### CONFIGURATION

#### CONTENTS

- Configuration .......................................................... 1
- Specifications .......................................................... 6
- General Dimensions ..................................................... 7

#### STANDARD

- Boom and Jib Arrangements .......................................... 9
- Working Ranges .......................................................... 12
- Crane Boom Supplemental Data ....................................... 19
- Heavy Fixed Jib Supplemental Data ................................. 21
- Luffing Jib Supplemental Data ......................................... 23
- Heavy Duty Crane Boom Lifting Capacities ....................... 27
- Long Boom Lifting Capacities ......................................... 27
- Heavy Fixed Jib Lifting Capacities .................................. 28
- Luffing Boom Lifting Capacities ...................................... 29
- Heavy Duty Crane Boom Lifting Capacities ....................... 27
- Long Boom Lifting Capacities ......................................... 27
- Heavy Fixed Jib Lifting Capacities .................................. 28
- Luffing Boom Lifting Capacities ...................................... 29
- Luffing Jib Lifting Capacities .......................................... 30

#### HEAVY LIFT

- Boom and Jib Arrangements .......................................... 33
- Working Ranges .......................................................... 36
- Heavy Duty Crane Boom Lifting Capacities ....................... 43
- Long Boom Lifting Capacities ......................................... 44
- Heavy Fixed Jib Lifting Capacities .................................. 44
- Luffing Boom Lifting Capacities ...................................... 45
- Luffing Jib Lifting Capacities .......................................... 46
- Heavy Fixed Jib Lifting Capacities .................................. 44
- Luffing Boom Lifting Capacities ...................................... 45
- Luffing Jib Lifting Capacities .......................................... 46

#### SUPER HEAVY LIFT

- Boom and Jib Arrangements .......................................... 49
- Working Ranges .......................................................... 53
- Heavy Duty Crane Boom Lifting Capacities ....................... 61
- Long Boom Lifting Capacities ......................................... 62
- Heavy Fixed Jib Lifting Capacities .................................. 63
- Luffing Boom Lifting Capacities ...................................... 64
- Luffing Jib Lifting Capacities .......................................... 65
- Transportation Plan ...................................................... 75
- Parts and Attachments .................................................. 77

#### SHL

- **Heavy Duty Crane Boom**
  - Max. Lifting Capacity: 550 t x 8.3 m
  - Max. Boom Length: 84 m
  - Max. Combination: –

- **Luffing Boom**
  - Max. Lifting Capacity: 300 t x 20.0 m
  - Max. Boom Length: 84 m
  - Max. Combination: 78 m + 18 m

- **Long Boom**
  - Max. Lifting Capacity: 98 t x 30.0 m
  - Max. Boom Length: 126 m
  - Max. Combination: –

- **Heavy Fixed Jib (Type B2)**
  - Max. Lifting Capacity: 120 t x 20.0 m
  - Max. Boom Length: –
  - Max. Combination: 78 m + 18 m

- **Heavy Fixed Jib (Type C)**
  - Max. Lifting Capacity: 105 t x 30.0 m
  - Max. Boom Length: –
  - Max. Combination: 102 m + 18 m

- **Luffing Jib**
  - Max. Lifting Capacity: 200 t x 14.4 m
  - Max. Boom Length: –
  - Max. Combination: 84 m + 84 m
**Load Hoist System**

H1 and H2 drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers. 

Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counterbalance valve.

Drum lock: External ratchet for locking drum.

Drums:
- H1 and H2: 640 mm P.C.D. x 1,367 mm Lg. wide drum, grooved for 28 mm wire rope. Rope capacity is 830 m storage length.

Note: Rope length listed above denotes drum capacity and may differ from actual rope lengths supplied when machinery is shipped.

Line speed: 110 ~ 3 m/min

Single line on the first layer

Swing System

Swing unit is powered by a hydraulic motor driving spur gears through planetary reducers (4 sets), the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Triple-row roller bearing with an integral internal cut swing gear.

Swing speed: 0.9 min⁻¹ (rpm)

**Upper Structure**

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level.

**Lower Structure**

Steel-welded car body with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Crawler drive: Two independent hydraulic propeller drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propeller drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers.

Shoes (flat): 1,500 mm wide each crawler

Max. travel speed: 1.0/0.6 km/h

Max. gradeability: 20%

**Weight**

Including base machine, counterweights =200 metric ton, car body weights = 50 metric ton, 24 m standard heavy duty boom and 450 metric ton hook block. Not include quick connection device and upper transfixer.

