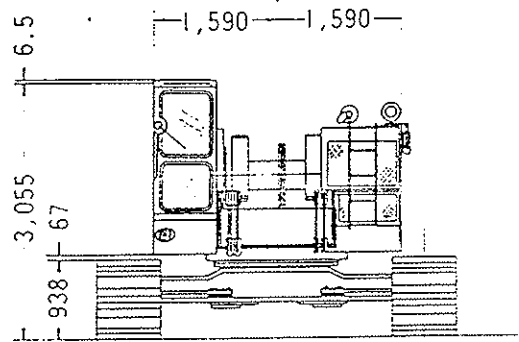
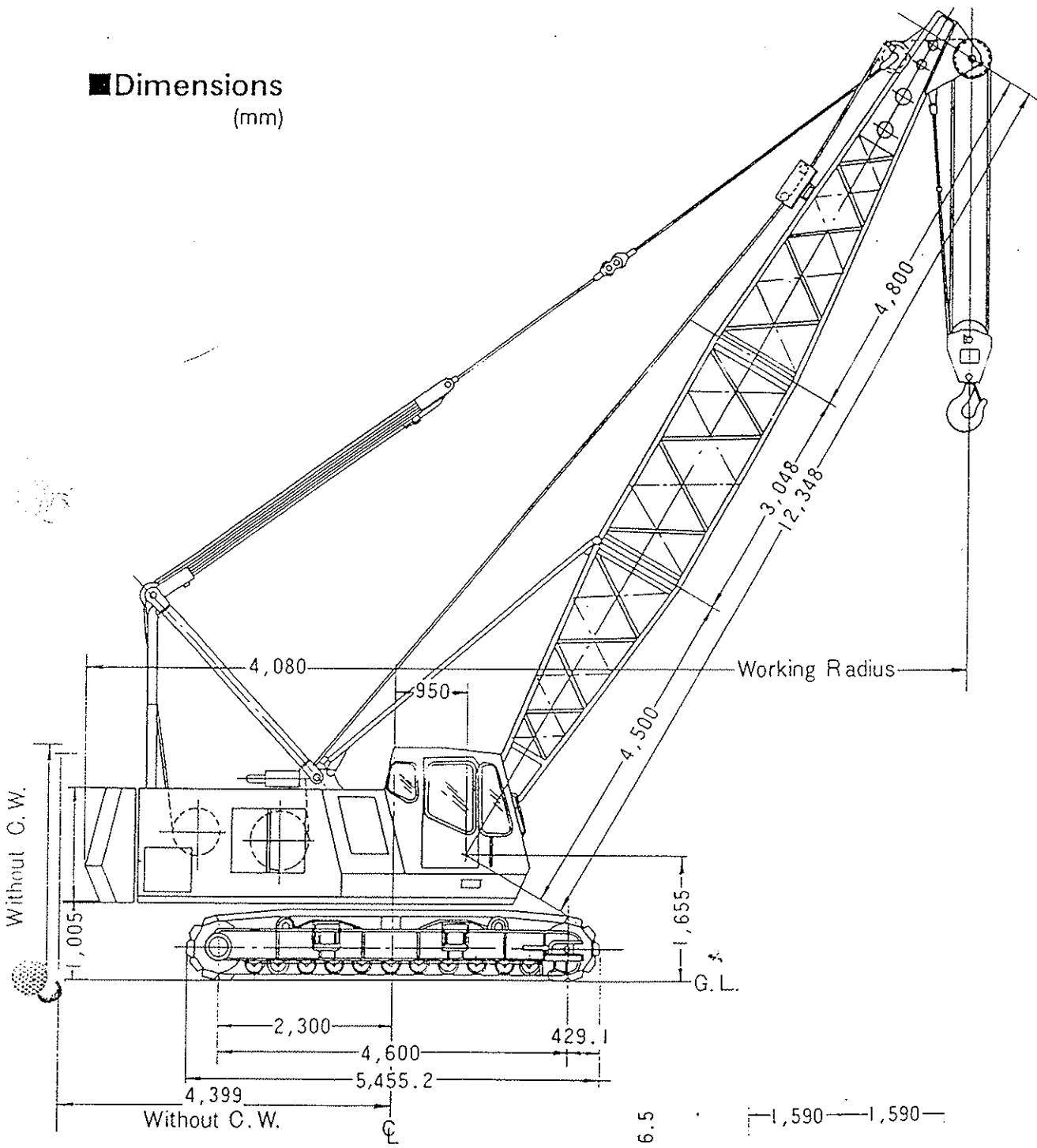




**SUMITOMO • LINK • BELT**  
**Hydraulic**  
**Crawler Cranes**  
**& Excavators**  
**LS-118RH**

**TIONG** TIONG WOON CRANE & TRANSPORT PTE. LTD.  
NO. 15 PANDAN CRESCENT SINGAPORE 128470  
TEL: 261 7888 (12 LINES) FAX: 777 4544

■ Dimensions  
(mm)



- 762-
- 3,538 (Extended)
  - 2,538 (Retracted)
  - 4,300 (Extended)
  - 3,300 (Retracted)

WORKING RANGES

With Crane Boom

MAIN SPECIFICATIONS:

Max. lifting load	50t
Basic boom length	12.35m
Max. boom length	48.95m
Basic jib length	15.25m
Boom plus jib length	42.85m + 12.20m
Boom extensions	3.05m, 6.10m
Working weight	45.3t
Ground pressure	0.60kg/cm <sup>2</sup> (with 762mm shoe)
Counter weight	A - B
Gradeability	30%

ENGINE: Diesel, water-cooled,

Make	Rated output	Max. torque
HINO DK10A	160ps/2,000rpm	64kg-m/1,000rpm

HOIST REEVING:

	Main hoist					Aux. hoist
No. of parts of line	10	8	6	4	2	1
Max. lifting load (t)	50.0	40.0	30.0	20.0	10.0	4.5

WEIGHT OF HOOK BLOCK:

50.0t	600kg
14.0t	200kg
4.5t	120kg

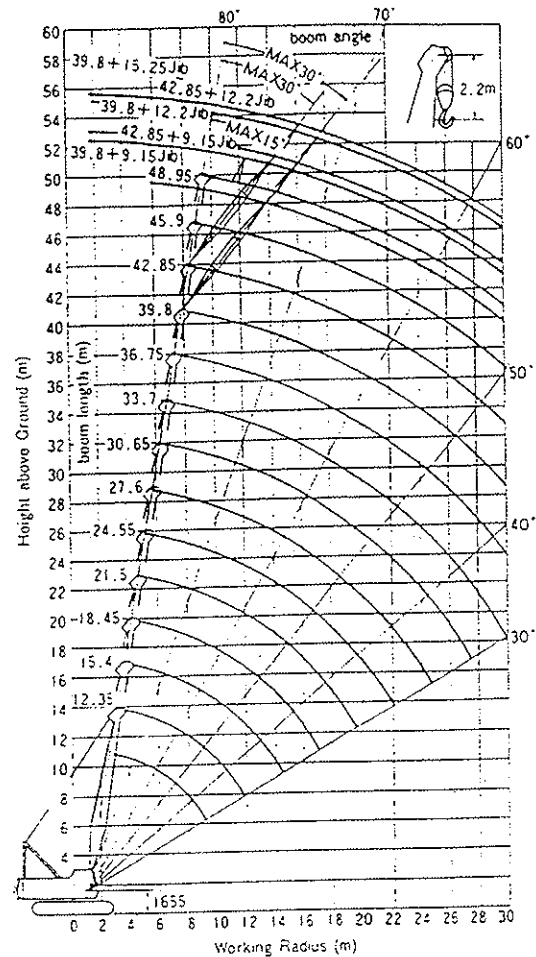
(in metric tons)

MAX. JIB CAPACITIES:

