



SCX550

HYDRAULIC CRAWLER CRANE

Specifications

EUROPEAN ISSUE

HITACHI SUMITOMO

SCX550

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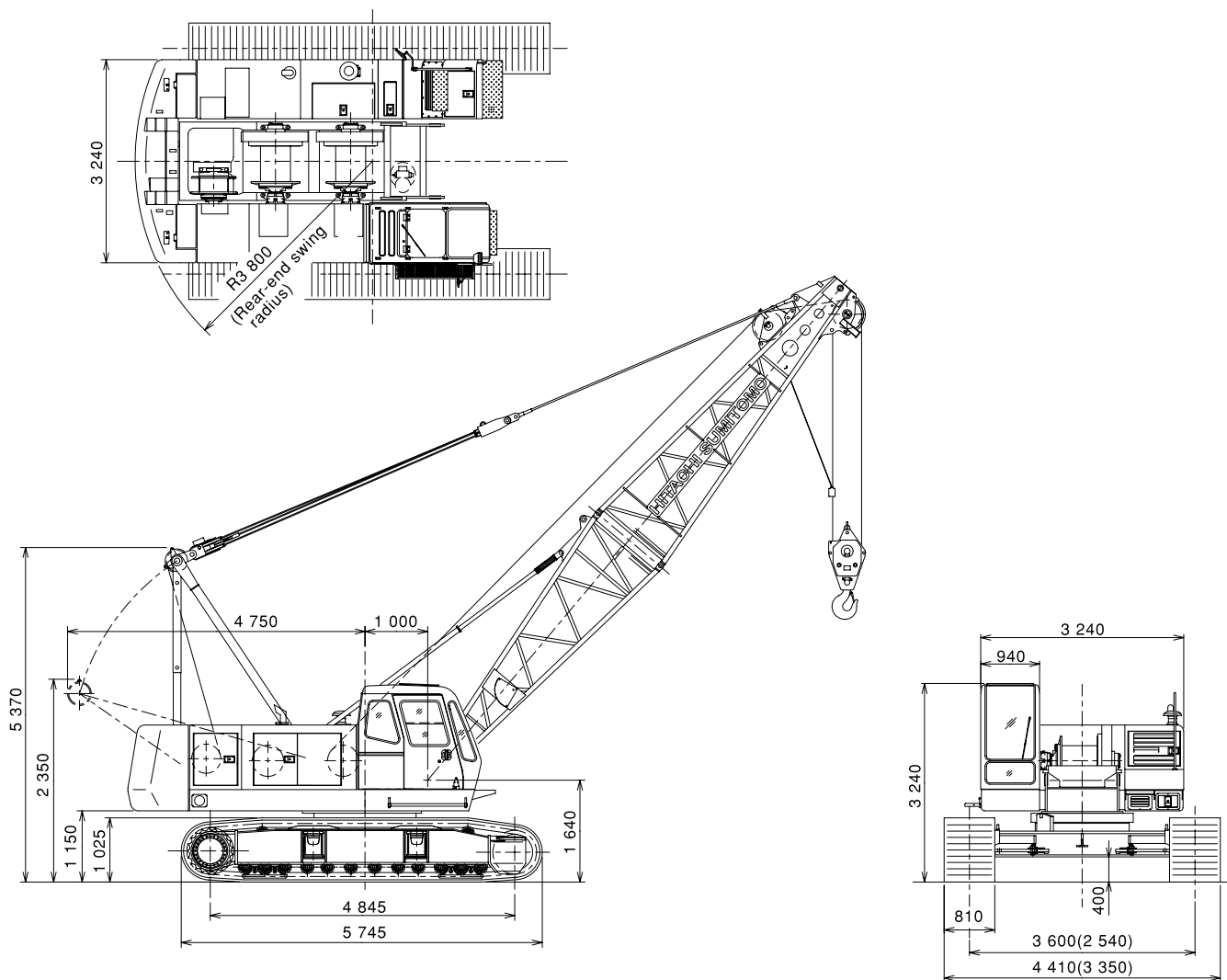


CRAWLER CRANE	■ Dimensions ■ Specifications	3
	■ Technical Description	4
	■ Working Ranges	8
	■ Rated Loads for Main Boom(EN Rating)	9
	■ Rated Loads for Jib Boom(EN Rating)	10
	■ Rated Loads for Main Boom(BS Rating)	14
	■ Rated Loads for Jib Boom(BS Rating)	15
	■ Crane Boom Construction ■ Crane Jib Construction ■ Component Weights and Dimensions for Transport	19
FULL-LUFFING TOWER CRANE	■ Dimensions ■ Tower Jib Construction ■ Specifications	20
	■ Working Ranges(40m Tower)	21
CLAMSHELL	■ Dimensions ■ Specifications ■ Working Ranges ■ Clamshell Buckets	22
	DRAGLINE	■ Dimensions ■ Specifications ■ Working Ranges
TECHNICAL DATA		■ Standard Equipment

Note: All "ton" described in this catalog represent metric tons.

■ Dimensions

Unit : mm



Dimensions shown in () are with tracks retracted.

■ Specifications

Mode		Crane	Bucket
Maximum rated load	ton × m	55 × 3.7	
Basic boom length	m	10	
Max. boom length	m	49	
Jib length	m	6 to 15	
Max. boom with jib length	m	43+15	
Main hoist drum	m/min	* 100/65/32	* 74/37
Aux. hoist drum	m/min	* 100/65/32	* 74/37
Boom hoist drum	m/min	* 53	* 60
Swing speed	min ⁻¹ (rpm)	4.0 (4.0)	
Travel speed	km/h	* 1.7/1.4	* 2.0/1.6
Gradeability	deg.(%)	22 (40)	
Engine model		ISUZU BB-6HK1T	
Rated power	kw/min ⁻¹ (PS/rpm)	136/2 000 (185/2 000)	
Ground pressure	kPa (kgf/cm ²)	63.7(0.65)	
Operating weight	ton	54.3 (Equipped with 10m boom and 55 ton capacity hook)	

- Notes: 1. Data expressed above are in SI units(International System of Unit), followed by data in conventional units in ().
2. Crane/Bucket mode can be changed by the work mode switch.
3. *Data will vary with the load.



Superstructure



Engine

Model..... ISUZU BB-6HK1T
 Type..... Water-cooled, 4-cycle, 6-cylinder,
 direct fuel injection type diesel engine
 Rated power 136 kW (185 PS) at 2 000 min⁻¹
 (DIN 6 271, net) (2 000 rpm)
 Maximum torque 735 N·m (75 kgf·m) at 1600 min⁻¹
 (1 600 rpm)
 Piston displacement 7.79 L
 Fuel tank capacity 300 L
 Electric system DC 24 V



Main and Auxiliary Hoist Mechanism

- The Hitachi CX550 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 bucket.
- 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. With the hoist lever in neutral, auto braking or foot braking can be selected.

	<u>Main Drum</u>	<u>Aux. Drum</u>
Max. line pull	15 600 kgf	15 600 kgf
Drum diameter (P.C.D)	500 mm	500 mm
Rope diameter	22 mm	22 mm
Max. line speed	100 m/min	100 m/min
Rope length at first layer	38 m	38 m



Boom Hoist Mechanism

- Independent operation separated from other functions.
- 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.
- Boom hoist drum is fitted with a pawl-type drum lock.

	<u>Boom Drum</u>
Max. line pull	8 000 kgf
Rope diameter	16 mm
Max. line speed	53 m/min



Swing Mechanism

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

Swing Brake

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

Swing Lock

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

Swing Circle

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



Revolving Frame

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

Gantry

Lowerable for transportation.

Counterweight

Total weight: 18 700 kg

Consisting of 3 sections: One 3 600 kg
 One 7 100 kg
 One 8 000 kg



Boom

Tubular Chord Crane Boom

1 300 mm wide by 1 300 mm deep at connection, lattice construction using high-tensile steel tubular chords.

Basic boom Total length 10.0 m, 2-piece construction; upper section 5.0 m and lower section 5.0 m.

Boom point Offset boom point, 4 sheaves (462 mm PCD) mounted on anti-friction bearings on boom top.

Boom inserts 3.0 m, 6.0 m and 9.0 m long available.

Connection type ... Pin-connected.

Boom backstop ... Dual-rail, telescopic tubular construction with spring damper.

Boom hoist bridle ... Serves as connection between pendants and boom hoist wire rope reeving, equipped with 6 sheaves (340 mm PCD) for 12-part boom hoist wire rope reeving.

Crane Jib

550 mm wide by 480 mm deep at connection, lattice construction using high-tensile steel tubular chords.

Basic jib Total length 6.0 m, 2-piece construction; upper section 3.0 m and lower section 3.0 m.

Jib point 1 sheave (462 mm PCD) mounted on anti-friction bearings on jib top.

Jib insert 3.0 m long available.

Connection type ... Pin-connected.

Auxiliary jib 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 jib and auxiliary jib cannot be attached simultaneously to the boom.

