CRANE BOOMS: Lattice construction; round tubular main chords, alloy hi-ten steel, with bracing of round steel tubing.

Boom connections	In-line pin connections.
Basic boom	Two-piece, 10.0m basic length; 5.0m base and 5.0m top section; 1.15m deep and 1.15m wide at connections.
Boom point machinery	Four head sheaves mounted on antifriction bearings.
Boom extensions	Available in 3.0m and 6.0m, lengths with pendants. Maximum boom length 49.0m.
Jib	Two-piece; 6.1m basic length with 3.05m long base and top sections, 0.5m deep and 0.61m wide at connections.
Jib extensions	Available in 3.05m jib extensions. Maximum jib length 15.25m.
Boom plus jib length	40.0m + 15.25m

Angle main chords, with bracing of angle steel is available as option.

HOOK BLOCK:

40 t, four sheaves	Standard
15 t, one sheave	Optional extra
5 t, no sheave	Standard for jib

GANTRY: Retractable high gantry.

LINE SPEED:

Drums	Root dia.	Type	Line speed (Hoisting, Lowering)		Cable dia.
			Pump control "OFF" (Ordinary)	Pump control "ON"	
Main hoist (Front)	400mm	Parallel grooved	High 80 m/min Low 40 m/min	High 15 m/min Low 7.5 m/min	20mm
Aux. hoist (Rear)	400mm	Parallel grooved	High 80 m/min Low 40 m/min	High 15 m/min Low 7.5 m/min	20mm
3rd drum (option)	320mm	Parallel grooved	65 m/min	12 m/min	16mm
Boom hoist	280mm	Parallel grooved	64 m/min	12 m/min	14mm

Notes:
1. Above line speed varies with load.
2. Above line speed is based on first layer.

HOIST REEVING:

	Main hoist							
No. of parts of line	8	7	6	5	4	3	2	1
Max. load (t)	40.0	39.2	33.6	28.0	22.4	16.8	11.2	5.6

WORKING WEIGHT AND GROUND PRESSURE:

Shoe width	Weight	Pressure
760mm	39.5t	0.55 kg/cm²

With basic boom and counterweight.

Weight without counterweight and front attachment: approx. 26.5 t.

COUNTERWEIGHT: Total . . . 10.8 t

SAFETY DEVICE: Hook over hoist limiting device, boom over hoist limiting device, boom angle indicator, boom back stop, drum pawl lock for main, aux. and boom hoist drum safety valve in hydraulic circuit, swing alarm, load moment limiter (optional extra).

GRADEABILITY: 40% (22°)
with basic boom and counterweight

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Upper Machinery

All-welded, precision machined unit.

Outer race is bolted to upper frame, inner race with internal ring gear is bolted to lower frame. Swing pinion meshes with internal, integral ring gear. A machined surface is provided for mounting turntable bearing.

Remote controlled hydraulic servo for main hoist, aux. hoist, boom hoist and travel. Mechanical linkage type for swing. Working speed can be precisely controlled by lever stroke.

System reducing pump displacement enables both minute operation and saving energy.

System combining variable displacement axial pumps and fixed displacement gear pumps provides both independent and combined operations of all functions.

Main hoist/aux. hoist/boom hoist – Axial piston motor with counterbalance valve.

Swing motor – Axial piston motor.

Travel motor – Axial piston motors with brake valves. Spring-applied/hydraulic-released multiple disc brakes are fitted.

Hydraulic oil reservoir – 160 liter capacity.

LOAD HOIST ASSEMBLY: Front (main) and rear (aux.) operating drums. Each driven by the bi-directional, axial piston motor through reduction gear powering the rope drum in either direction for hoisting or lowering load. 3rd drum equipped as optional extra.

Clutches – Power hydraulic actuated, internal expanding, self adjusting 2-shoe type.

Brakes – External contracting band type operated by foot pedal with locking latch. For crane mode, automatic brake (spring applied, hydraulically released) is applied when control lever in neutral position. For bucket mode, free-fall is available when control lever in neutral position.

Locks – Electrically operated drum lock pawl.

