

SPECIFICATIONS

SPEC. No. CT-2439
DATE-JAN. 2013

SPECIFICATIONS HYDRAULIC CRANE

**MODEL:UNIC URV554K-TH
(FOR THAILAND)**

Specifications subject to change without notice.

FURUKAWA UNIC CORPORATION

*EXPORT TECHNICAL DEPT
TOKYO JAPAN*

UNIC CRANE PERFORMANCE
MODEL : URV554K-TH

CRANE CAPACITY:

LIFTING CAPACITY	: Max. 5050kg at 2.5m
HOOK HEIGHT	
ABOVE GROUND LEVEL	: Max. 12.7m
BELOW GROUND LEVEL	: Max. 12.5m with 4-part line
WORKING RADIUS	: Min 0.7m, Max. 10.63m

BOOM: Four-section box beam type telescoping boom

Boom Length	
Retracted boom;	3.6m
Extended boom;	10.87m
Boom Extending Speed;	7.27m / 21.5 s
Boom Raising Speed;	1° to 78° / 12 s

WINCH: Hydraulic motor driven, spur gear reduction, with automatic mechanical brake.

Single Line Pull;	12.25kN {1250kgf}
Hoisting Speed	
Single line speed;	69.6m / min at 4th layer
Hook speed;	17.4m / min at 4th layer with 4-part line
Hook Block;	5000kg capacity, 2 sheaves with safety latch
Wire Rope	
Construction (JIS);	IWRC 6 X Fi(29)
Diameter X Length;	10mm X 69m
Breaking strength;	78.4kN {8000kgf}

SLEWING: Hydraulic motor driven, worm gear reduction, worm self-locking brake

Slewing Range;	360° continuous rotation on a ball bearing race
Slewing Speed;	2.5 rpm

OUTRIGGERS:

Vertical Jacks;	Vertical jacks and horizontal beams
Horizontal Beams;	Double acting hydraulic cylinders with pilot-operated check valves Manual extension type
Outrigger Span	
Retracted;	2.19m
Extended;	3.8m
Mid-extended;	3.0m

HYDRAULIC SYSTEM:

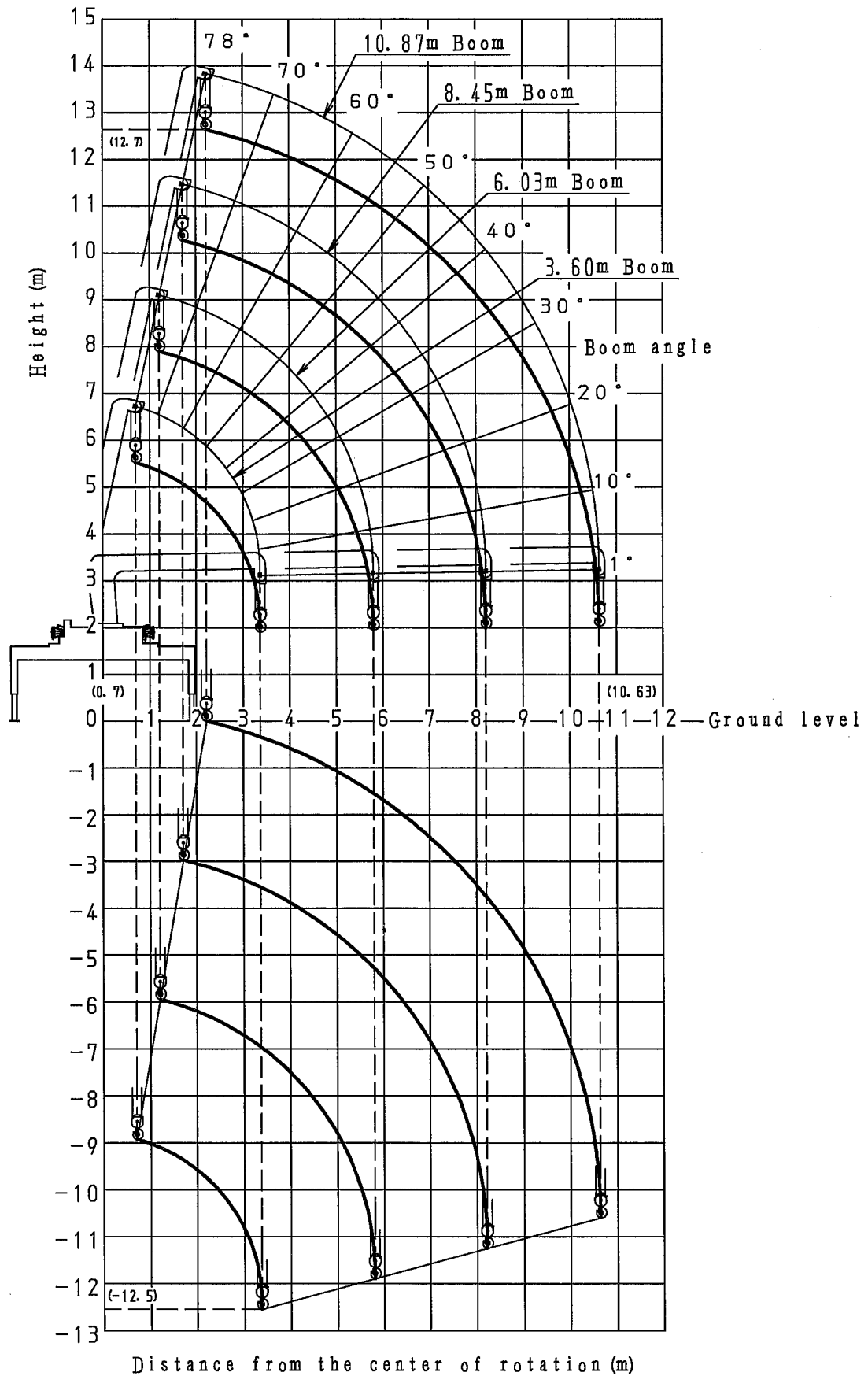
Hydraulic Pump	
Type;	Gear type
Rated pressure;	20.6MPa {210kgf/cm ² }
Rated delivery;	60 ℓ/min.
Rated revolution;	1400rpm
Hydraulic Valves	
Control valve;	Multiple control valve, spring centered, spool-type, with pressure relief valve
Pressure relief valve setting;	20.6MPa {210kgf/cm ² }
Counterbalance valve;	Boom raising and boom telescoping cylinders
Pilot-operated check valve;	Outrigger cylinders
Hydraulic Actuators	
Hydraulic motors;	Hoisting: Axial plunger type Slewing: Axial plunger type
Hydraulic cylinders;	Double acting type 1 X Boom raising cylinder 2 X Boom telescoping cylinder 2 X Outrigger cylinder
Oil Tank;	59 ℓ capacity

SAFETY DEVICES:

1. Pressure relief valve for hydraulic circuit
2. Counterbalance valves for boom raising and boom telescoping cylinders
3. Pilot-operated check valves for vertical outrigger cylinders
4. Boom angle indicator with load indicator
5. Hook safety latch
6. Automatic mechanical brake for winch
7. Loadmeter
8. Level
9. Overwinding alarm
10. Warning horn
11. Automatic lock mechanism for slewing
12. Automatic stop for overwinding

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

WORKING RANGE:



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

RATED LOADS:

Unit : kg

Working Radius (m)	Boom length			
	3.60m	6.03m	8.45m	10.87m
2.5	5050	4050		
3.0	4050	4050	3050	
3.5	(3.36) 3500	3350	3050	2050
4.0		2950	2950	2050
4.5		2600	2600	2050
5.0		2300	2300	1850
5.5		1950	1950	1650
6.0		(5.79) 1900	1750	1500
6.5			1550	1350
7.0			1400	1250
7.5			1300	1150
8.0			(8.21) 1150	1100
9.0				1000
10.0				850
10.63				800

() : Working radius

CAUTION

1. Fully extend all outriggers on solid, level surface leveling vehicle.
2. Rated loads shown in the chart are based on the crane strength rather than stability.
3. Rated loads shown must be reduced in accordance with vehicle weight, loaded condition of truck, crane mounting position, wind, ground condition and operating speed.
4. The mass of hook (50kg), slings, and any accessories attached to the boom or loadline must be deducted from the above rated loads in the chart.
5. In accordance with our policy of constant product improvement, all specifications are subject to change without notice or obligations.

TITLE

UNIC HYDRAULIC CRANE
FOR THAILAND : REAR BOOM

SCALE
1/20

UNIT
mm

DATE
JAN. 2013

MODEL

URV554K-TH

DRN
N. SAKAI

CKD
T. KITANI

APPD
J. KANAZAWA

DRAWING NO. B-528470

FURUKAWA UNIC CORP.