Tubular Chord Tower Crane Boom

1 300 mm wide by 1 300 mm deep at connection, lattice construction using high-tensile steel tubular chords.

Tower boom length .. 22.0 m, minimum
40.0 m, maximum

Tower inserts 1.5 m, 3.0 m, 6.0 m and 9.0 m long available.

Connection type Pin-connected.

Tower backstop Dual-rail, telescopic tubular construction with spring damper.

Tower hoist bridle ... Serves as connection between tower boom pendants and boom hoist wire rope reeving, equipped with 6 sheaves (340 mm PCD) for 12-part boom hoist wire rope reeving.

Tower Jib

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

Jib length 16.0 m to 28.0 m

Jib inserts 3.0 m and 6.0 m long available.

Connection type Pin-connected.

Tower jib hoist bridle ... Serves as connection between tower jib pendants and tower jib hoist wire rope reeving, equipped with 4 sheaves (360 mm PCD × 3 plus 420 mm PCD × 1) for 8-part tower jib hoist wire rope reeving.



Operator's Cab

All-weather, well-ventilated, roomy operator's cab with good visibility. The independent cab is insulated against noise and vibration.

- 2 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/cm ²)	29.4 MPa (300 kgf/cm ²)
Max. oil flow*	216 L/min	216 L/min
	Pump-3	Pump-4
Type of pump	Variable displacement	Gear
Pressure setting	23.0 MPa (235 kgf/cm ²)	4.9 MPa (50 kgf/cm ²)
Max. oil flow*	135 L/min	32 L/min

* with non-loaded condition

Main and Auxiliary Hoist Motors

Axial piston motors with counterbalance valves.

Boom Hoist Motor

Axial piston motor with counterbalance valve.

Swing Motor

Axial piston motor.

Travel Motors

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/cm²)
 - Swing 23.0 MPa (235 kgf/cm²)
- Overload relief valves
 - Hoist (main and aux.) circuits 31.4 MPa (320 kgf/cm²)
 - Boom hoist circuit 30.4 MPa (310 kgf/cm²)
 - Travel circuit 29.4 MPa (300 kgf/cm²)

Pilot Circuit

- Main relief valve 4.9 MPa (50 kgf/cm²)

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.

Traction mechanism

- Each track is driven by an 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

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

Side Frame Extending/ Retracting Device

- Side frames are extended and retracted with a hydraulic cylinder located inside the track frame. Hydraulic power source for a hydraulic cylinder is separated from other systems to allow combined operation of travel and side frame.
- The side frames are extended and retracted quickly without need for piping.

Track Shoes

Track shoes with triple grouser made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

No. of upper rollers (each side)	2
No. of lower rollers (each side)	12
No. of track shoes (each side)	59
Shoe width	810 mm



Controls

Boom, Main and Auxiliary Hoist, Swing and Travel

Remote controlled hydraulic servo. Working speed can be precisely controlled according to lever stroke.

● Engine Accelerator

Engine power can be controlled by two ways; the 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/or the buzzer sounds in the event of an abnormality.

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

The pawl-type drum locks are provided at main drum, auxiliary drum and boom drum.

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.

● **Pilot Control Shut-off Lever**

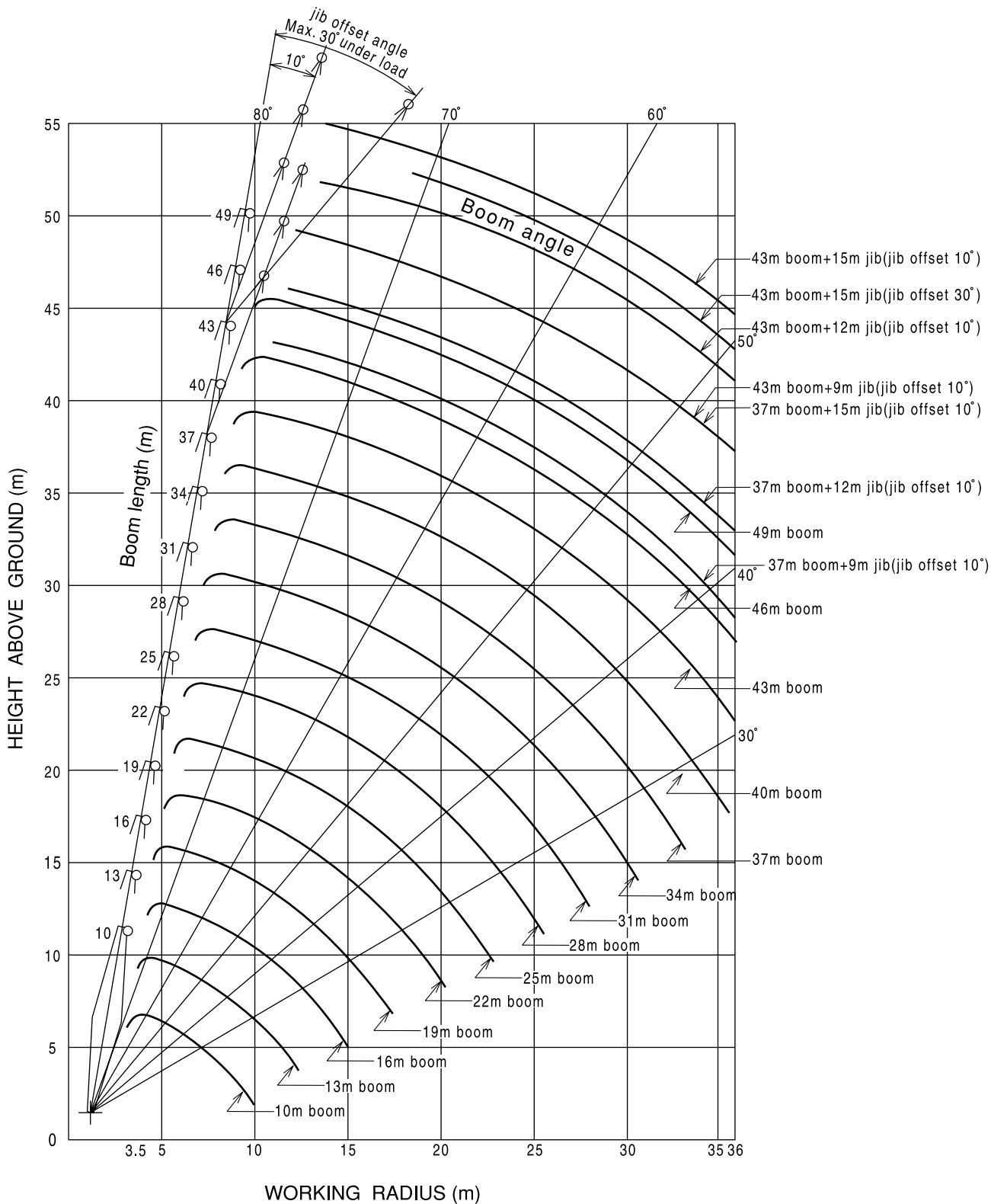
The pilot control shut-off lever shuts out the hydraulic pilot pressure to pilot control valves. With the pilot control shut-off lever in the LOCK position, the machine will not operate even if the lever is accidentally shifted.

● **Fail-safe mechanism**

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

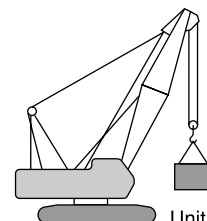
	Liter
Fuel tank	300
Engine coolant	25
Engine oil	36
Pump transmission	2
Boom hoist reduction device	9.5
Winch hoist reduction device	12.5 x 2
Swing reduction device	8
Travel reduction device	11.5 x 2
Hydraulic system , including tank capacity	305
Hydraulic tank	225

Working Ranges



■ Correlation between the number of falls, maximum rated loads, hook weights are shown in the table below.