	Jib angle		
Jib length	0°	15°	30°
6.10m	4.5	4.5	3.6
9.15m	4.5	3.6	2.8
12.20m	3.6	2.8	1.8
15.25m	2.7	1.8	

WORKING SPEED:

Main hook hoisting rope speed	
Main hook lowering rope speed	@50.0m/min (high)
Aux. hook hoisting rope speed	@25.0m/min (low)
Aux. hook lowering rope speed	
Boom hoisting rope speed	41.0m/min
Boom lowering rope speed	
Swing speed	3.5rpm
Travel speed	1.2/0.6km/h
Clamshell bucket capacity	1.0m <sup>3</sup> , 0.8m <sup>3</sup>



LS-118RH CRANE CAPACITIES: (With crane boom)

Working radius(m)	Boom length(m)														
	9.30	12.35	15.40	18.45	21.50	24.55	27.60	30.65	33.70	36.75	39.80	42.85	45.90	48.95	52.00
3.6	50.00	50.00													
4.0	43.32	43.27	43.22												
4.5	35.01	35.96	35.91	35.87											
5.0	30.10	30.05	30.00	29.95	29.90										
5.5	25.77	25.72	25.67	25.62	25.58	25.53									
6.0	22.55	22.50	22.45	22.40	22.36	22.31	22.26								
7.0	18.08	18.03	17.98	17.88	17.84	17.79	17.74	17.69	17.50						
8.0	15.05	15.00	14.88	14.81	14.76	14.66	14.62	14.57	14.52	14.22	14.33				
9.0	12.74	12.69	12.64	12.60	12.50	12.45	12.40	12.31	12.25	12.15	12.12	12.07			
10.0		11.06	10.96	10.91	10.87	10.77	10.72	10.67	10.59	10.48	10.43	10.29	10.24	10.14	
12.0		8.61	8.56	8.46	8.41	8.37	8.32	8.22	8.17	8.08	8.03	7.93	7.88	7.79	7.74
14.0		8.27	6.97	6.92	6.87	6.78	6.68	6.63	6.59	6.49	6.44	6.35	6.30	6.20	6.11
16.0		12.5	6.43	5.77	5.72	5.62	5.58	5.48	5.43	5.34	5.29	5.19	5.14	5.05	5.00
18.0			15.0	5.14	4.86	4.76	4.71	4.66	4.57	4.47	4.42	4.33	4.29	4.18	4.13
20.0				17.5	4.18	4.09	4.04	3.99	3.89	3.80	3.75	3.70	3.61	3.51	3.46
22.0					3.61	3.51	3.41	3.37	3.32	3.22	3.12	3.08	2.98	2.93	
24.0					3.37	3.08	2.93	2.93	2.84	2.79	2.69	2.64	2.55	2.45	
26.0					2.84	2.64	2.55	2.50	2.40	2.35	2.25	2.15	2.12		
28.0					2.55	2.31	2.25	2.16	2.12	2.02	1.97	1.87	1.78		
30.0						1.97	1.92	1.83	1.78	1.68	1.59	1.49	1.49		
32.0							1.87	1.68	1.63	1.49	1.39	1.30	1.20		
34.0								1.39	1.39	1.30	1.20	1.05	1.01		

Notes:

- Capacities shown are in metric tons and are based on 75% of minimum tipping loads over the side with machine standing level on firm supporting surface under ideal job conditions.
  - Deductions from the lifting crane capacities must be made for weight of hook block.
  - When operating off the main boom peak sheaves with jib on boom, the deductions in machine lifting capacities must be made according to the following chart
- |                          |     |      |      |       |
|--------------------------|-----|------|------|-------|
| Jib length (m)           | 6.1 | 9.1  | 12.2 | 15.25 |
| Weight to be deduced (t) | 1.0 | 0.85 | 1.0  | 1.1   |
- Jib capacity is equal to the lifting crane capacities unless restricted by the maximum jib capacities shown above.
  - Available boom length to attach the jib is from 24.55m to 42.85m. With boom length 42.85m, the maximum jib length is 12.2m.

# Tower Crane

# LS-118RH

### MAIN SPECIFICATIONS:

Tower crane capacity . . . 10t x 10m (Tower height under 32.4m)  
(Lifting load)  
8t x 12m (Tower height 38.5m)

Tower height . . . . . 20.2m, 26.3m, 32.4m, 38.5m

Tower jib length . . . . . 16m, 19m, 22m, 25m

Stability . . . . . Under 75%

Lifting height . . . . . 55.5m (38.5m Tower + 19m Tower jib)  
58.0m (38.5m Tower + 22m Tower jib)  
55.0m (32.4m Tower + 25m Tower jib)

Working weight . . . . . 51,000kg (38.5m Tower + 19m Tower jib)  
51,200kg (38.5m Tower + 22m Tower jib)

ENGINE: Diesel, water-cooled,

Make	Rated output	Max. torque
HINO	160ps/2,000rpm	64kg-m/1,000rpm
DK10A		

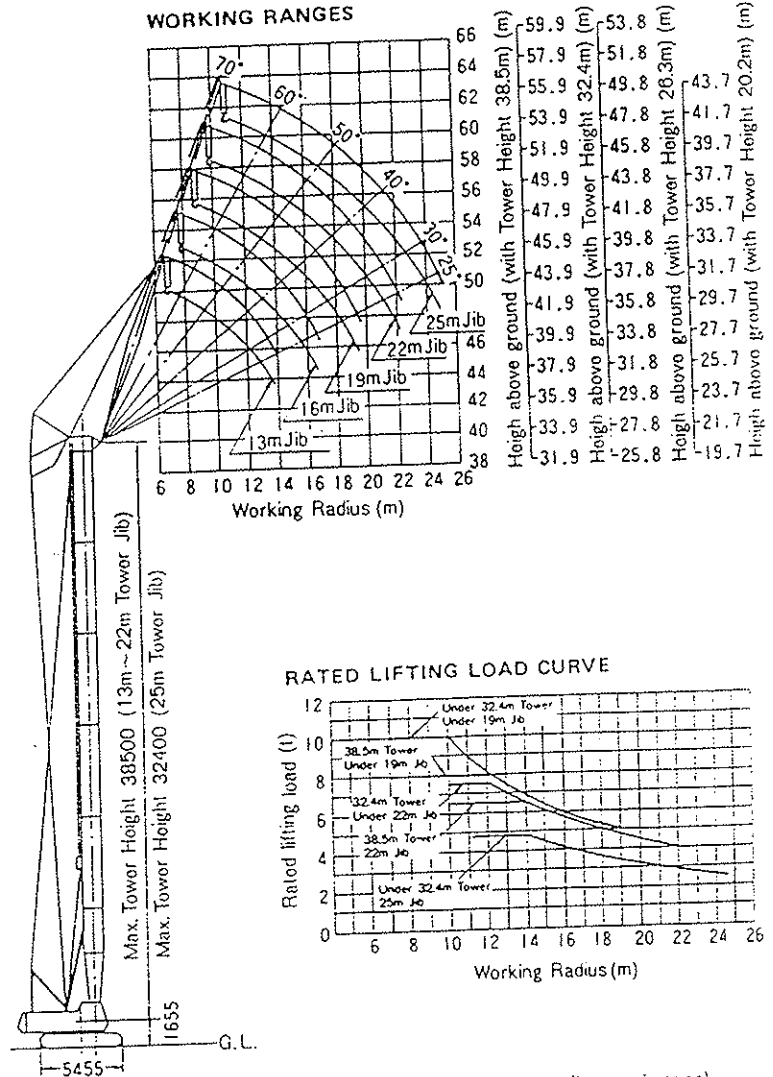
### WORKING SPEED:

Hoisting-lowering rope speed	@50m/min (high) @25m/min (low)
Hook hoisting-lowering speed (2-part line)	25m/min 12.5m/min
Jib hoisting-lowering rope speed	41m/min
Swing speed	3.5rpm
Travel speed	1.2km/h, 0.6km/h

