.70	2.75	3.00	2.90	3.25	3.00	2.80
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         53.0m×1.50t         53.0m×1.50t         1.55	42.0	2.25	2.40	2.45	2.65	2.55	2.90	2.70	2.75
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     53.0m×1.50t     53.0m×1.50t     1.55	44.0	2.00	2.10	2.15	2.35	2.30	2.60	2.40	2.70
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     53.0m×1.50t     53.0m×1.50t     1.55	46.0	1.75	1.85	1.90	2.10	2.05	2.30	2.15	2.55
52.0         50.7m×1.50t         51.0m×1.50t         1.60         1.50         1.80           54.0         53.0m×1.50t         53.0m×1.50t         1.55	48.0	47.2m×1.50t	1.50	1.70	1.85	1.80	2.05	1.90	2.25
54.0 53.0m×1.50t 1.55	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
54.6	54.0						53.0m×1.50t		1.55
	54.6								1.50

Boom Length (m)				4	<b>J</b> 9			
Jib Length (m)	10		16		22		28	
\ Offset Angle (°) Working Radius (m) \	10	30	10	30	10	30	10	30
14.1	11.00							
16.0	11.00	17.1m×10.95t	16.2m×11.00t					
18.0	10.90	10.75	11.00		18.3m×9.15t			
20.0	9.25	9.80	9.55	21.0m×8.20t	8.85		20.4m×5.00t	
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

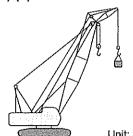
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

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)



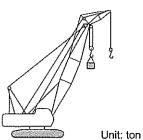
				Unit: ton
Boom Length (m)		5	2	
Jib Length (m)	1	0	1	6
∖ Offset Angle (°)	10	30	10	30
Working Radius (m)	Į0	- 30	10	30
14.6	11.00			
16.0	11.00	17.6m×10.20t	16.7m×11.00t	
18.0	10.75	10.10	11.00	
20.0	9.10	9.60	9.40	21.5m×77.10t
22.0	7.80	8.30	8.10	7.00
24.0	6.75	7.20	7.00	6.70
26.0	5.85	6.25	6.10	6.40
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 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.

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

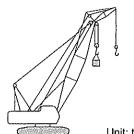
	o (mam boo	***************************************	Onic ton					
Boom Length (m)				3	4			
Jib Length (m)		0	5 5 5 5 1	6	2	2	2	8
\ Offset Angle (°)  \[ \]	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	IU E	30	10	30	10	- 30
7.8	34.60	34.30	34.15	33.50	33.55	32.60	32.90	31.50
8.0	33.40	33.05	32.90	32.30	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		16	2	2	2	8
\ 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×1.50t

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 Ra	ed 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)

3.95

3.45

2.90

2.15

Boom Length (m) Jib Length (m) Offset Angle (°) 10 30 10 30 10 30 10 30 Working Radius (m) 28.45 28.15 27.95 27.40 27.45 26.60 26.80 25.65 8.9 9.0 27.95 27.70 27.50 26.95 26.95 26,15 26.35 25.20 23.05 10.0 24.00 23.75 23.55 22.35 22.45 21.45 23.10 12.0 18.45 18.20 18.00 17.65 17.50 16.95 16.95 16.20 14.0 14.70 14.50 13.80 13.35 13.30 14.25 14.00 12.65 12.00 11.85 10.80 10.65 16.0 11.60 11.35 11.15 10.15 18.0 10.00 9.90 9.60 9.40 9.15 8.85 8.70 8.25 8.35 8.05 7.90 7.60 7.35 7.15 6.80 20.0 8.45 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

3.60

3.10

2.40

1.70

3.25

2.65

1.95

35.2m×1.50t

3.15

2.60

1.90

35.1m×1.50t

2.80

2.10

33.7m×.1.50t

2.70 2.00

33.4m×1.50t

Boom Length (m)				4	3			
Jib Length (m)	1	0	1	6	2	2	2	8
\ 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.

