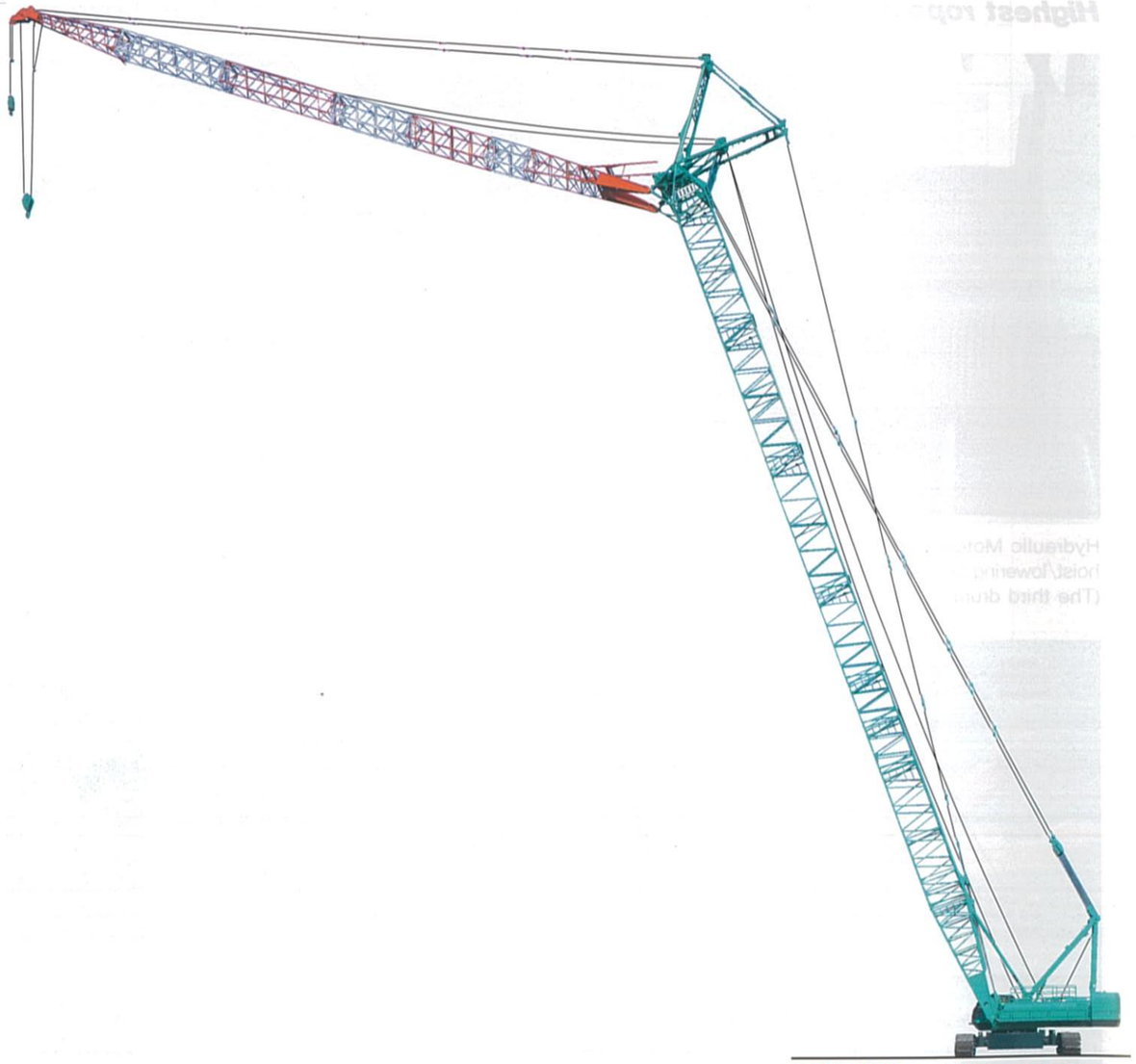

CCH2000-5 Luffing Jib Crane