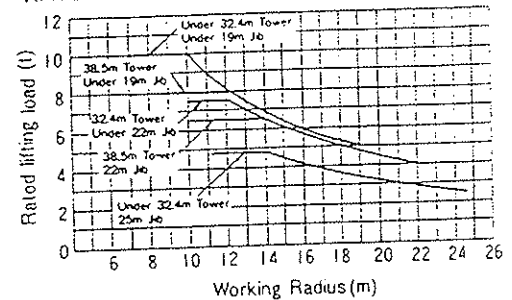
### SAFETY DEVICES:

- Hook over hoist automatic stopping device
- Tower jib over hoist stopping device
- Moment limiting device
- Pressure gauge for clutch
- Tower jib angle indicator
- Safety valve for hydraulic circuit
- Lock pawl for drums

### WORKING RANGES



### RATED LIFTING LOAD CURVE



### LS-118RH TOWER CRANE CAPACITIES:

Working radius (m)	Jib length (m)													(in metric tons)		
	13			16			19			22			25		Tower height (m)	Tower (m)
	Tower height (m)		Angle (0)	Tower height (m)		Angle (0)	Tower height (m)		Angle (0)	Tower height (m)		Angle (0)	Under 32.4			
	Under 32.4	38.5		Under 32.4	38.5		Under 32.4	38.5		Under 32.4	38.5					
7.0	69	10.0	10.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-
8.0	64	10.0	8.0	70	10.0	8.0	70	10.0	8.0	-	-	-	-	-	-	-
9.0	59	10.0	8.0	66	10.0	8.0	66	10.0	8.0	70	7.5	6.5	70	11.0m	11.0m	4.7
10.0	54	10.0	8.0	62	10.0	8.0	62	10.0	8.0	64	7.5	6.5	67	-	-	4.7
12.0	41	8.0	8.0	53	8.0	8.0	53	8.0	8.0	64	7.5	6.5	62	-	-	4.7
14.0	25	7.0	7.0	43	6.9	6.9	43	6.9	6.9	58	6.5	6.5	57	-	-	4.1
16.0	-	-	-	30	6.0	6.0	30	6.0	6.0	52	5.6	5.6	57	-	-	4.1
18.0	-	-	-	25	5.7	5.7	25	5.3	5.3	45	4.9	4.9	51	-	-	3.6
20.0	-	-	-	16.6m	16.6m	16.6m	34	5.0	5.0	45	4.5	4.5	45	-	-	3.2
22.0	-	-	-	-	-	-	25	5.0	5.0	36	4.5	4.5	45	-	-	3.2
24.0	-	-	-	-	-	-	19.3m	19.3m	19.3m	36	4.5	4.5	45	-	-	3.2
26.0	-	-	-	-	-	-	-	-	-	25	4.0	4.0	38	-	-	2.8
28.0	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	2.6
30.0	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	2.5
32.0	-	-	-	-	-	-	-	-	-	-	-	-	24.8m	24.8m	-	2.5

### Notes:

- Capacities shown are in metric tons and are based on 75% of minimum tipping loads - over the side - with machine standing level on firm supporting surface under ideal job conditions.
- Deductions from the lifting crane capacities must be made for weight of hook block (0.25t).
- Capacities shown above are with crawler extended and high must.

# Hydraulic Crane 50 metric tons

## With Tower Boom

### MAIN SPECIFICATIONS:

Max. lifting load	50t
Basic boom length	12.35m
Max. boom length	42.85m
Max. Jib length	15.25m
Boom plus jib length	39.80m + 12.20m
Boom extensions	3.05m, 6.10m
Working weight	44.2t
Ground pressure	0.59kg/cm <sup>2</sup> (with 762m shoe)
Counter weight	A · B · C
Gradeability	30%

ENGINE: Diesel, water-cooled,

Make	Rated output	Max. torque
HINO DK10A	160ps/2,000rpm	64kg·m/1,000rpm

### HOIST REEVING:

No. of parts of line	Main hoist					Aux. hoist
	10	8	6	4	2	1
Max. lifting load (t)	50.0	40.0	30.0	20.0	10.0	4.5

### WEIGHT OF HOOK BLOCK:

50.0t Main hook	600kg
14.0t Main hook	200kg
4.5t Aux. hook	120kg

### MAX. JIB CAPACITIES:

(in metric tons)

Jib length	Jib angle		
	0°	15°	30°
6.10m	4.5	4.5	3.6
9.15m	4.5	3.6	2.8
12.20m	3.6	2.8	1.8
15.25m	2.7	1.8	

### WORKING SPEED:

Main hook hoisting rope speed	@50.0m/min (high) @25.0m/min (low)
Main hook lowering rope speed	
Aux. hook hoisting rope speed	
Aux. hook lowering rope speed	41.0m/min
Boom hoisting rope speed	
Boom lowering rope speed	
Swing speed	3.5rpm
Travel speed	1.2/0.6km/h

Clamshell bucket capacity . . . 1.0m<sup>3</sup>, 0.8m<sup>3</sup>

### LS-118 RH CRANE CAPACITIES: (With tower boom)

(in metric tons)

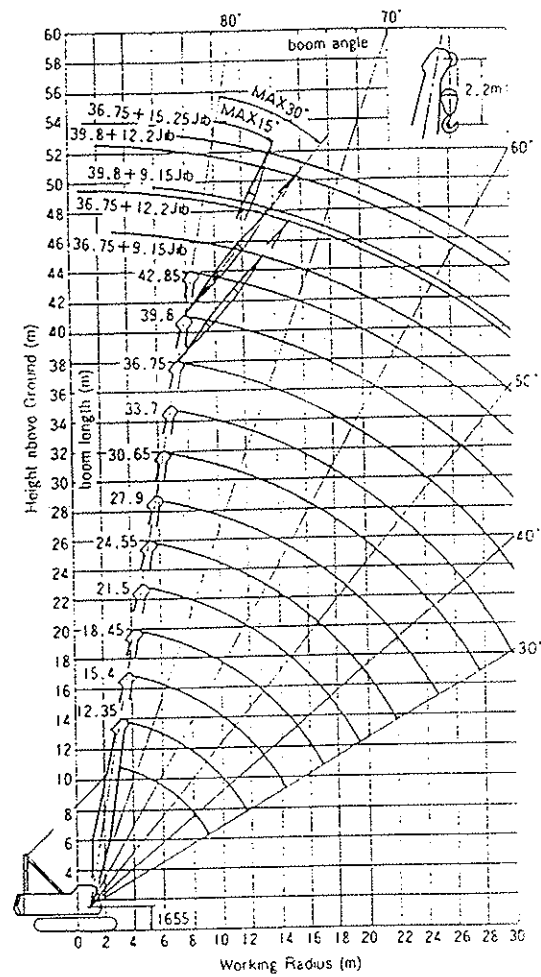
Working radius(m)	Boom length (m)													
	9.30	12.35	15.40	18.45	21.50	24.55	27.60	30.65	33.70	36.75	39.80	42.85		
3.4	50.00													
4.0	39.57	39.47	39.37											
4.5	32.16	32.07	31.97	31.87										
5.0	27.02	26.92	26.83	26.73	26.63									
5.5	23.27	23.17	23.08	22.98	22.88	22.79								
6.0	20.43	20.34	20.24	20.14	20.05	19.95	19.86							
7.0	17.35	16.25	16.15	16.06	15.96	15.86	15.77	15.67	15.58					
8.0	13.56	13.46	13.37	13.27	13.17	13.08	12.98	12.88	12.79	12.64	12.50			
9.0	11.54	11.44	11.35	11.25	11.15	11.06	10.96	10.87	10.77	10.62	10.48	10.34		
10.0		9.95	9.86	9.76	9.66	9.57	9.47	9.37	9.28	9.13	8.99	8.85		
12.0		7.79	7.69	7.60	7.50	7.40	7.31	7.21	7.12	6.97	6.83	6.68		
14.0			6.20	6.11	6.01	5.91	5.82	5.72	5.62	5.48	5.34	5.19		
16.0				5.05	4.95	4.86	4.76	4.66	4.57	4.42	4.28	4.13		
18.0					4.18	4.09	3.99	3.89	3.80	3.65	3.51	3.37		
20.0						3.46	3.37	3.27	3.17	3.03	2.88	2.74		
22.0							2.93	2.84	2.74	2.64	2.50	2.36	2.21	
24.0								2.45	2.36	2.26	2.12	1.97	1.83	
26.0									2.02	1.92	1.78	1.63	1.49	
28.0										1.59	1.44	1.30	1.06	
30.0											1.35	1.20	1.06	0.91