3.65

3.15

2,45

1.75

- 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.

30.0

32.0

34.0

36.0

4.00

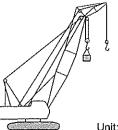
3.50

2.95

2.20

- 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.

			10 /		
Hook	Hook		Maximum Ra	ted Load (ton)	
Capacity	Weight		9	,	1
(ton)	(ton)			•	
45	0.62	34.6	33	22	
22	0.60			22	



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

		6			
	<ul> <li>— mostantanamentamiento identification</li> </ul>				market and the second contraction of the second
	16	2	2	2	28
10	30	10	30	10	30
23.30	22.85	22.80	22.05	22,25	21.20
17.75	17.35	17.25	16.70	16.75	15.95
5 14.00	13.70	13.55	13.10	13.05	12.40
1.35	11.10	10.90	10.50	10.40	9.90
9.35	9.10	8.90	8.60	8.45	8.00
7.75	7.60	7.35	7.10	6.90	6.50
6.50	6.35	6.10	5.90	5.65	5.35
5.50	5.35	5.10	4.90	4.65	4.40
4.65	4.55	4.25	4.10	3.85	3.60
3.95	3.85	3.55	3.40	3.15	2.95
3.35	3.25	2.95	2.85	2,55	2.40
2.80	2.75	2.45	2.35	2.00	1.80
2.35	2.30	1.90	1.80	33.6m×1.50t	33.0m×1.50t
1.85	1.75	35.4m×1.50t	35.0m×1.50t		
37.2m×1.50t	37.0m×1.50t				
.50t					
	10 23:30 5 17.75 6 14.00 6 1.35 0 9.35 6 7.75 0 6.50 0 5.50 6 4.65 6 3.95 6 3.95 6 3.95 6 2.80 6 2.35 6 1.85	10 30  23.30 22.85  5 17.75 17.35  6 14.00 13.70  5 1.35 11.10  9.35 9.10  7.75 7.60  0 6.50 6.35  0 5.50 5.35  6 4.65 4.55  5 3.95 3.85  6 3.35 3.25  0 2.80 2.75  5 2.35 2.30  5 1.85 1.75  0 37.2m×1.50t 37.0m×1.50t	10 30 10  23.30 22.85 22.80  5 17.75 17.35 17.25  6 14.00 13.70 13.55  6 1.35 11.10 10.90  9.35 9.10 8.90  7.75 7.60 7.35  0 6.50 6.35 6.10  0 5.50 5.35 5.10  6 4.65 4.55 4.25  6 3.95 3.85 3.55  5 3.35 3.25 2.95  0 2.80 2.75 2.45  6 2.35 2.30 1.90  37.2m×1.50t 37.0m×1.50t	10         30         10         30           0         23.30         22.85         22.80         22.05           5         17.75         17.35         17.25         16.70           6         14.00         13.70         13.55         13.10           5         1.35         11.10         10.90         10.50           0         9.35         9.10         8.90         8.60           5         7.75         7.60         7.35         7.10           0         6.50         6.35         6.10         5.90           0         5.50         5.35         5.10         4.90           5         4.65         4.55         4.25         4.10           5         3.95         3.85         3.55         3.40           5         3.35         3.25         2.95         2.85           0         2.80         2.75         2.45         2.35           0         2.35         2.30         1.90         1.80           37.2m×1.50t         37.0m×1.50t         35.0m×1.50t         35.0m×1.50t	10         30         10         30         10           0         23.30         22.85         22.80         22.05         22.25           5         17.75         17.35         17.25         16.70         16.75           5         14.00         13.70         13.55         13.10         13.05           5         1.35         11.10         10.90         10.50         10.40           0         9.35         9.10         8.90         8.60         8.45           5         7.75         7.60         7.35         7.10         6.90           0         6.50         6.35         6.10         5.90         5.65           0         5.50         5.35         5.10         4.90         4.65           5         4.65         4.55         4.25         4.10         3.85           6         3.95         3.85         3.55         3.40         3.15           5         3.35         3.25         2.95         2.85         2.55           0         2.80         2.75         2.45         2.35         2.00           5         2.35         2.30         1.90         1.80         33

