

**KATO**

興隆泉
PROSPER SPRING
 Tel: 06-651 0755
 Website: www.prosperpring.com

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 8.5m (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	



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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



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**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-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	3,780 mm





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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





(Unit : metric ton)

RADIUS (m)	WITH OUTRIGGERS 7.4M EXTENDED -360° WORKING AREA					WITH OUTRIGGERS IN 6.4M POSITION - OVER THE SIDE					WITH OUTRIGGERS IN 5.4M POSITION - OVER THE SIDE					WITH OUTRIGGERS IN 4.3M POSITION - OVER THE SIDE					WITH OUTRIGGERS IN 2.59M 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	31.85M	39.0M	10.4M	17.55M	24.7M	31.85M	39.0M	10.4M	17.55M	24.7M	31.85M	39.0M	10.4M	17.55M	24.7M	31.85M	39.0M	10.4M	17.55M	24.7M
1.0	30.00	28.00	26.00			30.00	28.00	26.00			45.50	28.00	21.00			33.50	28.00	20.00			16.20	12.00	11.00
3.2	15.00	28.00	20.00	14.00		15.00	28.00	20.00	14.00		15.30	28.30	21.00	14.00		13.00	28.00	20.00	14.00		16.00	12.00	11.00
3.5	41.00	28.00	20.00	14.00		41.00	28.00	20.00	14.00		41.00	28.00	21.00	14.00		33.00	28.00	20.00	14.00		16.00	12.00	11.00
4.0	37.00	28.00	20.00	14.00		37.00	28.00	20.00	14.00		37.00	28.00	21.00	14.00		27.00	28.00	20.00	14.00		12.60	12.00	11.00
5.5	33.50	28.00	20.00	14.00	7.60	33.50	28.00	20.00	14.00	7.60	33.50	28.30	21.00	14.00	7.60	22.00	23.00	20.00	14.00	7.60	10.40	9.30	9.50
5.0	30.20	28.00	20.00	14.00	7.60	30.20	28.00	20.00	14.00	7.60	30.20	28.00	21.00	14.00	7.60	18.50	19.00	17.00	14.00	7.60	8.70	8.30	8.10
5.5	27.50	26.10	20.00	14.00	7.60	27.50	26.10	20.00	14.00	7.60	25.00	24.50	21.00	14.00	7.60	15.80	16.00	14.00	14.00	7.60	7.30	6.90	6.90
6.0	25.00	24.40	20.00	14.00	7.60	25.00	24.40	20.00	14.00	7.60	21.15	20.45	11.25	14.00	7.60	13.50	13.50	12.90	12.70	7.60	6.30	5.90	5.75