Hook Capacity (ton)	Hook Weight (ton)	Maximum Rated Loads (ton)								
		9	8	7	6	5	4	3	2	1
55.0	0.70	55.0	52.0	45.5	39.0	32.5	26.0	19.5	13.0	—
30.0	0.36	—	—	—	—	30.0	26.0	19.5	13.0	—
15.0	0.32	—	—	—	—	—	—	15.0	13.0	—
6.5	0.18	—	—	—	—	—	—	—	—	6.5



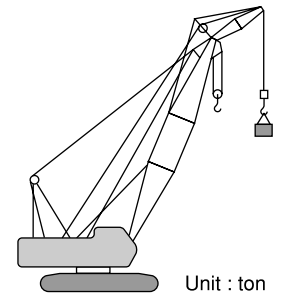
Unit : ton

Rated Loads for Main Boom (EN Rating)

Working Radius (m)	Boom Length (m)						
	10	13	16	19	22	25	28
3.5	55.00	3.7m×55.00t					
4.0	51.20	51.00	4.4m×43.80t				
4.5	42.30	42.20	42.15				
5.0	35.80	35.75	35.65	35.65			
5.5	31.05	30.95	30.85	30.85	30.45		
6.0	27.35	27.25	27.20	27.15	27.10	6.1m×26.30t	6.7m×23.10t
7.0	22.05	21.95	21.85	21.85	21.75	21.70	21.65
8.0	18.45	18.30	18.25	18.20	18.10	18.05	18.00
9.0	15.30	15.70	15.60	15.55	15.45	15.40	15.30
10.0	9.8m×12.55t	13.70	13.60	13.50	13.45	13.40	13.30
12.0		10.70	10.70	10.65	10.60	10.55	10.45
14.0		12.4m×9.90t	8.80	8.75	8.65	8.55	8.50
16.0			15.0m×8.00t	7.30	7.20	7.15	7.05
18.0				17.6m×6.45t	6.15	6.05	6.00
20.0					5.35	5.25	5.15
22.0					20.2m×5.25t	4.60	4.50
24.0						22.8m×4.35t	3.95
26.0							25.4m×3.60t

Working Radius (m)	Boom Length (m)						
	31	34	37	40	43	46	49
7.0	7.3m×20.50t	7.8m×18.40t					
8.0	17.95	17.85	8.4m×16.60t				
9.0	15.25	15.20	15.10	15.00	9.6m×13.00t		
10.0	13.25	13.15	13.10	13.00	12.95	10.1m×12.65t	10.7m×10.70t
12.0	10.35	10.30	10.20	10.10	10.10	10.00	9.90
14.0	8.40	8.35	8.25	8.15	8.10	8.00	7.90
16.0	6.95	6.90	6.80	6.70	6.65	6.55	6.50
18.0	5.90	5.80	5.70	5.60	5.60	5.50	5.40
20.0	5.05	5.00	4.85	4.80	4.75	4.65	4.55
22.0	4.35	4.30	4.20	4.10	4.05	3.95	3.85
24.0	3.80	3.75	3.65	3.55	3.50	3.40	3.30
26.0	3.35	3.30	3.20	3.10	3.05	2.95	2.85
28.0	3.00	2.90	2.80	2.70	2.65	2.55	2.45
30.0		2.60	2.45	2.35	2.30	2.20	2.10
32.0		30.6m×2.45t	2.20	2.10	2.00	1.90	1.80
34.0			33.2m×2.00t	1.85	1.75	1.65	1.55
36.0				35.8m×1.60t	1.55	1.45	1.35

- Notes:
1. The rated loads are determined according to prEN13000 rating on the condition that the machine is stationed on firm, level ground.
 2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks, from figures shown above.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 4. The counterweight is 18.7 ton.
 5. Be sure to fully extend the side frames before operating the machine.
 6. Rated line pull is 6 500 kgf when 22mm dia. wire rope is used.
 7. Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).



Unit : ton

Rated Loads for Jib Boom (EN Rating) (1)

Main Boom Length (m)	22							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
8.1	6.50							
9.0	6.50	9.9m×6.50t	9.3m×5.00t					
10.0	6.50	6.50	5.00	11.9m×5.00t	10.4m×4.10t		11.5m×3.30t	
12.0	6.50	6.50	5.00	5.00	4.10	13.9m×4.10t	3.30	
14.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	15.9m×3.30t
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	3.30
18.0	6.15	6.25	5.00	5.00	4.10	4.00	3.30	3.25
20.0	5.30	5.35	5.00	4.85	4.10	3.75	3.30	3.05
22.0	4.60	4.65	4.70	4.55	4.10	3.55	3.30	2.85
24.0	4.05	4.10	4.10	4.20	4.10	3.35	3.30	2.70
26.0	3.45	3.50	3.65	3.70	3.70	3.20	3.30	2.55
28.0	26.1m×3.45t	26.5m×3.35t	3.15	3.30	3.30	3.05	3.10	2.45
30.0			28.9m×3.00t	29.5m×2.85t	2.90	2.95	2.85	2.30
32.0					31.8m×2.55t	2.65	2.65	2.25
34.0						32.5m×2.50t	2.40	2.20
36.0							34.6m×2.05t	35.5m×2.10t

Unit : ton

Main Boom Length (m)	25							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
8.1	8.8m×6.50t							
9.0	6.50		9.9m×5.00t					
10.0	6.50	10.5m×6.50t	5.00		11.0m×4.10t			
12.0	6.50	6.50	5.00	12.5m×5.00t	4.10		12.1m×3.30t	
14.0	6.50	6.50	5.00	5.00	4.10	14.5m×4.10t	3.30	
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	16.5m×3.30t
18.0	6.00	6.15	5.00	5.00	4.10	4.10	3.30	3.30
20.0	5.15	5.25	5.00	5.00	4.10	3.85	3.30	3.15
22.0	4.50	4.55	4.55	4.70	4.10	3.65	3.30	2.95
24.0	3.90	4.00	4.00	4.10	3.90	3.45	3.30	2.80
26.0	3.45	3.50	3.55	3.65	3.60	3.30	3.30	2.65
28.0	3.00	3.05	3.15	3.20	3.20	3.20	3.15	2.55
30.0	28.7m×2.80t	29.1m×2.75t	2.75	2.85	2.85	2.95	2.90	2.45
32.0			31.5m×2.45t	2.40	2.55	2.65	2.60	2.35
34.0				32.1m×2.40t	2.20	2.30	2.35	2.25
36.0					34.7m×1.90t	35.1m×1.95t	2.05	2.15

- Notes:
1. The rated loads are determined according to prEN13000 rating on the condition that the machine is stationed on firm, level ground.
 2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 4. The offset angles shown are of jib boom offset angle against the main boom, under load.
 5. The counterweight is 18.7 ton.
 6. Be sure to fully extend the side frames before operating the machine.
 7. Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

Rated Loads for Jib Boom (EN Rating) (2)

Unit : ton

Main Boom Length (m)	28							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
9.4	6.50							
10.0	6.50	11.1m×6.50t	10.5m×5.00t		11.6m×4.10t			
12.0	6.50	6.50	5.00	13.2m×5.00t	4.10		12.7m×3.30t	
14.0	6.50	6.50	5.00	5.00	4.10	15.2m×4.10t	3.30	
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	17.2m×3.30t
18.0	5.90	6.10	5.00	5.00	4.10	4.10	3.30	3.30
20.0	5.05	5.20	5.00	5.00	4.10	4.00	3.30	3.20
22.0	4.40	4.50	4.45	4.65	4.10	3.75	3.30	3.05
24.0	3.80	3.90	3.90	4.05	4.00	3.60	3.30	2.90
26.0	3.35	3.40	3.45	3.55	3.50	3.40	3.30	2.75
28.0	2.95	3.00	3.05	3.10	3.10	3.20	3.15	2.60
30.0	2.60	2.60	2.70	2.75	2.75	2.85	2.80	2.50
32.0	31.3m×2.30t	31.7m×2.30t	2.35	2.40	2.45	2.55	2.50	2.40
34.0			2.05	2.10	2.20	2.25	2.25	2.30
36.0			34.1m×2.00t	34.7m×2.00t	1.85	2.00	2.00	2.10

Unit : ton

Main Boom Length (m)	31							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
10.0	6.50	11.8m×6.50t	11.1m×5.00t					
12.0	6.50	6.50	5.00	13.8m×5.00t	12.2m×4.10t		13.4m×3.30t	
14.0	6.50	6.50	5.00	5.00	4.10	15.8m×4.10t	3.30	
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	17.8m×3.30t
18.0	5.80	6.00	5.00	5.00	4.10	4.10	3.30	3.30
20.0	4.95	5.10	5.00	5.00	4.10	4.10	3.30	3.30
22.0	4.25	4.40	4.35	4.55	4.10	3.90	3.30	3.10
24.0	3.70	3.80	3.80	3.95	3.85	3.70	3.30	2.95
26.0	3.25	3.30	3.30	3.45	3.40	3.45	3.30	2.80
28.0	2.85	2.90	2.90	3.00	3.00	3.15	3.05	2.70
30.0	2.50	2.55	2.55	2.65	2.65	2.75	2.70	2.60
32.0	2.20	2.25	2.25	2.35	2.35	2.45	2.40	2.50
34.0	33.9m×1.90t	1.95	2.00	2.05	2.05	2.15	2.10	2.25
36.0		34.3m×1.90t	1.80	1.80	1.85	1.90	1.90	2.00

- Notes:**
- The rated loads are determined according to prEN13000 rating on the condition that the machine is stationed on firm, level ground.
 - To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 - Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - The offset angles shown are of jib boom offset angle against the main boom, under load.
 - The counterweight is 18.7 ton.
 - Be sure to fully extend the side frames before operating the machine.
 - Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

Rated Loads for Jib Boom (EN Rating) (3)

