

Model TK750

TELESCOPIC CRAWLER CRANE

Max. Lifting Capacity: 75t × 3.0m Comply with Japanese Construction Codes for Mobile Cranes.

■GENERAL SPECIFICATION

Model			TK750		
Weight					
Operating weight		t	74.8		
Ground pressure kPa{kgf/cm ² }		kPa{kgf/cm ² }	89.4{0.91}		
Crane Performan					
Max. rated load 9.99m boom tx		t×m	75.0x3.0 (8-lines)		
	16.7m boom	t×m	36.0×4.5 (4-lines)		
	23.4m boom	t×m	29.0×6.0 (3-lines)		
	30.1m boom	t×m	18.5×8.0 (2-lines)		
	Aux. sheave (max.)	t×m	11.0 (1-line)		
Main boom length	(/	m	9.99~30.1		
Main hook max. h		m	30.4		
Main hook max. o	0	m	27.8		
Line speed	Main	m/min	125 (at 1st layer)		
Enio opood	Aux.	m/min	125 (at 1st layer)		
	Third	m/min	125 (at 1st layer)		
Rated line pull	Main	kN{tf}	107.9{11.0}		
atod into pair	Aux.	kN{tf}	107.9{11.0}		
	Third	kN{tf}	107.9{11.0}		
Max. line pull	Main	kN{tf}	208{21.2}		
(Referential performance)	Aux.	kN{tf}	208{21.2}		
(noronata ponormanoo)	Third	kN{tf}	208[21.2]		
Boom telescoping		sec/m	125/20.1		
Boom raising spe		sec/degree	64/0~83		
Swing speed min ⁻¹ {rpm}			2.5{2.5}		
Boom Structure			2.0(2.0)		
Main boom			Four section, box construction, 2nd and 3rd simultaneously		
Main boom			telescoping, 4th independently telescoping		
Boom hoist device			Direct forced type by double acting hydraulic cylinder (one)		
Boom telescoping device			Direct forced type by double acting hydraulic cylinder (three)		
Load hoist device			Hydraulic motor drive with spur gear reduction with auto-brake,		
Load Hoist device			independent 2 winches, with free-fall function, third winch		
Swing device			Hydraulic drive motor with planetary gear reduction with		
owing device			hand brake, swing neutral-free or neutral-brake selector type		
Wire Rope			hand brake, swing neutral-nee of neutral-brake selector type		
Main winch		mm×m	26dia.×110 IWRC6×Fi (29) anti twist rope		
Aux, winch		mm×m	26dia.×110 IWRC6×Fi (29) anti twist rope		
Third winch		mm×m	26dia.×110 IWRC6×FI (29) anti twist rope 26dia.×125 IWRC6×Fi (29) anti twist rope		
Hydraulic Device	<u> </u>	minam	4-pumps (2 variable plunger pumps + 2 gear pumps)		
Tryutaulic Device			+ 4-pumps (2 variable plunger pumps + 2 gear pumps) + 4-pumps (2 variable plunger pumps + 2 gear pumps)		
Hydraulic oil tank l		l	+ 4-pumps (2 variable plunger pumps + 2 gear pumps) 860		
Upper Structure		Ł	000		
Engine	Model		MITSUBISHI 6D24-TLE2A		
Ligine	Туре		Water cooled, 4 cycle, 6 cyls, direct injection diesel with		
	туре		turbocharger, intercooler		
	Total displacement	l	11.945		
			235/2,000{320/2,000}		
	Max. output kW/min ⁻¹ {PS/rpm} Max. torgue N·m/min ⁻¹ {kgf·m/rpm}				
Fuel tank	Max. LOI YUE IN III/IIIII	رم المراجع المراجع	400		
Lower Structure		Ł	+00		
Propel system			Hydraulic motors, planetary reducer, direct drive, shoe-in-type		
Travel speed		km/h	Hydraulic motors, planetary reducer, direct drive, shoe-in-ty 1.9/1.2		
			40		
Gradeability %		70	40		

Units are SI units. { } indicates conventional units.



► LIFTING CAPACITY

Note

(1)Rated load do not exceed 78% of the tipping loads with machine set horizontally on a firm and level ground, safety the specified stability over the front, and include weight of hook block (s) and other handling accessories.

Ratings shown in **____** are based on the machine's structural strength, and others are determined by the machine's stability.

Hooks	75-ton	50-ton	32-ton	11-ton	11-ton (light)
Weight	950kg	860kg	550kg	300kg	100kg

Note : 11-ton light swivel ball hook is option.

