

**KATO****NEW SS-500^{SP}****ラフター
KR-50H***Special***SPECIFICATIONS**

TYPE	50 ton ROUGH TERRAIN CRANE
NAME	KR-50H

■CRANE SPECIFICATION

MAX TOTAL RATED LOAD	10.4m Boom	50,000kg x 3.0m (12 part-line)
	17.55m Boom	28,000kg x 5.0m (7 part-line)
	24.7m Boom	20,000kg x 6.0m (5 part-line)
	31.85m Boom	14,000kg x 6.5m (4 part-line)
	39.0m Boom	7,600kg x 10.0m (4 part-line)
	9.0m Jib	3,500kg x 75° (1 part-line)
	14.5m Jib	2,400kg x 77° (1 part-line)
	Rooster Sheave	4,500kg (1 part-line)
BOOM LENGTH	10.4m ~ 39.0m	
JIB LENGTH	9.0m ~ 14.5m	
MAX. RATED LIFTING HEIGHT	40.0m (boom) 54.3m (jib)	
HOISTING LINE SPEED (WINCH UP)	MAIN WINCH	134m/min (4th layer)
	AUXILIARY WINCH	118m/min (2nd layer)
HOISTING HOOK SPEED (WINCH UP)	MAIN WINCH	(12 part-line) 11.2m/min. (4th layer)
	AUXILIARY WINCH	(1 part-line) 116.0m/min. (2nd layer)
BOOM DERRICKING ANGLE	0° ~ 82°	
BOOM DERRICKING TIME	0° ~ 82° / 50sec	
BOOM EXTENDING TIME	10.4m ~ 39.0m / 113sec	
SLEWING SPEED	2.1 rpm	
TAIL SLEWING RADIUS	3,600m	

■EQUIPMENT & STRUCTURE

BOOM TYPE	Box-shaped, 5-section hydraulically telescopic type (Boom section 2 / 3, 4 / 5 simultaneously operated)	
JIB TYPE	2 sections (2nd section of hydraulically telescopic type) (offset angles 5° ~ 45°)	
BOOM EXTENSION / RETRACTION EQUIPMENT	Hydraulic cylinders (3), with wire rope	
BOOM DERRICKING / LOWERING EQUIPMENT	Hydraulic cylinder type	
WINCH SYSTEM MAIN & AUXILIARY WINCHES	2 single winch driven by hydraulic motor and via spur gear reducer With free-fall device Automatic brake with foot brake With flow regulation valve with pressure compensation	



WHEEL BASE		4,900 mm
TREAD	FRONT	2,410 mm
	REAR	2,410 mm
SEATING CAPACITY		2
GROSS VEHICLE WEIGHT	GROSS WEIGHT	37,990 kg
	FRONT	19,050 kg
	REAR	18,940 kg

- Stow the hooks in place before travelling.
- Before you use the machine, read the precautions in the instruction manual thoroughly to operate it correctly.
- KATO products and specifications are subject to improvements and changes without notice



CARRIER SPECIFICATION

MAX. TRAVELLING SPEED	49 km / h
GRADEABILITY	0.57 (tan θ)
MINIMUM TURNING RADIUS	10.4m (2 wheel drive)
	6.2m (1 wheel drive)

ENGINE

MODEL	Mitsubishi 6D22-TC
TYPE	4-cylinder, 6-cylinders, water cooled direct-injection turbo charged diesel engine with intercooling
PISTON DISPLACEMENT	11.14 m^3
MAX. POWER	320ps / 2,200rpm
MAX. TORQUE	118kg $\cdot$ m / 1,400rpm

ENGINE & STRUCTURE

DRIVE SYSTEM		4-wheel drive (4x4) selection
TORQUE CONVERTER		3-element, 1-stage unit (with automatic lock-up mechanism)
TRANSMISSION		Automatic and manual transmission 4 forward and 1 reverse speeds (with Hi / Low setting)
NUMBER OF SPEEDS		Full floating type with 2-stage reduction device
AXLES	FRONT	2-line hydro-pneumatic disc brake (4 wheels)
	REAR	Mechanically operated, internal expanding shoe type
SUSPENSION	FRONT & REAR	Electro-pneumatic operated exhaust brake
BRAKE SYSTEM	SERVICE BRAKE	Coil spring, 4-link type (with hydraulic lock cylinder)
	PARKING BRAKE	Coil spring, 4-link type (with hydraulic lock cylinder)
	AUXILIARY BRAKE	Fully hydraulic power steering
STEERING		With reverse steering correction mechanism
TYRE SIZE	FRONT	505 / 95 R25 183E ROAD
	REAR	505 / 95 R25 183E ROAD
FUEL TANK CAPACITY		300 liters
BATTERIES		(12V - 150AH) X 2

