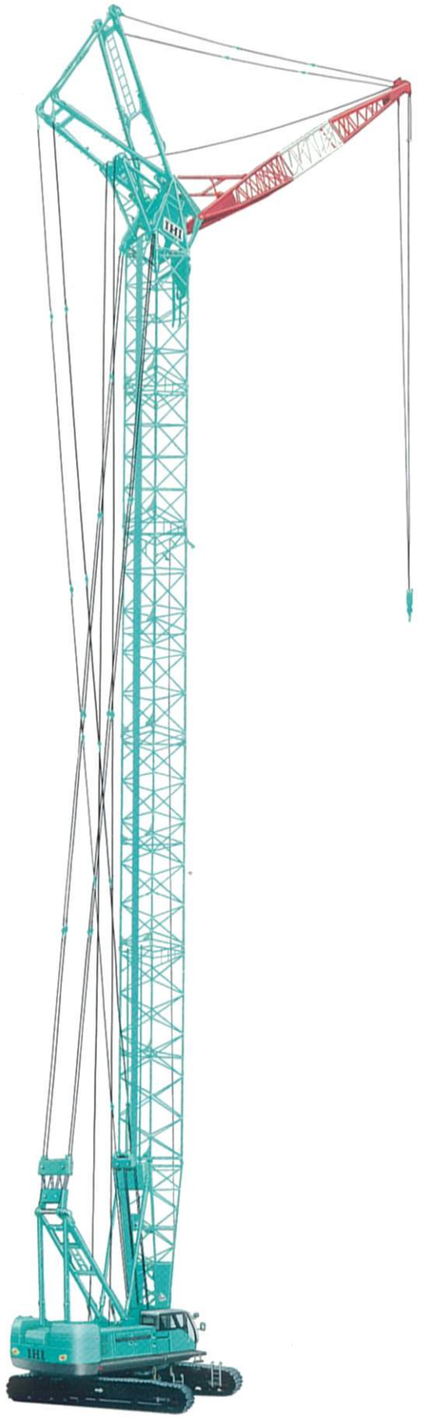

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Printed in Japan
IK1203A0212LL30

