TELESCOPIC CRAWLER CRANE TK350



Max. Lifting Capacity: 35.0 metric ton Max. Boom Length: 24.0 m

S	Ρ	Ξ	С	F	С	Α	Т	Ο	N	S

CRANE PERFORMANCE			
Max. rated load			
9.8 m boom	35.0 ton x 2.7 m (8-line)		
16.90 m boom	19.0 ton x 4.5 m (5-line)		
20.45 m boom	15.0 ton x 5.0 m (4-line)		
24.0 m boom	12.5 ton x 5.5 m (4-line)		
Aux. Sheave	5.0 ton (single-line)		
Main boom length	9.8 m to 24.0 m		
Main hook height	24.9 m		
Main hook operating radius	22.0 m		
Line Speed			
Main	125 m/min at 4th layer		
Aux.	110 m/min at 2nd layer		
Third (Option)	110 m/min at 3rd layer		
Rated Line Pull			
Main	44.1 kN (4.5 ton)		
Aux.	49.0 kN (5.0 ton)		
Third (Option)	29.4 kN (3.0 ton)		
Boom telescoping speed	94 sec/14.2 m		
Boom raising speed	49 sec/0 to 82Åã		
Swing speed	2.6 min ⁻¹ (rpm)		
BOOM STRUCTURE			
Main boom			

Main boom

Three section, box construction,

2nd independently and 3rd independently telescoping

Boom hoist device

Direct forced type by double acting hydraulic cylinder (one) Boom telescoping device

Direct forced type by double acting hydraulic cylinders (two)

Load hoist device

Hydraulic motor drive with spur gear reduction with auto-

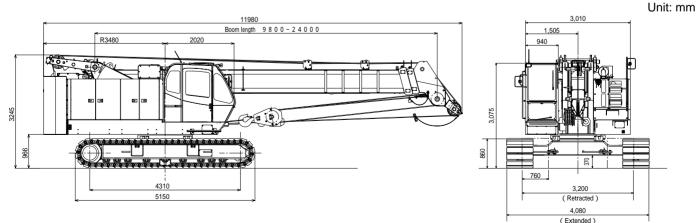
brake, independent 2 winches with free-fall function

Swing device

Hydraulic drive motor with planetary gear reduction with hand brake, swing neutral-free or neutral –brake selector type

WIRE ROPE				
Main winch				
18 dia. X 140 m, IWRC 6 x WS (36) anti twist rope				
Aux. winch				
	VS (26) anti twist rope			
Third. Winch (Option)				
<u>16 dia. X 80 m, 6 x F</u>	I (29) anti twist rope			
Hydraulic device	mana , 2 , numma (2 yariahla niyarar			
pumps + 1 gear pum	imps + 3 – pumps (2 variable plunger			
Hydraulic oil tank	455 liters			
UPPERSTRUCTURE	435 IIIEI S			
Engine Model				
	MITSUBISHI 6D16-TLE1			
Туре	Water cooled, 4 cycle, 6 cyls,			
	direct injection diesel with			
	turbochager, intercooler			
Total displacement	7,540 сс			
Max. output	147 kW/2,000 min ⁻¹ (rpm)			
Max. torque	765 N.m/1,600 min ⁻¹			
	(178 kgf.m/1,600 rpm)			
Fuel tank	270 liters			
LOWERSTRUCTURE				
Propel system	Hydraulic motors, planetary reducer,			
	direct drive, shoe-in type			
Travel speed	1.3 km/h			
Gradeability	30 % (16.7°)			
OPERATING WEIGHT				
Operating weight	40.98 tons			
Ground pressure	61.2 kPa (0.625 kgf/cm ²)			

GENERAL DIMENSIONS



KOBELCO CONSTRUCTION MACHINERY CO., LTD.

