

K R-35H-V 2 Rough Terrain Crane (Power Jib)

		S	PECIFICATION					
		C	rane Specification					
Crane Perfo	rmance							
Rated Lifting	Capacity	9.60m Boom	35 0 Tonne @ 3 0m	(10 Parts of Line)				
Nated Enting	Capacity	16.25m B.com	22.5 Tonno @ 4.0m	(6 Parts of Line)				
		10.23111 B 00111	22.5 TOILE @ 4.011	(6 Parts of Line)				
		22.90m B 00m	15.5 Tonne @ 5.0m	(6 Parts of Line)				
		29.55m Boom	10.0 Tonne @ 7.0m	(4 Parts of Line)				
		36.20m B 00m	7.0 Tonne @ 8.0m	(4 Parts of Line)				
		8.0m Jib	3.4 Tonne @ 78°	(1 Part of Line)				
		13.20m Jib	2.2 Tonne @ 77°	(1 Part of Line)				
		Rooster Sheave	4.0 I onne	(1 Part of Line)				
Boom Length	1	9.6m - 36.2m						
Jib Length	_	8.0m - 13.2m						
Maximum Li	fting	37.1m (Boom)						
Height Abov	e Ground	50.9m (Jib)						
Line Speed (I	Main)	118m/min (4th la	iyer)					
Line Speed (Auxiliary)	107m/min (3rd la	ayer)					
Hook Speed	(Main)	(Parts of Line 10) 11.8m/min (4th laye	r)				
Hook Speed	(Auxiliary)	(Parts of Line 1)	107m/min (2nd laye	er)				
Boom Derric	king Range	0° ~ 83°	· · · · · ·					
Boom Raisin	g Speed	0°~83°/58 sec						
Boom Extens	sion Speed	9.6m ~ 36.2m/11	5 sec					
Slewing Spee	ed .	2.5 rpm						
Rear Slewing	ı Radius	3,240 mm						
Crane Equir	ment and Struc	ture						
Hoist Equipp	nent	Group 2 Single V	Vinch 2-Stage Speed F	Reduction Type Hydraulic Motor Drive /				
		Spur Gear Reduc	er / Automatic Brake T	Type (with Eoot Brake, Freefall Device)				
		Flow Regulator with Pressure Compensator						
Slowing Equi	nment	Free Lock Chanc	e Switch with Hydrau	ic Motor Drive / Planetary Gear Speed				
Sicwing Equi	pricit	Reducer (Negative Brake Embedded)						
Slow Circle		Ball Bearing Type						
Boom Derric	king Equipment	Direct Press Hydraulic Cylinder Type Flow Regulator with Pressure Componenter						
B oom Extens	tion Equipment	Direct Press mydraulic Cylinder Type, Flow Regulator with Pressure Compensator						
Outriggor		Fully Hydraulic I	H Type (Elect V ortical	Cylinder Medel)				
Equipmont	Type		T Type (Float, Vertical					
Equipment	Extension	6,800 mm (Full E	XLENSION)					
	Range	5,200 mm (Inter	mediate Extension)					
		2,000 mm (Inter	mediate Extension)					
		2,900 mm (Full F	detraction					
Wire Dope	Main	2,340 mm (Full F	$\mathcal{E}(21) = 16 \text{ mm} \times 105 \text{ m}$					
wirekope	Auntilian ($3e_{3}(4o) + 0 \times W$						
	Auxiliary	TWRC 6 × FI(29)	Ø 16 mm × 105m					
Hydraulic E	quipment							
Oil Pump		Double High Pre	ssure V ariable Plunger	Type, Gear + Plunger Type				
Hydraulic Mo	otor	Hoisting and Slev	wing: Axial Plunger Ty	/pe				
Control Valv	e	Multiple Auto Re	ecovery Type (with Pre	essure Compensator, Flow Regulator)				
Cylinder Double A cting Type								
Oil Reservoir		525L						
Safety Equip	oment	ACS (with Overl	oad Protector/Voice A	larm Device), Slewing Automatic Stop				
,		Device, Boom D	erricking and Boom E>	ctension Stop Device, Swing Clearance				
		Restriction Device	ce, Outrigger Extensior	n Range Auto Detection Unit, Boom				
		Freefall Prevention	on Device, Overhoist P	Prevention Device, Drum Lock Device,				
		Drum Hold Safet	y Device, Automatic B	rake Device, Hoist Jam Prevention Device,				
		Hydraulic Safety	Valve, Outrigger Lock	Control Con				
		Hyd. Fluid Overl	neat Alarm Device, Op	erating Oil Filter Clog Warning Device				



