

IHI



All Purpose Telescopic Crane

CCH 550 T

Concentrated know-how. Packed with power. The IHI CCH550T Telescopic Crane.

Longest telescopic boom. Powerful winch. Multi-direction wide view.
CCH550T offers a higher level of on-site usability.

Safe and Sure, CCH550T's 5 Major Features.

- 1** | 34.4m boom length for longest reach in its class. Telescopic boom for broad range of working possibilities.
- 2** | Minimal time and space requirements for on-site boom assembly and disassembly. Automatic attachment/detachment of counterweight also available (option).
- 3** | Speedy traveling and high all-round safety both realized. Sturdy, rugged construction of crawler provides stable travel.
- 4** | Dedicated IHI hydraulics system for independent operation of boom extension/contraction and erection. Assures smooth operation even when complicated mixed movements are required.
- 5** | Use of attachments such as vibro and auger is possible. Internal hydraulics makes it possible to operate a variety of equipment.



Usability that Goes Beyond. Agility that Moves Ahead. IHI Technology Conquers Your Foundation Work.

OPERABILITY



Complicated Operations Made Smooth and Simple

Boom extension/contraction and erection can be operated independently of other movements. Since extension/contraction and erection can be done simultaneously in a single combined movement, it's easy to precisely set up the positions of front attachments. Boom erection can be done using the control lever or left foot pedal so it's possible to combine with other complicated movements.

Minimal Fatigue Operating Position

Rotating lever is located close to the operator's seat so even long hours of operating can be done with much less fatigue. The engine throttle can be controlled using either the rotating grip on the lever or the right foot pedal so you can freely choose which according to your current task.

Operator's Seat with Wide View in Any Direction

The front side of the operator's cab features curved glass windows from top to bottom to ensure great visibility in all directions. Also by keeping the height of the engine room as low as possible, it's able to maintain a clear view to the rear and to the left of the operator's seat as well.

Comfortable Operator's Cab

The cab has a width of 940 mm, so you can operate in a quiet, spacious environment. External air intake type air conditioner compatible with HCFC alternative refrigerants is equipped as standard.

USABILITY

Class Leading Boom Length of 34.4 m

Taking advantage of the long reach that's tops in its class, as well as the telescopic boom's ability to freely extend/contract, this crane accommodates a wide variety of work situations.



Stable and Agile Footwork

Thanks to the robust crawler unit, you can count on quick and stable traveling on uneven terrain. Incorporates a spanner mechanism to enable a slim 3200mm width for easier transport. The compact body is among the smallest in its class, with a tail swing radius of 3780mm. It really shows its worth in tight construction spaces.



Powerful Winch Ready to Perform

Equipped with a powerful winch equivalent to a lattice boom crane. High-power design to handle digging jobs too. And since it's full horse power driven, engine output can be efficiently used.



Accommodates a Variety of Construction Methods

Standard-equipped with large capacity hydraulic PTO (24.5 – 15.7MPa/240 – 460L/min) capable of driving various different equipment, which can be removed from the end of the first boom. It can be used as the power source for vibro or auger for a wide range of applications. A high-performance third winch drum (option) with free fall can also be installed.



TRA

Advantages of

The freely expanded boom requires no boom reduced assembly helps to minimize transport so you Also there is no not in use.

Counterweigh

Using the mechanical can easily and p if there is no c using a pendar the operator can



Hatch Type La

A large hatch ty for the engine r the top and the space. The bod for easy assem



ad.

PORTABILITY

Telescopic Boom

Retracting/contracting telescopic boom
boom joint. This not only contributes to
assembly/disassembly time on site, but also
reduces the number of trucks needed to
transport, which greatly reduces set-up costs.
The telescopic boom also provides the
space needed for boom storage space while

Automatic Loading (option)

The automatic loading mechanism that's on the main body, you
can precisely load the counterweight even
when the crane is in operation. Operation is controlled
by a remote control, so you can safely load with visual confirmation.