Boom Length (m)					<b>19</b>			
Jib Length (m)	1	0	1	16	2	22	2	8
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	- 00	10	- 00	10	- 00	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						

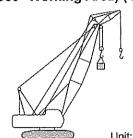
- Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability
  - stipulated by the mobile crane construction standards.

    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 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) (4)



			ت المستحدث	Unit: tor			
Boom Length (m)		5	2				
Jib Length (m)	1	0	16				
∖ Offset Angle (°)	10	30	10	30			
Working Radius (m)	U	3	2	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.

  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.

  - 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	Weight	4	3	2	1
(ton)	(ton)				
45	0.62	34.6	33	22	
22	0.60	_		22	

#### **■**Crane Boom Construction

Boom Le Elements	ngth (m)	13	1	6	1	9	2	2	2	5	2	8	3	11		34	3	7	4	0	4	3	4	6	4	9	5	2	-5	55	5	8	6	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		
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					•		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
								4	•	•				•					Jib	Len	gth	10 r	าา, 1	6 m						<b></b>				
Available Jib																		Jib	Len	gth	22 r	n, 2	8 m						I					
Available aux. Jib		4	9098898 	\$44865	2595255 .vv	33555 	9755556	80808360 80808360	9499	1976	675F)	39905	1968/GS	26500	357(6)	9868	9000	 (1988)	354/65	20000	85886	377.556	883E	88-58	(2/7/10)			9859	90,000					

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.

- 2. 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

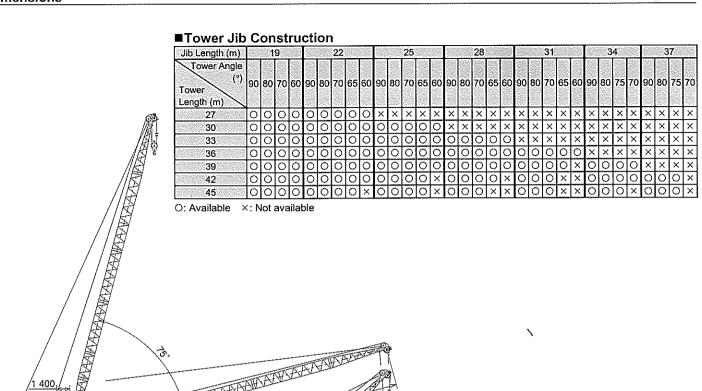
Jib Le	ength (m)	10	16	22	28
Lower Jib	5 m	1	1	1	1
Upper Jib	5 m	1	1	1	1
6 m Jib Insert			1	2	3

**■**Component Weights and Dimensions for Transport

	Components	Weight (ton)	Q'ty	Length ×	Width ×≀	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	4	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	
30.00	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**

Unit: mm **■**Dimensions



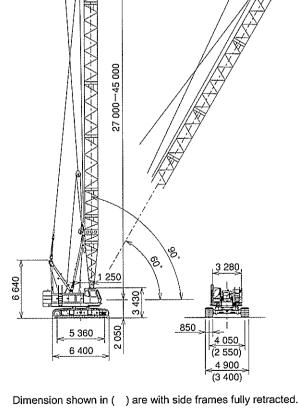
■Specifications

Maximum rated load ton x 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 expressed in SI units, followed by conventional units in ( ).