6.5	22.70	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	4.85
7.0	20.30	20.60	17.60	13.50	7.60	20.70	20.60	17.60	13.00	7.60	15.45	15.15	11.60	13.50	7.60	10.30	10.00	9.80	10.40	7.60	4.60	4.30	4.15
7.5	18.90	16.60	13.00	7.60		18.20	16.60	13.00	7.60		13.15	11.05	11.00	7.60		8.70	8.60	9.30	7.60		3.65	3.50	
8.0	17.50	15.60	12.50	7.60		15.95	15.60	12.50	7.60		11.95	11.45	11.90	7.60		7.70	7.60	8.40	7.60		3.10	3.00	
8.5	16.20	14.70	11.90	7.60		11.10	14.00	11.90	7.60		10.25	11.15	10.90	7.60		6.75	6.75	7.30	7.60		2.65	2.50	
9.0	15.00	13.90	11.30	7.60		12.55	12.45	11.30	7.60		9.10	10.00	9.95	7.60		6.00	6.00	6.75	7.00		2.20	2.10	
10.0	13.00	12.30	10.30	7.60		10.15	10.00	10.30	7.60		7.35	7.25	8.15	7.60		4.80	4.75	5.50	5.80		1.50	1.35	
11.0	11.00	10.90	9.40	7.10		8.35	8.20	9.00	7.10		6.00	5.90	6.75	7.10		3.65	3.75	4.50	4.80		0.80		
12.0	9.30	9.20	8.65	6.60		6.35	6.85	7.75	6.60		4.95	4.85	5.70	6.10		2.95	2.90	3.70	4.10				
13.0	7.90	7.75	8.60	6.15		5.95	5.75	6.60	6.15		3.10	3.00	4.60	5.25		2.35	2.70	3.65	3.50				
14.0	6.70	6.60	7.40	5.75		5.00	4.85	5.65	5.75		2.40	2.30	4.10	4.55		1.75	1.60	2.30	2.95				
15.0		5.85	6.50	5.35			4.10	4.90	5.35			1.95	3.50	4.30				1.10	2.00	2.50			
16.0		4.90	5.70	5.30			3.35	4.25	4.70			1.55	2.90	3.40				0.65	1.90	2.05			
17.0		3.50	4.40	4.40			2.20	3.15	3.65			0.95	1.95	2.50					0.80	1.30			
19.0		2.98	3.85	4.15			1.75	2.70	3.20			0.65	1.65	2.10						1.00			
20.0		2.50	3.15	3.90			1.35	2.25	2.80				1.20	1.75						0.75			
21.0		2.05	2.95	3.50			1.00	1.90	2.40				0.90	1.45									
22.0			2.55	3.10				1.55	2.10				0.65	1.15									
24.0			1.85	2.40				1.00	1.50					0.65									
26.0			1.30	1.85				0.55	1.00														
28.0			0.90	1.35					0.65														
30.0				0.95																			
32.0				0.65																			
33.0				0.50																			
C.B.A								2.3	2.7				8	10	15			40	45	54		38	60
SHK	50t	22t				50t	22t				50t	22t				50t	22t				50t	22t	
H.K.M	420kg	270kg				420kg	270kg				420kg	270kg				420kg	270kg				420kg	270kg	
P.L	12	7	5	4	4	12	7	5	4	4	12	7	5	4	4	12	7	5	4	4	12	7	5