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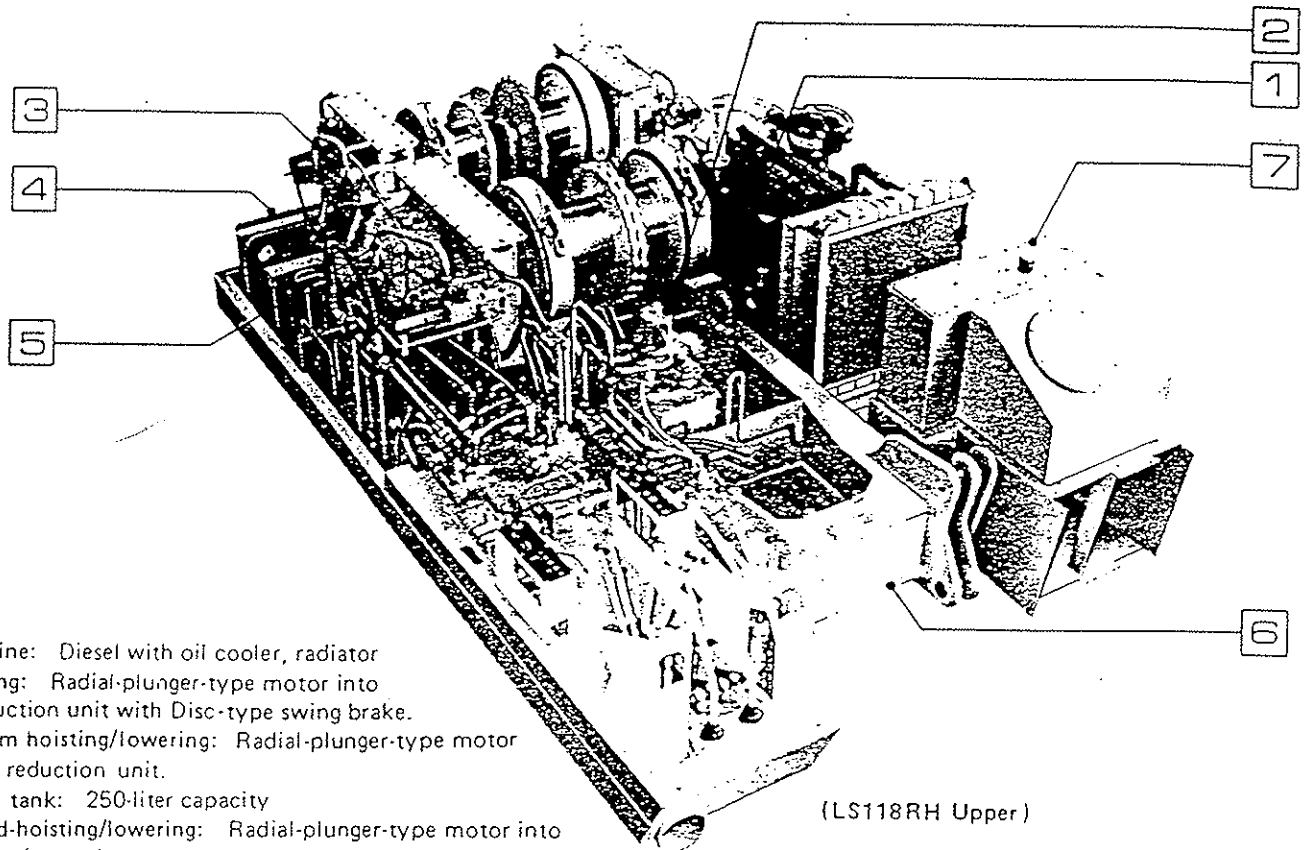
### Notes:

- Available boom length to attach the jib is from 24.55 to 39.8m. With boom length 39.8m, the maximum jib length is 12m.
- Please refer Notes of Crane Boom.

### WORKING RANGES



# all-hydraulic revolving superstructure design.



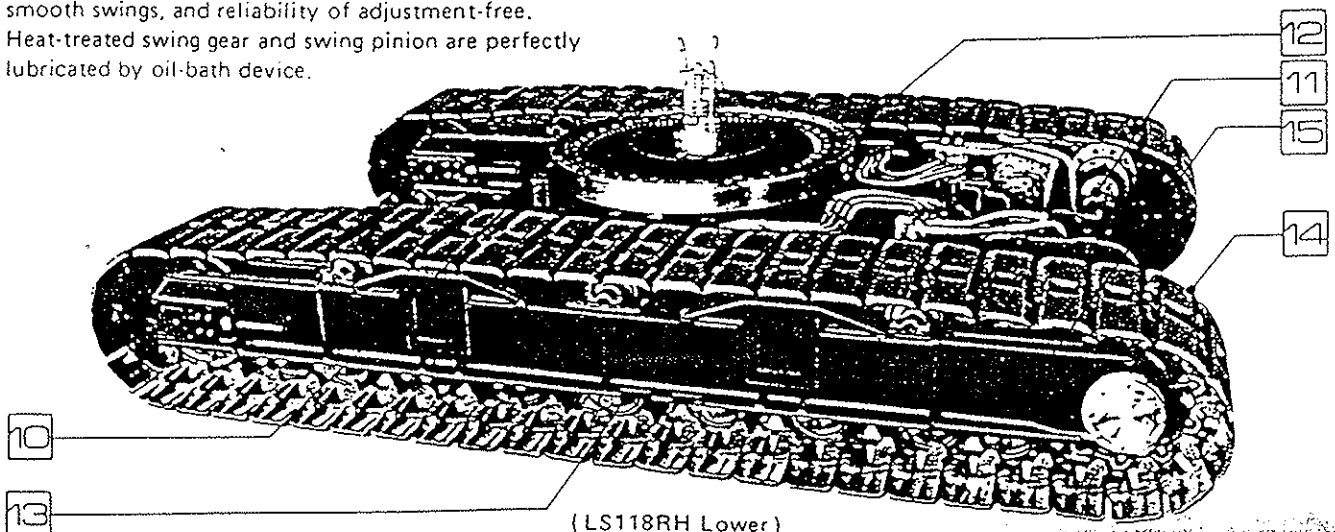
(LS118RH Upper)

- 1. Engine: Diesel with oil cooler, radiator
- 2. Swing: Radial-plunger-type motor into reduction unit with Disc-type swing brake.
- 3. Boom hoisting/lowering: Radial-plunger-type motor into reduction unit.
- 4. Fuel tank: 250-liter capacity
- 5. Load-hoisting/lowering: Radial-plunger-type motor into reduction unit. Use both as main and auxiliary.
- 6. Revolving frame: All welded, stress relieved, precision machined.
- 7. Oil sump tank: 345-liter capacity
- 8. Pump: Triplet gear pump
- 9. Control valves

## maintenance free lower

- Lower frame: All welded stress-relieved, structural steel, precision machined.
- Drive system: Two independent direct drive system by axial-plunger-type motors with spur gear type reducer and parking brake. Each for left and right hand drive, enabling pivot turn or Spin turn, and assures maintenance-free for the drive system, compared with the conventional chain drive system.
- 12. Ball-bearing turntable: Assures high durability, smooth swings, and reliability of adjustment-free. Heat-treated swing gear and swing pinion are perfectly lubricated by oil-bath device.

