

# 17. MAJOR SPECIFICATIONS

## 1 URW094CE (4-section boom)

(Speed indicated in the table below is at oil temperature range of 45~55°C, operating with no-load, and at rated pump discharge.)

### Major specifications

<b>Model</b>		<b>URW094CE (4-section boom)</b>
Crane capacity (maximum lifting load)		0.995t × 1.5m (With outriggers extended fully)
Maximum lift above ground (Hook)		Approx. 5.6m
Boom to be extended to:		1.73m~3.01m~4.25m~5.49m
Maximum working radius		5.17m
Speed of winding-up (Rope speed)		17m/min (At 3rd layer on the drum)
Hoisting speed of hook		8.5m/min (At 3rd layer on the drum, with 2-part line hooking)
Extending speed of boom		3.76m/17sec
Raising speed of boom		0°~78°/6.5sec
Slewing speed		1.5rpm
Slewing range		360° (Continuous)
Hoisting rope	Construction	6 × Fi (29) GRADE B (Breaking load: 28.9kN{2950kgf})
	Diameter × length	7mm × 27m
Outrigger	Lateral	3-steps (with damper) for bend and 4-steps extension.
	Vertical	Double acting hydraulic cylinders with double pilot-operated check valves, direct pushing type. (Directly connected with hydraulic automatic lock device)
Hydraulic pump	Rated pressure	Crane: 20.6MPa(210kgf/cm <sup>2</sup> ) Crawl: 21.6MPa(220kgf/cm <sup>2</sup> )
	Rated discharge	Approx. 20 l/min
	Rated rotation	Approx. 1800rpm
Hydraulic oil tank capacity		17 liters

## MAJOR SPECIFICATIONS (URW094CE)

### Equipment and construction

Model	URW094CE (4-section boom)
Boom telescoping	Boom: 4-section, box beam
	Telescoped by direct pushing of hydraulic cylinder and by wire rope (With hydraulic automatic locking device) (2nd sections: sequential actuation, 3rd & 4th sections: simultaneous actuation)
Boom derricking	Direct pushing by hydraulic cylinder (With hydraulic automatic locking device)
Hoisting	Hydraulic motor: Axial plunger type
	Reduction gears: Worm-gear reduction
	Brake: Worm self-lock
Slewing	Hydraulic motor: Trochoid type (With hydraulic automatic locking device)
	Reduction gears: Worm-gear+Spur-gear reduction (Supported by ball bearings)
	Brake: Worm self-lock
Hydraulic pump	Variable delivery piston pump
Hooking capacity	0.98t Number of slinging rope: 2
Safety device	Pressure relief valve for hydraulic circuit
	Counterbalance valves for boom raising and boom telescoping cylinders
	Double pilot-operated check valves for outrigger cylinders
	Boom angle indicator with load indicator
	Hook safety latch
	Automatic stop for overwinding
	Overwinding alarm
	Automatic stop for leaving minimum wire rope
	Emergency stop button (Ignition cut)
	Interlock device of crane and crawling levers
	Interlock device of crane-crawl lever and outriggers
Level	
Weight	Approx. 1000kg

**Crawling device**

<b>Model</b>	<b>URW094CE (4-section boom)</b>
Crawling	Endless rubber crawler
Crawler	150×36×72
Length of ground contact	900mm
Pressure of ground contact	36.3kPa (0.37kgf/cm <sup>2</sup> )
Crawling speed	Forward/Backward: 0~2.2km/h
Hill-climbing ability	20°
Engine	Rated output 5.5kW (7.5PS)/1800rpm
Crawling	Independently driven by hydraulic power
Parking brake	Disc brake with hydraulic motor built-in
Starting engine	Electric starter
Fuel tank	Capacity: 6 liters

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## Chart of rated load

### RATED LOAD CHART

The mass of the hook(15kg),slings, and any accessories attached to the boom or loadline must be deducted from the rated loads in the chart.

BOOM SECTION	1				
WORKING RADIUS (m)	1.0	1.1	1.2	1.3	1.41
RATED LOAD (kg)	995	995	995	995	995
	OUTRIGGER MAX EXT.				
	800	800	750	700	650
	OUTRIGGER NOT MAX EXT.				