LEGION: C.B.A - CRITICAL BOOM ANGLE
SHK - STANDARD HOOKH.K.M - HOOK MASS
P.L - PART LINES

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39.0m Boom + 9.0m Jib

(7.4m)												(4.4m)												(3.4m)												(4.3m)											
Dichroic filter assembly (nm)												Dichroic filter assembly (nm)												Dichroic filter assembly (nm)												Dichroic filter assembly (nm)											
off-axis 0°		off-axis 20°		off-axis 45°		off-axis 60°		off-axis 75°		off-axis 90°		off-axis 0°		off-axis 20°		off-axis 45°		off-axis 60°		off-axis 75°		off-axis 90°		off-axis 0°		off-axis 20°		off-axis 45°		off-axis 60°		off-axis 75°		off-axis 90°													
Boom angle (°)	Boom length (m)	Boom area (m²)	Boom volume (m³)	Boom weight (kg)	Boom density (kg/m³)	Boom strength (N)	Boom stress (N/m²)	Boom strain (mm/m)	Boom deflection (mm)	Boom displacement (mm)	Boom displacement (mm)	Boom angle (°)	Boom length (m)	Boom area (m²)	Boom volume (m³)	Boom weight (kg)	Boom density (kg/m³)	Boom strength (N)	Boom stress (N/m²)	Boom strain (mm/m)	Boom deflection (mm)	Boom displacement (mm)	Boom displacement (mm)	Boom angle (°)	Boom length (m)	Boom area (m²)	Boom volume (m³)	Boom weight (kg)	Boom density (kg/m³)	Boom strength (N)	Boom stress (N/m²)	Boom strain (mm/m)	Boom deflection (mm)	Boom displacement (mm)	Boom displacement (mm)												
020	76	330	10.0	246	25.2	1.60						020	76	330	10.0	246	25.2	1.60						020	76	330	10.0	246	25.2	1.60																	
030	76	330	10.0	246	25.2	1.60						030	76	330	10.0	246	25.2	1.60						030	76	330	10.0	246	25.2	1.60																	
040	76	330	10.0	246	25.2	1.60						040	76	330	10.0	246	25.2	1.60						040	76	330	10.0	246	25.2	1.60																	
050	76	330	10.0	246	25.2	1.60						050	76	330	10.0	246	25.2	1.60						050	76	330	10.0	246	25.2	1.60																	
060	76	330	10.0	246	25.2	1.60						060	76	330	10.0	246	25.2	1.60						060	76	330	10.0	246	25.2	1.60																	
070	76	330	10.0	246	25.2	1.60						070	76	330	10.0	246	25.2	1.60						070	76	330	10.0	246	25.2	1.60																	
080	76	330	10.0	246	25.2	1.60						080	76	330	10.0	246	25.2	1.60						080	76	330	10.0	246	25.2	1.60																	
090	76	330	10.0	246	25.2	1.60						090	76	330	10.0	246	25.2	1.60						090	76	330	10.0	246	25.2	1.60																	
100	76	330	10.0	246	25.2	1.60						100	76	330	10.0	246	25.2	1.60						100	76	330	10.0	246	25.2	1.60																	
110	76	330	10.0	246	25.2	1.60						110	76	330	10.0	246	25.2	1.60						110	76	330	10.0	246	25.2	1.60																	
120	76	330	10.0	246	25.2	1.60						120	76	330	10.0	246	25.2	1.60						120	76	330	10.0	246	25.2	1.60																	
130	76	330	10.0	246	25.2	1.60						130	76	330	10.0	246	25.2	1.60						130	76	330	10.0	246	25.2	1.60																	
140	76	330	10.0	246	25.2	1.60						140	76	330	10.0	246	25.2	1.60						140	76	330	10.0	246	25.2	1.60																	
150	76	330	10.0	246	25.2	1.60						150	76	330	10.0	246	25.2	1.60						150	76	330	10.0	246	25.2	1.60																	
160	76	330	10.0	246	25.2	1.60						160	76	330	10.0	246	25.2	1.60						160	76	330	10.0	246	25.2	1.60																	
170	76	330	10.0	246	25.2	1.60						170	76	330	10.0	246	25.2	1.60						170	76	330	10.0	246	25.2	1.60																	
180	76	330	10.0	246	25.2	1.60						180	76	330	10.0	246	25.2	1.60						180	76	330	10.0	246	25.2	1.60																	
190	76	330	10.0	246	25.2	1.60						190	76	330	10.0	246	25.2	1.60						190	76	330	10.0	246	25.2	1.60																	
200	76	330	10.0	246	25.2	1.60						200	76	330	10.0	246	25.2	1.60						200	76	330	10.0	246	25.2	1.60																	