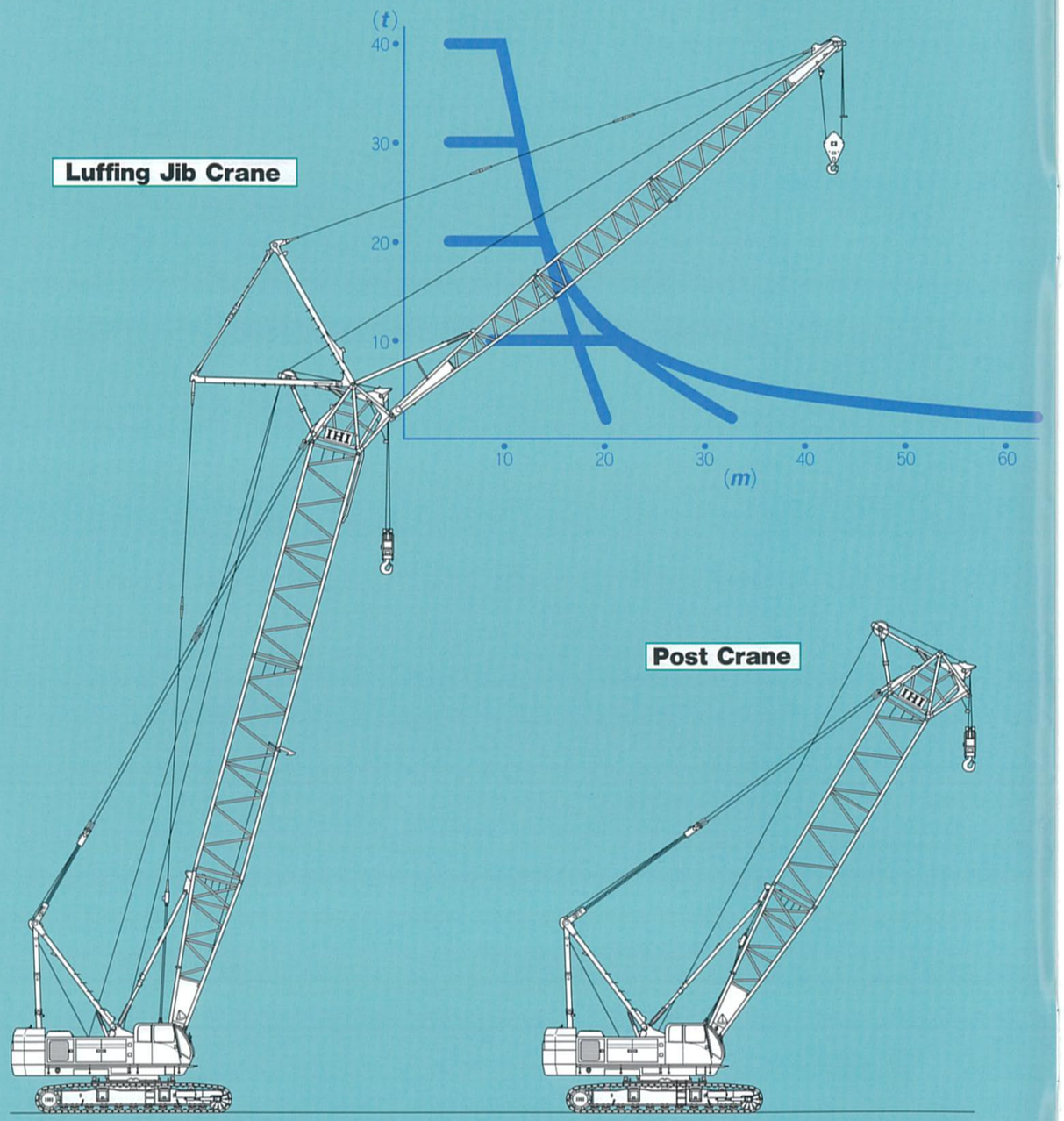
IHI

CCH1200

Fully Hydraulic Crawler Crane

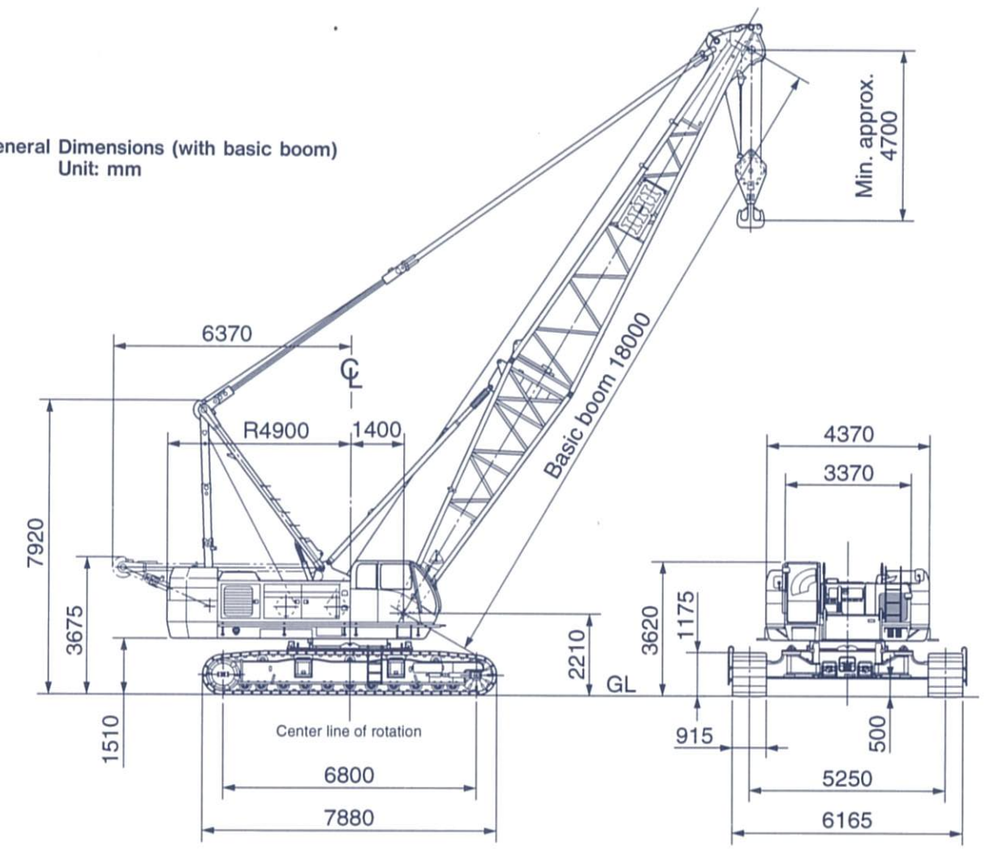
Lifting capacity 120 metric tons

IHI Construction Machinery Limited



Note:
Main and Jib hook blocks may not be operated simultaneously.

■General Dimensions (with basic boom)
Unit: mm



■Specifications

Performance	
Swing speed	2.2 rpm
Travel speed	＊1.5/1.0 km/h (0.93/0.62 mph)
Gradeability	30% (Approx. 16.7˚ with 18m Boom and 120ton hook block
Engine	
Make	HINO MOTOR
Model	K13TJ(with turbo) diesel engine 4-cycle, water cooled, overhead valve
Type	Direct injection diesel engine
Total piston displacement	12.882 ℓ
Rated output	320 PS/2000 rpm
Fuel tank capacity	450 ℓ
Battery	12 V×150 AH×2 pcs.
Load hoist system (Main & Aux.)	
Hydraulic motor	Variable displacement axial piston type
Reduction gear	Two-stage planetary gear and single stage spur gear
Hoist drum	Tandem drums driven independently by hydraulic motor, lagging type with lebus grooved drum.
Clutch	Internal expanding band type
Brake	External contracting type
Drum lock	Ratchet lock
Hydraulic pump	Variable displacement axial piston type×2 Gear pump×3
Boom hoist sytem	
Motor	Axial piston type
Reduction gear	One stage planetary gear + One stage spur gear
Hoist drum	Lebus grooved drum
Brake	Automatic spring - loaded hydraulically released wet type multi-disk
Drum lock	Ratchet lock

＊Travel speed changes depending on the load.

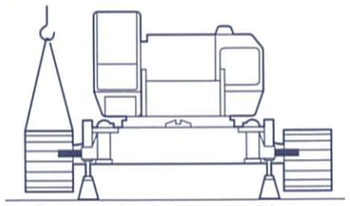
■Standard Equipment

- **Instrument for crane**
  - Engine tacho meter (Hour meter)
  - Hydraulic oil pressure gauge (for control circuit)
  - Fuel level gauge
