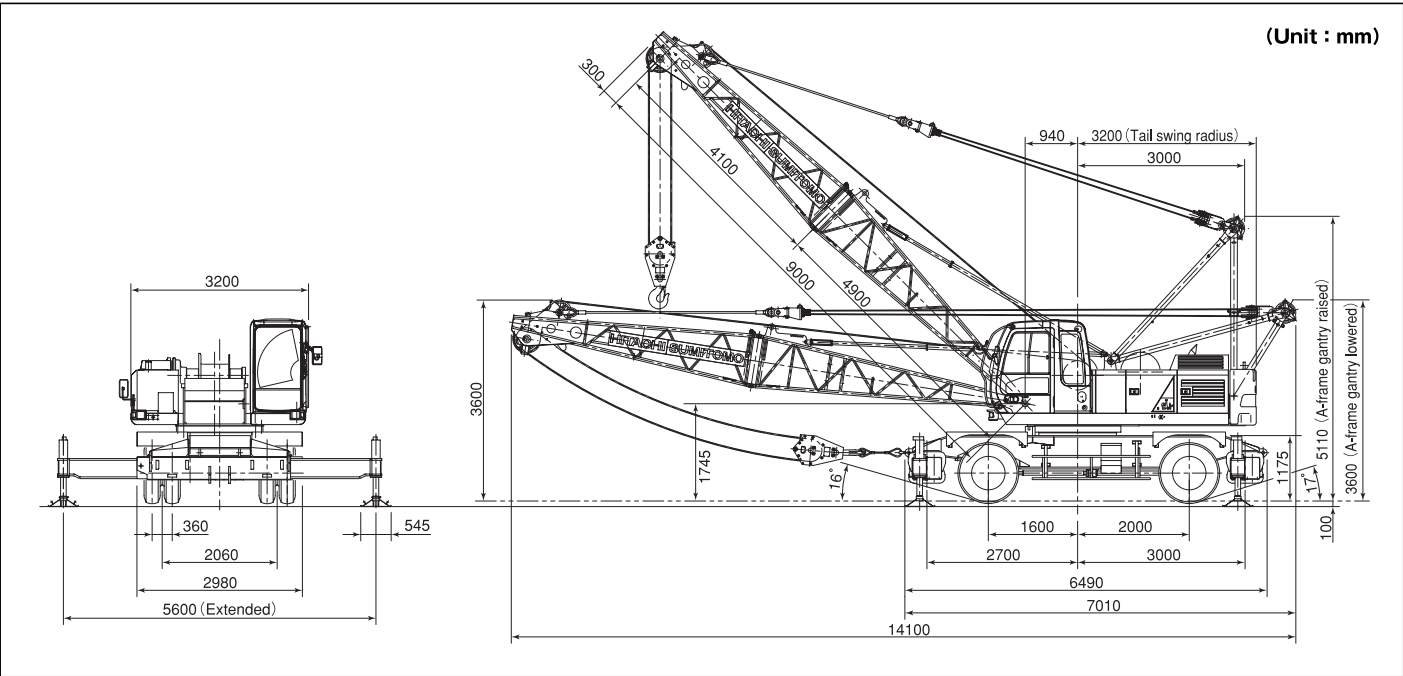


General dimensions



Specifications

Max. lifting capacity		t × m	30.0 × 3.0
Basic boom length		m	9.0
Max. boom length		m	24.0
Rope line speed (*1)	Main drum	m/min	105.0
	Boom hoist drum	m/min	57.0
Max. line pull	Main drum	kN (t)	107 (10.9)
	Boom hoist drum	kN (t)	87 (8.9)
Cable dia. - front / boom hoist drum		mm	20 / 16
Swing speed		min <sup>-1</sup> (rpm)	4.0 (4.0)
Undercarriage drive / steer system			4 × 4 × 2
Travel speed - high / low (*2)		km/h	2-stage;18.0 / 4.6
Turning radius (*3)		m	9.9
Wheel base		m	3.60
Tread - front / rear		m	2.06 / 2.06
Gradeability		% (°)	30 (16.7)
Outrigger extended width		m	5.6
Outrigger distance		m	5.7
Engine	Make & model	Isuzu AA-6BG1T	
	Rated output	kW/min <sup>-1</sup> (PS/rpm)	110 / 2100 (150 / 2100)
Axle loading (w/basic boom) - front / rear		t	Approx. 12.2 / 16.3
Operating weight		t	Approx. 28.5 (w/9.0m basic boom,30t hook block and 4t counterweight)

Notes : 1.These figures are based on drum first layer and rated engine rpm with no load, and vary under load and operating conditions(\*1).  
2.Travel speed is based on flat, level and firm supporting surface, and under the conditions that no load must be applied and front-end attachment must be 9.0m basic boom(\*2).  
3.The figure is at center of outer steering wheel (\*3).  
4.Unit in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one except the gradeability.