- 13. Track rollers, carrier rollers, take-up rollers & drive sprockets: Forged or cast steel, heat treated, with Floating-Seal type lubrication system. Provide Lubrication Free Track for long-period operation.
- 14. Track shoes: Self-Cleaning type.
- 15. Side frames: All welded, stress relieved, precision machined side frames can be extended to increase stability for valid operations or retracted for transportability by a power hydraulic cylinder.



(LS118RH Lower)

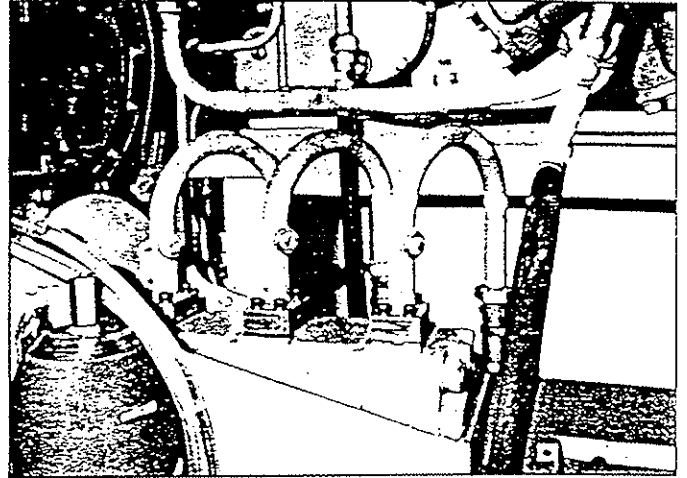
### Hydraulic revolving superstructure design

mitsubishi Link-belt LS118RH all Hydraulic Crawler Crane is designed to tailor the machine to the job... clamshell, tower crane, crane driver, earth auger, lifting crane. All functions are effectively carried out through fully hydraulic controls and a direct-acting hydraulic controlled power transmission system. These mechanisms provide easy and effortless operation.

The triplet gear pump is diesel engine driven. Pump 8 provides power for the travel circuit, load hoisting/lowering motor, boom hoisting/lowering motor, swing motor and crawler expansion/contraction cylinder. Small sized gear pump powers the exclusive S-O-Matic power hydraulic control system. Control valves control the oil flow to each hydraulic actuator.

### Various safety features

Various safety devices and convenient operational mechanisms are extensively incorporated into the LS118RH. Many of them have been made available because the machine is fully hydraulic, and even more so that maximum performance is safely and efficiently maintained. Hydraulic self-locking systems are employed in the travel, boom hoist, and load hoist mechanisms and prevent accidents, such as the machine running away, the boom falling, or the load dropping, whenever the oil flow is shut off or hydraulic piping is broken.

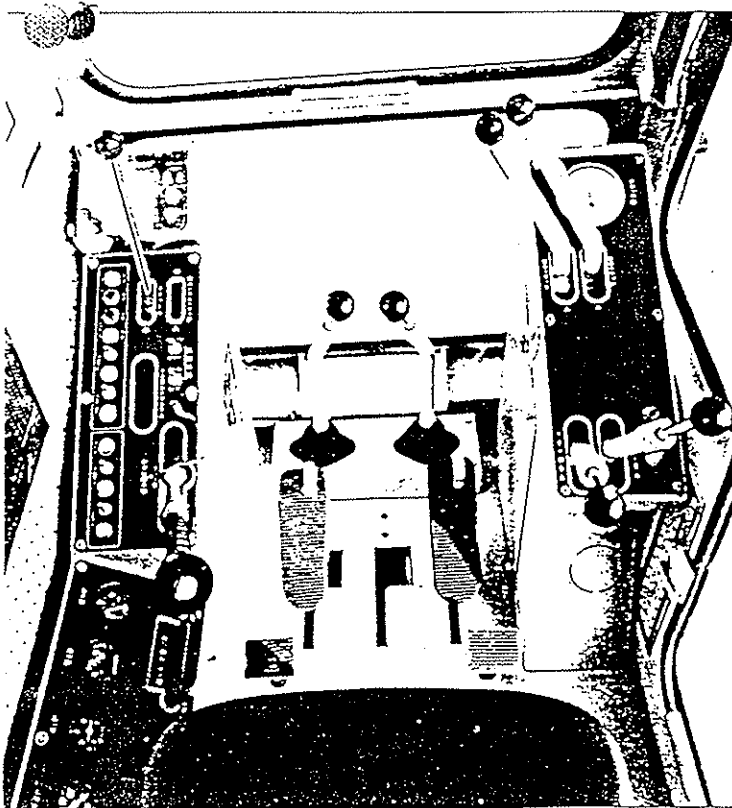


8. Pump



9. Control valves

## Operator's comfort



### Independent operator's cab.

Separated cab from engine room assures freedom from noises and vibrations. The reclining seat with head rest, telescopic control lever and many items make the operator feel at ease, relaxed.

### Simplified lever control

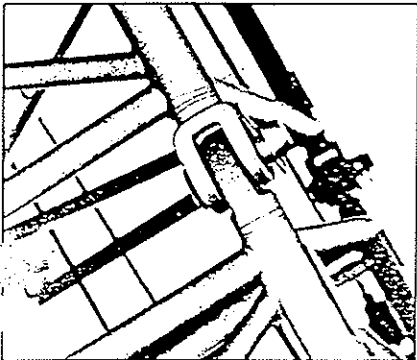
Hydraulic advantages are fully realized by the simplified lever control. For example,

1. One single lever performs two-speed load hoisting, stopping, two speed load lowering. Hydraulic lock is applied with lever in neutral as far as clutch lever in act. There are no bothersome brake pedal operation.
2. One single lever performs rightwards swinging, leftward swinging and swing stopping.
3. Provides exclusive S-O-M valve for clutch control system, enabling bucket operations.

# pin-connected boom and jib

The Machines features a pin-connected boom and jib. Boom chord members are tempered, high-tensile alloy steel.

The boom represents the latest advances in boom design and is precision built with special automatic machine tools and fixtures. Machine-coped lattice ends match the contour of the chords and are carefully welded in place with 360° welds.



