SPECIFICATIONS

SPEC. No. CS-1040 DATE APR. 2008

SPECIFICATIONS HYDRAULIC CRANE FOR MARINE USE

MODEL:UNIC UBV504J

Specifications subject to change without notice.

FURUKAWA UNIC CORPORATION EXPORT TECHNICAL DEPT TOKYO JAPAN

UNIC CRANE PERFORMANCE MODEL : UBV504J

CRANE CAPACITY:

LIFTING CAPACITY	: Max. 3030kg at 4.1m		
HOOK HEIGHT ABOVE CRANE INSTALLATION BASE LEVEL	: Max. 11.2m		
WORKING RADIUS	: Min 0.49m, Max. 10.60m		
BOOM:	Four-section box beam type telescoping boom		
Boom Length Retracted boom; Extended boom; Boom Extending Speed; Boom Raising Speed;	3.57m 10.84m 7.27m / 21.5 s 1° to 81° / 12.5 s		
WINCH:	Hydraulic motor driven, spur gear reduction, with automatic mechanical brake.		
Single Line Pull; Hoisting Speed Single line speed; Hook speed; Hook Block; Wire Rope Construction (JIS); Diameter x Length; Breaking strength;	7.35kN {750kgf} 68.0m / min at 3rd layer 17.0m / min at 3rd layer with 4-part line 3000kg capacity, 2 sheaves with safety latch IWRC 6 x Fi(29) Galvanized GRADE B 8mm x 68m 43.3kN {4420kgf}		
<u>SLEWING:</u>	Hydraulic motor driven, worm gear reduction, worm self-locking brake		
Slewing Range; Slewing Speed;	360° continuous rotation on a ball bearing race 2.5 rpm		
SAFETY DEVICES:	 Pressure relief valve for hydraulic circuit Counterbalance valves for boom raising and boom telescoping cylinders Boom angle indicator with load indicator Automatic mechanical brake for winch Load meter Overwinding alarm Hook safety latch 		

RUST PREVENTION:

Inner and outer surfaces of structural parts : Zinc coating (excepting cylinders) Raising Cylinder rod : Hard chromium coating with double layers Gear cases for slewing : Zinc coating Raising Cylinder pipe : Stainless steel Couplings : Stainless steel Wire ropes : Coated type Miscellaneous parts : GEOMET finish, and other coatings Painting : With special rust prevention paint

CONTROL VALVES:

4-valve interlocking type (with stainless steel lever) Mount the valve and lay piping by matching the actual valve dimensions.Take the hydraulic power source (pump, tank) out of the ship. (Prepare necessary pipes as they are not included in the valve.)

HYDRAULIC SYSTEM:

Engine

Engine with accelerator

Hydraulic Pump Rated pressure; Rated delivery;

20.6MPa {210kgf/cm²} 60 *ℓ*/min.

Hydraulic Valves Control valve;

> Pressure relief valve setting; Counterbalance valve;

Hydraulic Actuators Hydraulic motors;

Hydraulic cylinders;

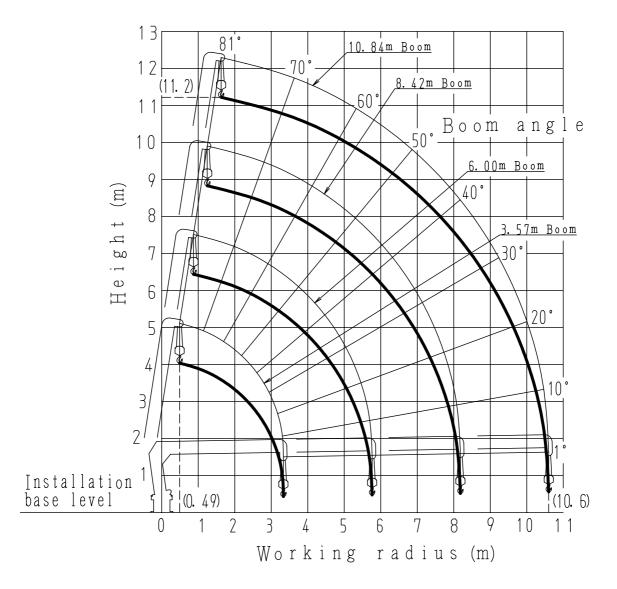
Multiple control valve, spring centered, spool-type, with pressure relief valve

20.6MPa {210kgf/cm²} Boom raising and boom telescoping cylinders

Hoisting: Axial plunger type Slewing: Axial plunger type Double acting type 1 x Boom raising cylinder 2 x Boom telescoping cylinder

Note: When an electric motor drive system which regulates pump delivery constant is employed, set the rated delivery at a level less than 40 ℓ /min.

Note: The figures in relation to the speed are on the basis of no-load running at rated oil flow condition.



Note: The above figures are based on no-load condition and do not include the deflection of the boom.

Unit : kg

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Working	Boom length				
Radius (m)	3.57m	6.00m	8.42m	10.84m	
3.0	3030	3030	3030		
3.5	(3.33) 3030	3030	3030	2030	
4.1		3030	3030	2030	
4.5		2580	2580	2030	
5.0		2280	2280	1830	
5.5		1930	1930	1650	
6.0		(5.76) 1800	1730	1480	
6.5			1530	1340	
7.0			1400	1230	
7.5			1280	1140	
8.0			(8.18) 1130	1080	
9.0				980	
10.0				850	
10.6				830	
(): Working radius					

Note :

- 1. The table shows actual working radius including a possible boom deflection with a load applied when the crane has been installed horizontally.
- 2. Rated load is based only on the suspending strength of the crane and stability of the crane mounted ship is not considered. Therefore, operate the crane while paying utmost attention to the stability of the ship.
- 3. The mass of hook(30kg), slings, and any accessories attached to the boom or loadline must be deducted from the above rated load in the chart.
- 4. In accordance with our policy of constant product improvement, all specifications are subject to change without notice or obligations.