Kato SS-350SP-V KR-35H-V2 Rough Terrain Crane (Power Jib) SPECIFICATION

Crane Specification



 Standard Equipment

 Hydraulic Dehumidifying Air Conditioner

 AM/FM Radio Cassette Deck with Clock

 Drum Revolution Indication Device

 Intermittent Roof Wiper (with Washer)

 Optional Components

 Winch Check Camera

 ACS Outside Display Area Display Equipment

 Loud Speaker

 Door Visor



Kato SS-350SP-V KR-35H-V₂ Rough Terrain Crane (Power Jib)

SPECIFICATION Carrier Specification **Driving Performance** Maximum Travelling Speed 49 km/hr Uphill Ability 0.60 (tan θ) Minimum Turning Radius 8.4m (2 Wheel Steering) 5.3m (4 Wheel Steering) Weight and Dimensions Overall Length 11,580 mm approx. Overall Width 2,750 mm approx. **Overall Height** 3,550 mm approx. Distance Between Axles 3,900 mm approx. Treads Front 2,230 mm Rear 2,230 mm Seats 1 Gross Vehicle Weight Overall Weight 32,595 kg approx. 16,260 kg approx. Front Axle Weight Rear Axle Weight 16,335 kg approx. Engine Engine Model Mitsubishi 6D24-TE I (with Turbo) Engine Type 6 Cylinder, Water Cooled 4 Cycle, Direct Injection Type Diesel Engine 11.945L Total Emission Maximum Power 290ps/2,200 rpm Maximum Torque 100kg-m/1,400 rpm Carrier Components and Structure Drive System Full-Time 4 Wheel Drive (4×4) Torque Converter 3 Components, 1 Stage (with Automatic Lock Up Clutch) Transmission Type Automatic and Manual Gear Transmission Type (with transfer differential) Number of Gears 6 Forward Gears, 2 Reverse Gears Axle Type Front and Rear: Full Floating Type Fuel Tank Capacity 300L Main Brake Dual System Combined Hydraulic Pneumatic Type, 4 Wheel Disc Brakes (Double Calliper) Park Brake Mechanical Type, Transmission Braking Internal Expansion Type Auxiliary Brake Exhaust Brake (torque lock-up simultaneous control system through the electric controls), Auxiliary Braking Device for Operation Suspension Front Hydro-Pneumatic Suspension (with Hydraulic Lock Cylinder Type) Hydro-Pneumatic Suspension (with Hydraulic Lock Cylinder Type) Components Rear Steering Type Complete Hydraulic Type Power Steering with Opposite Steering Correction Device Steering Mode Front 2 Wheels, Crab Counter, Independent Front/Rear Wheels (5 Modes), (with Rear Steering Automatic Lock Mechanism) Tyre Size Front 445/95 R25 177E ROAD 445/95 R25 177E ROAD Rear Safety Components Emergency Steering Device, Rear Wheel Steering Lock Device, Miss-shift Prevention Device, Brake Fluid Leakage Alarm Device, Suspension Lock Device, Auxiliary Braking Device for Operation, Overrun Alarm Device, Electrically Housable Side Mirrors, Mirror Right Side of the Boom (with Heater), Radiator Fluid Level Alarm Device, Operating Oil Filter Clog Warning Device **Optional Devices**