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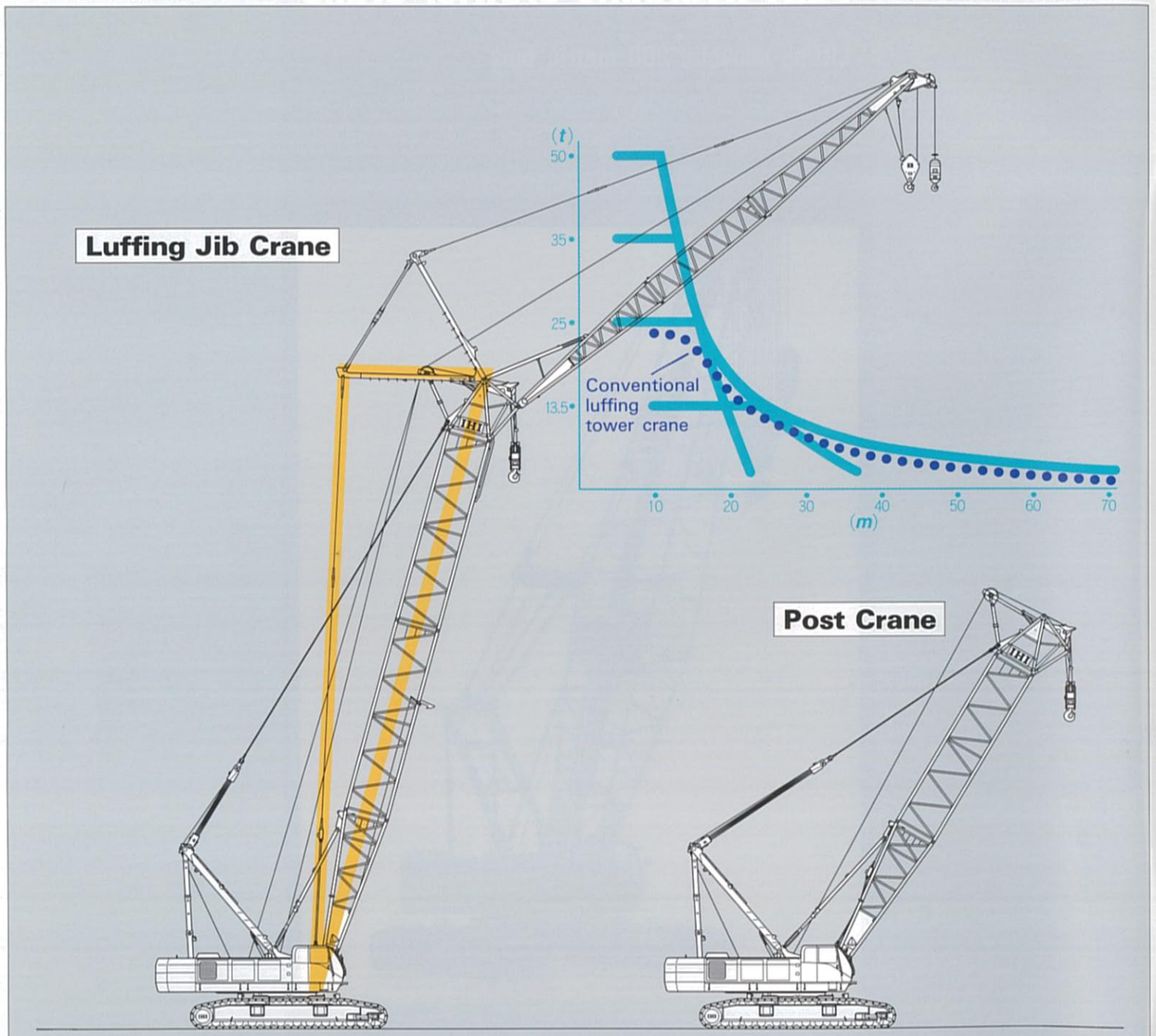
# CCH2000