SAFETY DEVICES

	Emergency steering device, Steering wheel steering lock device, Overlift prevention device, Brake oil leakage alarm, Engine over-run alarm
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GENERAL DIMENSIONS

OVERALL LENGTH	12,600mm
OVERALL WIDTH	3,000mm
OVERALL HEIGHT	3,780mm



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SLEWING EQUIPMENT		Hydraulic motor driven planetary gear reducer (with built-in negative brake) Swing free / lock changeover type
OUTRIGGERS	TYPE	Ball bearing type
	EXTENSION WIDTH	Fully extended width 7,400mm
		Middle extended width 6,400mm
		Middle extended width 5,400mm
		Middle extended width 4,300mm
		Fully retracted width 2,590mm
WIRE ROPE	Main Winch	SeS (#B) + 6 x WS(31) 18mm dia. X 220m
	Auxiliary Winch	1WRCE x WS(29) 18mm dia. X 120m
•HYDRAULIC EQUIPMENT		
HYDRAULIC PUMP		2 Variable plunger type, 2 gear pumps
HYDRAULIC MOTOR	HOISTING MOTOR	Axial plunger type
	SLEWING MOTOR	Axial plunger type
CONTROL VALVE		Multiple automatic stabilization type (with Pressure compensation flow control valve)
CYLINDER		High pressure double acting type
HYDRAULIC OIL TANK CAPACITY		650 liters
•SAFETY DEVICES		
		ACS / automatic moment limiter (with Voice alarm) Swing automatic stop device Outrigger extension width detector Free-fall interlock device Over-winding cutout device Winch drum lock Automatic brake device Outrigger lock device Angle meter Swing warning lamp Hydraulic oil over-heat alarm
STANDARD EQUIPMENT		
		Air-conditioner with dehumidifier AM / FM Radio with clock Oil Cooler
•OPERATOR'S CAB		
		Winch camera TV ACS External indication device Loudspeaker Door visor
•OPTIONAL EQUIPMENT		
		Winch view camera, Hook for 70 / 48 ton, Slewing warning buzzer, Winch over unwinding device, Cab heater, Cab cooler, Fan, AM / FM Radio, Fire extinguisher, ACS outside indicator



RADIUS (M)	WITH OUTRIGERS 7.4M EXTENDED -360° WORKING AREA										WITH OUTRIGERS IN 6.4M POSITION - OVER THE SIDE										WITH OUTRIGERS IN 5.4M POSITION - OVER THE SIDE										WITH OUTRIGERS IN 4.3M POSITION - OVER THE SIDE										WITH OUTRIGERS IN 2.5M POSITION-OVER THE SIDE			
	BOOM LENGTH IN METRES										BOOM LENGTH IN METRES										BOOM LENGTH IN METRES										BOOM LENGTH IN METRES										BOOM LENGTH (M)			