·We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.  
·Illustrations may include optional equipment and accessories, and may not include all standard equipment.

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HITACHI SUMITOMO

UCX300

The New World Standard  
**UCX300**  
Hydraulic Wheel Crane

Standard equipment

Superstructure:

- Hyd. system w/two each of VPs and GPs;
- Isuzu AA-6GB1TRA-07, 110kW@2,100rpm;
- Drum winch;
- Boom hoist mechanism w/A-frame gantry;
- Swing mechanism w/turntable bearing;
- Two universal joystick control levers;
- Tilttable steering wheel w/ORBITROL power steering control unit;
- All new stamped, automotive type operator's cab;
- A fully automative air-conditioner;

Undercarriage:

- 4x4x2 drive/steer chassis;
- Oscillating type front axle;
- Multiple wet-disc brakes on all wheels w/dual brake lines;
- Dual 11.00-20-16PR tire on front / rear wheels;
- "H" type hyd. outriggers w/545mm square pontoons;

Front-end att.:

- 9.0m basic boom;
- 30t hook block;
- 20mm dia. main crane hoist cable;
- 16mm dia. boom hoist cable;

Safety device:

- Load Moment Limiter;
- Hook over-hoist limiting device;
- Boom over-hoist limiting device;
- Front drum pawl lock;
- Boom hoist drum pawl lock;
- Swing lock;
- Boom backstops;
- Engine stop "T" knob;
- Boom angle indicator;
- Fool proof shut-off system;
- Level gauge;





# A SPECIALIZED 30TON WHEEL CRANE FOR QUAY SIDE WORKS...

Take a closer look. To give customers the best value, Hitachi Sumitomo UCX300 Wheel Crane was just developed as the most "user-friendly" crane as specialized for quay side lifting works under a good blending an accumulated techniques and job-proven innovation so far of two leading construction equipment manufacturers, Sumitomo & Hitachi. The UCX300 is fully hydraulically operated machine with a diesel-hydraulic power pack, and certainly realizes easy and smooth operation for all crane and travel motions more than ever. And, its operator's cab and outside view become refined, and it looks like a car.

## HIGHER PRODUCTIVITY

### A greater lifting capacities at widely used working ranges.

Although it is designed as a 30t nominal capacity, yet, at widely used working ranges, a greater lifting capacities are available, for the area with a 4-outrigger jacking point is 5.7m by 5.6m when outriggers are fully extended as larger than that of 40t class truck crane, and it is capable of a good lifting play with a room.

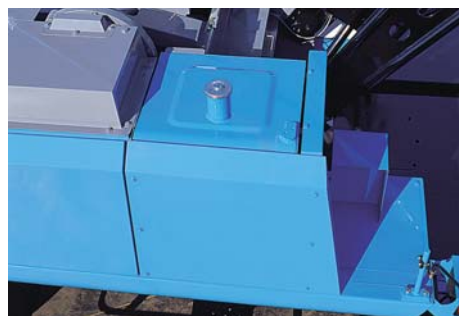


### Main winch drum designs an automatic brake.

For safety operation and operator comfort with less fatigue, a spring-applied, power hydraulically-released multiple wet-disc type automatic brake is designed on main winch drum, and its function applies automatically when control lever is at neutral position.

### A 360-liter fuel tank.

In a consideration of a general operation for around 3 days with no additional refuel, it is designed with a 360-liter fuel tank.



### An 110kW (150ps) high output engine.

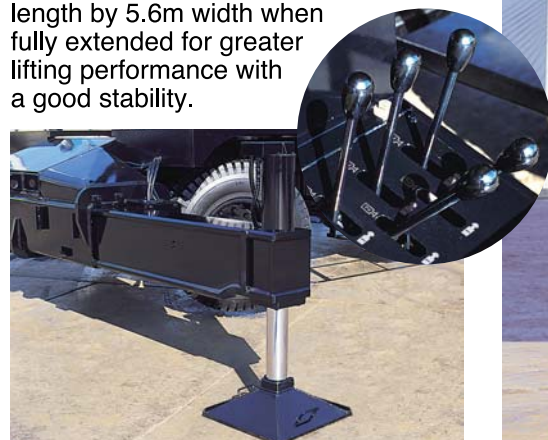
An Isuzu AA-6BG1T is provided, and its rated output is 110kW as high as good enough for the UCX300. The engine, of course, is a clean, and meets current emission regulations of stage/tier 2 of Europe, America and Japan.

### Fully hydraulically operated machine.

Thanks to the design with a diesel-hydraulic power pack with hydraulic motors for all motions, the UCX300 certainly realizes easy and smooth operation more than ever.

### "H" type hydraulic outrigger is standardized.

The outrigger is of course hydraulic type as standard for its easy set-up in shorter time, and its area is 5.7m length by 5.6m width when fully extended for greater lifting performance with a good stability.





**JOB-PROVEN  
 CONTROLLABILITY**

**OPERATOR  
 COMFORT**



**Universal joystick control levers.**

Two-universal joystick control lever is well designed for all crane motions, and accordingly it results in operator comfort with greatly reducing operator fatigue.



**A functional and simple layout of control station.**

To get a high efficient operation of all crane and travel motions, and to consider operator comfort, operator's cab is well designed with a good control station layout with two-functional joystick lever and simplified instrument panel. Further, steering wheel is with free-tiltable mechanism for a good operator comfort during travelling.



**Newly designed cab with increased visibility.**

Operator's cab is newly designed, and is all new stamped, acoustically treated, full-vision, full compartment, roomy cab with a light green-tinted large front glass plus functional layout of control station. Correspondingly, the operator comfort and visibility further improve very much. Aslo, the visibility thru rearward and right-hand sideward also gets better and accordingly, it results in easier check of rotation statusquo of winch(es).



**Reclining seat with arm rests.**

For operator comfort too, operator's seat is a full reclining type with a suspension mechanism and arm rest on both sides of the seat, and the seat is with cloth fabric.



**A fully automatic air-conditioner is designed as standard.**

For a further operator comfort, a fully automatic air-conditioner with LCD monitor panel is standardized too. On the other hand, this air-conditioner takes a substitute gas as cleaned for CFC gas.





#### Hydraulic oil filter maintenance ease.

For maintenance ease with no man-moving, any hydraulic filter is designed to get together at an inside part near right-hand machinery house door.



### RELIABLE MAINTENANCE

#### Long drum cable life design.

Main drum mechanism takes the design of a "26.2 D/d ratio" between diameters of drum and cable in spite of 20.0 as design standard, and "approx. 40m longer cable winding length" at each drum layer under 497mm drum width to prolong its cable life more than ever. On the other hand, a "29.1 D/d ratio" is taken on boom hoist drum design in the same consideration as that of main drum.

#### Service tools as good as satisfied.

In a daily and periodical maintenance ease, a service tool set is provided as std. as good enough more than before.

#### Fool proof shut-off system & engine monitoring panel.

To insure safety when the operator leaves the cab, a main hydraulic shut-off switch is located in the cab exit to deactivate and lock the hydraulic system. In addition, an engine monitoring panel is provided for engine present operation status check.



#### Load Moment Limiter becomes standard.

To get a high level of operation safety, Load Moment Limiter, a computerized automatic over-load preventing device, is provided as standard which gives operator necessary information like present lifting conditions and so on. Of course, the UCX300 is provided with any other conventional safety devices as follows:

- Hook over-hoist limiting device;
- Boom over-hoist limiting device;
- Front drum pawl lock;
- Boom hoist drum pawl lock;
- Swing lock;
- Boom backstops;
- Engine stop "T" knob;
- Boom angle indicator;
- Fool proof shut-off system;
- Level gauge;



### EXCELLENT MOBILITY

#### Undercarriage of 4×4×2 drive/steer.

A 4×4×2 4-wheel drive/2-wheel steer undercarriage is designed for the UCX300, and 4 wheels are always driven by a hydraulic motor whenever driving to get a strong travel.

#### Multiple wet-disc brake on all wheels.

The UCX300 takes the design of multiple wet-disc type brake on all of 4 wheels for more certain braking than ever. And, no maintenance is almost required unlike conventional brake with lining. And, brake units are each provided within the axle as integral, internal part of the axle.