BOOM HOIST ASSEMBLY: Driven by the bi-directional, axial piston motor through reduction gear powering the rope drum in either direction for hoisting or lowering boom.

Brake – Spring applied, hydraulically released multiple disc type.

Lock – Electrically operated drum lock pawl.

SWING: Driven by axial piston motor, through reduction gear.

Brake – Brake is applied by spring and released by hydraulic cylinder.

Lock – Mechanically operated pin connection frame lock.

Speed – 3.4 rpm.

OPERATOR'S CAB: Full vision compartment with safety glass panels, the completely independent cab is insulated against noise and vibration.

COUNTERWEIGHT: Removable, 1 block mounted on rear of upper frame by bolts.

POWER UNITS:

Make & Model	HINO HO6CT
Type	Water-cooled, 4-cycle diesel engine
No. of cylinders	6
Bore & Stroke	108mm x 118mm
Displacement	6.485 cc
Rated output	150 ps/2,100 rpm
Max. torque	52 kg-m/1,600 rpm
Fuel tank	290 liters

Lower Machinery

All welded robust rolled steel, box construction.

All welded robust rolled steel. Connected to lower frame by links and pins.

Heat treated, mounted on bushings with floating seals requiring no further lubrication.

Bottom – 7 pcs. per side frame.
Top – 2 pcs. per side frame.

Heat treated, involute splined to drive shaft mounted on antifriction bearings.

Heat treated, mounted on bushings with floating seals requiring no further lubrication.

Heat treated, self cleaning, two lug type, multiple hinged shoes, 54 pcs. per side frame.

Shoe width – 760 mm

Tractor type link shoe (54 pcs. per side frame) is available as option.

Adjusted by hydraulic cylinders at the idler blocks. Tension can be automatically released when abnormal load occurred on tracks.

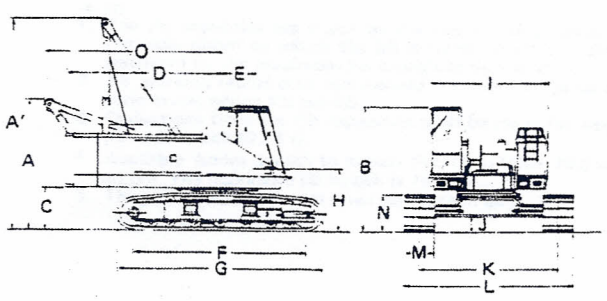
Axial piston motor with reduction gear is located at inner drive end of each crawler side frame. Each track is driven simultaneously or individually for straight-line travel, or pivot turn, or the tracks can be counter-rotated for spin turns.

Brake – Spring applied, hydraulically released multiple disc brakes applied automatically when control lever in neutral position.

Speed – Two speed range
1.8 km/h ---------- Pump control "OFF" (ordinary)
0.34 km/h --------- Pump control "ON"

General Dimensions

A	: Height over low gantry unit	3.200m
A'	: Height over high gantry unit	5.130m
B	: Height of cab	3.055m
C	: Counterweight ground clearance	1.050m
D	: Radius of rear end	3.980m
E	: Center of rotation to boom foot pin	0.900m
F	: Center to center distance of tambler	4.425m
G	: Overall length of crawler	5.245m
H	: Height from ground to boom foot pin	1.550m
I	: Overall width of house	2.980m
J	: Ground clearance	0.385m
K	: Center to center distance of crawler extended	3.450m
	retracted	2.540m
L	: Overall width of crawler extended	4.210m
	retracted	3.300m
M	: Shoe width	0.760m
N	: Height of shoe	0.920m
O	: Tail swing radius at low gantry	4.475m



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

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LS-108RH-5 CRANE CAPACITES (WITH CRANE BOOM):

(in metric tons)