BOOM SECTION	1+2						
WORKING RADIUS (m)	1.0	1.1	1.3	1.5	2.0	2.5	2.69
RATED LOAD (kg)	995	995	995	995	800	650	580
	OUTRIGGER MAX EXT.						
	800	800	700	600	410	285	230
	OUTRIGGER NOT MAX EXT.						

BOOM SECTION	1+2+3							
WORKING RADIUS (m)	1.0	1.8	2.0	2.5	2.8	3.0	3.5	3.93
RATED LOAD (kg)	850	850	800	650	580	530	400	320
	OUTRIGGER MAX EXT.							
	500	500	410	285	215	190	145	115
	OUTRIGGER NOT MAX EXT.							

BOOM SECTION	1+2+3+4								
WORKING RADIUS (m)	2.4	2.5	2.8	3.0	3.5	4.0	4.5	5.1	5.17
RATED LOAD (kg)	660	660	580	530	410	330	270	210	200
	OUTRIGGER MAX EXT.								
	360	320	220	190	145	105	80	65	65
	OUTRIGGER NOT MAX EXT.								



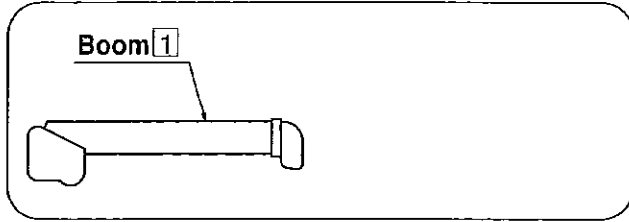
### CAUTION

### RATED LOAD

- The rated load is performance when the crane is placed level and is based on an actual operating radius including boom deflection under load. The rated load is also based on strength and stability of the crane.
- Maximum extension of an outrigger is a condition in which the inner box is extended to the maximum extension position and a swing lock pin of the outrigger arm is inserted into "MAX EXT." position. In other conditions than the above, operate with performance of not maximum extension.
- If any one of the four outriggers is not fully extended, operate with performance of not maximum extension.
- Improper set-up of the outriggers may cause the crane to turn over. Place the outriggers on a firm and level surface with maximum extension. Make sure, then, that lock pins are securely inserted.
- The boom [1+2+3] is a condition in which the boom [3] is extended to the mark.
- Operate with performance of [1+2+3] when the boom [3] is extended even if only a little; and performance of [1+2+3+4] when the mark on the side plate of the boom [3] moves away from the boom [2] even if only a little.

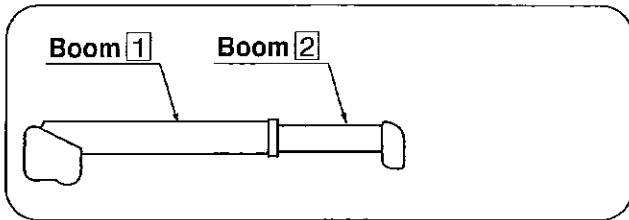
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● **How boom-sections are extended**



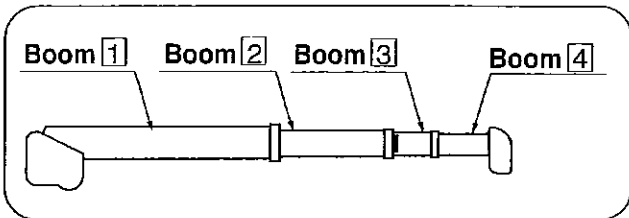
Boom : **1**

All boom sections are retracted.



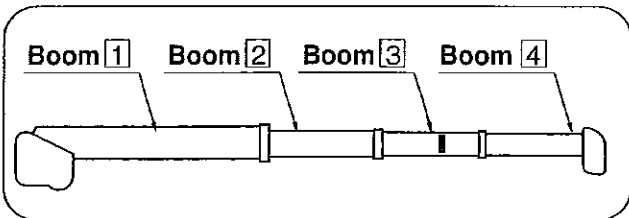
Boom : **1+2** or **2**

Boom section(2) only is extended.



Boom : **1+2+3** or **3**

Boom sections (3) is extended to the mark ■.



Boom : **1+2+3+4** or **4**

Boom section (2), (3) and (4) are fully extended.