## Fully Hydraulic Crawler Crane

**Lifting capacity 200 metric tons**

**IHI Construction Machinery Limited**

# Luffing Jib Crane evolved to equip "Auxiliary Jib"

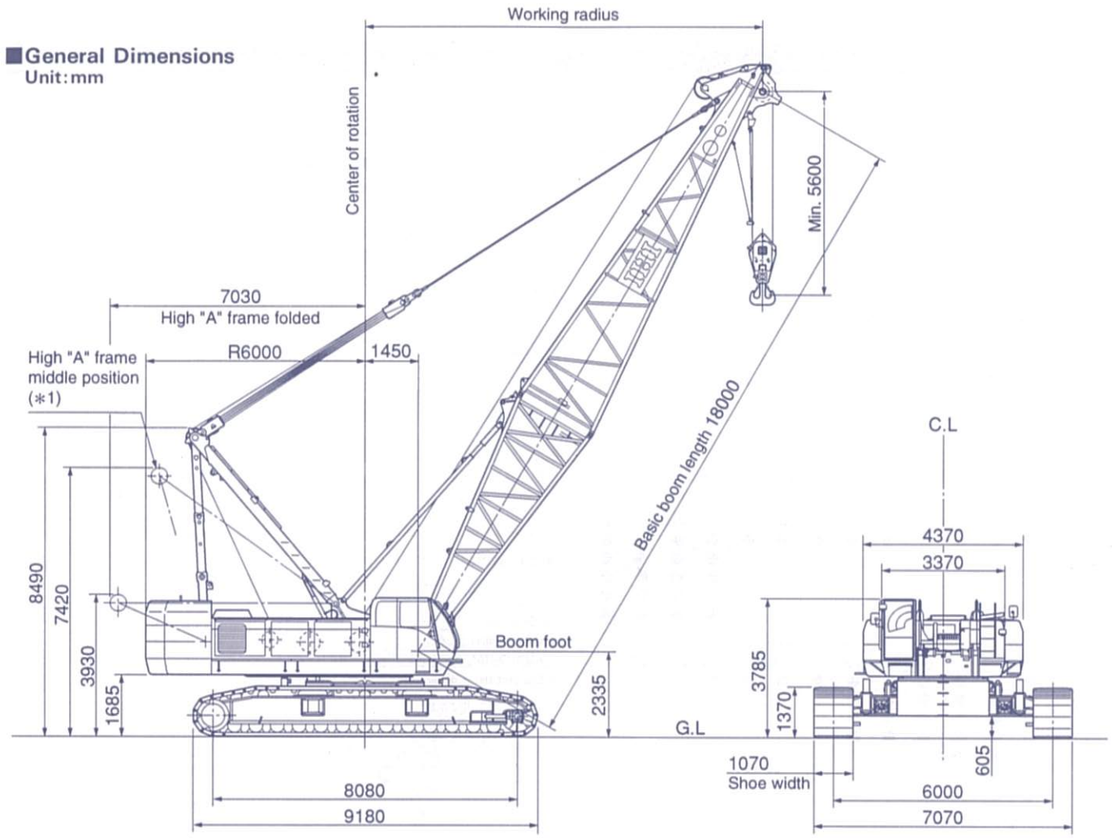



Selections are aveilable from:
1) 50-ton lifting with Post
2) 25-ton lifting with Luffing Jib
3) 13.5-ton lifting with Auxiliary Jib
Simultaneous lifting by Post and Auxiliary Jib is not permitted.

Middle Equalizer for Luffing Jib lifting is tentatively stowed on inner post when the Luffing Jib is dismantled.



## ■General Dimensions
Unit: mm




## ■Specifications

| | |
|---|---|
| **Performance** | |
| Swing speed | 1.7min⁻¹ (1.7rpm) [Constant swing speed 0.6min⁻¹ (0.6rpm)···optional] |
| Travel speed | ※0.9／0.6km／h |
| Gradability | 30%(16.7°) |
| **Engine** | |
| Make | HINO MOTOR |
| Model | K13C-TJ (with turbo) diesel engine |
| Type | 4-cycle, water cooled, straight 6-cylinder, direct injection |
| Rated output | 235kw/2000min⁻¹(320PS/2000rpm) |
| Total piston displacement | 12.882ℓ |
| Fuel tank capacity | 450ℓ |
| Battery | DC12V×150AH×2pcs. |
| **Main hoist system (Front left axle, also used for hoisting tower jib)** | |
| Hydraulic motor | Variable displacement axial piston type |
| Reduction gear | Two-stage planetary gear |
| Hoist drum | Single drum driven independently by hydraulic motor, lebus grooved drum |
| Clutch | Internal expanding band type |
| Brake | External contracting band type |
| Drum lock | Ratchet lock |
| **Aux. hoist system (Rear left axle)** | |
| Hydraulic motor | Variable displacement axial piston type |
| Reduction gear | Two-stage planetary gear |
| Hoist drum | Single drum driven independently by hydraulic motor, lebus grooved drum |
| Clutch | Internal expanding band type |
| Brake | External contracting band type |
| Drum lock | Ratchet lock |
| **Boom hoist system (Rear right axle, also used for hoisting tower post)** | |
| Hydraulic motor | Variable displacement axial piston type |
| Reduction gear | Three-stage planetary gear |
| Hoist drum | Dual drums driven independently by hydraulic motor, lebus grooved drum |
| Brake | Wet type multi-disk |
| Drum lock | Ratchet lock |