LIFTING CAPACITY

Rated loads in metric tons for 360° area with 10.2 ton counterweight

Unit[.] metric ton

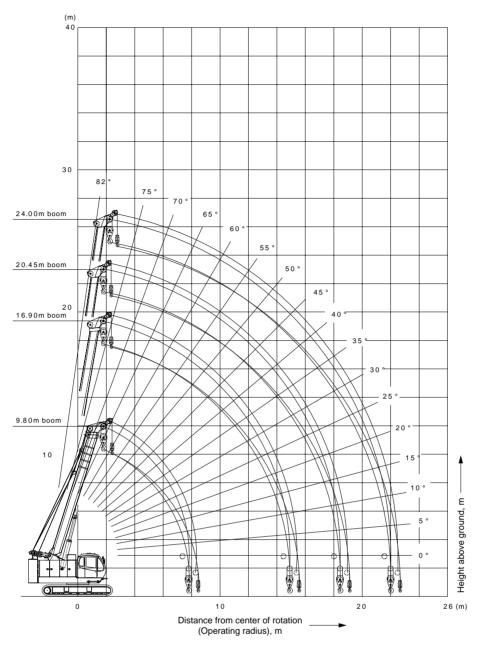
Boom length (m)	9.80	16.90	20.45	24.00	Boom length (m)
2.7	35.00	19.00	15.00	12.50	2.7	
3.0	32.00	19.00	15.00	12.50	3.0	1
3.5	28.30	19.00	15.00	12.50	3.5	1
4.0	25.30	19.00	15.00	12.50	4.0	1
4.5	23.00	19.00	15.00	12.50	4.5	
5.0	21.00	18.00	15.00	12.50	5.0	
5.5	19.15	16.70	14.60	12.50	5.5	
6.0	17.00	15.60	13.70	12.00	6.0	
6.5	15.10	14.40	12.85	11.30	6.5	
7.0	13.25	13.10	12.10	10.70	7.0	
7.5	12.00	11.85	11.50	10.10	7.5	
7.8	8.00	11.25	11.15	9.85	7.8	1
Ê 8.0		10.90	10.70	9.60	8.0	1:
s 8.5		9.60	9.80	9.10	8.5	1
9.0		8.80	9.00	8.65	9.0	
9.5		8.10	8.30	8.20	9.5	
B 10.0		7.50	7.70	7.80	10.0	1
(L) 8.0 8.5 9.0 9.5 10.0 11.0 12.0		6.60	6.65	6.75	11.0	
≥ 12.0		5.65	5.85	5.95	12.0] :
13.0		5.00	5.15	5.25	13.0	1
14.0		4.45	4.60	4.70	14.0	1
14.9		3.50	4.15	4.25	14.9	1
15.0			4.10	4.20	15.0	1
16.0			3.70	3.80	16.0	
17.0			3.35	3.45	17.0	1
18.0			3.05	3.10	18.0	
18.4			2.65	3.00	18.4	
19.0				2.85	19.0	
20.0				2.60	20.0	
21.0				2.40	21.0	1
22.0				2.05	22.0	
Min. boom angle	0°	0°	0°	0°	Min. boom ang	le

LIFTING CAPACITY

Rated loads in metric tons for 360° area without counterweight (Optional setting)

Rated	loads in metric to	ons for 360° area without	counterweight (Option	al setting)	Unit: me	tric ton
Вс	oom length (m)	9.80	16.90	20.45	Boom length	(m)
	2.7	16.00	16.00	15.00	2.7	
	3.0	16.00	16.00	15.00	3.0	7
	3.5	16.00	16.00	15.00	3.5	
	4.0	16.00	16.00	15.00	4.0	7
	4.5	13.30	12.85	13.10	4.5	
	5.0	11.00	10.60	10.85	5.0	
	5.5	9.35	8.95	9.20	5.5	
	6.0	8.05	7.70	7.90	6.0	
	6.5	7.05	6.70	6.90	6.5	
	7.0	6.25	5.85	6.10	7.0	
Ê	7.5	5.55	5.20	5.40	7.5	≤
Working radius (m)	7.8	5.25	4.85	5.05	7.8	Working radius (m)
aji	8.0		4.60	4.80	8.0	ing
ra	8.5		4.15	4.35	8.5	ាត
ing	9.0		3.70	3.90	9.0	diu
ork	9.5		3.35	3.55	9.5	s (i
ž	10.0		3.05	3.20	10.0	
	11.0		2.50	2.70	11.0	
	12.0		2.10	2.25	12.0	
	13.0		1.75	1.90	13.0	
	14.0		1.40	1.60	14.0	
	14.9		1.20	1.35	14.9	
	15.0			1.30	15.0	
	16.0			1.05	16.0	
	17.0			0.80	17.0	
	18.0			0.65	18.0	
	18.4			0.60	18.4	
Ν	1in. boom angle	0°	0°	0°	Min. boom and	gle

WORKING RANGES



Notes:

 Rated load do not exceed 78% of the tipping loads with machine set horizontally on a firm and level ground, satisfy 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	35-ton	5-ton	5-ton (ball hook)
Weight	300 kg	90 kg	40 kg

Note: 5-ton 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 outof-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.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity the load. Operating radius given in the charts allow for loaded boom deflection. Always operate the machine on the basis of actual operating radius.