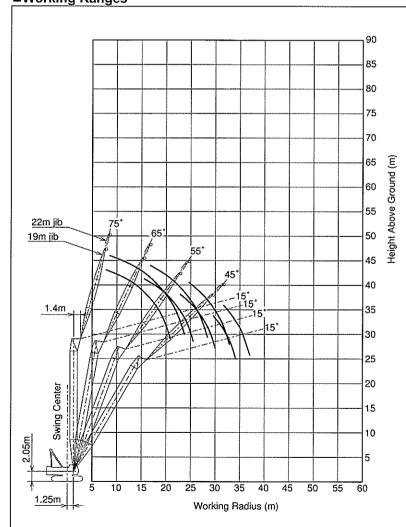
2. Other specifications, not shown, are similar to those for the crawler crane.

3. \*Line speeds will vary with the load.



■Rated Loads	for Tow	er Crane	•					Unit: ton
Jib Length (m)		1	9			2	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			
10.0	15.00	Salah managaran	30.50.50.E	PERMIT	15.00		Sec. 50. 10. 12.	
12.0	15.00	i			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	1		11.70	10.85		
20.0	10.35	9.60	(0.15)		10.25	9.50		0.00
22.0	21.0×8.25	8.55	22.9×7.35		9.10	8.45	1	
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

#### ■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.

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

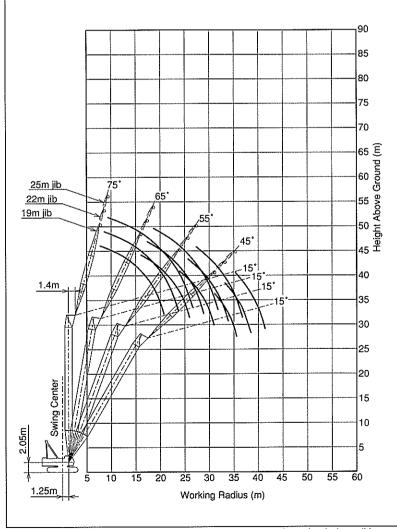
- Working radius is a horizontal distance between swing center of the machine and center of gravity of the load
- 4. Counterweight is 30.4 t.
  5. Be sure to fully extend the side frames before operating the
- 6. Figures described as OO×OO in the tables indicate working radius (m) × rated load (t).

# **30** m Tower (2-Rope Reevings)

#### ■Rated Loads for Tower Crane

Jib Length (m)		1	9			2	2			2	5	
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				ļ			
10.0	15.00		Sec. 1997 (1997)	7.476.776.44.05.05.0	15.00	92.400 No. 100			10.3×15.00	100000000000000000000000000000000000000		
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	100-100-700-700	A. 1751 (A. 152)	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				35.6×3.50				3.10			3.75	3.20
38.0								38.5×3.05			36.7×3.65	2.95
40.0	2 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7							Victoria Sur La Contraction				2.75
41.4								1				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.

Unit: ton

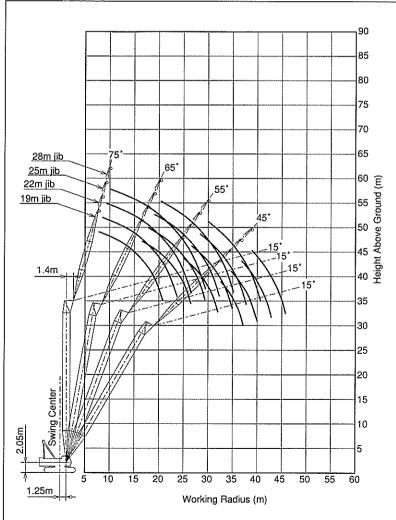
The load to be actually lifted will be the rated load shown minus the weight of all lifting attachments such as a hook.