Rear Check Camera, Boom Left Hand Side Check Mirrors

				9.6m ~ 3	6.2m Boo	om				
Working	Ou	ıtriggers F	Fully Exte	ended (6.8	m)	Outrigg	gers Interr	nediately	Extended	(6.2m)
Padius		- 36	0° Full Ra	ange			-	Over Sid	e	
(m)	9.6m	16.25m	22.9m	29.55m	36.2m	9.6m	16.25m	22.9m	29.55m	36.2m
(111)	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom
3.0	35.00	22.50	15.50	10.00		35.00	22.50	15.50	10.00	
3.5	30.60	22.50	15.50	10.00	7.00	30.60	22.50	15.50	10.00	7.00
4.0	27.50	22.50	15.50	10.00	7.00	27.50	22.50	15.50	10.00	7.00
4.5	24.70	20.70	15.50	10.00	7.00	24.70	20.70	15.50	10.00	7.00
5.0	22.50	19.30	15.50	10.00	7.00	22.50	19.30	15.50	10.00	7.00
5.5	20.60	17.90	14.40	10.00	7.00	20.60	17.90	14.40	10.00	7.00
6.0	19.10	16.80	13.45	10.00	7.00	19.10	16.80	13.45	10.00	7.00
6.5	16.70	15.80	12.55	10.00	7.00	16.70	15.80	12.55	10.00	7.00
7.0	13.00	14.90	11.85	10.00	7.00	13.00	14.90	11.85	10.00	7.00
8.0		13.10	10.60	9.00	7.00		12.40	10.60	9.00	7.00
9.0		11.20	9.60	8.05	6.40		9.70	9.60	8.05	6.40
10.0		9.45	8.60	7.25	5.80		7.90	8.60	7.25	5.80
11.0		7.80	7.80	6.60	5.30		6.40	7.30	6.60	5.30
12.0		6.50	7.05	6.05	4.90		5.30	6.15	6.05	4.90
13.0		5.50	6.30	5.55	4.50		4.40	5.20	5.55	4.50
14.0			5.45	5.10	4.15			4.50	4.80	4.15
15.0			4.70	4.70	3.85			3.90	4.30	3.85
16.0			4.10	4.35	3.60			3.35	3.80	3.60
17.0			3.60	4.05	3.35			2.90	3.35	3.35
18.0			3.10	3.60	3.15			2.45	2.95	3.10
19.0			2.70	3.15	2.95			2.10	2.55	2.75
20.0			2.30	2.80	2.75			1.75	2.25	2.45
22.0				2.15	2.40				1.65	1.95
24.0				1.60	1.85				1.20	1.45
26.0				1.20	1.45				0.80	1.05
28.0					1.05					0.70
30.0					0.75					0.45
32.0					0.50					
33.0					0.40					
Critical	_	-	-	_	-	-	-	-	-	20°
Boom Angle										
Standard Hook	35t		22			35t		22		
Hook Weight	290 Kg	(220	J Kg	A	290 Kg	(220	j kg	A
Parts of Line	10	6	6	4	4	10	6	6	4	4

Rated Lifting Capacity Table (1)

				9.6m ~ 3	6.2m Bo	om				
Washing	Outrigg	gers Intern	nediately	Extended	(5.3m)	Outrigg	ers Intern	nediately	Extended	(3.9m)
Padius		-	Over Sid	le			-	Over Sid	e	
(m)	9.6m	16.25m	22.9m	29.55m	36.2m	9.6m	16.25m	22.9m	29.55m	36.2m
(111)	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom	Boom
3.0	35.00	22.50	15.50	10.00		35.00	22.50	15.50	10.00	
3.5	30.60	22.50	15.50	10.00	7.00	30.00	22.50	15.50	10.00	7.00
4.0	27.50	22.50	15.50	10.00	7.00	22.20	20.60	15.50	10.00	7.00
4.5	24.70	20.70	15.50	10.00	7.00	17.40	16.60	15.50	10.00	7.00
5.0	22.50	19.30	15.50	10.00	7.00	14.15	13.40	13.90	10.00	7.00
5.5	20.60	17.90	14.40	10.00	7.00	11.80	11.10	12.00	10.00	7.00
6.0	17.50	16.65	13.45	10.00	7.00	10.00	9.35	10.30	10.00	7.00
6.5	14.90	14.05	12.55	10.00	7.00	8.60	8.00	8.90	9.00	7.00
7.0	12.85	12.10	11.85	10.00	7.00	7.50	6.90	7.75	8.10	7.00
8.0		9.25	10.00	9.00	7.00		5.25	6.00	6.50	6.65
9.0		7.25	8.10	8.05	6.40		4.05	4.80	5.25	5.50
10.0		5.85	6.65	6.95	5.80		3.15	3.85	4.30	4.55
11.0		4.75	5.50	6.00	5.30		2.45	3.15	3.55	3.80
12.0		3.90	4.65	5.10	4.90		1.75	2.55	2.95	3.20
13.0		3.20	3.90	4.35	4.50		1.20	2.10	2.50	2.70
14.0			3.35	3.75	3.90			1.60	2.10	2.30
15.0			2.85	3.25	3.45			1.20	1.70	1.95
16.0			2.40	2.80	3.05			0.85	1.35	1.60
17.0			1.95	2.45	2.65			0.55	1.00	1.30
18.0			1.60	2.10	2.35				0.75	1.00
19.0			1.25	1.75	2.00				0.50	0.75
20.0			1.00	1.45	1.70					
22.0				0.95	1.20					
24.0				0.55	0.80					
26.0					0.50					
28.0										
30.0										
32.0										
33.0										
Critical	-	-	-	20°	35°	-	-	25°	43°	53°
Standard Hook	35t		22	2 5t		35t		27	5t	
Hook Weight	290 kg		22) ko		290 kg		22) ko	
Parts of Line	10	6	6	4	4	10	6	6	4	4