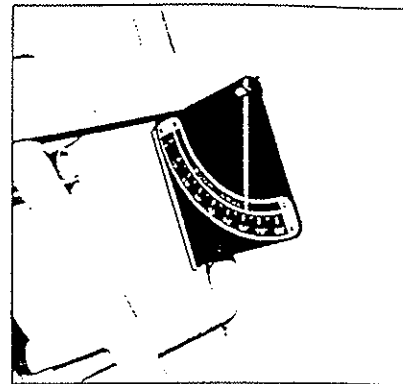
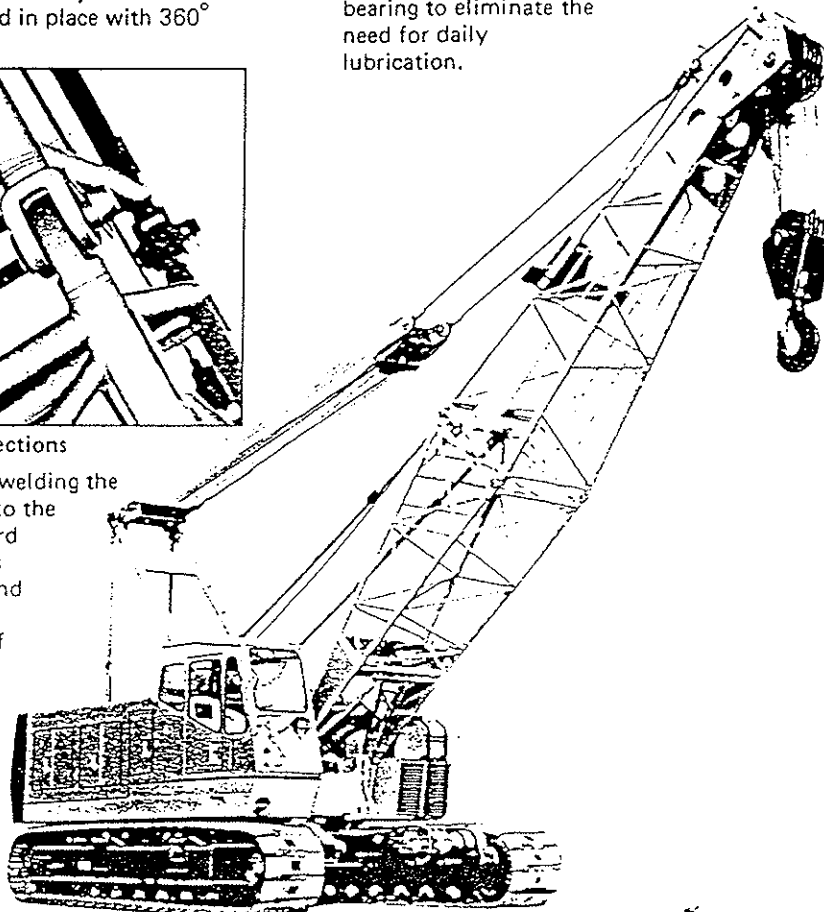
Boom pin-connections

The method of welding the in-line pin lugs to the round tube chord minimizes stress concentration and is an exclusive development of Sumitomo engineering/manufacturing technology.

(LS-118RH)

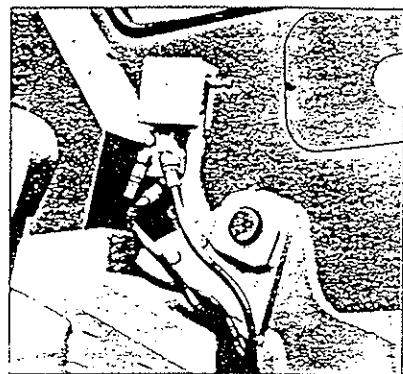
The extended hub on the female connection serves as an anchor for the jib guyline, midpoint pendants, or for pendant lines when assembling the boom. The boom pin-connection tapered end pin is held in place with a latch pin.

All boom peak sheaves are mounted on anti-friction bearing to eliminate the need for daily lubrication.



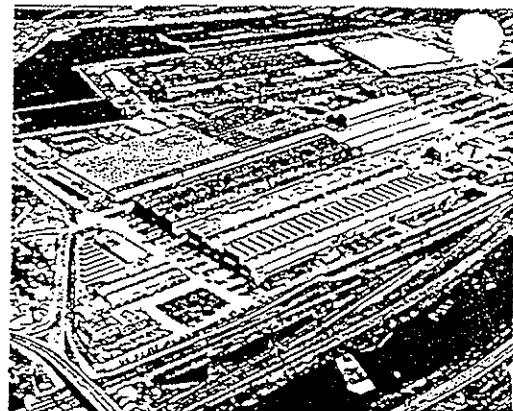
Boom angle indicator

The boom angle indicator serves as a handy reference to the operator. It is mounted on the side of the boom nearest the operator for his ready reference.



The boomhoist limiting device improves close-radius operation. When an attempt is made to raise the boom closer than minimum radius, this mechanism acts to disengage the boom raising clutch and simultaneously engage the boomhoist brake.

SUMITOMO · LINK-BELT Cranes,  
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the modern and advanced plants.



Nagoya Plant, Japan



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Address Inquirer to





## Upper Machinery

**UPPER FRAME:** All-welded, stress relieved, precision machined unit, machinery side housing bolted to upper frame.

### TURNTABLE BEARING WITH INTEGRAL RING GEAR:

Outer bearing race with integral, external swing (ring) gear bolted to lower frame; inner bearing race bolted to upper revolving frame. A machined surface is provided for mounting turntable bearing.

**CONTROL SYSTEM:** "Speed-O-Matic" power hydraulic system that includes a gear pump to provide a constant flow of oil, an accumulator to maintain operating pressure and variable pressure control valves to regulate this pressure to all the clutches, and to release swing and boomhoist brake.

**CLUTCHES:** "Speed-O-Matic" power hydraulic actuated, internal expanding, 2-cylinder, 2-shoe type for all functions. Clutches are interchangeable.

**DRUMS:** Front and rear main, and optional third, operating drums.

**Drum laggings** — 2-piece, removable; bolted to brake drum which is involute splined to drum shaft mounted in line bore on ball bearing.

**Brakes** — External contracting band; mechanically foot pedal operated, with locking latch.

**Automatic brake** — Optional extra; available on both front and rear main drums, as additional to standard.

**INDEPENDENT BOOMHOIST:** Spur gear driven with precision boom raising and lowering through the clutches.

**Drum** — Involute-splined to shaft, with brake drum and drum with locking ratchet wheel cast integral.

**Brake** — External contracting band, spring applied and power hydraulically released.

**Lock** — Mechanically controlled drum locking pawl.

**SWING:** Spur gear driven; 2 sets of clutches transmit swing power smoothly into the swing pinion. Swing pinion meshes with external teeth of swing gear integral with outer race of turntable bearing.

**Brake** — Two-directional, external contracting band, spring applied, power hydraulically released. Brake drum is involute-splined to swing shaft directly.

**Lock** — Mechanically controlled drop pin.

**Speed** — 3-speed; 3.4 rpm (high)/2.2 rpm (mid.)/1.1 rpm (low). Independent swing/travel — Standard.

**GANTRY:** Retractable high gantry.

**OPERATORS CAB:** Full-vision compartment with safety glass panels, separated from upper machinery with an inside door.

**COUNTERWEIGHT:** Removable, mounted on rear of upper revolving frame.

## Lower Machinery

**LOWER FRAME:** All-welded, stress relieved, precision machined, line bored for horizontal traction shaft.

**TRACK ROLLERS:** Heat treated, all rollers mounted on bushes with floating seats requiring no further lubrication.

**TRACK SHOES:** Heat treated, self-cleaning, multiple hinged shoes.

**SHOE WIDTH:** 760 mm — Standard.

915 mm — Optional extra.

**POWER HYDRAULIC STEER/TRAVEL:** For travel or steer, jaw clutches of traction shaft are power hydraulically engaged with jaws on brake drums, automatically releasing spring-applied steer/digging brakes. Brakes are external contracting band type.

**TRAVEL SPEED:** 1.25 km/h (high) — 0.6 km/h (mid.) — 0.4 km/h (low).

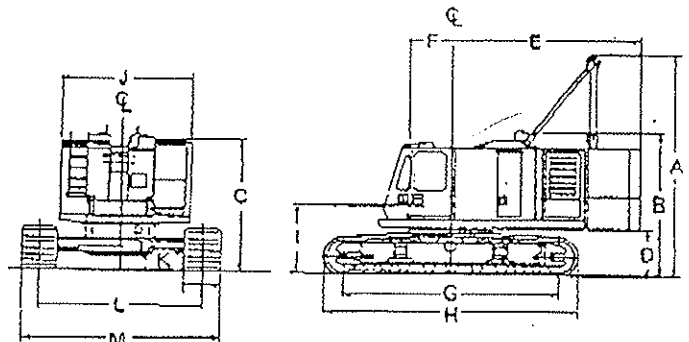
**SIDE FRAMES:** Side frames can be extended or retracted by two power hydraulic cylinders and are removable, leaving track drive chains connected.