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

#### ■Rated Loads for Tower Crane

■Rated Load	as tor	lower	<u>Crane</u>													Unit: to	
Jib Length (m)		1	9		22					2 2 2	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													pyryra-yray-an-yan-			
9.0	15.00	1			9.6×15.00									· ·			
10.0	15.00	4.65.65.65	66/68/62	30,160,350	15.00	550/550/6		6.000.00.00	10.4×15.00	67.68.680		35 50 AB	11.2×15.00	8.800.0	166.00		
12.0	15.00				15.00				15.00				15.00		,,		
14.0	15.00				15.00		1		15.00				15.00				
16.0	13.55	16.6×11.75			13.50	17.9×10.60			13.40				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		7/55	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			29.4×5.65	4.75	9/435/155/16		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		de estado de la composição de la composi						2.65				2,50			2.95	2.40	
42.0												2.35			40.6×2.90	2.20	
44.0												42.9×2.25				2.00	
45.8																1.85	

#### **■**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).

# **36** m Tower (2-Rope Reevings)

#### ■Rated Loads for Tower Crane

Jib Length (m)	Length (m) 19				22					2	25	es estimatio	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		Section (Sec.	F-1701.533.75	15.00	Van 1874 (1894)		(600.000.000	10,4×15.00				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	9.00/5.0		10.10	8.95	(0), (5), (4)			21.0×8.30	Service Land	
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		<b></b>	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			4.65			29.9×5.45	4.55			5.30	4.40	97.85.77	29.7×5.40		31.1×4.10	
32.0			4.30				4.15			4.85	4.05		<u>                                     </u>	4.75	3.90	
34.0			33.0×4.10	3.25			3.85			32.8×4.70				4.40	3.60	
36.0				3.00			35.9×3.55	36.1×2.85			3.40			35.7×4.10		
38.0				2.75				2.65			3.15	38.2×2.45	l	ļ	3.05	
40.0	process a compa			38.6×2.70				2.45	37000000000	200000000000000000000000000000000000000	38.8×3.05				2.80	40.3×2.05
42.0								41.5×2.30				2.05			41.7×2.65	
44.0												1.90 €				1.70
46.0										<b></b>		44.4×1.85		ļ		1.55
47.3											<u> </u>					1.45

	2	1	
	J	. <b>1</b> 1/2/20/2005	
90	80	70	60
44.00		7//30000000	\$10051005814601
9.95			
8.80	22.2×7.65		
7.85	6.90		
7.10	6.20		
6.45	5.60		
5.90	5.10		
5.25	4.65	32.8×3.65	
32.6×4.60	4.30	3.50	
	3.95	3.20	
	3.65	2.95	
	38.6×3.60	2.70	
		2.50	42.5×1.70
		2.30	1.55
		44.6×2.25	1.40
			1.25
160.664.08	Santiscopia.		1.15
			1.10
	14.90 14.76 13.20 11.35 9.95 8.80 7.85 7.10 6.45 5.90 5.25	90 80  14.90  14.75  13.20  11.35  9.95  8.80  22.2×7.65  7.85  6.90  7.10  6.20  6.45  5.60  5.90  5.10  5.25  4.65  32.6×4.60  4.30  3.95  3.65	14.90 14.75 13.20 11.35 9.95 8.80 22.2×7.65 7.85 6.90 7.10 6.20 6.45 5.60 5.90 5.10 5.25 4.65 32.6×4.60 4.30 3.50 3.95 3.20 3.65 2.95 38.6×3.60 2.70 2.50

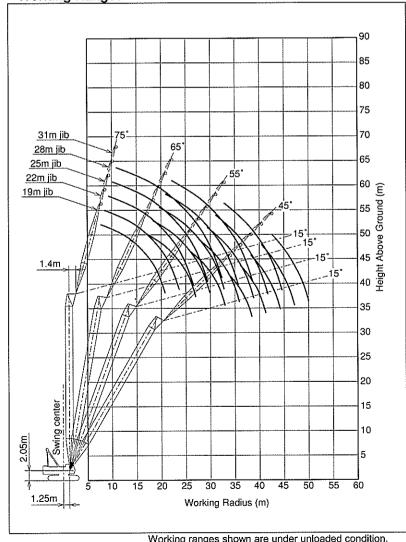
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

 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
	Capacity	Weight

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

#### **■**Working Ranges



Working ranges shown are under unloaded condition.