Rated Lifting Capacity Table (1)

	9.	6m ~ 36.21	n Boom		
337 1'	Outr	iggers Con	pletely Re	tracted (2.3	34m)
Working	(Block	ked on Ver	tical Cyline	ders) - Ove	r Side
Radius	9.6m	16.25m	22.9m	29.55m	36.2m
(m)	Boom	Boom	Boom	Boom	Boom
3.0	16.40	14.80	13.90	10.00	
3.5	12.35	11.60	11.40	9.20	7.00
4.0	9.75	9.05	9.50	7.90	7.00
4.5	7.90	7.25	8.00	6.85	6.20
5.0	6.50	5.90	6.75	6.00	5.50
5.5	5.45	4.90	5.70	5.25	5.00
6.0	4.60	4.05	4.80	4.65	4.40
6.5	3.95	3.40	4.15	4.10	3.95
7.0	3.40	2.85	3.55	3.60	3.50
8.0		2.00	2.65	2.85	2.80
9.0		1.20	2.00	2.25	2.25
10.0		0.55	1.40	1.75	1.80
11.0			0.90	1.30	1.40
12.0				0.95	1.05
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					
22.0					
24.0					
26.0					
28.0					
30.0					
32.0					
33.0					
Critical	_	40°	54°	61°	67°
Boom Angle	~ ~ ~				0,
Standard Hook	35t		22	.5t	
Hook Weight	290 kg		220) kg	
Parts of Line	10	6	6	4	4

Rated Lifting Capacity Table (1)

	36.2m Boom + 8.0m Jib									
	Outrigg	ers Fully Exte	ended (6.8m)	- 360° Full R	ange					
Boom	5° O	ffset	25° C	Offset	45° C	45° Offset				
Angle	Working	Load	Working	Load	Working	Load				
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)				
83.0	5.2	3.40	7.8	2.10	9.9	1.60				
78.0	9.5	3.40	11.8	2.10	13.6	1.60				
77.0	10.3	3.32	12.6	2.10	14.3	1.60				
75.0	11.9	2.96	14.0	1.98	15.8	1.50				
70.0	15.7	2.30	17.7	1.66	19.2	1.35				
65.0	19.2	1.87	21.0	1.44	22.3	1.21				
60.0	22.5	1.58	24.2	1.26	25.2	1.10				
56.0	25.0	1.40	26.6	1.14	27.4	1.03				
54.0	26.2	1.34	27.8	1.08	28.5	1.00				
52.0	27.3	1.12	28.8	1.04	29.5	0.97				
50.0	28.3	0.92	29.8	0.85	30.4	0.82				
47.0	29.9	0.67	31.2	0.62	31.6	0.62				
43.0	31.8	0.40	32.9	0.38						
Critical	40	00	40)o	14					
Boom Angle	40)	40)	4.)				
Standard Hook			4.	Ot						
Hook Weight	60 kg									
Parts of Line			1							