Large Door

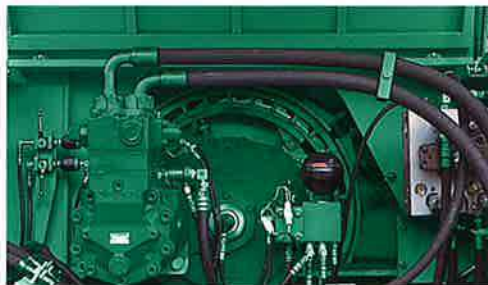
The large access door has been adopted
on the main body. This simultaneously opens up
the side to create a roomy maintenance
space. The door is equipped with a hanger piece
for easy assembly and disassembly.



SAFETY

Switching of Winch Brake

Switching of the Winch Brake mode (auto brake
mode / pedal activated mode) is done using the key
switch. To disable free fall, remove the key to assure
safety. Even when using free fall with the key
inserted, an interlock mechanism ensures that the
brake circuit is not released unless the operator
actually steps on the brake pedal. Safety is doubly
assured.



Moment Limiter to Advise Safe Lifting

- When the weight of hoisted cargo surpasses 90% of maximum load it sounds an alarm, and at 100% it automatically stops the crane.
- Digital display makes it easy to understand the operating status.
- Audible messages alert operational status (switchable to buzzer).
- Auto stop when transporting, disabling of alarm is done using key switch for safety.
- During foundation work, possible to select "Foundation Mode" only for the warning using the key switch.

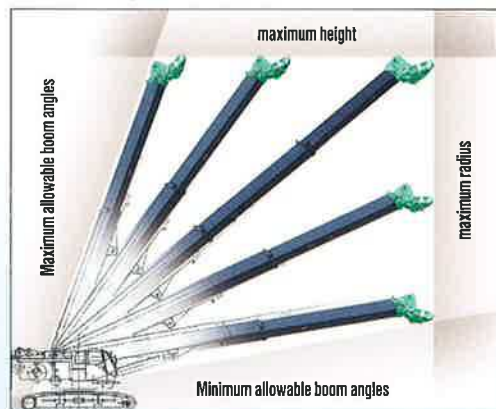


Alarm to Alert Those in the Vicinity

When the engine is turned on, during travel
operations and rotate operations, an alarm is
sounded to alert those around you. If unnecessary,
it's possible to choose the no-alarm mode. For travel
and rotate operations, you can switch to a buzzer
sound as well. The rotate flashers also help to visibly
alert people during rotate operations.

Work Area Setting Function (Adopted for Moment Limiter)

It's possible to set beforehand the maximum and
minimum allowable boom angles, as well as
maximum radius and maximum height. A warning is
sounded before these levels are surpassed, and the
crane automatically stops. (Warning-only setting is
also available.) Especially helpful in cases where
there are height limitations or obstacles.



Seat Lock Mechanism and Auto Operation Drum Lock

The Seat Lock mechanism senses when the
operator leaves the seat; when no weight is sensed
the limit switch automatically goes OFF and all
operations are stopped. The Drum Lock mechanism
automatically locks the drum when the engine starter
key is turned OFF, helping to eliminate any chance of
forgetting to lock the drum.

Eco-friendliness and safety

For a better work-site environment, the CCH550T is
designed to comply with low noise regulations for
construction equipment specified by Japanese
Ministry of Land, Infrastructure and Transport.