Unit : ton

Main Boom Length (m)	34							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
10.6	6.50		11.7m×5.00t					
12.0	6.50	12.4m×6.50t	5.00		12.9m×4.10t			
14.0	6.50	6.50	5.00	14.4m×5.00t	4.10		3.30	
16.0	6.45	6.50	5.00	5.00	4.10	16.4m×4.10t	3.30	
18.0	5.75	5.90	5.00	5.00	4.10	4.10	3.30	18.4m×3.30t
20.0	4.85	5.05	4.95	5.00	4.10	4.10	3.30	3.30
22.0	4.20	4.30	4.30	4.50	4.10	3.95	3.30	3.20
24.0	3.60	3.70	3.70	3.90	3.80	3.80	3.30	3.05
26.0	3.15	3.25	3.25	3.40	3.30	3.50	3.30	2.90
28.0	2.75	2.80	2.80	2.95	2.90	3.10	2.95	2.75
30.0	2.40	2.45	2.50	2.60	2.55	2.70	2.60	2.65
32.0	2.10	2.15	2.20	2.25	2.25	2.40	2.30	2.50
34.0	1.85	1.85	1.90	2.00	2.00	2.10	2.05	2.20
36.0	34.5m×1.75t	35.0m×1.70t	1.50	1.75	1.75	1.85	1.80	1.95

Unit : ton

Main Boom Length (m)	37							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
10.6	11.2m×6.50t							
12.0	6.50	13.0m×6.50t	12.4m×5.00t		13.5m×4.10t			
14.0	6.50	6.50	5.00	15.0m×5.00t	4.10		14.6m×3.30t	
16.0	6.30	6.50	5.00	5.00	4.10	17.0m×4.10t	3.30	
18.0	5.60	5.85	5.00	5.00	4.10	4.10	3.30	19.0m×3.30t
20.0	4.75	4.95	4.85	5.00	4.10	4.10	3.30	3.30
22.0	4.05	4.20	4.15	4.40	4.10	4.05	3.30	3.25
24.0	3.50	3.60	3.60	3.80	3.65	3.80	3.30	3.10
26.0	3.05	3.15	3.10	3.30	3.20	3.40	3.15	2.95
28.0	2.65	2.70	2.70	2.85	2.80	3.00	2.85	2.85
30.0	2.30	2.35	2.35	2.50	2.45	2.60	2.50	2.65
32.0	2.00	2.05	2.05	2.15	2.15	2.30	2.20	2.40
34.0	1.70	1.75	1.80	1.90	1.85	2.00	1.90	2.10
36.0	34.5m×1.60t	35.2m×1.45t	1.60	1.65	1.65	1.75	1.70	1.85

- Notes:
1. The rated loads are determined according to prEN13000 rating on the condition that the machine is stationed on firm, level ground.
 2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 4. The offset angles shown are of jib boom offset angle against the main boom, under load.
 5. The counterweight is 18.7 ton.
 6. Be sure to fully extend the side frames before operating the machine.
 7. Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

Rated Loads for Jib Boom (EN Rating) (4)

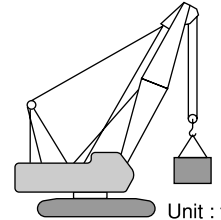
Unit : ton

Main Boom Length (m)	40							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
11.9	6.50							
12.0	6.50	13.6m×6.50t	13.0m×5.00t					
14.0	6.50	6.50	5.00	15.6m×5.00t	14.1m×4.10t		15.2m×3.30t	
16.0	6.50	6.50	5.00	5.00	4.10	17.7m×4.10t	3.30	
18.0	5.50	5.75	5.00	5.00	4.10	4.10	3.30	19.7m×3.30t
20.0	4.65	4.85	4.75	5.00	4.10	4.10	3.30	3.30
22.0	3.95	4.10	4.05	4.30	4.10	4.10	3.30	3.30
24.0	3.40	3.55	3.50	3.70	3.55	3.85	3.30	3.30
26.0	2.90	3.05	3.00	3.20	3.10	3.35	3.15	3.15
28.0	2.50	2.60	2.60	2.75	2.65	2.90	2.75	3.00
30.0	2.15	2.25	2.25	2.40	2.30	2.50	2.40	2.65
32.0	1.90	1.95	1.95	2.05	2.00	2.20	2.10	2.30
34.0	1.60	1.70	1.70	1.80	1.75	1.90	1.80	2.00
36.0	1.40	1.45	1.45	1.55	1.50	1.65	1.55	1.75

Unit : ton

Main Boom Length (m)	43							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
12.0	12.5m×6.50t		13.6m×5.00t					
14.0	6.50	14.3m×6.50t	5.00		14.7m×4.10t		15.9m×3.30t	
16.0	6.50	6.50	5.00	16.3m×5.00t	4.10		3.30	
18.0	5.45	5.70	5.00	5.00	4.10	18.3m×4.10t	3.30	
20.0	4.60	4.80	4.70	5.00	4.10	4.10	3.30	20.3m×3.30t
22.0	3.90	4.05	4.00	4.25	4.10	4.10	3.30	3.30
24.0	3.30	3.45	3.40	3.65	3.50	3.80	3.30	3.20
26.0	2.85	2.95	2.95	3.15	3.00	3.30	3.10	3.05
28.0	2.45	2.55	2.55	2.70	2.60	2.85	2.65	2.90
30.0	2.10	2.20	2.20	2.35	2.25	2.45	2.30	2.60
32.0	1.80	1.90	1.90	2.00	1.95	2.15	2.00	2.25
34.0	1.55	1.60	1.60	1.75	1.70	1.85	1.75	1.95
36.0	1.30	1.35	1.40	1.50	1.45	1.60	1.50	1.70

- Notes:**
- The rated loads are determined according to prEN13000 rating on the condition that the machine is stationed on firm, level ground.
 - To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 - Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - The offset angles shown are of jib boom offset angle against the main boom, under load.
 - The counterweight is 18.7 ton.
 - Be sure to fully extend the side frames before operating the machine.
 - Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).



Unit : ton

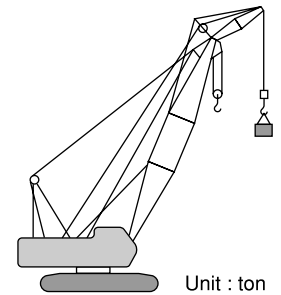
Rated Loads for Main Boom (BS Rating)

Working Radius (m)	Boom Length (m)						
	10	13	16	19	22	25	28
3.5	55.00	3.7m×55.00t					
4.0	51.20	51.00	4.4m×43.80t				
4.5	42.30	42.20	42.15				
5.0	35.80	35.75	35.65	35.65			
5.5	31.05	30.95	30.85	30.85	30.45		
6.0	27.35	27.25	27.20	27.15	27.10	6.1m×26.30t	6.7m×23.10t
7.0	22.05	21.95	21.85	21.85	21.75	21.70	21.65
8.0	18.45	18.30	18.25	18.20	18.10	18.05	18.00
9.0	15.30	15.70	15.60	15.55	15.45	15.40	15.30
10.0	9.8m×12.55t	13.70	13.60	13.50	13.45	13.40	13.30
12.0		10.70	10.75	10.65	10.60	10.55	10.45
14.0		12.4m×9.90t	8.80	8.75	8.65	8.60	8.50
16.0			15.0m×8.00t	7.35	7.25	7.20	7.10
18.0				17.6m×6.50t	6.25	6.15	6.05
20.0					5.45	5.35	5.25
22.0					20.2m×5.35t	4.70	4.55
24.0						22.8m×4.45t	4.00
26.0							25.4m×3.70t

Unit : ton

Working Radius (m)	Boom Length (m)						
	31	34	37	40	43	46	49
7.0	7.3m×20.50t	7.8m×18.40t					
8.0	17.95	17.85	8.4m×16.60t				
9.0	15.25	15.20	15.10	15.00	9.6m×13.00t		
10.0	13.25	13.15	13.10	13.00	12.95	10.1m×12.65t	10.7m×10.70t
12.0	10.40	10.30	10.20	10.10	10.10	10.00	9.90
14.0	8.45	8.35	8.25	8.15	8.15	8.05	7.95
16.0	7.05	6.95	6.85	6.75	6.75	6.60	6.50
18.0	6.00	5.90	5.80	5.65	5.60	5.55	5.45
20.0	5.15	5.05	4.95	4.85	4.80	4.70	4.55
22.0	4.45	4.35	4.25	4.15	4.10	4.00	3.90
24.0	3.95	3.85	3.75	3.60	3.55	3.45	3.35
26.0	3.50	3.40	3.25	3.15	3.10	3.00	2.85
28.0	3.10	2.95	2.85	2.75	2.70	2.55	2.40
30.0		2.65	2.55	2.40	2.30	2.15	2.05
32.0		30.6m×2.55t	2.25	2.10	1.95	1.85	1.75
34.0			33.2m×2.05t	1.80	1.70	1.60	1.45
36.0				35.8m×1.60t	1.45	1.35	1.20

- Notes:
1. The rated loads are determined according to BS rating(British Standard;1986) on the condition that the machine is stationed on firm, level ground.
 2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks, from figures shown above.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 4. The counterweight is 18.7 ton.
 5. Be sure to fully extend the side frames before operating the machine.
 6. Rated line pull is 6 500 kgf when 22mm dia. wire rope is used.
 7. Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).