Rated Lifting Capacity Table (2)

(unit: metric ton)

36.2m Boom + 8.0m Jib									
	Outriggers Intermediately Extended (6.2m) - Over Side								
Boom	5° O	ffset	25° C	Offset	45° C	Offset			
Angle	Working	Load	Working	Load	Working	Load			
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)			
83.0	5.2	3.40	7.8	2.10	9.9	1.60			
78.0	9.5	3.40	11.8	2.10	13.6	1.60			
77.0	10.3	3.32	12.6	2.10	14.3	1.60			
75.0	11.9	2.96	14.0	1.98	15.8	1.50			
70.0	15.7	2.30	17.7	1.66	19.2	1.35			
65.0	19.2	1.87	21.0	1.44	22.3	1.21			
60.0	22.5	1.58	24.2	1.26	25.2	1.10			
56.0	25.0	1.20	26.6	1.08	27.4	1.03			
52.0	27.3	0.75	28.8	0.70	29.3	0.70			
50.0	28.3	0.58	29.8	0.54	30.3	0.54			
48.0	29.4	0.42	30.7	0.41	31.2	0.40			
Critical	14	<u> </u>	4	50	14	<0			
Boom Angle	40)	40	46°		40°			
Standard Hook			4.	Ot					
Hook Weight		60 kg							
Parts of Line			1	l					

	36.2m Boom + 8.0m Jib								
Outriggers Intermediately Extended (5.3m) - Over Side									
Boom	5° O	ffset	25° C	Offset	45° C	Offset			
Angle	Working	Load	Working Load		Working	Load			
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)			
83.0	5.2	3.40	7.8	2.10	9.9	1.60			
78.0	9.5	3.40	11.8	2.10	13.6	1.60			
77.0	10.3	3.32	12.6	2.10	14.3	1.60			
75.0	11.9	2.96	14.0	1.98	15.8	1.50			
70.0	15.7	2.30	17.7	1.66	19.2	1.35			
65.0	19.2	1.87	21.0	1.44	22.3	1.21			
63.0	20.4	1.58	22.4	1.36	23.5	1.16			
60.0	22.2	1.13	24.1	1.00	25.1	0.93			
55.0	25.1	0.57	26.9	0.48	27.7	0.45			
Critical	50	20	50	20	50	20			
Boom Angle	5.	,	5.	9	5.	9			
Standard Hook	4.0t								
Hook Weight		60 kg							
Parts of Line			1	[

Rated Lifting Capacity Table (2)

(unit: metric ton)

36.2m Boom + 8.0m Jib								
Outriggers Intermediately Extended (3.9m) - Over Side								
Boom	5° O	ffset	25° C	Offset	45° Offset			
Angle	Working	Load	Working	Load	Working	Load		
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)		
83.0	5.2	3.40	7.8	2.10	9.9	1.60		
78.0	9.5	3.40	11.8	2.10	13.6	1.60		
77.0	10.3	3.32	12.6	2.10	14.3	1.60		
74.0	12.7	12.7 2.80		1.90	16.4	1.48		
71.0	14.7	2.08	16.9	1.71	18.5	1.38		
68.0	16.6	1.44	18.8	1.19	20.3	1.06		
Critical	64	0	64	<0	61	(())		
Boom Angle	00)	00)	00)		
Standard Hook		4.0t						
Hook Weight		60 kg						
Parts of Line			1	l				

	36.2m Boom + 13.2m Jib								
Outriggers Fully Extended (6.8m) - 360° Full Range									
Boom	5° O	ffset	25° C	25° Offset		Offset			
Angle	Working	Load	Working	Load	Working	Load			
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)			
83.0	6.5	2.20	10.8	1.25	14.2	0.90			
78.0	11.3	2.20	15.4	1.25	18.1	0.90			
77.0	12.3	2.20	16.2	1.24	18.9	0.86			
75.0	14.0	1.99	17.8	1.17	20.3	0.82			
70.0	18.2	1.55	21.6	1.02	23.9	0.76			
65.0	22.1	1.25	25.3	0.89	27.2	0.70			
60.0	25.8	1.04	28.8	0.78	30.2	0.66			
55.0	29.3	0.89	32.0	0.69	33.1	0.61			
52.0	31.3	0.82	33.7	0.65	34.6	0.59			
50.0	32.4	0.72	34.9	0.62	35.6	0.57			
47.0	34.1	0.51	36.3	0.45	36.9	0.45			
45.0	35.2	0.39	37.2	0.35					
Critical	43	20	43	20	14				
Boom Angle	4.	,	4.	,	4.)			
Standard Hook			4.	Ot					
Hook Weight		60 kg							
Parts of Line			1	l					

