



DOENEDAL ODEOLEIOATION

▶GENERAL SPECIFICATION

Model			TK750		
Weight					
Operating weight		t	74.8		
Ground pressure		kPa{kgf/cm²}	89.4{0.91}		
Crane Performan	ice				
Max. rated load	9.99m boom	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	1	m	9.99~30.1		
Main hook max. h			30.4		
Main hook max. o		m	27.8		
Line speed	Main	m/min	125 (at 1st layer)		
	Aux.	m/min	125 (at 1st layer)		
	Third	m/min	125 (at 1st layer)		
Rated line pull	Main	kN{tf}	107.9{11.0}		
	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}		
(Holoroman portomanos)	Third	kN{tf}	208{21.2}		
Boom telescoping		sec/m	125/20.1		
Boom raising sper	<u> </u>	sec/degree	64/0~83		
Swing speed	ou	min ⁻¹ {rpm}	2.5{2.5}		
Boom Structure		min (ipin)	2.0(2.0)		
Main boom			Four section, box construction, 2nd and 3rd simultaneously		
Wall 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 Holst device	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			Tiand brake, swing fledital-free of fledital-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×Ws (26) anti twist rope		
Hydraulic Device	<u> </u>	HIHAH	4-pumps (2 variable plunger pumps + 2 gear pumps)		
Try draumo Bovios	,		+ 4-pumps (2 variable plunger pumps + 2 gear pumps)		
Hydraulic oil tank	vdraulic oil tank &		860		
Upper Structure	•	~	000		
Engine	Model		MITSUBISHI 6D24-TLE2A		
Liigiiio	9		Water cooled, 4 cycle, 6 cyls, direct injection diesel with		
	1,400		turbocharger, intercooler		
	Total displacement	l	11.945		
	Max. output kW/min ⁻¹ {PS/rpm}		235/2,000{320/2,000}		
		nin ⁻¹ {kgf·m/rpm}	1,245/1,400{127/1,400}		
Fuel tank	wax. torque 14 minimi (kgi minipini)		400		
Lower Structure			100		
Propel system			Hydraulic motors, planetary reducer, direct drive, shoe-in-type		
Travel speed		km/h			
		%	40		
	} indicates conventiona		10		

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

(ii)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 (m) radius (m)	9.99	16.7	23.4	30.1	(m) Working 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	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	30.70	29.00	18.50	6.0
6.5	31.40	29.80	26.10	18.50	6.5
7.0	28.90	27.20	23.20	18.50	7.0
7.5	26.30	25.10	21.60	18.50	7.5
7.7	25.10	24.40	20.90	18.50	7.7
8.0		23.30	20.00	18.50	8.0
8.5		21.20	19.00	17.00	8.5
9.0		19.40	18.10	15.50	9.0
9.5		17.90	17.00	14.50	9.5
10.0		16.50	16.30	13.50	10.0
11.0		14.20	14.10	12.80	11.0
12.0		12.40	12.30	11.80	12.0
13.0		11.00	10.80	11.00	13.0
14.0		9.70	9.50	9.90	14.0
14.4		9.30	9.10	9.50	14.4
15.0			8.50	9.00	15.0
16.0			7.60	8.20	16.0
17.0			6.60	7.40	17.0
18.0			6.20	6.70	18.0
19.0			5.60	6.10	19.0
20.0			5.00	5.50	20.0
21.0			4.60	5.10	21.0
21.1			4.50	5.00	21.1
22.0				4.60	22.0
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				2.90	27.0
27.8				2.70	27.8
Max. boom angle	65.0°	75.6°	79.8°	82.1°	Max. boom angle
Min. boom angle	0°	O°	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					Boom length
Working (m)	9.99	16.7	23.4	30.1	(m) Working 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			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				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°	0°	0°	22.4°	Min. boom angle

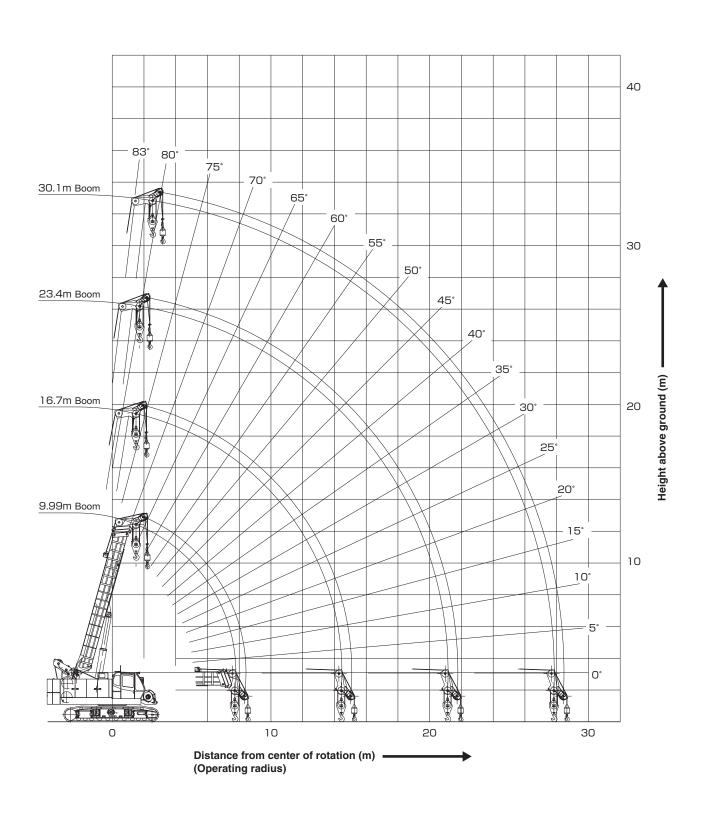
Ratings shown in _____ are determined by the strength of the boom or other structural components.