	10.4M	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
1.0	30.00	28.00	26.00	24.00	22.00	30.00	28.00	26.00	24.00	22.00	45.50	29.50	21.00	14.00	7.00	13.50	28.00	20.00	13.00	7.00	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
3.0	45.00	28.00	20.00	14.00	8.00	45.00	28.00	20.00	14.00	8.00	15.10	28.30	21.00	14.00	7.00	13.50	28.00	20.00	13.00	7.00	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
3.5	41.00	28.00	20.00	14.00	8.00	41.00	28.00	20.00	14.00	8.00	41.00	28.00	20.00	14.00	7.00	13.50	28.00	20.00	13.00	7.00	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
4.0	37.00	28.00	20.00	14.00	8.00	37.00	28.00	20.00	14.00	8.00	37.00	28.00	20.00	14.00	7.00	13.50	28.00	20.00	13.00	7.00	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
4.5	33.50	28.00	20.00	14.00	7.60	33.50	28.00	20.00	14.00	7.60	33.50	28.90	21.00	14.00	7.60	13.50	28.00	20.00	13.00	7.60	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
5.0	30.00	28.00	20.00	14.00	7.60	30.00	28.00	20.00	14.00	7.60	30.00	28.90	21.00	14.00	7.60	13.50	28.00	20.00	13.00	7.60	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
5.5	27.50	26.10	20.00	14.00	7.60	27.50	26.10	20.00	14.00	7.60	25.00	24.00	20.00	14.00	7.60	13.50	28.00	20.00	13.00	7.60	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
6.0	25.00	24.10	20.00	14.00	7.60	25.00	24.10	20.00	14.00	7.60	21.10	20.45	11.25	14.00	7.60	13.50	28.00	20.00	13.00	7.60	10.00	17.55M	24.7M	31.95M	39.0M	10.4M	17.55M	24.7M																
6.5	22.10	22.40	18.70	14.00	7.60	22.70	22.40	18.70	13.50	7.60	17.90	17.60	11.40	14.00	7.60	11.80	11.50	11.30	11.50	7.60	5.40	5.00	1.85	1.50	1.00	0.50	0.25	0.10																
7.0	20.10	20.60	17.60	13.50	7.60	20.70	20.60	17.60	13.50	7.60	15.45	15.15	11.60	13.50	7.60	10.30	10.00	9.80	10.40	7.60	4.60	3.00	1.15	0.80	0.50	0.25	0.10																	
7.5	18.90	18.60	13.00	7.60	7.60	18.20	18.60	13.00	7.60	7.60	13.15	13.05	11.00	7.60	7.60	8.70	8.60	9.10	7.60	3.65	3.00	1.00	0.70	0.40	0.25	0.10	0.05																	
8.0	17.50	15.60	12.50	7.60	7.60	15.95	15.60	12.50	7.60	7.60	11.95	11.45	11.90	7.60	7.60	7.70	7.60	8.40	7.60	3.10	1.00	0.70	0.40	0.25	0.10	0.05	0.02																	
8.5	16.20	14.70	11.90	7.60	7.60	14.10	14.00	11.90	7.60	7.60	10.25	11.15																																