Working radius (m)	Boom length (m)													
	10.0	13.0	16.0	19.0	22.0	25.0	28.0	31.0	34.0	37.0	40.0	43.0	46.0	49.0
3.0	40.00													
3.7	40.00	40.00												
4.0	36.80	36.70	35.25/4.1											
4.5	30.80	30.65	30.55	29.3/4.6										
5.0	25.90	25.75	25.65	25.55	24.2/5.2	20.2/5.8								
6.0	19.65	19.55	19.45	19.40	19.30	19.20	17.6/6.4							
7.0	15.80	15.70	15.65	15.50	15.45	15.35	15.25	15.20	13.8/7.5					
8.0	13.15	13.00	12.95	12.85	12.80	12.65	12.60	12.55	12.50	12.35	11.1/8.5			
9.0	11.20	11.15	11.05	10.95	10.85	10.80	10.70	10.60	10.50	10.45	10.40	10.25	9.2/9.5	
10.0	10.15/9.7	9.65	9.60	9.50	9.40	9.30	9.25	9.20	9.05	9.00	8.95	8.80	8.50	8.30
12.0		7.60	7.50	7.40	7.30	7.20	7.15	7.10	7.05	6.90	6.85	6.80	6.70	6.50
14.0		7.3/12.3	6.15	6.00	5.90	5.85	5.80	5.70	5.60	5.55	5.45	5.35	5.25	5.05
16.0			5.65/14.9	5.05	4.95	4.80	4.75	4.65	4.60	4.50	4.40	4.30	4.20	4.10
18.0				4.5/17.5	4.25	4.15	4.05	3.95	3.85	3.70	3.65	3.55	3.50	3.35
20.0					3.65	3.55	3.45	3.35	3.25	3.15	3.10	3.00	2.90	2.80
22.0						3.05	2.95	2.85	2.75	2.65	2.55	2.45	2.40	2.30
24.0						2.85/22.7	2.50	2.40	2.35	2.20	2.15	2.05	2.00	1.85
26.0							2.3/25.3	2.10	2.00	1.90	1.80	1.70	1.65	1.55
28.0								1.85	1.75	1.60	1.45	1.40	1.35	1.20
30.0									1.50	1.30	1.20	1.10	1.00	0.90
32.0									1.45/30.5	1.10	1.00	0.85	0.80	0.70

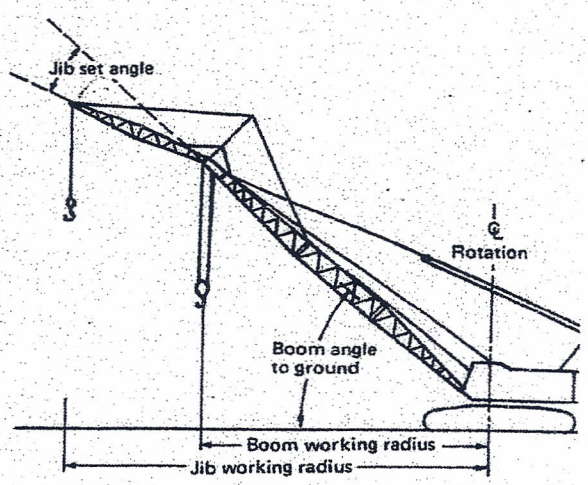
Notes:

1. **Capacities shown are in metric tons and are determined according to BS (British Standard, 1981) — 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	40 t	15 t	5 t
Weight of hook block (t)	0.40 t	0.30 t	0.12 t

2. **When operating of 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)	0.75	0.90	1.05	1.20



LS-108RH-5 JIB CAPACITIES:

(in metric tons)

Jib length (m)	Jib set angle	Max. jib Capacities
6.10	10°	5.0
	30°	5.0
9.15	10°	5.0
	30°	5.0
12.20	10°	4.1
	30°	4.1
15.25	10°	3.3
	30°	3.3

Notes:

1. The jib capacities are equal to the crane lifting capacities the main boom on which the jib is fixed except that they restricted by the maximum jib capacities shown left.
2. Jib working radius does not exceed the working radius of main boom which fits the jib.
3. Deductions from the jib capacities must be made for weight jib hook block (0.12 t).
4. Available boom length to attach the jib is from 19.0 m 40.0m. The maximum jib length is 15.25m.
5. The jib set angle to boom must not exceed 30°

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