Unit : ton

Rated Loads for Jib Boom (BS Rating) (1)

Main Boom Length (m)	22							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
8.1	6.50							
9.0	6.50	9.9m×6.50t	9.3m×5.00t					
10.0	6.50	6.50	5.00	11.9m×5.00t	10.4m×4.10t		11.5m×3.30t	
12.0	6.50	6.50	5.00	5.00	4.10	13.9m×4.10t	3.30	
14.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	15.9m×3.30t
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	3.30
18.0	6.15	6.25	5.00	5.00	4.10	4.00	3.30	3.25
20.0	5.30	5.40	5.00	4.85	4.10	3.75	3.30	3.05
22.0	4.65	4.70	4.70	4.55	4.10	3.55	3.30	2.80
24.0	4.05	4.10	4.15	4.25	4.10	3.30	3.30	2.65
26.0	3.40	3.45	3.70	3.75	3.75	3.15	3.30	2.50
28.0	26.1m×3.40t	26.5m×3.30t	3.10	3.35	3.35	3.00	3.05	2.40
30.0			28.9m×2.95t	29.5m×2.80t	2.85	2.90	2.80	2.25
32.0					31.8m×2.50t	2.60	2.60	2.20
34.0						32.5m×2.45t	2.35	2.15
36.0							34.6m×2.00t	35.5m×2.05t

Unit : ton

Main Boom Length (m)	25							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
8.1	8.8m×6.50t							
9.0	6.50		9.9m×5.00t					
10.0	6.50	10.5m×6.50t	5.00		11.0m×4.10t			
12.0	6.50	6.50	5.00	12.5m×5.00t	4.10		12.1m×3.30t	
14.0	6.50	6.50	5.00	5.00	4.10	14.5m×4.10t	3.30	
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	16.5m×3.30t
18.0	6.05	6.15	5.00	5.00	4.05	4.10	3.30	3.30
20.0	5.25	5.35	5.00	5.00	4.05	3.85	3.30	3.15
22.0	4.50	4.65	4.65	4.75	4.05	3.65	3.30	2.90
24.0	3.95	4.05	4.05	4.20	3.85	3.40	3.30	2.75
26.0	3.50	3.55	3.60	3.65	3.65	3.25	3.30	2.60
28.0	2.95	3.00	3.20	3.25	3.25	3.15	3.10	2.50
30.0	28.7m×2.70t	29.1m×2.65t	2.70	2.90	2.90	3.00	2.95	2.40
32.0			31.5m×2.35t	2.30	2.50	2.70	2.65	2.30
34.0				32.1m×2.30t	2.10	2.20	2.40	2.20
36.0					34.7m×1.80t	35.1m×1.85t	1.95	2.05
38.0							37.1m×1.85t	1.80

- Notes:
- The rated loads are determined according to BS rating(British Standard;1986) on the condition that the machine is stationed on firm, level ground.
 - To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 - Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - The offset angles shown are of jib boom offset angle against the main boom, under load.
 - The counterweight is 18.7 ton.
 - Be sure to fully extend the side frames before operating the machine.
 - Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

Rated Loads for Jib Boom (BS Rating) (2)

Unit : ton

Main Boom Length (m)	28							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
9.4	6.50							
10.0	6.50	11.1m×6.50t	10.5m×5.00t		11.6m×4.10t			
12.0	6.50	6.50	5.00	13.2m×5.00t	4.10		12.7m×3.30t	
14.0	6.50	6.50	5.00	5.00	4.10	15.2m×4.10t	3.30	
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	17.2m×3.30t
18.0	5.95	6.10	5.00	5.00	4.10	4.10	3.30	3.30
20.0	5.05	5.20	5.00	5.00	4.10	4.00	3.30	3.15
22.0	4.40	4.50	4.50	4.65	4.10	3.70	3.30	3.00
24.0	3.85	3.95	3.95	4.05	4.00	3.55	3.30	2.85
26.0	3.40	3.45	3.45	3.60	3.55	3.35	3.30	2.70
28.0	2.95	3.00	3.05	3.15	3.15	3.15	3.20	2.55
30.0	2.50	2.50	2.70	2.80	2.75	2.90	2.85	2.45
32.0	31.3m×2.20t	31.7m×2.20t	2.25	2.30	2.45	2.60	2.50	2.35
34.0			1.95	2.00	2.10	2.30	2.25	2.20
36.0			34.1m×1.90t	34.7m×1.90t	1.75	2.00	1.95	2.10
38.0					36.9m×1.70t	37.7m×1.65t	1.75	1.90
40.0							39.7m×1.45t	1.55
42.0								40.7m×1.40t

Unit : ton

Main Boom Length (m)	31							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
10.0	6.50	11.8m×6.50t	11.1m×5.00t					
12.0	6.50	6.50	5.00	13.8m×5.00t	12.2m×4.10t		13.4m×3.30t	
14.0	6.50	6.50	5.00	5.00	4.10	15.8m×4.10t	3.30	
16.0	6.50	6.50	5.00	5.00	4.10	4.10	3.30	17.8m×3.30t
18.0	5.85	6.05	4.95	5.00	4.10	4.10	3.30	3.30
20.0	5.00	5.15	4.95	5.00	4.10	4.10	3.30	3.25
22.0	4.35	4.45	4.40	4.60	4.10	3.85	3.30	3.05
24.0	3.75	3.85	3.85	4.00	3.90	3.65	3.30	2.90
26.0	3.25	3.40	3.40	3.50	3.45	3.40	3.30	2.75
28.0	2.90	2.95	2.95	3.10	3.05	3.20	3.10	2.65
30.0	2.40	2.45	2.60	2.70	2.65	2.85	2.70	2.55
32.0	2.15	2.15	2.20	2.30	2.35	2.50	2.40	2.45
34.0	33.9m×1.80t	1.85	1.95	2.00	2.10	2.20	2.15	2.30
36.0		34.3m×1.80t	1.70	1.70	1.85	1.95	1.90	2.05
38.0			36.7m×1.55t	37.2m×1.50t	1.60	1.70	1.70	1.80
40.0					39.5m×1.30t	1.30	1.45	1.60
42.0						40.2m×1.25t	41.4m×1.20t	1.30
42.4								1.20

- Notes:
1. The rated loads are determined according to BS rating(British Standard;1986) on the condition that the machine is stationed on firm, level ground.
 2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 4. The offset angles shown are of jib boom offset angle against the main boom, under load.
 5. The counterweight is 18.7 ton.
 6. Be sure to fully extend the side frames before operating the machine.
 7. Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

Rated Loads for Jib Boom (BS Rating) (3)

Unit : ton

Main Boom Length (m)	34							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
10.6	6.50		11.7m×5.00t					
12.0	6.50	12.4m×6.50t	5.00		12.9m×4.10t			
14.0	6.50	6.50	5.00	14.4m×5.00t	4.10		3.30	
16.0	6.45	6.50	5.00	5.00	4.10	16.4m×4.10t	3.30	
18.0	5.80	5.95	5.00	5.00	4.10	4.10	3.30	18.4m×3.30t
20.0	4.90	5.05	5.00	5.00	4.10	4.05	3.30	3.30
22.0	4.25	4.35	4.35	4.50	4.10	3.90	3.30	3.15
24.0	3.65	3.80	3.75	3.95	3.85	3.75	3.30	3.00
26.0	3.20	3.25	3.25	3.45	3.35	3.55	3.30	2.85
28.0	2.80	2.85	2.85	3.00	2.95	3.15	3.00	2.70
30.0	2.45	2.55	2.55	2.65	2.60	2.75	2.65	2.60
32.0	2.00	2.05	2.25	2.35	2.30	2.40	2.35	2.40
34.0	1.70	1.70	1.80	2.05	2.00	2.15	2.10	2.25
36.0	1.40	1.50	1.35	1.75	1.75	1.90	1.85	2.00
38.0	36.5m×1.30t	36.8m×1.30t	1.30	1.45	1.55	1.65	1.60	1.70
40.0			38.5m×1.20t	39.1m×1.20t	1.20	1.40	1.35	1.50
42.0						41.0m×1.20t	41.2m×1.20t	1.30
42.5								1.20

Unit : ton

Main Boom Length (m)	37							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
10.6	11.2m×6.50t							
12.0	6.50	13.0m×6.50t	12.4m×5.00t		13.5m×4.10t			
14.0	6.50	6.50	5.00	15.0m×5.00t	4.10		14.6m×3.30t	
16.0	6.30	6.50	5.00	5.00	4.10	17.0m×4.10t	3.30	
18.0	5.65	5.90	5.00	5.00	4.10	4.10	3.30	19.0m×3.30t
20.0	4.80	4.95	4.90	5.00	4.10	4.10	3.20	3.30
22.0	4.10	4.25	4.20	4.45	4.10	4.00	3.20	3.20
24.0	3.55	3.65	3.60	3.85	3.75	3.75	3.20	3.05
26.0	3.10	3.15	3.15	3.30	3.25	3.45	3.05	2.90
28.0	2.70	2.75	2.75	2.90	2.85	3.00	2.90	2.80
30.0	2.35	2.40	2.45	2.55	2.50	2.65	2.55	2.55
32.0	1.95	2.10	2.10	2.20	2.15	2.35	2.25	2.35
34.0	1.55	1.60	1.75	1.90	1.90	2.05	1.95	2.15
36.0	1.45	1.50	1.50	1.60	1.60	1.75	1.65	1.85
38.0	37.4m×1.20t	37.7m×1.20t	1.30	1.40	1.35	1.45	1.40	1.60
40.0			38.6m×1.20t	39.3m×1.20t	39.5m×1.20t	1.25	1.20	1.40
42.0						40.5m×1.20t		41.5m×1.20t