Weight: 444 metric ton

Ground pressure: 142 kPa (1.5 kgf/cm²)

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**Specifications**

**Power Plant**

Model: Hino diesel engine E13C-YY
Type: Water-cooled, direct fuel injection, with turbocharger
Complies with NRM (Europe) Stage III B / US EPA Tier 4
Displacement: 12.913 liters
Rated Power: 320 kW/2,000 min⁻¹ (Max Power: 330 kW/1,800 min⁻¹)
Max. torque: 1,930 Nm/1,300 min⁻¹
Cooling system: Water-cooled
Start: 24 V/6 kW
Radiator: Corrugated type core, thermostatically controlled
Air cleaner: Dry type with replaceable paper element

**Hydraulic System**

Seven variable displacement piston pumps are driven by heavy-duty pump drive. Two variable displacement pumps are used in H1 (main hoist hoist) and right hand side propel circuit.

Two variable displacement pumps are used in H2 (auxiliary hook hoist) and left hand side propel circuit. One of the other two pumps is used in W1 (boom), W2 (ib) or W3 (SHL mast) hoist circuit, and the other is used in the swing circuit.

One displacement piston pump is used for W1 or W3 hoist speed up.

Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)
Filtration: Full-flow and bypass type with replaceable element

Max. relief valve pressure: 32.0 MPa (326 kgf/cm²)

Hydraulic Tank capacity: 710 liters

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**Boom Hoisting System**

Powered by a hydraulic motor through a planetary reducer.

Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counterbalance valve.

Drum lock: External ratchet for locking drum.

Drum: Double drum, grooved for 28 mm dia. wire rope.

Line speed: Single line on first drum layer

Hoisting/Lowering: 28–2 m/min x 2

Boom hoist reeving: 30 parts of 28 mm dia.high strength wire rope

Boom backsteps: Required for all boom lengths

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**Cab & Control**

Totally enclosed, full vision cab with safety glass, fully adjustable, can be tilted up to 15 degree, high backed seat with armrests, and intermittent wiper and window washer (sky light and front window.)

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray.

Controls:
- Five adjustable levers for all winches and swing controls
- Twist grip type hand throttle, electrically actuated
- Air cleaner: Dry type with replaceable paper element (sky light and front window.)

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**Main Specifications (Model: SL6000G)**

**Lift Enhancer**

<table>
<thead>
<tr>
<th>Model</th>
<th>STD</th>
<th>HL</th>
<th>SL</th>
</tr>
</thead>
<tbody>
<tr>
<td>NL Mast</td>
<td>-</td>
<td>30 t</td>
<td>36 t</td>
</tr>
<tr>
<td>Additional Weight</td>
<td>-</td>
<td>-</td>
<td>-250 t</td>
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<tr>
<td>Heavy Duty Crane Boom</td>
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<tr>
<td>Max. Lifting Capacity</td>
<td>450 t</td>
<td>370 t</td>
<td>500 t</td>
</tr>
<tr>
<td>Lift Speed</td>
<td>0.7 min⁻¹</td>
<td>0.3 min⁻¹</td>
<td>0.3 min⁻¹</td>
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<tr>
<td>Length</td>
<td>24 – 84 m</td>
<td>36 – 84 m</td>
<td>36 – 84 m</td>
</tr>
<tr>
<td>Luffing Boom</td>
<td></td>
<td></td>
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<tr>
<td>Max. Lifting Capacity</td>
<td>300 t</td>
<td>300 t</td>
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<tr>
<td>Length</td>
<td>9.3 m</td>
<td>9.3 m</td>
<td>26.0 m</td>
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<tr>
<td>Long Boom</td>
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<tr>
<td>Length</td>
<td>90 – 108 m</td>
<td>90 – 108 m</td>
<td>90 – 108 m</td>
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<td>Max. Lifting Capacity</td>
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<td>18 t</td>
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<tr>
<td>Heavy Fixed Jib</td>
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</tr>
<tr>
<td>Max. Length</td>
<td>105 t</td>
<td>105 t</td>
<td>105 t</td>
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<tr>
<td>Max. Lifting Capacity (Boom)</td>
<td>20.0 m</td>
<td>20.0 m</td>
<td>20.0 m</td>
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<tr>
<td>Max. Lifting Capacity (Jib)</td>
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<tr>
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<td>60 t</td>
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<tr>
<td>Luffing Jib</td>
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<tr>
<td>Max. Lifting Capacity</td>
<td>195 t</td>
<td>200 t</td>
<td>200 t</td>
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<td>Max. Lifting Capacity (Boom)</td>
<td>72 t</td>
<td>72 t</td>
<td>72 t</td>
</tr>
</tbody>
</table>