Rated Lifting Capacity Table (3)

(unit: metric ton)

	36.2m Boom + 13.2m Jib									
Outriggers Intermediately Extended (6.2m) - Over Side										
Boom	5° O	ffset	25° C	Offset	45° Offset					
Angle	Working	Load	Working	Load	Working	Load				
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)				
83.0	6.5	2.20	10.8	1.25	14.2	0.90				
78.0	11.3	2.20	15.4	1.25	18.1	0.90				
77.0	12.3	2.20	16.2	1.24	18.9	0.86				
75.0	14.0	1.99	17.8	1.17	20.3	0.82				
70.0	18.2	1.55	21.6	1.02	23.9	0.76				
65.0	22.1	1.25	25.3	0.89	27.2	0.70				
60.0	25.8	1.04	28.8	0.78	30.2	0.66				
55.0	29.3	0.81	31.9	0.69	33.1	0.61				
52.0	31.3	0.57	33.5	0.54	34.6	0.52				
50.0	32.4	0.43	34.6	0.40	35.6	0.39				
Critical	15	20	15	20	49	20				
Boom Angle	40	5	40	5	40	5				
Standard Hook		4.0t								
Hook Weight		60 kg								
Parts of Line			1	[

	36.2m Boom + 13.2m Jib								
Outriggers Intermediately Extended (5.3m) - Over Side									
Boom	5° O	ffset	25° C	Offset	45° Offset				
Angle	Working	Load	Working	Load	Working	Load			
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)			
83.0	6.5	2.20	10.8	1.25	14.2	0.90			
78.0	11.3	2.20	15.4	1.25	18.1	0.90			
77.0	12.3	2.20	16.2	1.24	18.9	0.86			
75.0	14.0	4.0 1.99 17.8 1.17 20				0.82			
70.0	18.2	1.55	21.6	1.02	23.9	0.76			
65.0	22.1	1.25	25.3	0.89	27.2	0.70			
63.0	23.7	1.15	26.7	0.84	28.4	0.69			
61.0	25.0	1.00	28.1	0.80	29.7	0.67			
56.0	28.2	0.48	31.0	0.40	32.4	0.37			
Critical	5/	10	5/	10	5,	10			
Boom Angle	52	ŧ		ŧ		÷			
Standard Hook		4.0t							
Hook Weight		60 kg							
Parts of Line			1						

Rated Lifting Capacity Table (3)

(unit: metric ton)

36.2m Boom + 13.2m Jib									
Outriggers Intermediately Extended (3.9m) - Over Side									
Boom	5° O	ffset	25° C	Offset	45° C	45° Offset			
Angle	Working	Load	Working	Load	Working	Load			
(°)	Radius (m)	(t)	Radius (m)	(t)	Radius (m)	(t)			
83.0	6.5	2.20	10.8	1.25	14.2	0.90			
78.0	11.3	2.20	15.4	1.25	18.1	0.90			
77.0	12.3	2.20	16.2	1.24	18.9	0.86			
75.0	14.0	1.99	17.8	1.17	20.3	0.82			
72.0	16.5	1.71	20.1	1.07	22.5	0.78			
70.0	18.0	1.46	21.6	1.02	23.9	0.76			
68.0	19.5	1.08	23.0	0.85	25.2	0.70			
Critical	64	<u>s</u> o	61	<u> </u>	660				
Boom Angle	00)	00)	00)			
Standard Hook		4.0t							
Hook Weight		60 kg							
Parts of Line			1	[