■ Without counterweight (optional setting)

(Unit: metric ton)

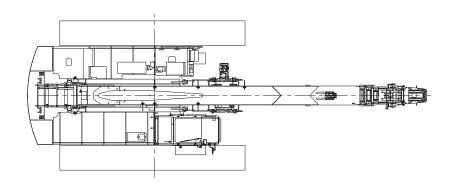
Boom length		Boom length	
Working (m) radius (m)	9.99	16.7	(m) Working radius (m)
3.0	30.00	20.00	3.0
3.5	30.00	20.00	3.5
3.7	30.00	20.00	3.7
4.0	30.00	20.00	4.0
4.5	30.00	20.00	4.5
5.0	24.50	20.00	5.0
5.5	20.45	20.00	5.5
6.0	17.45	17.05	6.0
6.5	15.10	14.75	6.5
7.0	13.25	12.90	7.0
7.5	11.75	11.35	7.5
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

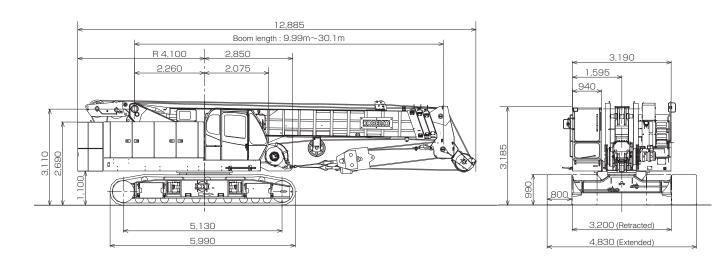
► WORKING RANGES (Unit : m)

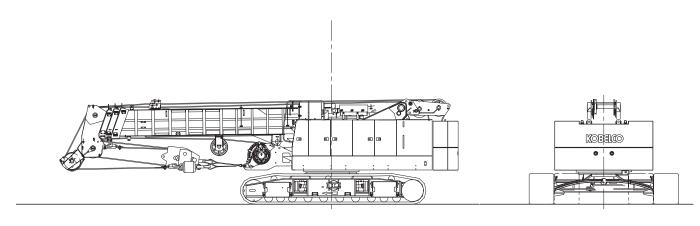




■ GENERAL DIMENSIONS (Unit: mm)









► STANDARD EQUIPMENT

Upper Structure/Lower Structure
Third drum : wire rope 26dia. x 125m, with free-fall
Counterweight: 17.2t (9.0t + 8.2t)
Crawlerweight: 2.0t (0.5t x 4)
800mm shoe crawlers
165G51 battery
Electric hand throttle grip
Variable main/aux. speed controller
Side deck (for cab): 300mm (W) x 970mm (L)
Anti-slip sheet
Tools (for routine maintenance)
Lubrication device
Tool box (equipped on right-side guard)
Three front working lights
Two back mirrors
Cab
Air conditioner
Convenient compartment
Cup holder
AM/FM Radio
·
AM/FM Radio
AM/FM Radio Ashtray
AM/FM Radio Ashtray Cigarette lighter
AM/FM Radio Ashtray Cigarette lighter Intermittent windshield wiper with window washer (roof, front and lower front window)
AM/FM Radio Ashtray Cigarette lighter Intermittent windshield wiper with window washer (roof, front and lower front window) Sun visor
AM/FM Radio Ashtray Cigarette lighter Intermittent windshield wiper with window washer (roof, front and lower front window) Sun visor Roof blind
AM/FM Radio Ashtray Cigarette lighter Intermittent windshield wiper with window washer (roof, front and lower front window) Sun visor Roof blind Tinted glass

Safety Device
Over-load prevention device (auto stop function)
Release prevention key for hook over-hoist prevention device
LCD Multi-display (shows gauges and warning signs)
Hook over-hoist auto-stop device
Operating zone limit device
Safety lever lock
Propel lever lock
Manual drum safety pawl (main, aux.)
Negative brake in lever neutral-position (main, aux., third, travel)
Brake fail safe mechanism (main, aux., third, travel)
Service brake pedal lock (main, aux.)
Lamp for neutral-free/brake select switch (main, aux.)
Neutral-free/brake select switch (main, aux.)
Neutral brake release prevention key (main, aux.)
Brake activating device for engine stop
Hydraulically safety valve
Boom telescoping default operation prevention device (Automatic)
Boom telescoping safety device
Boom hoist safety device
Over hook limit device
Sling wire lock
Horn
Swing lock pin
Swing flashers
Swing warning buzzer
Voice alarm for travel/swing (over hoist, over load, crawler extension)
Level gauge

▶OPTIONAL EQUIPMENT

4-spool valve: Max. discharge pressure 17.2MPa{175kgf/cm²}
Max. discharge flow 40liters/min

Outlet for Auger: Max. output 145kW{200PS}
Max. discharge pressure 30.0MPa{305kgf/cm²}
Max. discharge pressure 30.0MPa{305kgf/cm²}
Max. discharge flow 425liters/min (with oil flow select switch)

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

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

Boom hoist pedal: right hand (not available to equipt with foot acceleration)

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.

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