## General Dimensions

A: Height of high gantry	raised . . . . .	4.850m
	lowered (for transporting) . . . . .	3.260m
B: Height of low gantry . . . . .		3.260m
C: Height of cab . . . . .		2.986m
D: Counterweight ground clearance	(with counterweight "A" + "B") . . . . .	1.065m
E: Radius of rear end	(with counterweight "A" + "B") . . . . .	4.200m
F: Center of rotation to boom foot pin . . . . .		0.840m
G: Center to center distance of tumbler . . . . .		4.740m
H: Overall length of crawler . . . . .		5.600m
I: Height from ground to boom foot pin . . . . .		1.590m
J: Overall width of cab . . . . .		2.830m
K: Ground clearance . . . . .		0.336m
L: Center to center distance of crawler	(with 760mm shoe) extended . . . . .	3.590m
	retracted . . . . .	2.540m
M: Overall width of crawler	(with 760mm shoe) extended . . . . .	4.360m
	retracted . . . . .	3.300m

### POWER UNITS:

	Standard	Optional extra
Make & Model	Mitsubishi 6D14CT	Cat 3304T
Type	Water-cooled, 4-cycle, turbo-charged, diesel engine	Water-cooled, 4-cycle, turbo-charged, diesel engine
No. of cylinders	6	4
Bore & Stroke	110 x 115 mm	121 x 152 mm
Displacement	6,557 cc	6,990 cc
Rated output	130 PS/ 2,000 r.p.m.	130 PS/ 2,000 r.p.m.
Maximum torque	51 kg-m/ 1,400 r.p.m.	52 kg-m/ 1,000 r.p.m.
Fuel tank	250 liters	250 liters
3-speed transmission	Power shift type	Power shift type
Speed increase pinion	Optional extra for all of speed function	Optional extra for all of speed function



We are constantly improving our products and therefore reserve the right to change designs and specifications.

**SUMITOMO (S.H.I.) CONSTRUCTION MACHINERY CO., LTD.**

International sales Div., 1-21, Kanda, Nishiki-cho, Chiyoda-ku, Tokyo, Japan



**CLAMSHELL BOOMS:** Lattice construction; round tubular main chords, alloy, hi-tens steel, with bracing of round steel tubing.

Boom connections --- In-line pin connections.

Basic boom --- Two-piece, 12.20m basic length, 6.10m base and top section, 1.20m deep and 1.27m wide at connections.

Boom point machinery --- Five head sheaves mounted on anti-friction bearings.

Boom extensions --- Available in 3.05m and 6.10m lengths with pendants.

**MAXIMUM CLAMSHELL RATING:** 5.0 t.

**BOOM HOIST ASSEMBLY:** With power lowering clutch.

14-part boom hoist reeving --- Standard:

Boom hoist line speed (raising) --- @40m/min (high).

@26m/min (mid.).

@13m/min (low).

Boom hoist line speed (lowering) ---

@32m/min (high).

@21m/min (mid.).

@11m/min (low).

**LINE PULL AND LINE SPEED:**

Drums	Root dia.	Type	Line pull	Line speed	Cable dia.
Front (holding)	380mm	Parallel Grooved	11,000kg with 'high' line speed	Hoisting @50m/min (high) @33m/min (mid.) @17m/min (low)	20mm
Rear (closing)	380mm	Parallel Grooved	12,500kg with 'mid.' and 'low' line speeds	Lowering @40m/min (high) @26m/min (mid.) @13m/min (low)	20mm

(Available Line Pull - Not based on wire rope strength)

**GANTRY:** High gantry.

**WORKING WEIGHT AND GROUND PRESSURE:**

Shoe width	Weight	Pressure
760mm	40.0 t	0.53 kg/cm <sup>2</sup>
815 mm	42.1 t	0.46 kg/cm <sup>2</sup>

(With basic boom and counterweight "A".)

**COUNTERWEIGHT:** "A" (6,800 kg).

**SAFETY DEVICE:** Boom hoist limiting device, boom angle indicator, boom back stop.

**TAGLINE WINDER:** Spring-wound, drum-type mounted on boom.

Double stage type (under ground lift, max. 20m)

**GRADEABILITY:** 30% (17°) without c.t.w.t. "A" and boom attachment.

**POWER LOAD LOWERING CLUTCH:**

On front drum --- Standard.

On rear drum --- Optional extra.

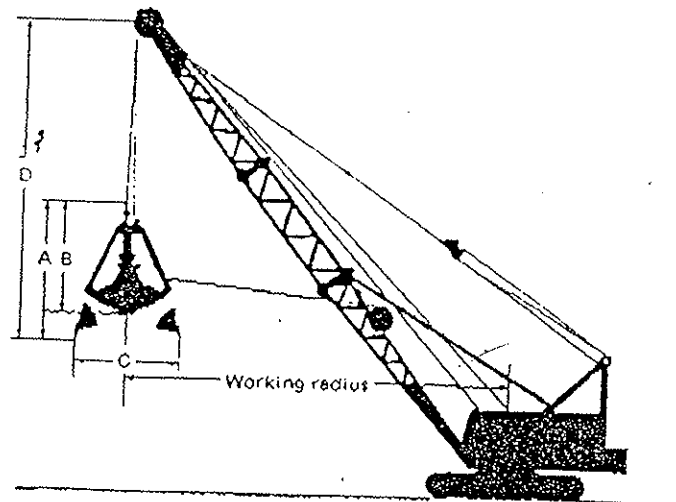
**LS-118RM CLAMSHELL CAPACITIES AND WORKING RANGES:**

(in metric tons)

Boom length (m)								
12.20			15.25			18.30		
R (m)	A (°)	L (t)	R (m)	A (°)	L (t)	R (m)	A (°)	L (t)
6.6	65	5.0						
8.0	67	5.0	7.9	65	5.0			
9.0	52	5.0	9.0	60	5.0	9.2	65	5.0
10.0	45	5.0	10.0	56	5.0	10.0	62	5.0
11.3	35	6.0	12.0	46	5.0	12.0	55	6.0
			13.8	35	4.5	14.0	46	4.3
						16.3	35	3.5

R: Working radius A: Boom angle L: Rated load

- Weight of bucket (2.4 t) plus load should not exceed these capacities.
- Boom length shall not exceed 18.30m.
- Larger size bucket can be approved depending on type of material, type of bucket within limitation of rating chart.
- Apparent specific gravity of lifting material:  
Earth --- 1.7~1.8 t/m<sup>3</sup>  
Gravel --- 1.8~2.0 t/m<sup>3</sup>



(in meters)		
A	Bucket overall height (opened)	3.30
B	Bucket overall height (closed)	2.80
C	Bucket opening width	2.54
D	Bucket clearance	4.30