Washing							
Dadiua	Stationary on Rubber						
(m)	9.6m Boom		16.25m Boom		22.9m Boom		
(111)	Over	360°	Over	360°	Over	360°	
	Front	Full Range	Front	Full Range	Front	Full Range	
3.0	16.00	8.80	13.00	8.00			
3.5	16.00	8.80	13.00	8.00			
4.0	14.40	7.50	13.00	6.75			
4.5	13.05	6.25	11.80	5.65	8.50	5.35	
5.0	11.85	5.15	10.80	4.60	8.50	5.35	
5.5	10.80	4.30	9.90	3.70	8.50	4.50	
6.0	10.00	3.60	9.10	3.05	8.50	3.80	
6.5	8.70	3.00	8.40	2.50	8.50	3.25	
7.0	7.50	2.50	7.30	2.00	7.80	2.75	
8.0			5.60	1.20	6.25	2.00	
9.0			4.40	0.60	5.05	1.40	
10.0			3.50		4.15	0.90	
11.0			2.75		3.40		
12.0			2.10		2.80		
13.0			1.60		2.30		
14.0					1.90		
15.0					1.50		
16.0					1.20		
17.0					0.90		
18.0					0.65		
Critical	_	_	_	47°	25°	58°	
Boom Angle	_	_	_	· · ·	23	50	
Standard Hook	3	5t		22.	.5t		
Hook Weight	290) kg	220 kg				
Parts of Line	10	10	6	6	6	6	

Rated Lifting Capacity Table (4)

Working							
Radius	Pick & Carry (Travelling Speed Maximum 2 km/h)						
(m)	9.6m	Boom	n 16.25m Boom			22.9m Boom	
(111)	Over	360°	Over	360°	Over	360°	
	Front	Full Range	Front	Full Range	Front	Full Range	
3.0	12.00	6.60	10.00	6.00			
3.5	12.00	6.60	10.00	6.00			
4.0	10.80	5.55	10.00	5.05			
4.5	9.75	4.70	9.15	4.20	7.50	4.00	
5.0	8.90	4.00	8.35	3.45	7.50	4.00	
5.5	8.15	3.35	7.60	2.80	7.50	3.40	
6.0	7.30	2.80	6.95	2.30	6.90	2.85	
6.5	6.60	2.35	6.10	1.85	6.35	2.40	
7.0	5.90	1.90	5.35	1.45	5.85	2.05	
8.0			4.10	0.80	4.65	1.40	
9.0			3.20		3.75	0.90	
10.0			2.55		3.05		
11.0			2.00		2.50		
12.0			1.50		2.05		
13.0			1.10		1.65		
14.0					1.35		
15.0					1.10		
16.0					0.85		
17.0					0.60		
Critical	_	_	_	50°	35°	60°	
Boom Angle				50	55	00	
Standard Hook	3	5t		22.5t			
Hook Weight	290) kg	220 kg				
Parts of Line	10	10	6	6	6	6	

Rated Lifting Capacity Table (4)

Notes for the Rated Lifting Capacity Chart

Rated Lifting Capacity Chart (1) (2) When Using Outriggers

- 1. The rated lifting capacities are the maximum load guaranteed on firm level ground with the crane set horizontal and includes the weight of the hook block and other lifting equipment. The capacities enclosed in bold lines are based on the structural strength of the machine and the other values are based on the stability of the machine.
- 2. The operating radii as given in the table are the actual values including the deflection of the boom. Therefore operate the crane based on the operating radius.
- 3. The operating radii shown for jib operations are based on the values obtained when the jib is attached to the 36.2m boom (full extension). When the boom is not fully extended (28.0m) the jib operations should be performed on the basis of boom angle and not on the operating radius.
- 4. Do not perform jib operations with the outriggers in the minimum extended state.
- 5. The lifting capacity for the respective operating ranges will differ according to the outrigger extension. In general, operate the crane with the outriggers fully extended for safe operation. If you cannot extend the outriggers fully due to obstacles that cannot be removed, obtain approval from the site manager then check the crane capacity for the respective operating ranges on the rated lifting capacity charts provided.