  - Engine coolant thermo indicator / Engine oil pressure indicator / Hydraulic oil thermo indicator — Indicated bar graph in OK monitor
- **Lighting for crane**
  - 2-Work light (24v × 80w)
  - 1-Room light (24v × 10w)
- **Safety device**
  - Automatic stop for hook overwinding
  - Automatic stop for boom overwinding
  - Telescopic boom limit stop
  - Swing lock
  - Main and auxiliary drum lock
  - Boom hoist drum lock
  - 2nd. boom stop device (82˚ non-resetable)
  - Clutch engage pin on main and auxiliary winch
  - Safety valve for hydraulic circuit
  - Counter balance valve
  - Control lever locking device
- **Other standard accessories**
  - Front windshield wipers (intermittent, w/washer)
  - Roof wipers (intermittent, w/washer)
  - Sunvisor
  - Sun shade
  - Strage pouch
  - Tool box
  - Reclining operator's seat
  - Floor mat
  - Jack device for dismantling
  - Lateral cylinders for dismantling crawler
  - Steps for operator's cab
  - Radio
  - Cigarette lighter
  - Ash tray
  - Large rear view mirrors (right/left)
  - Signal horn
  - Electric fuel filling pump
  - Swing warning flasher
  - Travel warning flasher
  - High "A" frame erecting device
  - Low-noise cab
  - Bronze tinted glass
  - Wire mesh boom workway (for inner boom)
  - Foot rest
  - Electric type engine throttle
  - Foot pedal-type engine throttle
  - Automatic engine deceleration
  - Ultra low speed control
  - Hydraulic assist brake for main and aux. winch
  - Winch mode selector for main and aux. winch
  - Rope guide roller on outer boom
  - Plug socket
  - Loud speaker
  - Emergency engine stop switch
  - OK monitor

