Fully Hydraulic Crawler-Spanner Crane

Lifting capacity 70 metric tons
The CCH700 Is Here!

Two Essential Functions in One Dependable Crane. It’s a New Era of Performance and Convenience.

III Construction Machinery Limited has created a newly designed crane with revolutionary performance. The CCH700 hydraulic crawler crane offers top-class lifting performance, and its Lu芬ing Jib Attachment can handle both a main and jib hook at the same time. That means that you can choose the best hook for your lifting load and working range. And since one crane does the work of two, there’s no need to switch machines for different applications — that’s a great advantage, especially at tight job sites. The CCH700 is also easy to assemble, disassemble, and transport, and it’s been specially designed for safe operation and excellent harmony with the natural environment. With the CCH700, you’ll be entering a new era of crane operations.

### Crane

#### General dimensions (with basic boom) Unit : mm

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (A-frame)</td>
<td>4000</td>
</tr>
<tr>
<td>Lift height</td>
<td>7500</td>
</tr>
<tr>
<td>Boom angle</td>
<td>30° – 80°</td>
</tr>
<tr>
<td>Load capacity (main)</td>
<td>45 T</td>
</tr>
<tr>
<td>Load capacity (jib)</td>
<td>4 T</td>
</tr>
</tbody>
</table>

#### Specifications

**Performance**
- Swing speed: 3.3 rpm
- Travel speed: 72.0/5.3 km/h (24X0.8 mph)
- Gradeability: 40% (Approx. 20°)

**Engine**
- Make: HINO MOTOR
- Model: H09C/4T (with turbo) diesel engine
- Fuel consumption: 2.72 L/h
- Rated output: 388 kW (1600 rpm)
- Fuel tank capacity: 240 L
- Battery: 12.3 V x 140 Ah x 2 pcs.

**Load hoist system (Main & Jib)**
- Hydraulic motor: Permanent displacement axial piston type
- Reduction gear: One-stage planetary gear and single-stage spur gear
- Host drum: Independent hydraulic motor driven, ring gear type with hydraulic grooved drum
- Clutch: Internal expanding band type
- Drum lock: Rachet lock
- Hydraulic pump: Variable displacement axial piston type
- Boom hoist system
  - Motor: Axial piston type
  - Reduction gear: Two-stage planetary gear
  - Host drum: Lotus grooved drum
  - Brake: Automatic spring - loaded hydraulically released type multi-disc
  - Drum lock: Rachet lock

**Load chart (Main & Jib)**

<table>
<thead>
<tr>
<th>Load (T)</th>
<th>Load (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>9040</td>
</tr>
<tr>
<td>15</td>
<td>13560</td>
</tr>
</tbody>
</table>

**Standard equipment**
- Instrument for crane
- Engine thermostat (low hour meter), Hydraulic oil pressure gauge for control circuit, Fuel level gauge
- Engine coolant thermo indicator (in instrument panel)
- Fuel gauge
- Defleter
- Spark arrester
- Dagging depth, Lift indicator (with bucket opening angle indicator)
- Electrical type level indicator
- Level vial
- Fire extinguisher
- Monitor TV (selecting rear, left and drum)
- Drum rotation roller (Main and Aux. drum)
- Clutch
- Catwalk
- Large size tool box (installed on car body)
- Third drum (with clutch and brake: type A)
- Third drum (automatic breaker: type B)
- Auxiliary winch for main rope
- Hydraulically power take-off (A Spec) 1300 kgm x 225 ft / min
- Hydraulically power take-off (B Spec) 210 kgr.m x 255 ft / min
- Anemometer (for lower crane)
- Airplane warning lamp
- Boom point clearance lamp
- Emergency stop button
- Work light on boom
- Work light for rear direction
- Rope guard for boom top surface
- 9 m, 6 m, 4 m, insert boom with pendant rope
- Cab protector
- Drum shell for bucket hook
- Inspection lamp
- Wire mesh walk way on boom back (outer and inner boom)
- Safety guard on boom back
- Ropes guide roller on boom back (additional)
- 9 m basic job boom, 3 m, 6 m, 4 m, insert boom with pendant rope
- Hammer and jack lift column (Standard) specification for Lu芬ing crane and crane widening boom
- Swing service brake
- Swing brake at neutral position
- 1 m, 6 m
- 45 ton hook block (3 sheaves)
- 35 ton hook block (3 sheaves)
- 25 ton hook block (3 sheaves)
- 15 ton hook block (1 sheave)
- 6.5 ton hook block (for 6)
- Air conditioner

**Optional equipment**
- Moment limiter (overload prevention)
- Warning of rated load
- Warning at optionally set boom angle, Shock wiper, Drop load and boom hoist or lowering in limited condition
- Moment indicator display on out side of cab
- Yellow rotary light
- Wireless phone
- Bell phone
- Combination type heater

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**CCH700 (including optional equipment)**

Lu芬ing Jib Crane
Independent In-Line Main & Auxiliary Winch Drums "double wing"

The identical main and auxiliary winch drums have the same width and are arranged in-line. This design makes them very easy to use, because they can be operated simultaneously and independently for any work situation. The ample space in front of the drums allows easy access for cable loading and other maintenance.

Strong Limiter with Graphic Display

The moment limiter has a graphic display with interactive screen. Using a panel switch, the operator can select from three display modes: loaded condition diagram, rated lifting curve, and rated lifting load table. In the case of overloading, the analog reading, boom angle, and other information appear in large graphic characters for easy reading. It is also possible to set the maximum and minimum boom angles. When the boom reaches either limit, the display blinks as a warning.

Powerful, High-Speed Winding Devices

The CCH700 has high line pull, and the clutches, brakes, and other structural and hydraulic components are tough, sturdy, and able to withstand continuous operation under even the toughest conditions. The four-speed drum has a maximum setting of 110 m/min., the highest in its class.

Two-Speed Traveling Mechanism with Shoe-In Type

The traveling mechanism is designed to be set within the width of the shoos, so there is no risk of damage to the traveling motors or reduction gears even when moving across uneven ground. And the two travelling speed settings allow the operator to select the best speed and power level for any ground condition.

New, Quiet Cab with Spacious 940-mm Width

The CCH700’s cab is built in low gravity design for good stability and balance while still providing a full 56° viewing range. Wide curved windows on both the top and bottom improve the view even more. There’s also a bronze tinted glass to diffuse sunlight and a side door to shut out external noise. The lever boxes are located in the optimal positions on both sides of the operator’s seat. In fact, the entire spacious interior has been designed for quiet, comfortable operation. In addition, the unique design and innovative coloring help the CCH700 blend in with its environment.

Smallest Transport Dimensions in its Class

The transport width of the CCH700 is 3200 mm, so it fits easily onto regular trailers. And since its transport height is only 3090 mm, the total height is less than 3800 mm when the crane is loaded on a 700 mm low-bed trailer.

Piled up Counterweight

Thanks to the Piled up counterweight, the crane can be assembled and disassembled safely and easily, and the transportation is much more efficient. The counterweight is in three blocks, so it can be carried in a 10-tonne truck.