Outrigger	Intermediately	Intermediately	Intermediately	Fully
Extension Status	Extended (6.2m)	Extended (5.3m)	Extended (3.9m)	Retracted
Range a°	35	30	20	3

6. When the boom length is 9.6m the rated lifting capacities for the rooster sheave are equivalent to the rated lifting capacity for the boom minus the weight (290 kg) of the 35 ton hook and have a limit of 4,000 kg. When the boom length is above 9.6m and up to 36.2m, the rated lifting capacities for the rooster sheave are equivalent to the rated lifting capacity for the boom minus the weight (220 kg) of the 22.5 ton hook and have a limit of 4,000 kg.

[Rooster sheave hook: 4 ton hook (weight 60 kg), 1 line].

- 7. When the boom length exceeds specified length operate according to the smaller rated lifting capacity out of the specified length or the boom length one level up.
- 8. When using the boom with the jib installed the rated lifting capacities are equivalent to the rated lifting capacity of the boom when the outrigger extension within 6.8m, 6.2m or 5.3m minus the weight of 2.2 ton and minus the weight of 3.0 ton when the outrigger extension is 3.9m.

When the jib is installed do not operate the rooster sheave and when the outriggers are in the minimum extended state and the jib is installed, do not operate the boom.

Notes for the Rated Lifting Capacity Chart

Rated Lifting Capacity Chart (1) (2) When Using Outriggers

- 9. The critical boom angles for each operation status are shown on the rated lifting capacity charts. If the boom angle is lowered to less than the critical boom angle the crane will tip over even without a load.
- 10. The standard number of parts of line relating to each boom length is shown in the rated lifting capacity charts. When the standard number of parts of line is not used, each wire rope is limited to 37.3kN (3.8tf).
- 11. When using the jib if the jib offset angle exceeds the specified angle operations should be based on the rated lifting capacity for the jib offset angle that is one larger than the specified angle.
- 12. In general, free fall is used to lower the hook only. If it is necessary to lower a load by free fall, its weight should be less than 20% of the rated lifting capacity and sudden braking should not be allowed.
- 13. The rated lifting capacity chart when the outriggers are in the minimum extended state applies to only the crane with the H type outrigger.
- 14. The rated lifting capacities do not include wind interference. Stop the operation when a peak of wind speed is 10m/sec above.
- 15. The crane will tip over or be damaged if operated with a load exceeding that specified in the rated lifting capacity chart or not conforming to correct handling. Insurance will not cover any damage that occurs in these situations.

Notes for the Rated Lifting Capacity Chart

Rated Lifting Capacity Chart (3) When Not Using Outriggers

- The rated lifting capacities are the maximum loads guaranteed on firm level ground with the tyres at the specified pressure and the suspension lock cylinders fully retracted. They include the weight of the hook and the lifting equipment. The capacities enclosed in bold lines are based on the structural strength of the machine and the other values are based on the stability of the machine. [Tyre air pressure: 900kPa (9.0 kgf/cm²)]
- 2. Rated lifting capacities in the front area differ from those for the full working area. Great care should be taken when transferring from over front to over side as there is a danger of overloading.



Crane Operation	Stationary Lifting	Mobiling
Range a°	1	1

- 3. Do not carry out any boom operations, jib operations and free fall operation with the boom length exceeding 22.9m.
- 4. Apply the parking brake and brake lock when performing stationary lifting.
- 5. For mobiling place the shift lever in 1st and turn the ultra-low speed switch ON.
- 6. It is very dangerous for the load to swing while mobiling. Therefore hold the load just off the ground so that it can be lowered onto the ground immediately if you sense any danger and travel at less than 2 km/h. Avoid abrupt acceleration, cornering and braking.
- 7. Never perform crane operations while mobiling. Also apply the slewing brake.
- 8. As well as the above items, perform operations according to caution items 2, 6, 7, 9, 10, 14, 15 for when using outriggers.

Working Range Diagram



Caution

- 1. The diagram above does not allow for boom and jib deflections.
- 2. The chart above is based on operation with all outriggers at full extension.

Minimum Road Width for Right-Angle Turn

Right Turn in 2-Wheel Steering Mode



Right Turn in 4-Wheel Steering Mode



NOTE: Kato Products and Specifications are subject to improvements and changes without notice