- (2)Rated loads shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level. Operating speeds or any other condition that could be detrimental to the safe operation of this equipment, the operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- (3)Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load. Operating radius given in the charts allow for loaded boom delfection and reduce lifted loads and operating speeds accordingly.
- (4)Both crawlers should be fully extended.
- (5)The ratings of the auxiliary sheave are the same as the main boom ratings, but should not exceed 11,000kg. Ratings of the auxiliary sheave are calculated by deducting from the main boom ratings 75 ton hook weight (950kg) with the main boom extended ranging from 9.99m to 16.7m, and 50 ton hook weight (860kg) with the main boom extended over 16.7m up to its maximum length.

- (6)The main boom ratings shall be applied to the third drum ratings, but the jib ratings shall not exceed 11,000kg.
- (7)To determine load ratings that fall between those shown in the charts, proceed as follows :

a) For boom lengths not listed use rating for next longer boom length or next shorter boom length, whichever is smaller.

b) For load radii not shown, use rating for next larger radius.

(8)At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

(9)Standard hoist reevings are shown below. Rated single-line pull must not exceed 11,000kg.

Boom length	9.99m	16.7m	23.4m	30.1m
Hook	75-ton		50-ton/32-ton	
No. of reeving	8	4	3	2

(10)Third drum hoist reevings are shown below. Rated single-line pull must not exceed 11,000kg.

Boom length	9.99m	16.7m	23.4m	30.1m
Hook	75-ton		50-ton/32-ton	
No. of reeving	8	4	3	2

(11)In order to prevent a load from falling down to mistake of operation, do not use free-fall in crane operation.

With 17.2 ton counterweight

(Unit : metric ton) Boom length Boom length Working radius (m) 9.99 16.7 23.4 30.1 Working radius (m) (m) (m) 3.0 3.5 36.00 29.00 1850 75.00 3.0 3.5 1850 60.00 36.00 29 00 3.7 56.00 36.00 29.00 1850 3.7 4.0 51.00 36.00 29.00 18.50 4.0 29.00 18.50 4.5 4.5 44.50 36.00 5.0 39.50 35.00 29.00 18.50 5.0 5.5 36.00 33.00 29.00 18.50 5.5 6.0 34.40 29.00 18.50 6.0 30.70 31.40 29.80 6.5 1850 6.5 2610 7.0 7.0 28.90 27.20 1850 23.20 7.5 7.7 21.60 7.5 26.30 25.10 18.50 25.10 24.40 20.90 18.50 8.0 8.0 23.30 20.00 18.50 85 85 21.20 19.00 17009.0 90 19.40 18.10 15.50 9.5 17.90 17.00 14.50 9.5 10.0 16.50 16.30 13.50 10.0 12.80 14.20 14.10 11.0 11.0 12.0 13.0 12.0 12.40 12.30 11.80 13.0 11.00 10.80 11.00 14.0 14.0 9.70 9.50 9.90 14.4 9.30 9.10 9.50 14.4 15.0 15.0 8 50 9 00 16.0 17.0 16.0 7.60 8.20 17.0 6.60 7.40 6.70 18.0 18.0 6.20 6.10 5.60 19.0 19.020.0 5.00 5.50 20.0 21.0 4.60 5.10 21.0 21.1 22.0 4.50 5.00 21.1 22.0 4.60 23.0 4.20 23.0 24.0 3.90 24.0 25.0 3.50 25.0 26.0 3.20 26.0 27.0 27.0 2.90 2.70 82.1° 27.8 27.8 75 F 79 E 65.C Max. boom angle Max. boom angle Min. boom angle 0° 0 0° 0° Min. boom angle

Ratings shown in _____ are determined by the strength of the boom or other structural components.

With 8.2 ton counterweight (optional setting)

(Unit : metric ton)