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**Attachment**

Boom and Jib:
- Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.
- Boom and Jib Length

**Boom and Jib Length**

<table>
<thead>
<tr>
<th>Min. Length</th>
<th>Max. Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Min. Combination)</td>
<td>(Max. Combination)</td>
</tr>
<tr>
<td><strong>STANDARD</strong></td>
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</tr>
<tr>
<td>Heavy Duty Boom</td>
<td>24 m</td>
</tr>
<tr>
<td>Luffing Boom</td>
<td>30 m</td>
</tr>
<tr>
<td>Long Boom</td>
<td>90 m</td>
</tr>
<tr>
<td>Heavy Fixed Jib</td>
<td>66 m + 18 m</td>
</tr>
<tr>
<td>Luffing Jib</td>
<td>30 m + 24 m</td>
</tr>
<tr>
<td><strong>HEAVY LIFT</strong></td>
<td></td>
</tr>
<tr>
<td>Heavy Duty Boom</td>
<td>36 m</td>
</tr>
<tr>
<td>Luffing Boom</td>
<td>36 m</td>
</tr>
<tr>
<td>Long Boom</td>
<td>90 m</td>
</tr>
<tr>
<td>Heavy Fixed Jib</td>
<td>66 m + 18 m</td>
</tr>
<tr>
<td>Luffing Jib</td>
<td>36 m + 24 m</td>
</tr>
<tr>
<td><strong>SUPER HEAVY LIFT</strong></td>
<td></td>
</tr>
<tr>
<td>Heavy Duty Boom</td>
<td>36 m</td>
</tr>
<tr>
<td>Luffing Boom</td>
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<tr>
<td>Long Boom</td>
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<tr>
<td>Heavy Fixed Jib</td>
<td>66 m + 18 m</td>
</tr>
<tr>
<td>Luffing Jib</td>
<td>36 m + 24 m</td>
</tr>
</tbody>
</table>

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**Fuel Tank Capacity**

- Heavy Fixed Jib Type B2:
  - Min. Length: 600 liters
  - Max. Length: 600 liters

**Engine Output**

- Model: Hino E13C-YY
- Engine Output: 320 kW/2,000 min⁻¹ (rpm)
- Fuel Tank Capacity: 710 liters
- Hoist Winch (H1, H2):
  - Min. Length: 110 liters (1st layer)
  - Max. Length: 137 kPa (14.7 kgf/cm²)
- Wire Rope Diameter: 28 mm
- Wire Rope Length: 830 m
- Working Speed:
  - Swing: 0.9 mm⁻¹ (rpm)
  - Travel: 1.026 km/h
- Hydraulic System:
  - Pumps: 7 variable displacement
  - Max. Pressure: 32 MPa (326 kgf/cm²)
  - Hydraulic Tank Capacity: 710 liters
- Hoist Winch:
  - Min. Length: 110 liters (1st layer)
  - Max. Length: 137 kPa (14.7 kgf/cm²)
- Ground Pressure:
  - Min. Length: 142 kPa (1.5 kgf/cm²)
  - Max. Length: 142 kPa (1.5 kgf/cm²)
- Counterweight:
  - Upper: 200 metric ton
  - Lower: 150 metric ton
- **SUPER HEAVY LIFT**
  - Heavy Duty Boom: 36 m
  - Luffing Boom: 36 m
  - Long Boom: 90 m
  - Heavy Fixed Jib: 66 m + 18 m
  - Luffing Jib: 36 m + 24 m

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1. *Heavy Fixed Jib Type B2*
2. *Heavy Fixed Jib Type C*
3. *Including base machine, counterweights =200 metric ton, car body weights = 50 metric ton, 24 m + boom with heavy duty boom and 450 metric ton hook block. Not include quick connection device and upper transfixer.*
GENERAL DIMENSIONS

Crane Boom

Unit: mm

Luffing Jib

Unit: mm

Lift Enhancer

SHL CRANE

SHL LUFFING