Max. boom length

34.4 meters

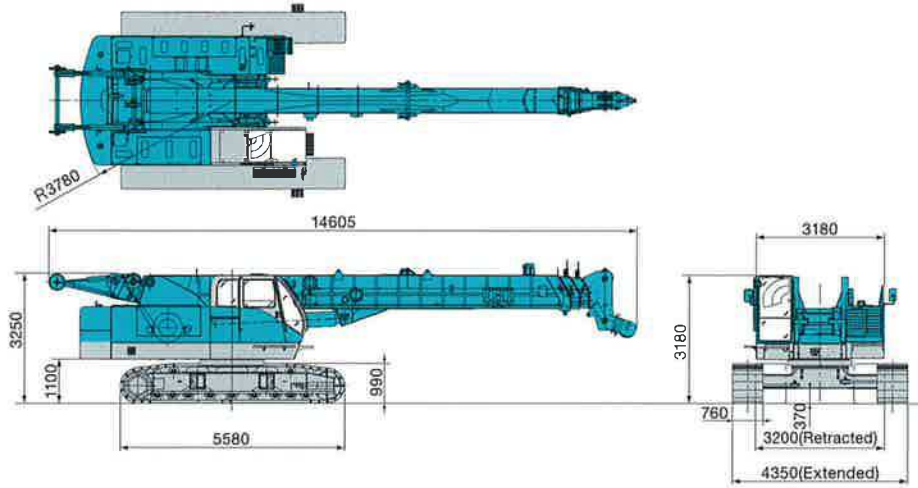
Max. lifting capacity

55 metric tons

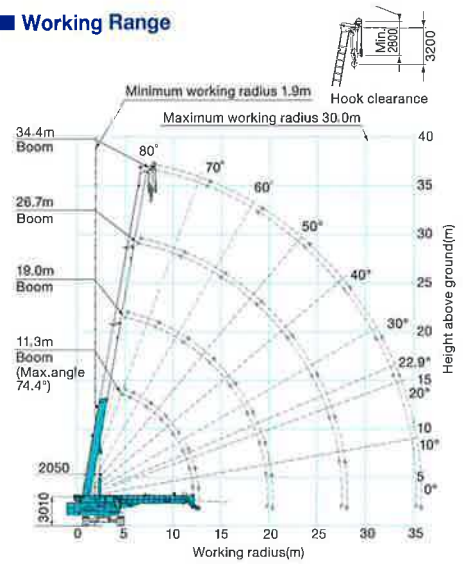
Equivalent to lattice boom crane

Powerful winch

■ Dimensions(Unit : mm)



■ Working Range



■ Crawlers extended (With 15.7 ton counterweight) Unit : t

Boom length(m)	11.3		19.0		26.7		34.4	
	Load	Boom angle	Load	Boom angle	Load	Boom angle	Load	Boom angle
1.9	55.00	74.4						
2.2	55.00	72.5	30.00	79.9				
3.0	55.00	68.4	30.00	77.5				
3.5	50.00	65.5	30.00	75.9	3.55m x 22.00	79.9		
4.0	46.40	62.6	30.00	74.3	22.00	79.0		
4.5	42.00	59.5	30.00	72.7	22.00	77.9		
5.0	36.35	56.4	30.00	71.1	22.00	76.7	4.9m x 12.00	79.9
5.5	30.85	53.1	30.00	69.5	5.9m x 22.00	74.7	12.00	78.9
6.0	26.65	49.6	26.60	67.8	21.70	74.5	12.00	78.1
6.5	23.35	45.9	23.35	66.2	20.35	73.4	12.00	77.2
7.0	20.60	41.9	20.65	64.5	18.95	72.2	12.00	76.3
8.0	15.80	32.4	16.60	61.0	16.15	69.9	8.7m x 12.00	73.4
9.0	11.40	17.8	13.75	57.4	13.75	67.6	11.65	72.9
10.0	9.25m x 10.30	0	11.55	53.6	11.55	65.2	10.45	71.1
12.0			8.50	45.3	8.50	60.3	8.45	67.5
14.0			6.40	35.3	6.40	55.1	6.85	63.8
16.0			4.85	21.3	4.95	49.5	5.55	60.0
18.0			16.95m x 4.10	0	3.70	43.4	4.55	56.0
20.0					2.70	36.4	3.55	51.7
22.0					1.85	27.9	2.70	47.3
24.0					1.15	14.9	2.00	42.4
26.0					24.65m x 0.95	0	1.45	37.0
28.0							0.95	30.8
30.0							0.55	22.9