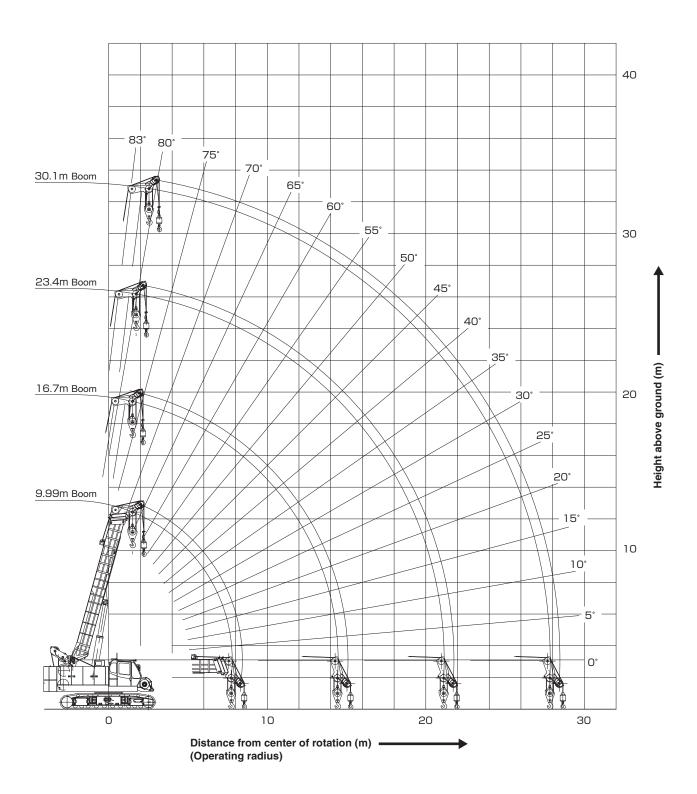
Boom length Working (m)	9.99	16.7	23.4	30.1	Boom length (m) Working
radius (m)					(m) radius (m
3.0	75.00	36.00	29.00	18.50	3.0
3.5	60.00	36.00	29.00	18.50	3.5
3.7	56.00	36.00	29.00	18.50	3.7
4.0	51.00	36.00	29.00	18.50	4.0
4.5	44.50	36.00	29.00	18.50	4.5
5.0	37.20	35.00	29.00	18.50	5.0
5.5	31.30	30.90	29.00	18.50	5.5
6.0	26.90	26.50	26.25	18.50	6.0
6.5	23.50	23.10	22.85	18.50	6.5
7.0	20.75	20.35	20.10	18.50	7.0
7.5	18.55	18.10	17.85	18.50	7.5
7.7	17.75	17.35	17.15	18.50	7.7
8.0		16.30	16.05	16.75	8.0
8.5		14.75	14.50	15.15	8.5
9.0		13.40	13.15	13.80	9.0
9.5		12.25	12.00	12.65	9.5
10.0		11.20	11.00	11.65	10.0
11.0		9.55	9.30	9.95	11.0
12.0		8.20	8.00	8.55	12.0
13.0		7.10	6.90	7.45	13.0
14.0		6.20	5.95	6.55	14.0
14.4		5.90	5.65	6.20	14.4
15.0		0.00	5.20	5.75	15.0
16.0			4.55	5.10	16.0
17.0			4.00	4.50	17.0
18.0			3.50	4.00	18.0
19.0			2.95	3.55	19.0
20.0			2.55	3.15	20.0
21.0			2.15	2.75	21.0
21.1			2.10	2.70	21.1
22.0			L.10	2.40	22.0
23.0				2.05	23.0
24.0				1.75	24.0
25.0				1.50	25.0
26.0				1.25	26.0
Max. boom angle	65.0°	75.6°	79.8°	82.1°	Max. boom angle
Min. boom angle	0°	75.0 0°	/ 9.0 0°	22.4°	Min. boom angle
Min. Doom angle	U	0	are determined by the		

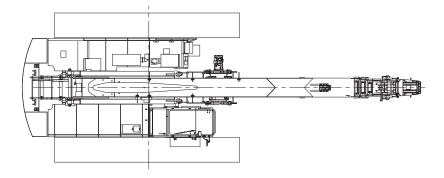
Ratings shown in _____ are determined by the strength of the boom or other structural components.

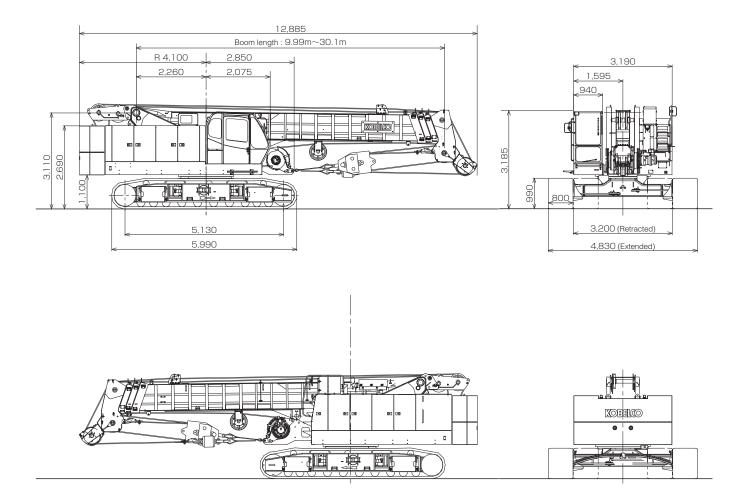
➡ Without counterweight (optional setting)