Unit: ton

#### ■Rated Loads for Tower Crane

Jib Length (m)	36600000000	1	9	2017 0 GG 10 G 10	22					2	5	797 (607) (618) (618)	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										- constitution and a factor of the constitution of the constitutio	***************************************	110,000,000,000,000,000	Paragraphic Company (1971)	The Sector Sector Sector		
9.0	15.00				9.7×15.00										<u> </u>		
10.0	15.00	56.5.			15.00				10,5×15.00	Section 2			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	13.50	17.7×10.55			13.45				13.30				13.25				
18.0	11.70	10.30			11.60	18.9×9.60		İ	11.50				11.40				
20.0	10.25	9.05		68-1158-1860	10.20	8,95	(6) (6) (45)	\$150.00m	10.10	20.2×8.70		100000	10.00	21.5×7.90		A. 16.10	
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			6.50	5.60			
30.0	5.6.5		4.45			5.30	<b>4.35</b>			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				2.30				2.15	orrespient conscious		39.8×2.80	1.95			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																1.15	
48.8																1.10	

Jib Length (m)	2000 - 100 / 100 P	3	11 8 8 8 8 8 8	ASSESSED FOR	2, 30, 30, 3	34	er sammann gaza
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	7/09/19/19			9.80		
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

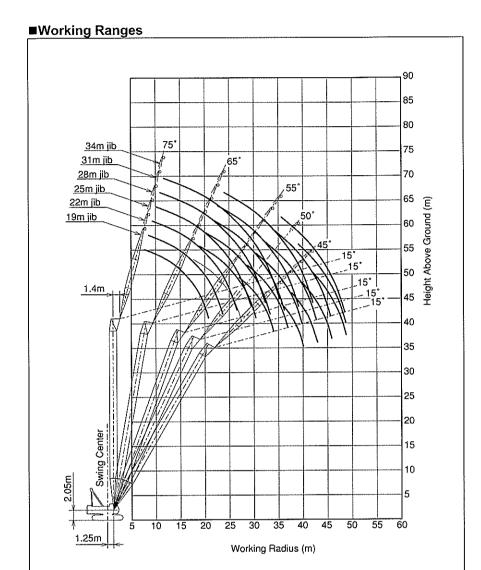
Notes: 1. The rated loads shown do not exceed 78% of tipping load with the machine on firm level ground, and are not less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

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

attachments suc	ch 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.
   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) y stated lead (t)

- indicate working radius (m) × rated load (t).



Working ranges shown are under unloaded condition.

Jib Length (m)		2	22			- 2	25		28							
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											
10.0	15.00	60.56.656.6	1831/40/00	Station 166	15.00	681 (SUITE		51.5E/1651/A	10.5×15.00	\$455.65	900900900	120.000	11.4×15.00	8.58/ASI/A	isii.a.a	38.000/S
12.0	15.00				15.00				15.00				15.00			
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			10.15	8.75			10.05	20.7×8,25			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		200000000000000000000000000000000000000	4.25			5.20	4,10		1050167008	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				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			İ					1.45				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)	5.50.00	31	0.6539.7550.7669	Grander Galler	34	14201641166		37	Salah Barasa
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		i
20.0	9.90			9.80		15001000000	8.45		12001120/1255
22.0	8.75	23.3×6.90		8.65		i	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	176000000000000000	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 less than 1.15 times over-front stability stipulated by the mobile crane construction standards.