Self dismantling method for convenient transportation

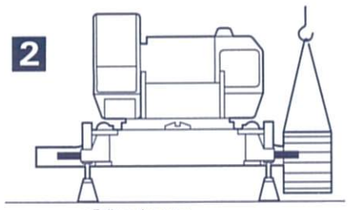
Attachments, counterweights and crawler frames can be dismantled to lighten the weight, shorten the width and lower the height of the base machine for convenient transportation.

1



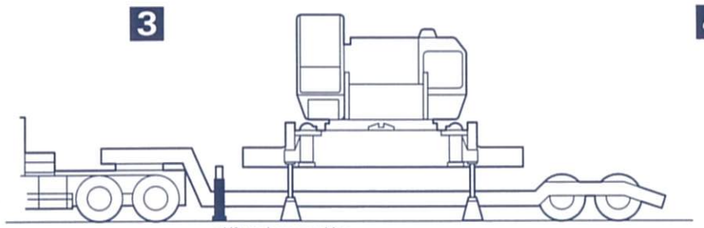
- Remove attachments and counterweights.
- Open and lock jack-up boam.(standerd equipment)
- Disconnect hydraulic hoses of traction motor drive.
- Set pedestals on firm level qround.
- Lift up base machine slightly by jack-up cylinder.
- Suspend crawler frame (approx.13ton) with another crane.
- Push out and remove crawler frame by laterl cylinder (standard equipment).

2



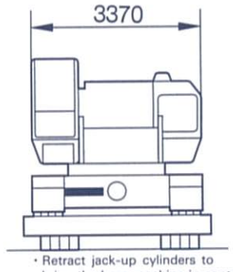
- Follow the same procedures to remove the other side of the crawler frame.

3



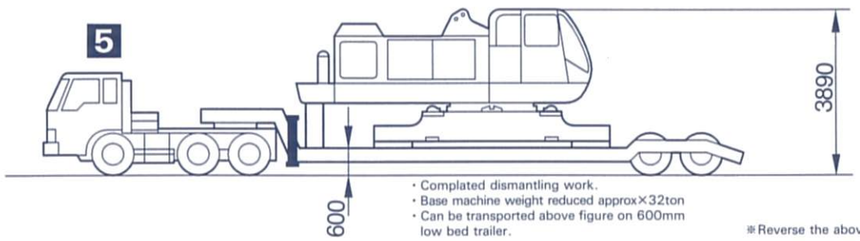
- Lift up base machine by jack-up cylinders to provide enough ground clearance for receiving trailer underneath.

4



- Retract jack-up cylinders to bring the base machine in contact with the trailer bed, then turn the superstructure 90° to direct the operator's cab in the opposite divection as trailer.

5



- Complated dismantling work.
- Base machine weight reduced approx×32ton
- Can be transported above figure on 600mm low bed trailer.

※Reverse the above procedures to re-assemble.