210	76	330	10.0	246	25.2	1.60						210	76	330	10.0	246	25.2	1.60						210	76	330	10.0	246	25.2	1.60																	
220	76	330	10.0	246	25.2	1.60						220	76	330	10.0	246	25.2	1.60						220	76	330	10.0	246	25.2	1.60																	
230	76	330	10.0	246	25.2	1.60						230	76	330	10.0	246	25.2	1.60						230	76	330	10.0	246	25.2	1.60																	
240	76	330	10.0	246	25.2	1.60						240	76	330	10.0	246	25.2	1.60						240	76	330	10.0	246	25.2	1.60																	
250	76	330	10.0	246	25.2	1.60						250	76	330	10.0	246	25.2	1.60						250	76	330	10.0	246	25.2	1.60																	
260	76	330	10.0	246	25.2	1.60						260	76	330	10.0	246	25.2	1.60						260	76	330	10.0	246	25.2	1.60																	
270	76	330	10.0	246	25.2	1.60						270	76	330	10.0	246	25.2	1.60						270	76	330	10.0	246	25.2	1.60																	
280	76	330	10.0	246	25.2	1.60						280	76	330	10.0	246	25.2	1.60						280	76	330	10.0	246	25.2	1.60																	
290	76	330	10.0	246	25.2	1.60						290	76	330	10.0	246	25.2	1.60						290	76	330	10.0	246	25.2	1.60																	
300	76	330	10.0	246	25.2	1.60						300	76	330	10.0	246	25.2	1.60						300	76	330	10.0	246	25.2	1.60																	
310	76	330	10.0	246	25.2	1.60						310	76	330	10.0	246	25.2	1.60						310	76	330	10.0	246	25.2	1.60																	
320	76	330	10.0	246	25.2	1.60						320	76	330	10.0	246	25.2	1.60						320	76	330	10.0	246	25.2	1.60																	
330	76	330	10.0	246	25.2	1.60						330	76	330	10.0	246	25.2	1.60						330	76	330	10.0	246	25.2	1.60																	
340	76	330	10.0	246	25.2	1.60						340	76	330	10.0	246	25.2	1.60						340	76	330	10.0	246	25.2	1.60																	
350	76	330	10.0	246	25.2	1.60						350	76	330	10.0	246	25.2	1.60						350	76	330	10.0	246	25.2	1.60																	
360	76	330	10.0	246	25.2	1.60						360	76	330	10.0	246	25.2	1.60						360	76	330	10.0	246	25.2	1.60																	
370	76	330	10.0	246	25.2	1.60						370	76	330	10.0	246	25.2	1.60						370	76	330	10.0	246	25.2	1.60																	
380	76	330	10.0	246	25.2	1.60						380	76	330	10.0	246	25.2	1.60						380	76	330	10.0	246	25.2	1.60																	
390	76	330	10.0	246	25.2	1.60						390	76	330	10.0	246	25.2	1.60						390	76	330	10.0	246	25.2	1.60																	
400	76	330	10.0	246	25.2	1.60						400	76	330	10.0	246	25.2	1.60						400	76	330	10.0	246	25.2	1.60																	
410	76	330	10.0	246	25.2	1.60						410	76	330	10.0	246	25.2	1.60						410	76	330	10.0	246	25.2	1.60																	
420	76	330	10.0	246	25.2	1.60						420	76	330	10.0	246	25.2	1.60						420	76	330	10.0	246	25.2	1.60																	
430	76	330	10.0	246	25.2	1.60						430	76	330	10.0	246	25.2	1.60						430	76	330	10.0	246	25.2	1.60																	
440	76	330	10.0	246	25.2	1.60						440	76	330	10.0	246	25.2	1.60						440	76	330	10.0	246	25.2	1.60																	
450	76	330	10.0	246	25.2	1.60						450	76	330	10.0	246	25.2	1.60						450	76	330	10.0	246	25.2	1.60																	
460	76	330	10.0	246	25.2	1.60						460	76	330	10.0	246	25.2	1.60						460	76	330	10.0	246	25.2	1.60																	
470	76	330	10.0	246	25.2	1.60						470	76	330	10.0	246	25.2	1.60						470	76	330	10.0	246	25.2	1.60																	
480	76	330	10.0	246	25.2	1.60						480	76	330	10.0	246	25.2	1.60						480	76	330	10.0	246	25.2	1.60																	
490	76	330	10.0	246	25.2	1.60						490	76	330	10.0	246	25.2	1.60						490	76	330	10.0	246	25.2	1.60																	
500	76	330	10.0	246	25.2	1.60						500	76	330	10.0	246	25.2	1.60						500	76	330	10.0	246	25.2	1.60																	