(Unit : metric ton)

Boom length Working (m) radius (m)	9.99	16.7	Boom length (m) Working radius (m)
3.0	30.00	20.00	3.0
3.5	30.00	20.00	3.5
3.7	30.00	20.00	3.7
4.0	30.00	20.00	4.0
4.5	30.00	20.00	4.5
5.0	24.50	20.00	5.0
5.5	20.45	20.00	5.5
6.0	17.45	17.05	6.0
6.5	15.10	14.75	6.5
7.0	13.25	12.90	7.0
7.5	11.75	11.35	7.5
7.7	11.20	10.80	7.7
8.0		10.10	8.0
8.5		9.05	8.5
9.0		8.10	9.0
9.5		7.35	9.5
10.0		6.65	10.0
11.0		5.50	11.0
12.0		4.60	12.0
13.0		3.85	13.0
14.0		3.25	14.0
14.4		3.05	14.4
Max. boom angle	65.0°	75.6°	Max. boom angle
Min. boom angle	O°	O°	Min. boom angle







STANDARD EQUIPMENT

Upper Structure/Lower Structure	Safety Device
Third drum : wire rope 26dia. x 125m, with free-fall	Over-load prevention device (auto stop function)
Counterweight : 17.2t (9.0t + 8.2t)	Release prevention key for hook over-hoist prevention device
Crawlerweight : 2.0t (0.5t x 4)	LCD Multi-display (shows gauges and warning signs)
800mm shoe crawlers	Hook over-hoist auto-stop device
165G51 battery	Operating zone limit device
Electric hand throttle grip	Safety lever lock
Variable main/aux. speed controller	Propel lever lock
Side deck (for cab) : 300mm (W) x 970mm (L)	Manual drum safety pawl (main, aux.)
Anti-slip sheet	Negative brake in lever neutral-position (main, aux., third, travel)
Tools (for routine maintenance)	Brake fail safe mechanism (main, aux., third, travel)
Lubrication device	Service brake pedal lock (main, aux.)
Tool box (equipped on right-side guard)	Lamp for neutral-free/brake select switch (main, aux.)
Three front working lights	Neutral-free/brake select switch (main, aux.)
Two back mirrors	Neutral brake release prevention key (main, aux.)
Cab	Brake activating device for engine stop
Air conditioner	Hydraulically safety valve
Convenient compartment	Boom telescoping default operation prevention device (Automatic)
Cup holder	Boom telescoping safety device
AM/FM Radio	Boom hoist safety device
Ashtray	Over hook limit device
Cigarette lighter	Sling wire lock
Intermittent windshield wiper with window washer (roof, front and lower front window)	Horn
Sun visor	Swing lock pin
Roof blind	Swing flashers
Tinted glass	Swing warning buzzer
Floor mat (cloth)	Voice alarm for travel/swing (over hoist, over load, crawler extension)
Foot pedal cover (rubber)	Level gauge
Shoe tray	

▶OPTIONAL EQUIPMENT

4-spool valve : Max. discharge pressure 17.2MPa{175kgf/cm ² }	
Max. discharge flow 40liters/min	
Outlet for Auger : Max. output 145kW{200PS}	
Max. discharge pressure 30.0MPa{305kgf/cm ² }	
Max. discharge flow 425liters/min (with oil flow select swite	ch)
Hydraulic tagline : 10dia. x 45m	
Lifting capacity set : insert counterweight/without counterweight	
Swing neutral brake : cannot select swing neutral free	
11-ton light swivel ball hook : 100kg	
Counterweight self-removal device	
Trans-lifter	
Foot acceleration : right hand	

Boom hoist pedal : right hand (not available to equipt with foot acceleration)
Engine rpm fix switch : 4-steps
Cab roof guard
Side catwalk (without handrail) : 300mm (W) x 3,710mm (L)-right hand/4,090mm (L)-left hand
Color monitoring camera (backward) with monitor
Monitoring camera for main/aux. with lightning
Overload alarm lamp (3 colors, square shape)
One way call
Electric fuel pump
Fire extinguisher
Electric fan

Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice. Copyright by KOBELCO CRANES CO., LTD. No part of this catalog may be reproduced in any manner without notice.

KOBELCO CRANES CO., LTD.

17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN Tel: +81-3-5789-2130 Fax: +81-3-5789-3372 URL: http://www.kobelco-cranes.com/

Inquiries To: