

KATO KR-20H-L ROUGH TERRAIN HYDRAULIC CRANE

CHART 1: 8.65m – 28.0m boom (outriggers are used) TOTAL RATED LOAD IN TONNES

WORKING RADIUS (m)	OUTRIGGERS AT MAXIMUM EXTENSION (360°)				OUTRIGGERS AT MEDIUM EXTENSION (OVER THE SIDE)				OUTRIGGERS AT MEDIUM EXTENSION (OVER THE SIDE)				OUTRIGGERS AT MEDIUM EXTENSION (OVER THE SIDE)				OUTRIGGERS AT MINIMUM EXTENSION (OVER THE SIDE)				WORKING RADIUS (m)						
	8.65m BOOM	13.6m BOOM	18.4m BOOM	23.2m BOOM	28.0m BOOM	8.65m BOOM	13.6m BOOM	18.4m BOOM	23.2m BOOM	28.0m BOOM	8.65m BOOM	13.6m BOOM	18.4m BOOM	23.2m BOOM	28.0m BOOM	8.65m BOOM	13.6m BOOM	18.4m BOOM	23.2m BOOM	28.0m BOOM		8.65m BOOM	13.6m BOOM	18.4m BOOM	23.2m BOOM	28.0m BOOM	
2.0	20.00*	10.00	8.00			20.00*	10.00	8.00			18.00	10.00	7.40			9.00	9.00	7.40			9.00	9.00	7.40			2.0	
2.5	20.00*	10.00	8.00	6.50		20.00*	10.00	8.00	6.50		18.00	10.00	7.40	5.10		9.00	9.00	7.40	5.10		9.00	9.00	7.40	5.10		2.5	
3.0	20.00*	10.00	8.00	6.50		20.00*	10.00	8.00	6.50		12.00	10.00	7.40	5.10		6.70	7.10	6.75	5.10		6.70	7.10	6.75	5.10		3.0	
3.5	17.00	10.00	8.00	6.50	5.00	17.00	10.00	8.00	6.50	5.00	9.00	9.50	7.40	5.10	3.80	5.00	5.50	5.10	3.50	3.50	5.00	5.50	5.10	3.50	3.50	3.5	
4.0	14.80	10.00	8.00	6.50	5.00	14.80	10.00	8.00	6.50	5.00	7.00	7.40	7.40	5.10	3.80	4.00	4.35	4.50	3.50	3.50	4.00	4.35	4.50	3.50	3.50	4.0	
4.5	12.80	10.00	8.00	6.50	5.00	12.80	10.00	8.00	6.50	5.00	5.60	6.00	6.15	5.10	3.80	3.20	3.55	3.70	3.10	3.10	3.20	3.55	3.70	3.10	3.10	4.5	
5.0	11.20	9.80	7.90	6.50	5.00	11.00	9.80	7.90	6.50	5.00	4.65	5.00	5.10	5.10	3.80	2.65	2.95	3.10	2.70	2.70	2.65	2.95	3.10	2.70	2.70	5.0	
5.5	10.00	9.10	7.45	6.20	5.00	9.20	9.10	7.45	6.20	5.00	3.90	4.20	4.35	4.45	3.80	2.20	2.50	2.60	2.35	2.35	2.20	2.50	2.60	2.35	2.35	5.5	
6.0	9.00	8.40	7.00	5.90	5.00	7.80	8.10	7.00	5.90	5.00	3.30	3.60	3.75	3.80	3.80	1.85	2.15	2.25	2.30	2.410	1.85	2.15	2.25	2.30	2.410	6.0	
6.5		7.80	6.55	5.50	4.80		7.00	6.55	5.50	4.80		3.15	3.25	3.35	3.40	1.80	1.95	2.00	1.85	1.85	1.80	1.95	2.00	1.85	1.85	6.5	
7.0		7.30	6.20	5.20	4.60		6.10	6.20	5.20	4.60		2.75	2.85	2.90	3.00	1.55	1.65	1.75	1.60	1.60	1.55	1.65	1.75	1.60	1.60	7.0	
8.0		6.10	5.60	4.70	4.10		4.80	4.90	4.70	4.10		2.10	2.20	2.30	2.35	1.15	1.25	1.30	1.25	1.25	1.15	1.25	1.30	1.25	1.25	8.0	
9.0		4.90	5.05	4.20	3.70		3.90	4.00	4.05	3.70		1.65	1.75	1.85	1.90	0.85	0.95				0.85	0.95				9.0	
10.0		4.05	4.20	3.80	3.40		3.20	3.30	3.35	3.40		1.30	1.40	1.50	1.55	0.55	0.70				0.55	0.70				10.0	
11.0		3.40	3.55	3.45	3.05		2.70	2.75	2.80	2.85		1.05	1.15	1.20	1.25	0.30	0.40				0.30	0.40				11.0	
12.0		3.00	3.05	3.05	2.80		2.35	2.35	2.40	2.45		0.90	0.90	0.95	1.00						0.90	0.95	1.00			12.0	
13.0		2.60	2.65	2.55	2.55		2.00	2.00	2.05	2.10		0.70	0.70	0.75	0.80						0.70	0.75	0.80			13.0	
14.0		2.25	2.30	2.35	2.35		1.75	1.75	1.75	1.80		0.50	0.50	0.55	0.60						0.50	0.55	0.60			14.0	
15.0		2.00	2.00	2.05	2.05		1.50	1.50	1.55	1.55		0.85	0.85	0.90	0.95											15.0	
16.0			1.75	1.80	1.80		1.35	1.35	1.35	1.35				0.70	0.75											16.0	
17.0			1.55	1.60	1.60		1.15	1.15	1.15	1.15				0.55	0.60											17.0	
18.0			1.35	1.40	1.40		0.95	0.95	0.95	1.00				0.45	0.50											18.0	
19.0			1.15	1.20	1.20		0.80	0.80	0.80	0.85																19.0	
20.0			1.00	1.05	1.05		0.65	0.65	0.70	0.75																20.0	
21.0				0.90	0.90			0.55	0.55	0.55																21.0	
22.0				0.80	0.80			0.45	0.45	0.45																22.0	
23.0				0.65	0.65																						23.0
24.0				0.55	0.55																						24.0
25.0				0.45	0.45																						25.0
CRITICAL BOOM ANGLE										25°				28°	43°			26°	43°	55°			48°	64°	69°	CRITICAL BOOM ANGLE	
Standard Hook			20t hook					20t hook					20t hook					20t hook					20t hook				Standard Hook
Hook Mass			200kg					200kg					200kg					200kg					200kg				Hook Mass
Parts of Line		7*,6	4	4	4	7*,6	4	4	4	4	7*,6	4	4	4	4	6	4	4	4	4	4	4	4	4	4	4	Parts of Line

Note: * marked rated lifting capacities is for 7 part lines
Capacities above bold outline of area of chart are limited by crane structural strength. All other loads are limited by 75% of tipping.

KATO KR-20H-L ROUGH TERRAIN HYDRAULIC CRANE

CHART 2: 8.65m – 28.0m boom (outriggers + jib are used) TOTAL RATED LOAD IN TONNES

28.0m Boom + 7.0 Jib

OUTRIGGERS AT MAXIMUM EXTENSION (5.4m) (360°)										OUTRIGGERS AT MEDIUM EXTENSION (4.7m) (OVER THE SIDE)										OUTRIGGERS AT MEDIUM EXTENSION (3.7m) (OVER THE SIDE)									
Boom Angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom Angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom Angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°				
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	4.8	2.50	7.0	1.70	9.0	1.30	9.7	0.75	82	4.8	2.50	7.0	1.70	9.0	1.30	9.7	0.75	82	4.8	2.50	7.0	1.70	9.0	1.30	9.7	0.75			
80	6.3	2.50	8.0	1.70	10.2	1.30	10.8	0.75	80	8.0	2.50	8.0	1.70	10.2	1.30	10.8	0.75	80	6.3	2.50	8.0	1.70	10.2	1.30	10.8	0.75			
75	9.8	2.50	11.6	1.70	13.0	1.30	13.4	0.75	75	9.8	2.50	11.6	1.70	13.0	1.30	13.4	0.75	75	9.1	2.50	11.0	1.70	12.4	1.30	12.9	0.75			
70	12.5	2.00	14.3	1.52	15.6	1.23	15.8	0.75	70	12.5	2.00	14.3	1.52	15.6	1.23	15.8	0.75	70	9.6	2.33	11.6	1.70	13.0	1.30	13.4	0.75			
65	15.2	1.56	16.9	1.29	18.0	1.13	18.1	0.75	65	13.6	1.81	15.4	1.43	16.6	1.20	16.7	0.75	65	10.1	2.10	12.2	1.68	13.5	1.29	13.9	0.75			
63	16.2	1.44	17.9	1.11	18.9	1.09	19.1	0.75	63	14.1	1.68	15.9	1.39	17.1	1.19	17.2	0.75	63	11.2	1.75	13.2	1.43	14.6	1.26	14.8	0.75			
60.5	17.7	1.27	19.2	1.08	20.0	1.00			60.5	14.6	1.54	16.4	1.29	17.5	1.16	17.7	0.75	60.5	12.2	1.45	14.2	1.19	15.5	1.03	15.8	0.75			
60	17.9	1.22	19.4	1.05	20.3	0.96			60	15.1	1.38	16.9	1.16	18.0	1.06	18.1	0.75	60	13.8	1.06	15.7	0.85	16.9	0.75	17.2	0.75			
55	20.1	0.82	21.6	0.71	22.2	0.61			55	16.1	1.17	17.9	0.98	18.9	0.91	19.0	0.75	55	14.8	0.83	16.7	0.66	17.8	0.58	18.1	0.59			
50	22.3	0.50	23.6	0.45	24.0	0.41			50	17.5	0.88	19.3	0.74	20.2	0.67			50	15.3	0.72	17.2	0.57	18.3	0.51	18.5	0.52			
48	23.1	0.40	24.4	0.35	24.7	0.32			48	19.9	0.49	21.4	0.43	22.1	0.40			48	16.2	0.55	18.1	0.42	19.1	0.38					
45	24.5	0.26	25.5	0.24					45	20.8	0.37	22.2	0.33	22.9	0.29			45											
									51	21.7	0.26	23.0	0.23					51											
									50	22.2	0.20							50											
CRITICAL BOOM ANGLE Standard Hook	43°	43°	43°	43°	46°	46°	61°	1	CRITICAL BOOM ANGLE Standard Hook	48°	48°	49°	51°	51°	61°	1	CRITICAL BOOM ANGLE Standard Hook	60°	60°	60°	60°	60°	60°	60°	62°				
	3.2t hook	60kg	60kg	60kg	Parts of Line	Parts of Line	Parts of Line	Parts of Line		3.2t hook	60kg	60kg	60kg	60kg	60kg	60kg		3.2t hook	60kg	60kg	60kg	60kg	60kg	60kg	1				

28.0m Boom + 11.4 Jib

OUTRIGGERS AT MAXIMUM EXTENSION (5.4m) (360°)										OUTRIGGERS AT MEDIUM EXTENSION (4.7m) (OVER THE SIDE)										OUTRIGGERS AT MEDIUM EXTENSION (3.7m) (OVER THE SIDE)									
Boom Angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom Angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°		Boom Angle (°)	Offset 5°		Offset 25°		Offset 45°		Offset 60°				
	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)		Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	Working radius (m)	Load (ton)	
82	6.0	1.50	9.5	0.90	12.7	0.75	13.9	0.45	82	6.0	1.50	9.5	0.90	12.7	0.75	13.9	0.45	82	6.0	1.50	9.5	0.90	12.7	0.75	13.9	0.45			
80	7.6	1.50	11.2	0.90	13.9	0.75	14.9	0.45	80	7.6	1.50	11.2	0.90	13.9	0.75	14.9	0.45	80	7.6	1.50	11.2	0.90	13.9	0.75	14.9	0.45			
75	11.3	1.50	14.5	0.89	16.9	0.74	17.5	0.45	75	11.3	1.50	14.5	0.89	16.9	0.74	17.5	0.45	75	11.3	1.50	14.5	0.89	16.9	0.74	17.5	0.45			
70	14.6	1.31	17.4	0.82	19.6	0.71	20.2	0.45	70	14.6	1.31	17.4	0.82	19.6	0.71	20.2	0.45	70	13.0	1.44	16.1	0.85	18.3	0.73	18.9	0.45			
65	17.7	1.11	20.3	0.77	22.1	0.68	22.5	0.45	65	17.8	1.08	20.3	0.77	22.1	0.68	22.5	0.45	65	14.5	1.12	17.4	0.82	19.6	0.71	20.2	0.45			
60	20.7	0.94	23.1	0.72	24.6	0.66			60	18.3	1.00	20.9	0.75	22.7	0.67	23.0	0.45	60	14.8	1.07	17.9	0.81	19.8	0.70	20.5	0.45			
58.5	21.6	0.83	24.0	0.71	25.3	0.65			58.5	18.9	0.92	21.5	0.73	23.2	0.66			58.5	16.8	0.70	19.7	0.55	21.6	0.47	22.1	0.45			
55	23.4	0.61	25.6	0.54	26.5	0.51			55	20.4	0.69	23.0	0.55	24.5	0.49			55	17.4	0.61	20.2	0.49	22.0	0.41	22.5	0.41			
49	26.2	0.32	28.2	0.28	28.9	0.27			49	23.0	0.37	25.4	0.29	26.5	0.25			49											
47	27.1	0.24	29.0	0.21					47	23.5	0.31	25.8	0.25	26.9	0.21			47											
CRITICAL BOOM ANGLE Standard Hook	45°	45°	45°	45°	47°	47°	63°	1	CRITICAL BOOM ANGLE Standard Hook	52°	52°	52°	52°	52°	62°	1	CRITICAL BOOM ANGLE Standard Hook	63°	63°	63°	63°	63°	63°	63°	63°				
	3.2t hook	60kg	60kg	60kg	Parts of Line	Parts of Line	Parts of Line	Parts of Line		3.2t hook	60kg	60kg	60kg	60kg	60kg	60kg		3.2t hook	60kg	60kg	60kg	60kg	60kg	60kg	1				

Capacities above bold outline of area of chart are limited by crane structural strength. All other loads are limited by 75% of tipping.