39.0m Boom + 14.5 Jib

(7.4m)												(0.4m)												(5.4m)												(4.3m)											
Outcrop 61 (mammals avoided) peak sites												Outcrop 61 (mammals avoided) peak sites												Outcrop 61 (mammals avoided) peak sites												Outcrop 61 (mammals avoided) peak sites											
Boom angle (°)		offset 0°		offset 25°		offset 45°		Boom angle (°)		offset 0°		offset 25°		offset 45°		Boom angle (°)		offset 0°		offset 25°		offset 45°		Boom angle (°)		offset 0°		offset 25°		offset 45°																	
boom height (m)	boom length (m)	boom width (m)	boom depth (m)	boom area (m²)	boom volume (m³)	boom mass (kg)	boom density (kg/m³)	boom speed (m/s)	boom acceleration (m/s²)	boom force (N)	boom torque (Nm)	boom power (W)	boom energy (J)	boom momentum (kg·m/s)	boom impulse (kg·m/s²)	boom pressure (Pa)	boom stress (Pa)	boom strain (Pa)	boom displacement (m)	boom velocity (m/s)	boom acceleration (m/s²)	boom force (N)	boom torque (Nm)	boom power (W)	boom energy (J)	boom momentum (kg·m/s)	boom impulse (kg·m/s²)	boom pressure (Pa)	boom stress (Pa)	boom strain (Pa)	boom displacement (m)																
820	3.5	2.40	1.30	1.60	1.65	0.50	820	3.5	2.40	1.30	1.60	1.65	0.50	820	3.5	2.40	1.30	1.60	1.65	0.50	820	3.5	2.40	1.30	1.60	1.65	0.50	820	3.5	2.40	1.30	1.60	1.65	0.50													
780	12.3	2.40	1.65	1.40	1.95	0.90	780	12.3	2.40	1.65	1.40	1.95	0.90	780	12.3	2.40	1.65	1.40	1.95	0.90	780	12.3	2.40	1.65	1.40	1.95	0.90	780	12.3	2.40	1.65	1.40	1.95	0.90													
1720	13.2	2.40	1.74	1.38	2.04	0.90	1720	13.2	2.40	1.74	1.38	2.04	0.90	1720	13.2	2.40	1.74	1.38	2.04	0.90	1720	13.2	2.40	1.74	1.38	2.04	0.90	1720	13.2	2.40	1.74	1.38	2.04	0.90													
760	13.1	2.30	1.92	1.34	2.23	0.90	760	13.1	2.30	1.92	1.34	2.23	0.90	760	13.1	2.30	1.92	1.34	2.23	0.90	760	13.1	2.30	1.92	1.34	2.23	0.90	760	13.1	2.30	1.92	1.34	2.23	0.90													
730	16.9	2.15	2.08	1.30	2.35	0.87	730	16.9	2.15	2.08	1.30	2.35	0.87	730	16.9	2.15	2.08	1.30	2.35	0.87	730	16.9	2.15	2.08	1.30	2.35	0.87	730	16.9	2.15	2.08	1.30	2.35	0.87													
730	16.6	1.93	2.34	1.25	2.55	0.84	730	16.6	1.93	2.34	1.25	2.55	0.84	730	16.6	1.93	2.34	1.25	2.55	0.84	730	16.6	1.93	2.34	1.25	2.55	0.84	730	16.6	1.93	2.34	1.25	2.55	0.84													
680	22.8	2.25	1.22	1.10	2.95	0.79	680	22.8	2.25	1.22	1.10	2.95	0.79	680	22.8	2.25	1.22	1.10	2.95	0.79	680	22.8	2.25	1.22	1.10	2.95	0.79	680	22.8	2.25	1.22	1.10	2.95	0.79													
650	26.0	1.40	1.51	0.88	3.03	0.76	650	26.0	1.40	1.51	0.88	3.03	0.76	650	26.0	1.40	1.51	0.88	3.03	0.76	650	26.0	1.40	1.51	0.88	3.03	0.76	650	26.0	1.40	1.51	0.88	3.03	0.76													
610	31.0	1.22	2.09	0.90	3.63	0.74	610	31.0	1.22	2.09	0.90	3.63	0.74	610	31.0	1.22	2.09	0.90	3.63	0.74	610	31.0	1.22	2.09	0.90	3.63	0.74	610	31.0	1.22	2.09	0.90	3.63	0.74													
580	33.1	0.92	2.69	0.85	3.71	0.73	580	33.1	0.92	2.69	0.85	3.71	0.73	580	33.1	0.92	2.69	0.85	3.71	0.73	580	33.1	0.92	2.69	0.85	3.71	0.73	580	33.1	0.92	2.69	0.85	3.71	0.73													
550	35.0	0.65	3.37	0.55	3.86	0.53	550	35.0	0.65	3.37	0.55	3.86	0.53	550	35.0	0.65	3.37	0.55	3.86	0.53	550	35.0	0.65	3.37	0.55	3.86	0.53	550	35.0	0.65	3.37	0.55	3.86	0.53													
470	59.8	0.40	39.2	0.35	40.0	0.35	470	59.8	0.40	39.2	0.35	40.0	0.35	470	59.8	0.40	39.2	0.35	40.0	0.35	470	59.8	0.40	39.2	0.35	40.0	0.35	470	59.8	0.40	39.2	0.35	40.0	0.35													
45												53												55												56											

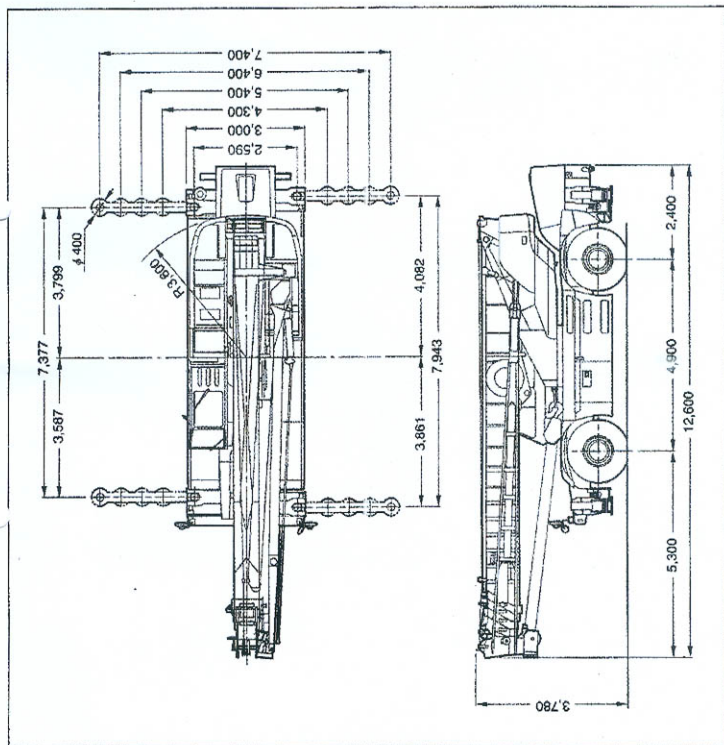
- When the outriggers are used

- | | | |
|--|---|---|
| <p>1. The lifting capacity charts are based on the jib shown on the boom line.</p> <p>2. The lifting capacity chart indicates the maximum load which can be lifted by this crane provided it is level and standing on firm level ground. The values in the chart include the mass of the main hook and slings for hoist operation, and auxiliary hook and slings for jib operation. [600 ton hook (mass: 420kg); 220 ton hook (mass: 270kg); 4.6 ton hook (mass: 120kg)]</p> <p>Within the chart the figures in the area bordered with a thick line are based on structural limitations while other figures are determined by stability limitations.</p> <p>3. The working radii are the actual values allowing for boom and jib deflection. Therefore you must always operate the crane on the basis of the working radius.</p> <p>4. The jib working radius is based on the jib extended to its end of the 38.0m boom. When operating at other boom lengths, use the boom angle alone as the criterion.</p> <p>5. Do not operate the jib when the outriggers are completely retracted.</p> <p>6. The lifting capacities for the over sides vary with the outrigger extension width. Therefore for each outrigger extension condition you should work according to the lifting capacity chart. Use the front line lifting capacity chart for the front line lifting capacity, and the lifting capacity chart of outrigger 5/6 extension for the rear area lifting capacity.</p> | <p>7. The lifting capacity of the model 1 shape is the lifting capacity of the boom minus the mass of all attached hook, slings etc. in the boom, with an upper limit of 4.8 t/hk.</p> <p>[The hook for use with the 4.6 ton shaver is the 4.6 ton hook (mass: 120kg) with one part of it.]</p> <p>8. If the boom length, boom area in jib length, jib angle and working radius exceeds the rated value, use the lifting capacity for the rated value or the next one, whichever gives the smaller lifting capacity.</p> <p>9. If you are working with the boom 1 while the jib is retracted, subtract 2.0 ton from the each lifting capacity of the boom.</p> <p>10. In whatever working condition the corresponding boom critical angle is shown in the chart, the crane can tip over if the boom is lowered below the critical angle even if it is unloaded.</p> <p>Therefore, never lower the boom below these angles.</p> <p>11. If you work with 16 parts of line, use the hook width "marked in the lifting capacity chart" use the rooster shaver and shaver bracket.</p> <p>12. The extended parts of line for each boom length are as indicated in the chart. If you work with a standard number of parts of line, do not exceed 45 kN (10 t) per pin row respectively.</p> <p>13. Crane operation is permissible up to a wind speed of 10m/s. Even in relatively light wind conditions, extra care should be taken when handling loads as essential large wind catching areas.</p> | <p>14. Kato knows no liability whatsoever for damage, crane tipping or other accident caused by crane operators which differ from the reactions contained in the instruction manual and the warning labels.</p> |
|--|---|---|

Duration of treatment (days)	Full exposure (hours)	Pre-treatment exposure (hours)	Temperature of treatment (°C)	P.A. exposure
10	30	30	25	5



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