- Notes:
- The rated loads are determined according to BS rating(British Standard;1986) on the condition that the machine is stationed on firm, level ground.
 - To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 - Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 - The offset angles shown are of jib boom offset angle against the main boom, under load.
 - The counterweight is 18.7 ton.
 - Be sure to fully extend the side frames before operating the machine.
 - Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

Rated Loads for Jib Boom (BS Rating) (4)

Unit : ton

Main Boom Length (m)	40							
Jib Boom Length (m)	6		9		12		15	
Offset Angle (°)	10	30	10	30	10	30	10	30
Working Radius (m)	10	30	10	30	10	30	10	30
11.9	6.50							
12.0	6.50	13.6m×6.50t	13.0m×5.00t					
14.0	6.50	6.50	5.00	15.6m×5.00t	14.1m×4.10t		15.2m×3.30t	
16.0	6.50	6.50	5.00	5.00	4.10	17.7m×4.10t	3.30	
18.0	5.55	5.80	5.00	4.95	4.10	4.10	3.30	19.7m×3.30t
20.0	4.70	4.90	4.80	4.95	4.10	4.10	3.30	3.30
22.0	4.00	4.20	4.10	4.35	4.10	4.10	3.30	3.30
24.0	3.45	3.60	3.55	3.75	3.60	3.90	3.30	3.10
26.0	3.00	3.10	3.05	3.25	3.15	3.40	3.20	2.95
28.0	2.60	2.70	2.65	2.80	2.75	2.95	2.80	2.80
30.0	2.20	2.35	2.30	2.45	2.40	2.60	2.45	2.60
32.0	1.90	1.95	2.00	2.15	2.05	2.25	2.15	2.35
34.0	1.60	1.70	1.70	1.80	1.75	1.95	1.80	2.05
36.0	1.35	1.40	1.45	1.55	1.50	1.65	1.55	1.80
38.0	37.2m×1.20t	37.5m×1.20t	1.20	1.25	1.25	1.35	1.30	1.45
40.0				38.5m×1.20t	38.5m×1.20t	39.5m×1.20t	39.0m×1.20t	1.25
40.5								1.20

- Notes:
1. The rated loads are determined according to BS rating(British Standard;1986) on the condition that the machine is stationed on firm, level ground.
 2. To calculate the maximum load that can actually be lifted, deduct weight of all lifting accessories, such as main and aux. hooks.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of a lifted load.
 4. The offset angles shown are of jib boom offset angle against the main boom, under load.
 5. The counterweight is 18.7 ton.
 6. Be sure to fully extend the side frames before operating the machine.
 7. Figures described as ○○m×○○t in the tables indicate working radius (m) × rated load (ton).

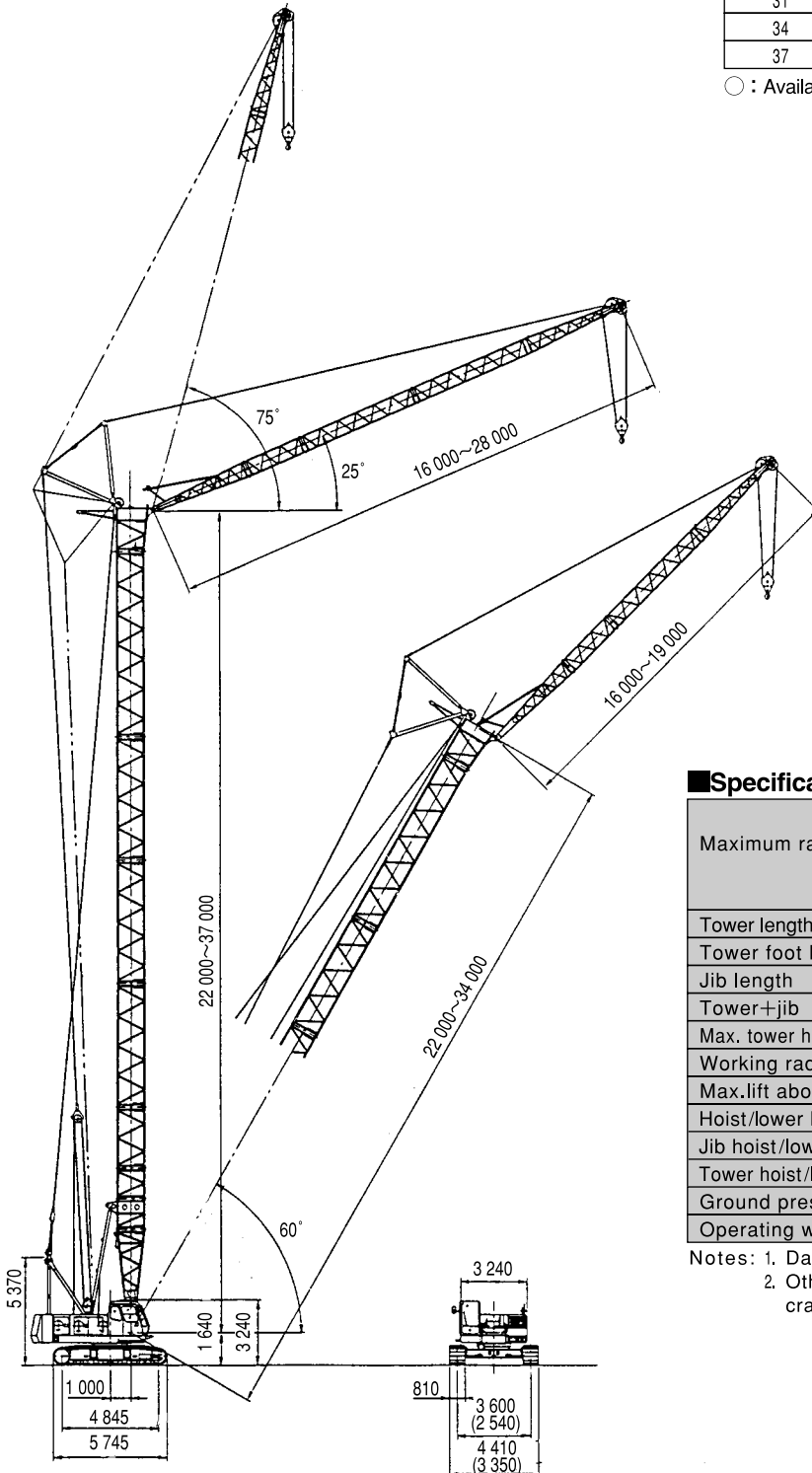
■ Dimensions

Unit : mm

■ Tower Jib Construction

Tower Length (m)	16				19				22				25				28			
	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60	90	80	70	60
22	○	○	○	○	○	○	○	○	×	×	×	×	×	×	×	×	×	×	×	×
25	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×	×	×	×	×
28	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	×	×	×	×
31	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	×	○	○	○	×
34	○	○	○	○	○	○	○	○	○	○	○	×	○	○	○	×	○	○	○	×
37	○	○	○	×	○	○	○	×	○	○	○	×	○	○	○	×	○	○	○	×