LEGION: C.B.A - CRITICAL BOOM ANGLE
S.H.K. - STANDARD HOOK

HK.M - HOOK MASS
P.L - PART LINES



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39.0m Boom + 9.0m Jib

(7.4m)										(6.4m)										(5.4m)										(4.3m)											
Outriggers fully extended (over 180°)										Outriggers intermediately extended (over 180°)										Outriggers intermediately extended (over 180°)										Outriggers intermediately extended (over 180°)											
Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°	Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°	Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°	Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°		
820	7.0	3.50	10.0	2.40	12.0	1.60	82.0	7.0	3.50	10.0	2.40	12.0	1.60	82.0	7.0	3.50	10.0	2.40	12.0	1.60	82.0	7.0	3.50	10.0	2.40	12.0	1.60	82.0	7.0	3.50	10.0	2.40	12.0	1.60	82.0	7.0	3.50	10.0	2.40	12.0	1.60
750	13.1	3.50	15.7	2.40	17.4	1.60	75.0	13.1	3.50	15.7	2.40	17.4	1.60	75.0	13.1	3.50	15.7	2.40	17.4	1.60	75.0	13.1	3.50	15.7	2.40	17.4	1.60	75.0	13.1	3.50	15.7	2.40	17.4	1.60	75.0	13.1	3.50	15.7	2.40	17.4	1.60
720	14.7	3.36	17.3	2.26	18.9	1.56	72.0	14.7	3.36	17.3	2.26	18.9	1.56	72.0	14.7	3.36	17.3	2.26	18.9	1.56	72.0	14.7	3.36	17.3	2.26	18.9	1.56	72.0	14.7	3.36	17.3	2.26	18.9	1.56	72.0	14.7	3.36	17.3	2.26	18.9	1.56
700	17.1	2.95	19.5	2.05	21.0	1.51	70.0	17.1	2.95	19.5	2.05	21.0	1.51	70.0	17.1	2.95	19.5	2.05	21.0	1.51	70.0	17.1	2.95	19.5	2.05	21.0	1.51	70.0	17.1	2.95	19.5	2.05	21.0	1.51	70.0	17.1	2.95	19.5	2.05	21.0	1.51
650	20.3	2.48	22.5	1.85	23.6	1.45	65.0	20.3	2.48	22.5	1.85	23.6	1.45	65.0	20.3	2.48	22.5	1.85	23.6	1.45	65.0	20.3	2.48	22.5	1.85	23.6	1.45	65.0	20.3	2.48	22.5	1.85	23.6	1.45	65.0	20.3	2.48	22.5	1.85	23.6	1.45
600	21.9	2.26	23.9	1.73	25.2	1.41	60.0	21.9	2.26	23.9	1.73	25.2	1.41	60.0	21.9	2.26	23.9	1.73	25.2	1.41	60.0	21.9	2.26	23.9	1.73	25.2	1.41	60.0	21.9	2.26	23.9	1.73	25.2	1.41	60.0	21.9	2.26	23.9	1.73	25.2	1.41
550	24.7	1.92	26.7	1.55	27.7	1.34	55.0	24.7	1.92	26.7	1.55	27.7	1.34	55.0	24.7	1.92	26.7	1.55	27.7	1.34	55.0	24.7	1.92	26.7	1.55	27.7	1.34	55.0	24.7	1.92	26.7	1.55	27.7	1.34	55.0	24.7	1.92	26.7	1.55	27.7	1.34
500	26.1	1.70	28.6	1.43	29.5	1.29	50.0	26.1	1.70	28.6	1.43	29.5	1.29	50.0	26.1	1.70	28.6	1.43	29.5	1.29	50.0	26.1	1.70	28.6	1.43	29.5	1.29	50.0	26.1	1.70	28.6	1.43	29.5	1.29	50.0	26.1	1.70	28.6	1.43	29.5	1.29
450	27.9	1.40	29.8	1.30	30.7	1.20	45.0	27.9	1.40	29.8	1.30	30.7	1.20	45.0	27.9	1.40	29.8	1.30	30.7	1.20	45.0	27.9	1.40	29.8	1.30	30.7	1.20	45.0	27.9	1.40	29.8	1.30	30.7	1.20	45.0	27.9	1.40	29.8	1.30	30.7	1.20
400	29.5	1.16	31.5	0.95	32.1	0.90	40.0	29.5	1.16	31.5	0.95	32.1	0.90	40.0	29.5	1.16	31.5	0.95	32.1	0.90	40.0	29.5	1.16	31.5	0.95	32.1	0.90	40.0	29.5	1.16	31.5	0.95	32.1	0.90	40.0	29.5	1.16	31.5	0.95	32.1	0.90
350	30.8	0.86	32.6	0.75	33.1	0.70	35.0	30.8	0.86	32.6	0.75	33.1	0.70	35.0	30.8	0.86	32.6	0.75	33.1	0.70	35.0	30.8	0.86	32.6	0.75	33.1	0.70	35.0	30.8	0.86	32.6	0.75	33.1	0.70	35.0	30.8	0.86	32.6	0.75	33.1	0.70
300	32.6	0.40	35.1	0.35	35.4	0.35	30.0	32.6	0.40	35.1	0.35	35.4	0.35	30.0	32.6	0.40	35.1	0.35	35.4	0.35	30.0	32.6	0.40	35.1	0.35	35.4	0.35	30.0	32.6	0.40	35.1	0.35	35.4	0.35	30.0	32.6	0.40	35.1	0.35	35.4	0.35
250	43		43		43		25.0	43		43		43		25.0	43		43		43		25.0	43		43		43		25.0	43		43		43		25.0	43		43		43	
Total boom length 61										Total boom length 62										Total boom length 62										Total boom length 62											