■Optional Equipment

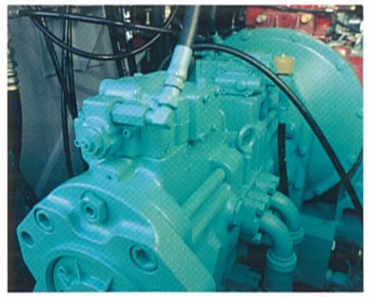
Moment limiter (overload prevention)
Warning at 90% of rated load
Warning at optionally set boom angle
Shockless stop, load hoist and boom hoist or lowering at limited condition
Insert boom (w/pendant cable) 3m, 6m, 9m
13m basic jib, 3m, 6m insert (w/pendant rope)
Auxiliary jib
60 ton, 50 ton, and 30 ton hook block
11 ton hook block for jib
Combustion type heater
Air conditioner
Wierless phone
Yellow rotary light
Boom point clearance light
Bullhorn
Catwalk
Catwalk (w/handrail)
Offlimit fence
Electrical type level indicator
Safety guard on boom
Reeving winch
Hydraulic type tagline
Rope guide roller on boom (additional)
Drum roller
Name plate (both side of outer boom and cab)
Fier extinguisher
Flash light for inspection
Hoist drum mirror
Boom foot pin cylinder
Fulcrum plate for rising of attachment
Monitor TV (watching rear left and drum)
Monitor TV (watching lifting load)
Large size tool box with caster
Sling wire for disassembling and assembly

● Four powerful, independently driven drum winches mounted on dual in-line shafts

Main and auxiliary drums are located on the left side on front and rear shafts while jib hoist and boom hoist drums are on the right. Each drum is individually driven via a reduction unit from a variable displacement axial piston type hydraulic motor, delivering powerful winch performance.
(Front right drum is optional on applications other than the luffing jib crane.)

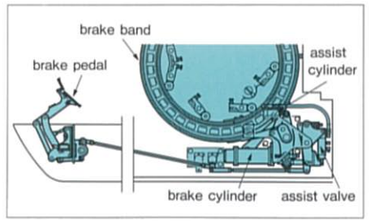
● Power-efficient fully controlled hydraulic system

Two variable displacement pumps and one gear pump incorporated into the engine provide the most effective application of engine output. Hydraulic flow and pressure are automatically regulated within maximum engine output, delivering high flow and low pressure for lighter loads, low flow and high pressure under heavy loading.



● Fatigue-free brake operation

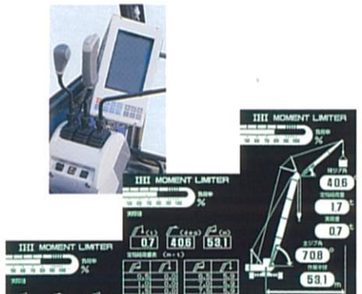
Hydraulically assisted main and auxiliary braking systems allow easy, delicate half-brake control.



● Moment limiter (Option)

The moment limiter has a graphic display with interactive screen. A panel switch lets the operator select from three display modes: load status diagram, rated lifting curve, and rated lifting capacity table.

When the actual load reaches 90% of rated lifting capacity, an intermittent warning buzzer sounds. At 100% of rated capacity, the buzzer sounds continuously, ceasing when load is hoisted or when boom is lowered. The moment limiter uses shockless control valves to slow and then stop the movement of boom or tower jib as they reach minimum or maximum operating angles. Boom angle limitations can be set by the operator, and the display blinks as a warning when these limits are reached.



Load status diagram

Rated lifting capacity table

Rated lifting curve

● Mode selector switch installed in control lever

Control levers, pedals and switches are designed for easy operation. One-touch winch mode selector switches (foot/auto braking) are installed in the grips of main and auxiliary drum control levers. And an engine throttle control is built into the grip of the swing control lever, for fingertip command over engine speed.

● Ultra-low-speed control for precision work

Hydraulic pump delivery volume is controlled in conjunction with engine speed, supplemented by an independent swash-plate angle control dial. Together, these devices provide easy, accurate, seat-side control over delivery volume, for precise inching work.

● OK monitor

The OK monitor allows the operator to assess mechanical operating conditions at a glance, without leaving the seat. It includes bar graphs for water temperature, engine oil pressure and hydraulic oil temperature gauges, along with battery charging and air cleaner clogging information.

● Fuel-efficient automatic engine deceleration system

With the Auto-Decel selector engaged, the system senses hydraulic pressure, reducing engine speed to idle speed when the crane is inactive.

● Stacking type counterweights

Counterweights are stacked on the tail of the turntable, for excellent stability, efficient transport, and safe and easy assembly/disassembly. Weights—seven blocks of up to 14.7 ton—are secured directly to the turntable with pins and wedges.