■ Crawlers extended (No counterweight) [Special specification] Unit : t

Boom length(m)	11.3		19.0	
	Load	Boom angle	Load	Boom angle
3.0	25.00	68.4	20.00	77.5
3.5	25.00	65.5	20.00	75.9
4.0	21.40	62.6	20.00	74.3
4.5	16.75	59.5	16.65	72.7
5.0	13.60	56.4	13.50	71.1
5.5	11.30	53.1	11.20	69.5
6.0	9.55	49.6	9.45	67.8
6.5	8.20	45.9	8.10	66.2
7.0	7.10	41.9	7.00	64.5
8.0	5.40	32.4	5.35	61.0
9.0	4.20	17.8	4.15	57.4
10.0	9.25m x 3.95	0	3.20	53.6
12.0			10.90m x 2.45	50.0

Notes

- All rated loads are based on the machine being operated on a firm, level, uniformly supporting surface ground, at any point of 360° around the machine within 78% of tipping load and forward stability factor over 1.15.
- Working radius is the horizontal distance from the center of rotation to the vertical line through the center of gravity of the load.
- To determine lifting capacities, the weight of all lifting devices such as hooks must be reduced from the rated loads. When both main hook and auxiliary hook are attached, the weight of both hooks must be reduced.

55 ton hook	0.80 ton
30 ton hook	0.34 ton
15 ton hook	0.30 ton
6 ton hook	0.12 ton
- Depending on the number of part lines, rated loads are limited as follows.

1 part line	6.0 ton	6 part lines	33.0 ton
2 part lines	12.0 ton	7 part lines	38.5 ton
3 part lines	16.5 ton	8 part lines	44.0 ton
4 part lines	22.0 ton	9 part lines	49.5 ton
5 part lines	27.5 ton	10 part lines	55.0 ton
- The standard number of part lines for each boom length is as follows.

Boom length (m)	11.3	19.0	26.7	34.4	Top sheave
No. of part lines	10	6	4	4	1

■ Specifications

Main specification	
Slewing speed	2.4min ⁻¹ (2.4rpm)
Travel speed	2.0/1.4 km/h
Gradeability	40% (22°)
Lifting performance	
Max. lifting capacity x working radius	55t x 3.0m
Max. lifting height	33.0m
Rope speed (Main & Aux. drums)	100/70 m/min
Rated line pull	6.0 tf
Boom length	11.3 - 34.4m
Boom extension speed	125 sec.
Boom angle	-2° - 80°
Boom hoisting speed	60 sec.

Superstructure	
Drive system	Hydraulic
Hydraulic pump	3 axial piston pumps, 3 gear pumps
Counterweight	15.7t
Total operating weight	55.5t
Average ground bearing pressure	71kPa (0.72kgf/cm ²)
Engine	
Make	Hino Motors
Model	J08C-UD
Type	6-cylinder, water-cooled, turbocharged, direct fuel injection type diesel engine
Rated power output	175kw/2,100min ⁻¹
Displacement	7.961 lit.
Hydraulic power system	
Power take off	24.5Mpa (250kgf/cm ²) x 240L/min 15.7Mpa (160kgf/cm ²) x 460L/min [Optional] Max. 29.4Mpa (300kgf/cm ²)

- Please carefully read the manual before operating machines, and please use it correctly and safely.
- Photographs appearing in the catalog were taken for publication and may differ in some cases from actual objects. Specifications are subject to change without notice due to technical improvements or modifications.

IHI IHI Construction Machinery Limited

3174 Showa-machi, Kanazawa-ku, Yokohama, Kanagawa 236-8611 Japan
Tel: +81-(45)-276-1252 Fax: +81-(45)-276-2583



Distributed by