○ : Available × : Not Available



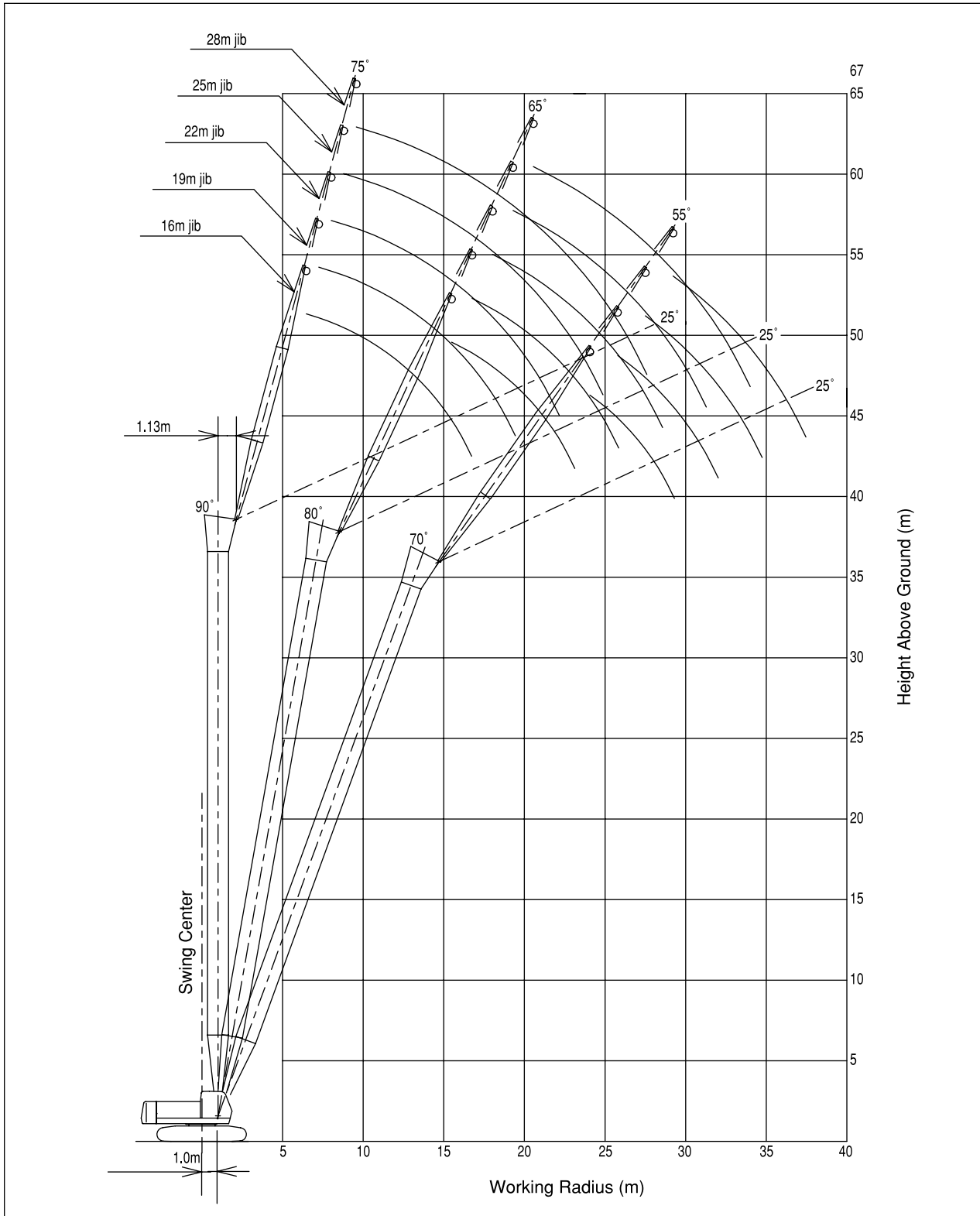
■ Specifications

Maximum rated load metric ton × m	11.4 × 10.3 (22m tower + 16m jib)
	10.3 × 11.1 (22m tower + 19m jib)
	9.4 × 11.0 (28m tower + 22m jib)
	6.15 × 13.0 (37m tower + 28m jib)
Tower length	m 22~37
Tower foot height	m 1.59
Jib length	m 16~28
Tower + jib	m 37 + 25
Max. tower height above ground	m 41.6
Working radius	m 8.0~38.1
Max. lift above ground	m 63
Hoist/lower Line speeds	m/min 100/65/32
Jib hoist/lower Line speeds	m/min 32
Tower hoist/lower Line speeds	m/min 53
Ground pressure	kPa (kg/cm ²) 70.4 (0.72)
Operating weight	ton 60.0 (37m tower + 28m jib)

Notes: 1. Data is expressed in SI units, along with conventional units in ().
2. Other specifications, not shown, are similar to those for the crane.

Figures in () indicate crawlers retracted.

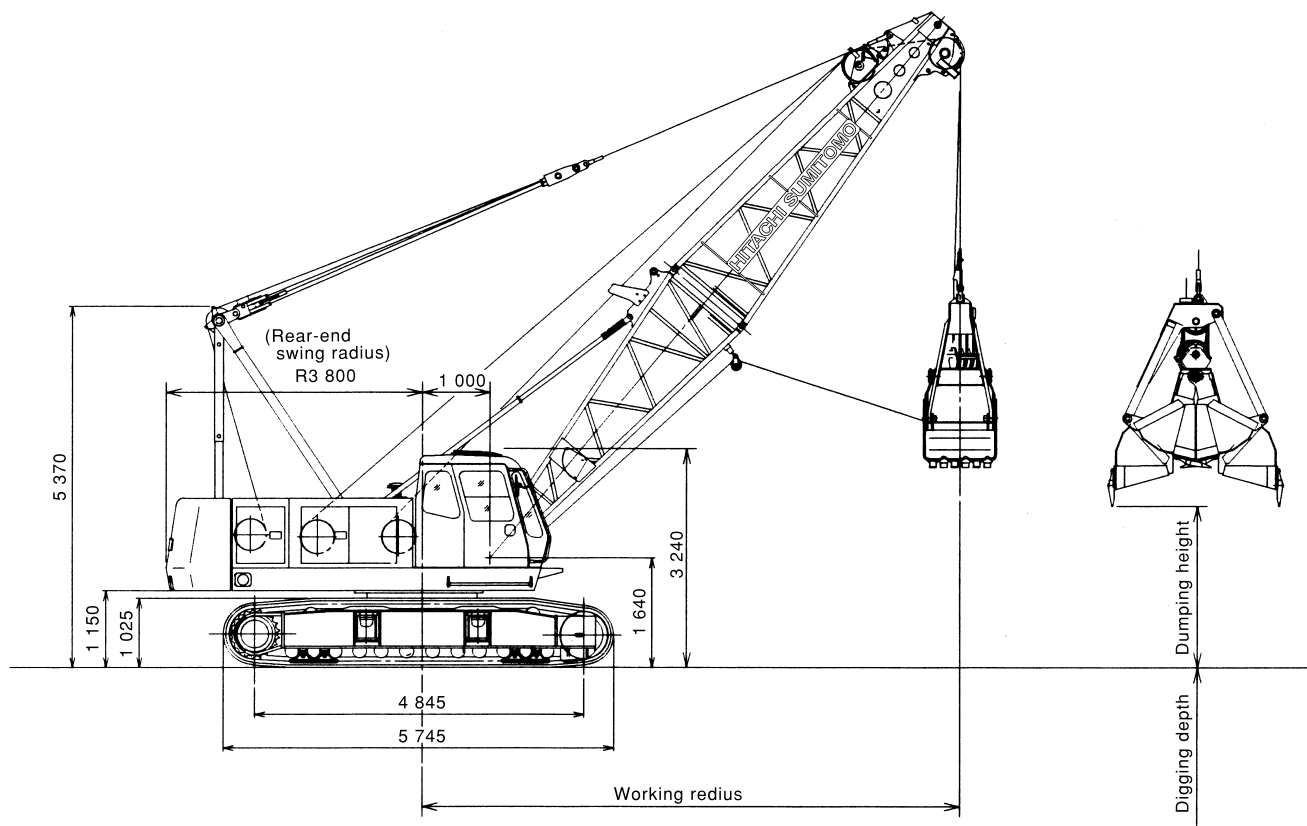
■ Working Ranges (Tower length: 37m)



Note: Working ranges shown are under unloaded condition.

■Dimensions

Unit : mm



■Specifications

Bucket capacity	m ³	0.8/1.0/1.2	
Allowable clamshell gross weight	ton	6.0	
Max. bare line pull (1st drum layer)	ton	15.6	
Boom length	m	10 - 19	
Max. digging depth	m	36	
Suspend line speeds	m/min	* 74/37	Rope 22mm dia.
Open/close line speeds	m/min	* 74/37	Rope 22mm dia.
Boom hoist/lower line speeds	m/min	* 60	Rope 16mm dia.
Travel speeds	km/h	* 2.0/1.6	
Ground pressure	kPa (kgf/cm ²)	69.6(0.71)	
Operating weight	ton	54.6 (10m boom + 1.2m ³ bucket)	

■Clamshell Bucket

Capacity (m ³)	Weight (ton)	Use
0.8	2.00	Excavation
1.0	2.45	Excavation
1.2	3.10	Excavation
1.2	2.40	Excavation(Light service)