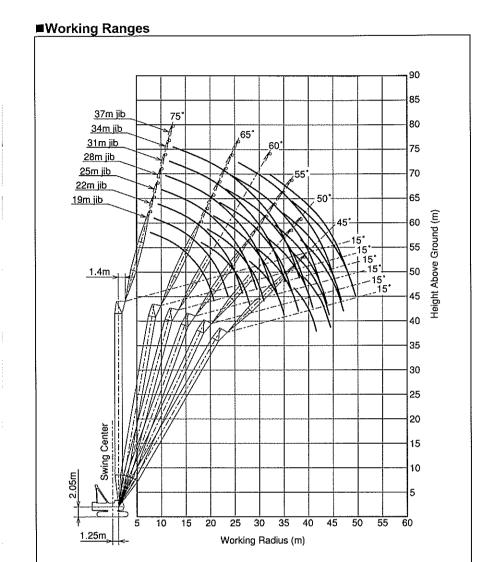
load shown minus the weight of all lifting attachments such as a hook.

attachinents su	on as a noon.
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 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	Tower	Crane											U	lnit: 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	6.000 E8.00	1800 (400)	ASSESSED 4450	15.00	113011120115	54-VE11857	Suggestions	10.6×15.00	100000000000000000000000000000000000000	9501650416504		11.4×14.55	Season .	1,491/81/IS
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	<b>%10.20</b>	8.70			10.10	8.60		\$18.18.6	10.00	21.3×7.80	6.8.8.		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	
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		55 1000 1000	5.10	30.7×3.75		V. 1980	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			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

Jib Length (m)		31		an an An	34		16 AS AS	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		45/45/8	8.45		180816
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. The load to be actually lifted will be the rated lead to be actually lifted will be the rated lead to be actually lifted.

load shown minus the weight of all lifting attachments such as a hook.

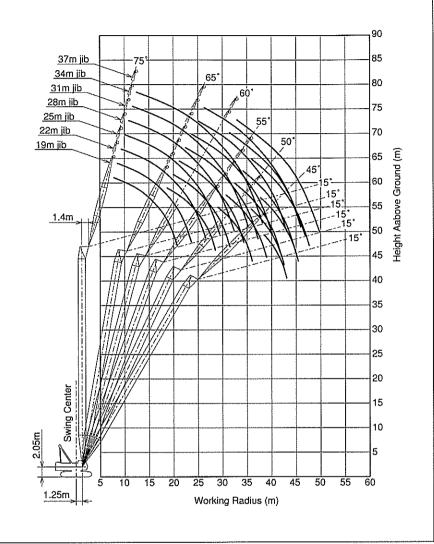
44.8×1.80

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

- 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 OO×OO in the tables indicate working radius (m) × rated load (t).

1.35





Working ranges shown are under unloaded condition.

١.

#### **■**Tower Boom Construction

T Elements	ower Length (m)	27	30	3	3	36	39	4	2	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	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	de distribution de la company	Carple Vayer grayer area. Salawayda tarbia da bakararia	aralisklanyen Granderbaggan								
	22 m											
A 21 - 1-1 -	25 m											
Available tower jib	28 m											
tower jib	31 m											
	34 m											
	37 m							775 - KSRS	(Inythumyle)			

#### **■**Crane Jib Construction

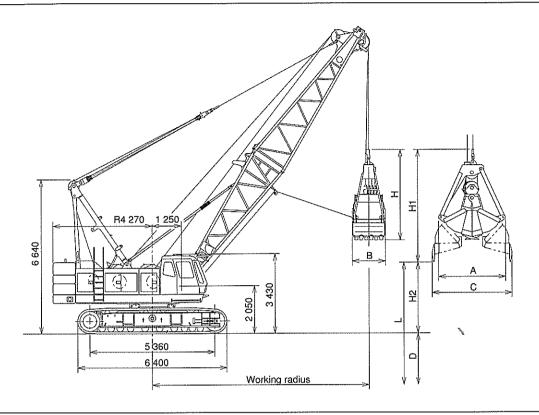
Elements	Jib Length (m)	19	22	25	28	31	34	37
Lower Jib	6.5 m	1	1	1	1	1	1	1
Upper Jib	6.5 m	1	1	1	1	1	1	1
3 m Jib Insert			1	2	1	1	2	1
6 m Jjib Insert		1	1	1	2	1	1	2
9 m Jjib linsert						1	1	1