※The 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 (indicated bar graph in OK monitor)
- **Lighting for crane**
  - 2-Work light (24v×80w)
  - 1-Room light (24v×10w)
- **Safety devices**
  - Automatic stop for hook overwinding
  - Automatic stop for boom overwinding
  - 2nd boom stop device (non-resetable)
  - Telescopic boom limit stop
  - Swing lock
  - Main and auxiliary drum lock
  - Boom hoist drum lock
  - Safety valve for hydraulic circuit
  - Clutch engage pin on main and auxiliary winch
  - Counter balance valve
  - Control lever locking device
  - Traction lever lock
  - Automatic braking system
  - Engine start voice alarm
- **Other standard accessories**
  - Front windshield wipers (intermittent, w/washer)
  - Roof wipers (intermittent, w/washer)
  - Sunvisor
  - Sun shade
  - Storage pouch
  - Tool box
  - Reclining operator's seat
  - Floor mat
  - 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 & alarm
  - Travel warning alarm
  - 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
  - Ultra low-speed control (w/selector swith for coupling with engine speed or independent)
  - 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
  - Dial-type winch speed adjustment device (main, aux. and boom)
  - Pump power shift device
  - Emergency engine stop switches
  - Foot pin cylinder device
  - Fulcrum plate for erecting attachment (also used as climbing step to operator's cabin)

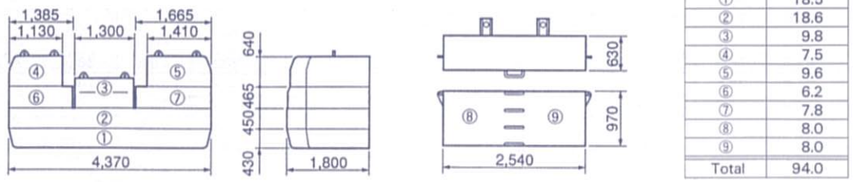
## ■Optional equipment

Moment limiter(*2)
Optional boom canthus setting device (included in moment limiter)
Automatic stop system (activated when near the marginal angle or when load is 90%)
Built-in type air conditioner
Large-sized storage bin

(*1) High "A" frame middle position when mast is in use.
(*2) Optional depend on region

## ■Individual masses and outline dimensions

| | Main part name | Mass (tons) | Q'ty | dimensions(m)L×W×H |
|---|---|---|---|---|
| Main body | Main body (without "A" frame, ropes, axles and crawlers) | (31.9) | (1) | 7.95×3.37×3.17 |
| | Main body (with "A" frame, and without ropes, axles and crawlers) | (36.2) | (1) | 9.60×3.37×3.32 |
| | Main body (with "A" frame, ropes, and axles, and without crawlers) | 47.3 | 1 | 10.17×3.37×3.33 |
| | Crawler | 18.9 | 2 | 9.18×1.07×1.37 |
| | Counterweight, weight for body | 94.0 | 9 | See below. |
| | Counterweight arrangement and dimensions (mm) | | | |
| Crane attachment | Inner boom (with boom limit stop) | 3.1 | 1 | 7.75×2.65×2.4 |
| | Outer boom (with pendant rope) | 3.4 | 1 | 11.3×2.45×2.35 |
| | 3m insert boom (with pendant rope) | 0.85 | As required | 3.15×2.45×2.35 |
| | 6m insert boom (with pendant rope) | 1.35 | As required | 6.15×2.45×2.35 |
| | 9m insert boom (with pendant rope) | 1.8 | As required | 9.15×2.45×2.35 |
| | Equalizer | 0.8 | 1 | 2.27×1.14×0.36 |
| | Inner jib (with jib strut pendant rope) | 1.1 | 1 | 6.95×1.35×1.05 |
| | Outer jib (with pendant rope) | 0.5 | 1 | 6.85×1.07×1.05 |
| | 1m aux. jib | 0.35 | 1 | 1.99×0.64×0.4 |
| | 6m insert jib (with pendant rope) | 0.25 | As required | 6.1×0.98×1.05 |
| | 200ton hook | 2.7 | 1 | 0.85×2.36×1.01 |
| | 150ton hook | 2.4 | 1 | 0.85×2.21×0.82 |
| | 100ton hook | 1.4 | 1 | 0.73×1.97×0.54 |
| | 60ton hook | 1.2 | 1 | 0.8×1.77×0.5 |
| | 13.5ton hook (shared with luffing jib) | 0.6 | 1 | 0.46×1.52×0.46 |
| Luffing attachment | Inner post (with inner post yoke and stabilizer) | 5.3 | 1 | 7.75×2.65×2.4 |
| | Tower top | 2.9 | 1 | 4.86×3.02×2.35 |
| | 3m insert post (shared with 3m insert boom) | 0.95 | As required | 3.15×2.45×2.35 |
| | 6m insert post (shared with 6m insert boom) | 1.50 | As required | 6.15×2.45×2.35 |
| | 9m insert post (shared with 9m insert boom) | 2.10 | As required | 9.15×2.45×2.35 |
| | Middle equalizer | 0.3 | 1 | 1.21×0.76×0.33 |
| | Strut | 2.5 | set | 7.42×2.07×1.15 |
| | Tower inner jib (with jib limit stop) | 1.82 | 1 | 9.15×2.57×1.5 |
| | Tower outer jib (with pendant rope) | 1.1 | 1 | 9.4×2.1×1.61 |
| | 3m tower insert jib (with pendant rope) | 0.32 | As required | 3.1×1.6×1.5 |
| | 6m tower insert jib (with pendant rope) | 0.54 | As required | 6.1×1.6×1.5 |
| | 9m tower insert jib (with pendant rope) | 0.74 | As required | 9.1×1.6×1.5 |
| | 50ton hook (for post operations) | 1.0 | 1 | 0.8×1.9×0.43 |
| | 25ton hook (shared with post and jib operations) | 1.0 | 1 | 0.8×1.61×0.35 |