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

■Working Ranges

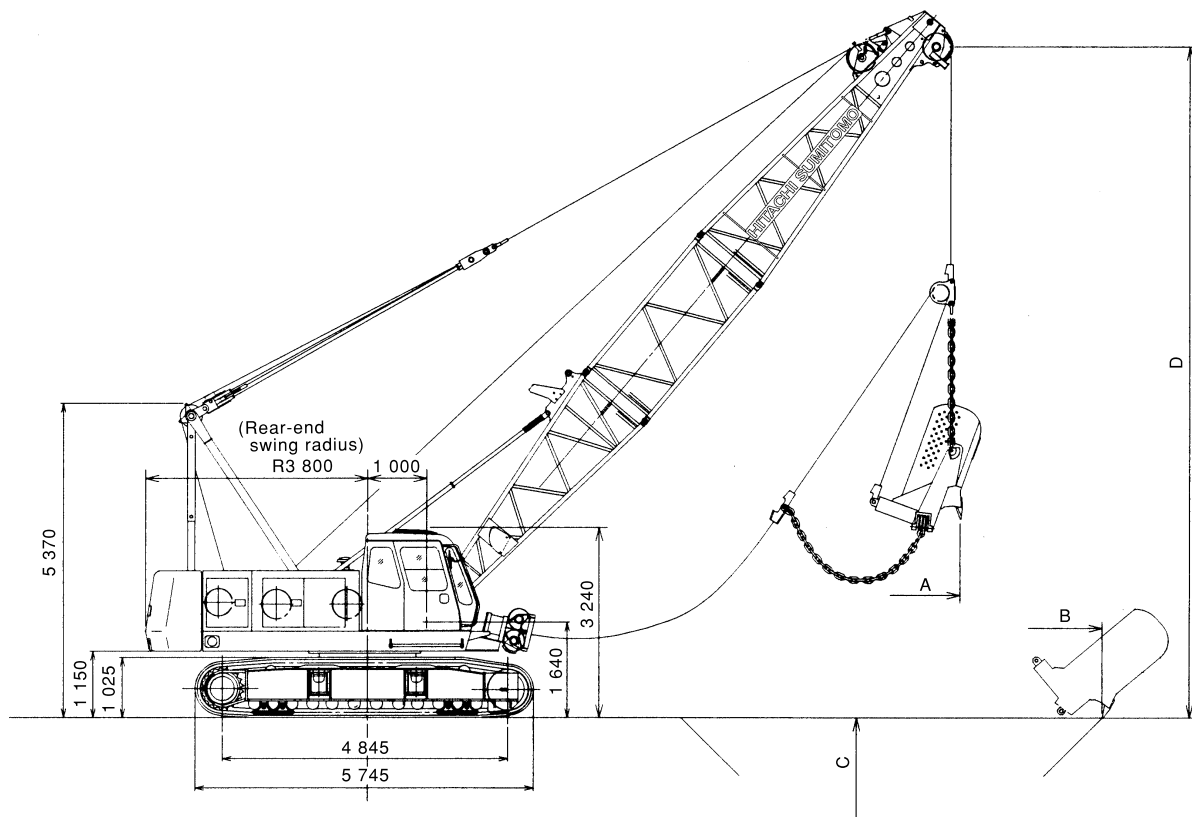
Boom length	m	10				13				16				19			
Boom angle	degree	35	45	55	65	35	45	55	65	35	45	55	65	35	45	55	65
Working radius	m	9.4	8.3	7.0	5.6	11.8	10.4	8.7	6.8	14.3	12.6	10.5	8.1	16.8	14.7	12.2	9.4
Rated load	ton	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Bucket dumping height																	
0.8m ³ bucket	m	2.0	3.3	4.5	5.4	3.7	5.5	7.0	8.1	5.4	7.6	9.4	10.8	7.1	9.7	11.9	13.6
1.0m ³ bucket	m	1.8	3.1	4.3	5.2	3.5	5.3	6.8	7.9	5.2	7.4	9.2	10.6	6.9	9.5	11.7	13.4
1.2m ³ bucket	m	1.6	2.9	4.1	5.0	3.3	5.1	6.6	7.7	5.0	7.2	9.0	10.4	6.7	9.3	11.5	13.2

- 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 a manner that its rated load does not exceed the rated load shown above, according to kinds of the loads handled.

$$\text{Rated load} = \text{Bucket capacity (m}^3\text{)} \times \text{Specific gravity of load (ton/m}^3\text{)} + \text{Bucket weight (ton)}$$
 Be careful that brake will be overheated if the bucket is too heavy even within the rated loads.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of lifted load.
 4. The bucket weight is 3.1 ton max.
 5. The counterweight is 18.7 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 10m.

■Dimensions

Unit : mm



■Specifications

Bucket capacity	m ³	1.2/1.7/2.5	
Max. bare line pull(1st drum layer)	ton	15.6	
Boom length	m	13-22	
Suspend line speeds	m/min	* 74/37	Rope 22mm dia.(Opt. 24mm)
Drag line speeds	m/min	* 74/37	Rope 22mm dia.(Opt. 24mm)
Boom hoist/lower line speed	m/min	* 60	Rope 16mm dia.
Travel speeds	km/h	* 2.0/1.6	
swing speeds	min ⁻¹ (rpm)	* 4.0(4.0)	
Ground pressure	kPa (kgf/cm ²)	64.8(0.66)	
Operating weight	ton	54.1(13m boom + 2.5m ³ bucket)	

■Dragline Bucket

Capacity m ³	Weight ton	Use
1.2	1.60	Heavy duty
1.7	1.68	Medium service
2.5	2.14	Light service

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

■Working Ranges

Boom length	m	13			16			19			22		
Boom angle	Degree	30	40	50	30	40	50	30	40	50	30	40	50
A Working radius	m	12.8	11.5	9.9	15.4	13.8	11.9	18.0	16.1	13.8	20.6	18.4	15.7
Rated load	ton	8.72	9.66	10.82	7.31	8.27	9.41	5.50	6.74	8.21	4.76	5.64	6.95
B Max. digging reach	m	16.3	15.9	15.0	19.6	19.1	18.0	22.9	22.2	21.0	26.2	25.4	23.9
C Max. digging depth	m	8.4	8.1	7.4	10.9	10.5	9.7	13.3	12.8	11.9	15.8	15.2	14.1
D Boom point height	m	7.8	9.7	11.3	9.3	11.3	13.6	10.8	13.5	15.9	12.3	15.5	18.2

- Notes: 1. The size of the bucket has to be determined according to local conditions.
 2. The rated loads shown are upper limits determined by the following equation. Please select a bucket in such a manner that its rated load does not exceed the rated load shown above, according to kinds of the loads handled.

$$\text{Rated load} = \text{Bucket capacity}(\text{m}^3) \times \text{Specific gravity of load}(\text{ton}/\text{m}^3) + \text{Bucket weight}(\text{ton})$$
 Be careful that brake will be overheated if the bucket is too heavy even within the rated loads.
 3. Working radius is the horizontal distance from the swing center to the center of gravity of lifted load.
 4. Maximum digging reach/depth may vary considerable depending on digging condition and the skill of the operator.
 5. The counterweight is 18.7 ton.
 6. Be sure to fully extend the side frames before operating the machine.

STANDARD EQUIPMENT

BASIC MACHINE

Undercarriage

- Bulldozer shoe type undercarriage (with 810mm shoes)
- Side frame extend cylinder (1pc)

Superstructure

- Front lights (2pcs)
- Rearview mirrors (left and right)
- Hoist drum check mirror
- Centralized lubrication system (for gantry and swing circle)
- Electric refuel device
- Under-cover (at superstructure bottom)
- Cab entrance steps
- Fine speed controller
- 18.7ton 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
- Auto-tuning clock radio (AM/FM)
- Cigarette lighter
- Ashtray
- Brake mode selector switch(interlocked)
- Work mode selector(interlocked)
- Electric tilt-type right side stand

Safety Devices

- Swing lock
- Drum pawl lock (main and auxiliary hoist, and boom hoist)
- Swing alarm
- Fail safe brake system
- Pilot control shut-off lever
- Before-work check monitor

FRONT ATTACHMENTS

Crane

- 10m basic boom (lower 5m, upper 5m)
- Boom back stop
- Boom angle indicator
- 55ton hook
- Main hoist rope (22mm dia.×185m)
- Boom hoist rope (16mm dia.×135m)
- Moment limiter
- Overhoist prevention device (main hook, boom hoist,secondary)

Full-Luffing Tower Crane

- 40m tower boom (lower:5m, 1.5m×2, 3m×1, 6m×3, 9m×1, upper:2m)
(Up to 25m tower jib is available to maximum 40m tower.)
- 28m tower jib (lower:5m, 3m×2, 6m×2 / upper:5m)
- Tower back stop
- Tower boom angle indicator
- 15ton hook
- Main hoist rope (22mm dia.×215m)
- Tower jib hoist rope (22mm dia.×145m)
- Tower hoist rope (16mm dia.×150m)
- Moment limiter
- Overhoist prevention device (hook,tower, tower jib and secondary)
- Blocks for assembling 31m or higher tower

Clamshell

- 10m basic boom (lower 5m, upper 5m)
 - Boom back stop
 - Boom angle indicator
 - Open/close and suspend rope disengagement prevention device (for tubular chord boom)
 - Open/close rope (22mm dia.×67m) ※
 - Suspend rope (22mm dia.×60m) ※
 - Hydraulic tagline (10mm dia.×45m rope included)
 - Boom hoist rope (16mm dia.×135m)
- ※open/close and suspend ropes are determined based on 19m boom length and 12m digging depth.

Dragline

- 13m boom (lower 5m, insert 3m, upper 5m and wide-angle sheaves)
- Boom back stop
- Boom angle indicator
- Hoist rope (22mm dia.×50m)
- Drag rope (22mm dia.×60m)
- Boom hoist rope (16mm dia.×135m)
- Fair-lead
- Overhoist prevention device (for boom hoist and secondary hoist)

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