**■**Component Weights and Dimensions for Transport

	Components	Weight (ton)	Q'ty	Length x	Width ∞	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	~	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**

**■**Dimensions



■Specifications

= Specifications						
Bucket capacity m³	2.5					
Allowable clamshell gross weight ton	•	10.0				
Boom length m	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	Trope zonim dia.				
Boom hoist line m/min	*55	Rope 20mm dia.				
Ground pressure kPa (kgf/cm²)	93.7	93.7 (0.96)				
Operating weight ton	92.0 (13 m boom + 2.5 m³ bucket)					

**■Clamshell Bucket** 

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.

=\Morking Panges

■Working Ranges																
Boom length m		1	3			1	6			1	9			2	!2	
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								3	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.
- Working radius is the horizontal distance from the swing center to the center of gravity of lifted load.
   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.

#### **■STANDARD EQUIPMENT**

#### **BASIC MACHINE**

#### Undercarriage

Crawler-type undercarriage (with 850 mm shoes)

#### Superstructure

- Front lights (2 lights)
- · Rearview mirrors (left and right)
- Centralized lubrication system (for gantry and swing circle)
- · Electric refuel device

Under-cover (at superstructure bottom)

• Side frame extend cylinder (tandem)

- · Cab climbing steps
- Ultra slow speed controller
- Drum rotation sensing system
- 30.4 t counterweight
- Standard tool kit

#### Cab

- Intermittent-wipers (front and roof windows)
- Washers (front and roof windows)
- Rolled sunshade (roof window)
- Sunvisor
- Floor mat
- Room light

#### **Safety Devices**

- Swing lock
- Swing alarm

- Auto-tuning clock radio (AM/FM)
- Cigarette lighter
- Ashtray
- Brake mode selector switch
- Electric tilt-type stand

- · Drum pawl lock
- (main and auxiliary hoist, and boom hoist)

- Fail safe brake system
- Pilot control shut-off lever
- · Before-work check monitor

#### 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  $\times$  2, 6 m  $\times$  2, 9 m  $\times$  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. x 150 m)

- 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

#### Clamshell

- 13 m basic boom (lower 6.5 m, upper 6.5 m)
- 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)\*

- Suspend rope (26 mm dia. × 70 m)\*
- Hydraulic tagline (10 mm dia. × 55 m rope included) and Boom hoist rope (20 mm dia. × 170 m)
- \* Two lengths of open/close and suspend ropes are determined based on 22 m boom length and 12 m digging depth.

	The Control of the Co	The first profit of the contract of the contra	
90 ton hook	0	●*1	<del></del>
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	
6 m jib insert	•	<b>•</b> *2	······
Aux. jib assembly [aux. jib aux. jib hook overhoist prevention device, aux. jib rope (26 mm dia. × 170 m), 11 ton hook]	•	<b>•</b> *2	
Aux. jib [aux. jib aux. jib hook overhoist prevention device]	•	●*2,*3	w17
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 m <sup>3</sup> clamshell bucket		<del></del>	•
Open/close and suspend ropes			•
Hydraulic tagline	***************************************		•
Upperstructure			
Drum cooler (for aux. drum)	_	_	•

O: Standard equipment •: Optional equipment —: Not recommended

CRAWLWER

CRANE

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FULL-LUFFING

TOWER CRANE

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**CLAMSHELL** 

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Notes: \*1. Included in crane kit.

Foam type level (in cab)

Side walk (folded type)

Fuel double element

Cab

Fan

Heater

AM/FM radio

Loudspeaker

Air conditioner

Safety Device

Undercarriage

Boom lower limiter

Side walk (fixed type with handrails)

Engine air cleaner double element

\*2. Designed for use with crane kit

Basic machine jack-up device (including side frame extend cylinders)

Bucket overhoist prevention device

■Standard and Optional Equipment

Front Attachment Crane

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