- Ratings of the auxiliary sheave are the same as main boom ratings, but should not exceed 3,500kg. Ratings of the auxiliary sheave are calculated by deducting 35-ton hook weight (300 kg) from main boom ratings.
- 6. 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.
- 7. At radii and boom lengths where no ratings are shown on chart, operation is not intended or approved.
- 8. Standard hoist reevings are shown bellow. Rated single-line pull must not exceed 4,500 kg.

Boom length	9.80 m	16.90 m	20.45 m	24.00 m
Hook		35-	ton	
No. of reeving	8	5	4	4

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

4. Both crawlers should be fully extended.

STANDARD EQUIPMENT

STANDARD EQUIPMENT
Upper structure/Lower structure
Counterweight: 10.2 ton
750 mm shoe crawlers
170F51 battery
Electric hand throttle grip
Side deck (for cab): 300 mm (W) x 970 mm (L)
Step (equipped on left-side guard)
Anti-slip sheet
Step (equipped on crawlers)
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
Ashtray
Cigarette lighter
Intermittent windshield wiper with window washer (roof, front and lower front window)
Sun visor
Roof blind
Tinted glass
Floor mat (cloth)
Foot pedal cover (rubber)
Shoe tray
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
Safety lever lock
Lever lock switch (main, aux., boom hoist, and telescoping)
Propel lever lock
Manual drum safety pawl (main, aux. and boom hoist)
Negative brake in lever neutral-position
Service brake pedal lock (main, aux.)
Lamp for neutral-free/brake select switch (main, aux.)
Neutral-free/brake select switch (main, aux.)
Counterweight detection device
Neutral brake release prevention key (main, aux.)
Brake activating device for engine stop
Hydraulically safety valve
Boom telescoping default operation prevension device
Winch protection device
Propel protection device
Sling wire lock
Swing lock pin
Swing flashers
Swing warning buzzer
Level gauge

OPTIONAL EQUIPMENT

Third drum: wire rope 16 dia. X 80 m, with free-fall
Uni-balance rope: iWRC6 x Fi (29) 18 dia. 140 m for main/80 m for aux.
Outlet for Vibro: Max. output 50 kW (68 PS)
Max. discharge pressure 27.5 MPa (280 kgf/cm ²)
Max. discharge flow 110 lites/min
No.1 Outlet for Auger: Max. output 78/45 kW (106/61 PS)
Max. discharge pressure 24.5 MPa (250 kgf/cm ²)
Max. discharge flow 190/110 lites/min (with oil flow select switch)
No.2 Outlet for Auger: Max. output 93/50 kW (126/68 PS)
Max. discharge pressure 24.5 MPa (250 kgf/cm²) Max. discharge flow 300/150 lites/min (with oil flow select switch)
Hydraulic tagline: 10 dia. x 45 m
Lifting capacity set: without counterweight
Swing neutral brake: cannot select swing neutral free
5-ton light hook: 40 kg
Wire rope loose prevention device (main, aux., third)
Counterweight self-removal device
Foot acceleration: right hand
Boom hoist pedal: left hand (not available to equip with third-drum specs)
Boom hoist pedal: right hand (not available to equip with foot acceleration)
Engine rpm fix switch: 4-steps
Cab roof guard
Cab front upper/lower guard
Side catwalk (without handrail): 300 mm (W) x 3,330 mm (L) — right hand/
4,090 mm (L) — left hand
Color monitoring camera (backward)
Monitoring camera for main/aux. with lighting
Overload alarm lamp (3 colors, square shape)
Voice alarm for travel /swing
Electric fuel pump
Tool box (equipped in lower frame): not available to equip with TransLifter simultaneously
Fire extinguisher
Electric fan

Note: Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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