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# SUMITOMO LS-118RM

## LS-118RM CRANE CAPACITIES: With side frames fully extended

Working radius (m)	Boom length (m)														(in metric tons)
	12.20	16.25	18.30	21.35	24.40	27.45	30.50	33.55	36.60	39.65	42.70	45.75	48.80	51.85	
3.7	60.0														
4.0	43.7	31.5/4.4													
4.5	36.5	36.4													
5.0	30.9	30.8	30.7												
5.5	26.5	26.4	26.3	25.4/8.6											
6.0	23.6	23.5	23.4	23.3	22.1/6.2	18.7/6.8									
7.0	18.6	18.5	18.4	18.3	18.2	18.1	16.8/7.4								
8.0	15.4	15.3	15.2	15.1	15.0	15.0	14.9	14.8	13.1/8.6						
9.0	13.2	13.1	13.0	12.8	12.8	12.7	12.8	12.5	12.5	12.0/9.2	10.8/9.8				
10.0	11.8	11.6	11.4	11.3	11.2	11.1	11.0	10.9	10.8	10.7	10.6	10.0/10.4	9.0/11.0		
12.0	10.0/11.6	8.1	8.0	8.9	8.8	8.7	8.6	8.6	8.4	8.3	8.2	8.1	8.0	7.9	
14.0		7.5	7.5	7.4	7.3	7.2	7.1	7.0	7.0	6.9	6.8	6.8	6.5	6.4	
16.0		7.4/14.3	6.3	6.2	6.1	6.0	5.9	5.8	5.8	5.8	5.7	5.6	5.5	5.4	5.3
18.0			5.7/17.0	5.2	5.1	5.0	5.0	4.8	4.9	4.8	4.8	4.7	4.6	4.5	4.4
20.0				4.7/18.8	4.5	4.4	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.7	
22.0					3.9	3.8	3.7	3.6	3.6	3.5	3.4	3.3	3.2	3.1	
24.0					3.7/22.2	3.3	3.2	3.1	3.1	3.0	2.9	2.8	2.7	2.6	
26.0						2.8/24.9	2.7	2.6	2.6	2.5	2.4	2.3	2.2	2.1	2.0
28.0							2.6/27.5	2.4	2.4	2.3	2.2	2.1	2.0	1.8	1.8
30.0								2.1	2.1	2.0	1.9	1.8	1.7	1.6	1.6
32.0									1.7	1.6	1.6	1.4	1.3	1.2	1.2
34.0										1.6/32.7	1.4	1.2	1.1	1.0	1.0

(CBM00135A)

**Notes:**

- Capacities shown are in metric tons and are based on 75% of minimum tipping loads—over the side—with machine standing level on firm supporting surface under ideal job conditions. Deductions from the lifting crane capacities must be made for weight of hook block.

Kind of hook block	50 t	15 t	5 t
Weight of hook block (t)	0.75	0.3	0.12

- When operating off the main boom peak sheaves with jib on boom, the following deductions in machine lifting capacities must be made:

Jib length (m)	6.10	9.15	12.20	15.25
Weight to be deducted (t)	0.8	0.9	1.0	1.1

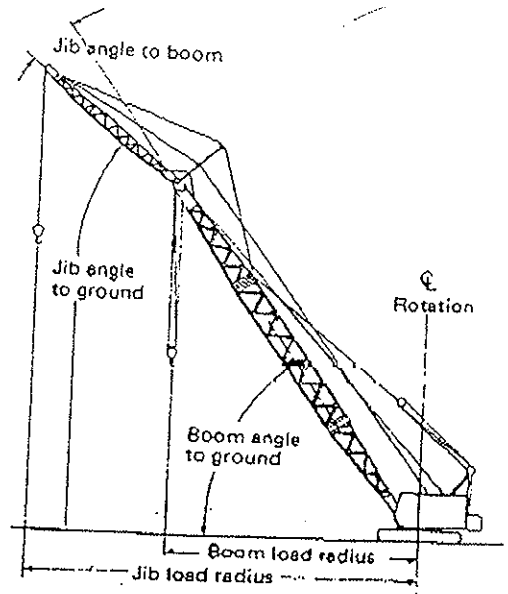
## LS-118RM JIB CAPACITIES:

(in metric tons)

Jib length (m)	Jib angle		
	0°	15°	30°
6.10	5.0	4.5	3.6
9.15	4.5	3.6	2.8
12.20	3.8	2.9	1.8
15.25	2.1	1.5	N.A.

**Notes: Determining machine jib capacities.**

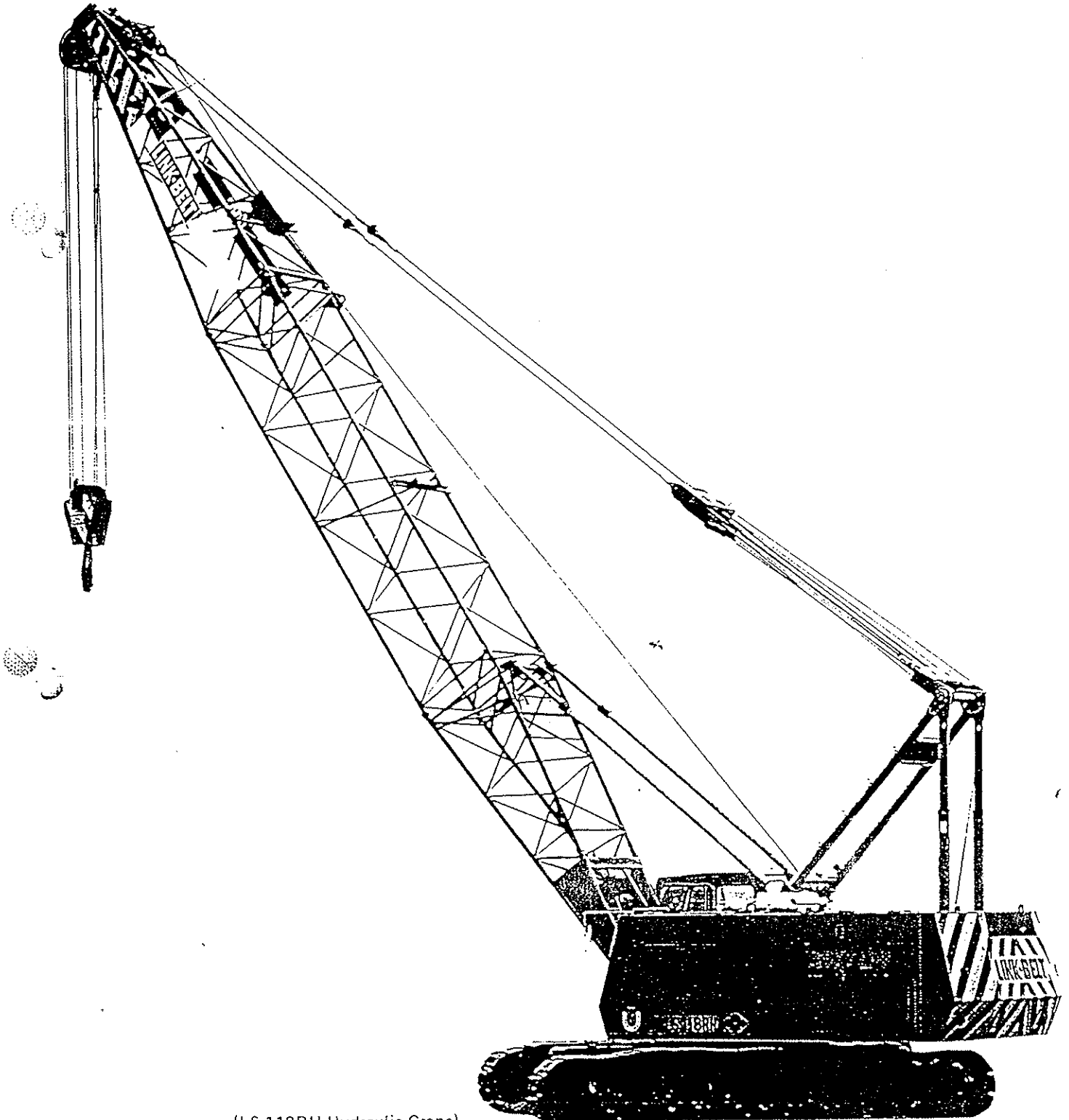
- The jib capacities are equal to the crane lifting capacities of the main boom on which the jib is fixed except that they are restricted by the maximum jib capacities shown above.
- The jib angle to boom must not exceed 30° when lifting.
- Available boom length to fix jib of all length is from 24.40 to 42.70m.



SUMITOMO · LINK-BELT

**LS-118RH**

Hydraulic Crane  
50 metric tons



(LS-118RH Hydraulic Crane)

We are constantly improving our products and therefore reserve the right to change designs and specifications.  
SUMITOMO HEAVY INDUSTRIES, LTD.