



TK550

Model TK550-1E

TELESCOPIC CRAWLER CRANE

Max. Lifting Capacity 55t x 3.0m Comply with Japanese Construction Codes for Mobile Cranes.

k GENERAL SPECIFICATION

Model		TK550-1E	
Weight			
Operating weight		t	49.98
Ground pressure		kPa{kgf/cm ² }	68.3{0.70}
Crane Performance			
Max. rated load	9.97m boom	txm	55.0x3.0 (12-lines)
	16.7m boom	txm	28.0x5.0 (6-lines)
	23.4m boom	txm	22.0x6.0 (5-lines)
	30.1m boom	txm	14.0x6.5 (4-lines)
	Aux. sheave (max.)	txm	5.0 (1-line)
Main boom length		m	9.97 30.1
Main hook max. height		m	30.7
Main hook max. operating radius		m	27.6
Line speed	Main	m/min	125 (at 4th layer)
	Aux.	m/min	110 (at 2nd layer)
	Third (optional)	m/min	100 (at 3rd layer)
Rated line pull	Main	kN{tf}	44.1{4.5}
	Aux.	kN{tf}	49.0{5.0}
	Third (optional)	kN{tf}	29.4{3.0}
Max. line pull (Referential performance)	Main	kN{tf}	83.3{8.5}
	Aux.	kN{tf}	83.3{8.5}
	Third (optional)	kN{tf}	49.5{5.1}
Boom telescoping speed		sec/m	120/20.1
Boom raising speed		sec/degree	64/0 82.5
Swing speed		min ⁻¹ {rpm}	2.3{2.3}
Boom Structure			
Main boom		Four section, box construction, 2nd and 3rd simultaneously 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, 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		mmxm	18dia.x180 IWRC6xWs (26) anti twist rope
Aux. winch		mmxm	18dia.x80 IWRC6xWs (26) anti twist rope
Third winch (optional)		mmxm	16dia.x80 IWRC6xFi (29) anti twist rope
Hydraulic Device		2 variable plunger pumps + 3 pumps (2 variable plunger pumps + 1 gear pump)	
Hydraulic oil tank		R	610
Upper Structure			
Engine	Model		MITSUBISHI 6D16-TLE2A
	Type		Water cooled, 4 cycle, 6 cyls, direct injection diesel with turbocharger, intercooler
	Total displacement		R 7.545
	Max. output		kW/min ⁻¹ {PS/rpm} 147/2,000{200/2,000}
Max. torque		N m/min ⁻¹ {kgf m/rpm} 804/1,600{82/1,600}	
Fuel tank		R	270
Lower Structure			
Propel system		Hydraulic motors, planetary reducer, direct drive, shoe-in-type	
Travel speed		km/h	1.9/1.2
Gradeability		30	

Units are SI units. { } indicates conventional units.

KOBELCO