| Weight (tons) | |
|---|---|
| ① | 18.5 |
| ② | 18.6 |
| ③ | 9.8 |
| ④ | 7.5 |
| ⑤ | 9.6 |
| ⑥ | 6.2 |
| ⑦ | 7.8 |
| ⑧ | 8.0 |
| ⑨ | 8.0 |
| Total | 94.0 |

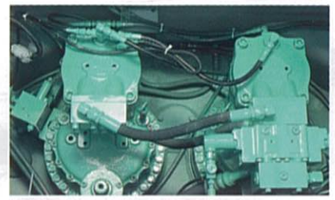
◆Diagrams shown have been drawn for catalog purposes and may differ from actual products.
◆Specifications are subject to change without notice due to technical improvements or modifications.



# OPERATOR ORIENTED DESIGN ENSURES SAFE AND EFFECTIVE OPERATION OF GREAT 200-TON

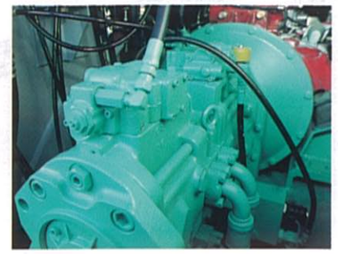
## *Highest rope speeds in this class 110 meter/minute Load Hoist/Lowering*

Hydraulic Motors to drive main drum, auxiliary drum, the third drum and boom hoist/lowering drum are independently controlled to match each operating speeds. (The third drum is optional for application other than the luffing jib crane)



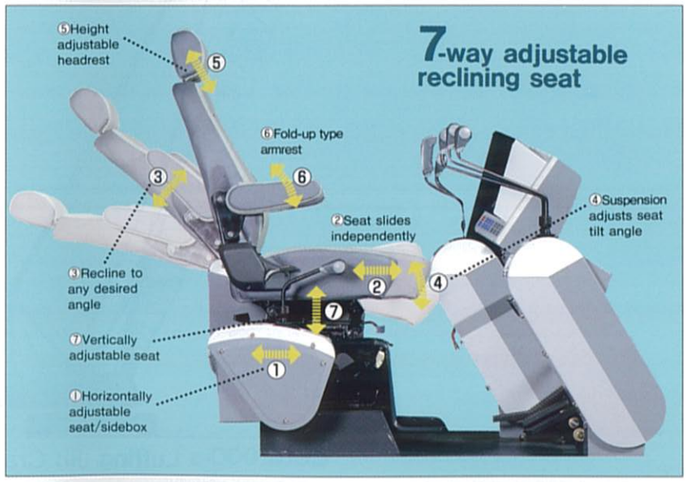
### ●Powerful Swing

Powerful double-hydraulic-motor for swing motion is independent from all other operations.



### ●Full Power-Efficient Hydraulic Control System

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




### ●Dial system controller

Hydraulic pump delivery volume is controlled in conjunction with engine speed supplemented by and independent swash-plate angle control dial. The device provides easy, accurate and precise inching work.

### ●Wide visibility and deluxe control stands

Dazzle free front glass, radio, intermittent windshield wiper, sunshade, stowbox are standard equipped. Levers, pedals, switches are logically located for safe and easy operation. Engine throttle switch is integrated on swing lever grip. Winch mode switch (select foot or automatic) is located on main and aux. hoist levers.