39.0m Boom + 14.5 Jib

(7.4m)										(6.4m)										(5.4m)										(4.3m)											
Outriggers fully extended (over 180°)										Outriggers intermediately extended (over 180°)										Outriggers intermediately extended (over 180°)										Outriggers intermediately extended (over 180°)											
Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°	Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°	Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°	Boom height (m)	offset 25°	offset 30°	offset 35°	offset 40°	offset 45°	offset 50°	offset 55°	offset 60°	offset 65°		
820	8.5	2.40	13.0	1.40	16.5	0.50	82.0	8.5	2.40	13.0	1.40	16.5	0.50	82.0	8.5	2.40	13.0	1.40	16.5	0.50	82.0	8.5	2.40	13.0	1.40	16.5	0.50	82.0	8.5	2.40	13.0	1.40	16.5	0.50	82.0	8.5	2.40	13.0	1.40	16.5	0.50
780	12.3	2.40	18.5	1.40	19.6	0.90	78.0	12.3	2.40	18.5	1.40	19.6	0.90	78.0	12.3	2.40	18.5	1.40	19.6	0.90	78.0	12.3	2.40	18.5	1.40	19.6	0.90	78.0	12.3	2.40	18.5	1.40	19.6	0.90	78.0	12.3	2.40	18.5	1.40	19.6	0.90
720	13.2	2.40	17.4	1.36	20.4	0.90	72.0	13.2	2.40	17.4	1.36	20.4	0.90	72.0	13.2	2.40	17.4	1.36	20.4	0.90	72.0	13.2	2.40	17.4	1.36	20.4	0.90	72.0	13.2	2.40	17.4	1.36	20.4	0.90	72.0	13.2	2.40	17.4	1.36	20.4	0.90
700	15.1	2.30	19.2	1.34	22.0	0.90	70.0	15.1	2.30	19.2	1.34	22.0	0.90	70.0	15.1	2.30	19.2	1.34	22.0	0.90	70.0	15.1	2.30	19.2	1.34	22.0	0.90	70.0	15.1	2.30	19.2	1.34	22.0	0.90	70.0	15.1	2.30	19.2	1.34	22.0	0.90
730	16.9	2.15	20.9	1.30	23.6	0.87	73.0	16.9	2.15	20.9	1.30	23.6	0.87	73.0	16.9	2.15	20.9	1.30	23.6	0.87	73.0	16.9	2.15	20.9	1.30	23.6	0.87	73.0	16.9	2.15	20.9	1.30	23.6	0.87	73.0	16.9	2.15	20.9	1.30	23.6	0.87
700	18.6	1.93	23.4	1.25	25.9	0.94	70.0	18.6	1.93	23.4	1.25	25.9	0.94	70.0	18.6	1.93	23.4	1.25	25.9	0.94	70.0	18.6	1.93	23.4	1.25	25.9	0.94	70.0	18.6	1.93	23.4	1.25	25.9	0.94	70.0	18.6	1.93	23.4	1.25	25.9	0.94
650	22.9	1.63	27.5	1.10	29.6	0.79	65.0	22.9	1.63	27.5	1.10	29.6	0.79	65.0	22.9	1.63	27.5	1.10	29.6	0.79	65.0	22.9	1.63	27.5	1.10	29.6	0.79	65.0	22.9	1.63	27.5	1.10	29.6	0.79	65.0	22.9	1.63	27.5	1.10	29.6	0.79
600	29.0	1.40	31.2	0.98	33.0	0.74	60.0	29.0	1.40	31.2	0.98	33.0	0.74	60.0	29.0	1.40	31.2	0.98	33.0	0.74	60.0	29.0	1.40	31.2	0.98	33.0	0.74	60.0	29.0	1.40	31.2	0.98	33.0	0.74	60.0	29.0	1.40	31.2	0.98	33.0	0.74
550	31.0	1.25	33.8	0.90	35.3	0.74	55.0	31.0	1.25	33.8	0.90	35.3	0.74	55.0	31.0	1.25	33.8	0.90	35.3	0.74	55.0	31.0	1.25	33.8	0.90	35.3	0.74	55.0	31.0	1.25	33.8	0.90	35.3	0.74	55.0	31.0	1.25	33.8	0.90	35.3	0.74
500	33.1	0.92	35.9	0.85	37.1	0.73	50.0	33.1	0.92	35.9	0.85	37.1	0.73	50.0	33.1	0.92	35.9	0.85	37.1	0.73	50.0	33.1	0.92	35.9	0.85	37.1	0.73	50.0	33.1	0.92	35.9	0.85	37.1	0.73	50.0	33.1	0.92	35.9	0.85	37.1	0.73
450	35.0	0.65	37.7	0.55	38.6	0.53	45.0	35.0	0.65	37.7	0.55	38.6	0.53	45.0	35.0	0.65	37.7	0.55	38.6	0.53	45.0	35.0	0.65	37.7	0.55	38.6	0.53	45.0	35.0	0.65	37.7	0.55	38.6	0.53	45.0	35.0	0.65	37.7	0.55	38.6	0.53
400	36.8	0.40	39.2	0.35	40.0	0.35	40.0	36.8	0.40	39.2	0.35	40.0	0.35	40.0	36.8	0.40	39.2	0.35	40.0	0.35	40.0	36.8	0.40	39.2	0.35	40.0	0.35	40.0	36.8	0.40	39.2	0.35	40.0	0.35	40.0	36.8	0.40	39.2	0.35	40.0	0.35
350	45		45		45		35.0	45		45		45		35.0	45		45		45		35.0	45		45		45		35.0	45		45		45		35.0	45		45		45	

When the outriggers are used



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