

Komatsu LW100-1

Rated Lifting Capacity

Radius (m)	Outriggers Fully Extended (4.75m)					
	4.1 Boom	7.6 Boom	11.1 Boom	14.5 Boom	18.0 Boom	21.5 Boom
1.0	10.00	5.00				
1.5	10.00	5.00	5.00			
2.0	10.00	5.00	5.00	4.00		
2.5	10.00	5.00	5.00	4.00	4.00	
3.0	8.00	5.00	5.00	4.00	4.00	2.00
3.5		5.00	5.00	4.00	4.00	2.00
4.0		5.40	5.00	4.00	4.00	2.00
4.5		4.60	4.40	4.00	3.60	2.00
5.0		4.20	3.90	3.55	3.20	2.00
5.5		3.80	3.50	3.20	2.90	2.00
6.0		3.40	3.15	2.90	2.70	2.00
6.5		3.10 (6.4m)	2.90	2.70	2.50	1.90
7.0			2.65	2.50	2.30	1.80
8.0			2.25	2.10	1.95	1.60
9.0			1.90	1.80	1.70	1.45
10.0			1.58(9.9m)	1.55	1.50	1.30
11.0				1.35	1.33	1.20
12.0				1.15	1.14	1.10
13.0				1.00	1.00	1.00
14.0				0.92(13.4m)	0.90	0.86
15.0					0.77	0.76
16.0					0.65	0.67
17.0					0.56(16.8m)	0.58
18.0						0.50
19.0						0.42
20.0						0.35
21.0						0.33(20.3M)
Critical Boom Angle						

Working Radius (m)	Outriggers Middle Extended (4.10m)					
	4.1 Boom	7.6 Boom	11.1 Boom	14.5 Boom	18.0 Boom	21.5 Boom
1.0	10.00	5.00				
1.5	10.00	5.00	5.00			
2.0	10.00	5.00	5.00	4.00		
2.5	9.40	5.00	5.00	4.00	4.00	
3.0	7.80	5.00	5.00	4.00	4.00	2.30
3.5		5.00	5.00	4.00	4.00	2.00
4.0		5.00	5.00	4.00	4.00	2.00
4.5		4.60	4.40	4.00	3.60	2.00
5.0		4.20	3.90	3.55	3.20	2.00
5.5		3.80	3.50	3.20	2.90	2.00
6.0		3.40	3.15	2.90	2.70	2.00
6.5		3.05(6.4m)	2.85	2.70	2.50	1.90
7.0			2.45	2.50	2.30	1.80
8.0			1.85	2.08	1.95	1.60
9.0			1.44	1.65	1.70	1.45
10.0			1.15(9.9M)	1.32	1.44	1.30
11.0				1.07	1.18	1.20
12.0				0.85	0.98	1.05
13.0				0.65	0.80	0.89
14.0				0.59(13.4M)	0.63	0.73
15.0					0.50	0.59
16.0					0.38	0.47
17.0					0.30(16.8)	0.36
18.0						0.27
19.0						0.20
20.0						
21.0						
Critical Boom Angle						24°

Radius (m)	Outriggers Middle Extended (3.40m)					
	4.1 Boom	7.6 Boom	11.1 Boom	14.5 Boom	18.0 Boom	21.5 Boom
1.0	10.00	5.00				
1.5	10.00	5.00	5.00			
2.0	10.00	5.00	5.00	4.00		
2.5	8.60	5.00	5.00	4.00	4.00	
3.0	7.30	5.00	5.00	4.00	4.00	2.00
3.5		5.00	5.00	4.00	4.00	2.00
4.0		5.40	5.00	4.00	4.00	2.00
4.5		4.35	4.20	4.00	3.60	2.00
5.0		3.50	3.40	3.55	3.20	2.00
5.5		2.90	2.80	3.06	2.90	2.00
6.0		2.45	2.35	2.60	2.70	2.00
6.5		2.15 (6.4m)	2.00	2.23	2.35	1.90
7.0			1.71	1.93	2.05	1.80
8.0			1.26	1.47	1.60	1.60
9.0			0.90	1.14	1.25	1.34
10.0			0.64 (9.9m)	0.87	1.00	1.08
11.0				0.64	0.78	0.88
12.0				0.45	0.59	0.69
13.0				0.29	0.44	0.53
14.0				0.24 (13.4m)	0.30	0.40
15.0					0.20 (14.9m)	0.28
16.0						0.20 (15.9m)
Critical Boom Angle					31°	41°

Working Radius (m)	Outriggers Middle Extended (2.80m)					
	4.1 Boom	7.6 Boom	11.1 Boom	14.5 Boom	18.0 Boom	21.5 Boom
1.0	10.00	5.00				
1.5	10.00	5.00	5.00			
2.0	9.60	5.00	5.00	4.00		
2.5	7.90	5.00	5.00	4.00	4.00	
3.0	6.60	5.00	5.00	4.00	4.00	2.00
3.5		5.00	4.90	4.00	4.00	2.00
4.0		3.85	3.70	4.00	4.00	2.00
4.5		3.05	2.95	3.20	3.35	2.00
5.0		2.50	2.39	2.60	2.75	2.00
5.5		2.05	1.95	2.19	2.30	2.00
6.0		1.73	1.63	1.85	1.98	2.00
6.5		1.50 (6.4m)	1.35	1.57	1.70	1.78
7.0			1.14	1.35	1.47	1.55
8.0			0.72	1.00	1.12	1.20
9.0			0.43	0.69	0.85	0.93
10.0			0.22 (9.9m)	0.45	0.60	0.71
11.0				0.27	0.42	0.52
12.0				0.20 (11.4m)	0.26	0.36
13.0					0.20 (12.5m)	0.23
14.0						0.20 (13.3m)
15.0						
16.0						
Critical Boom Angle				34°	44°	51°

Radius (m)	Outriggers Middle Extended (2.20m)					
	4.1 Boom	7.6 Boom	11.1 Boom	14.5 Boom	18.0 Boom	21.5 Boom
1.0	10.00	5.00				
1.5	8.00	5.00	5.00			
2.0	6.25	5.00	5.00	4.00		
2.5	5.05	5.00	4.70	4.00	4.00	
3.0	4.15	3.90	3.80	4.00	4.00	2.00
3.5		3.20	3.10	3.30	3.45	2.00
4.0		2.53	2.43	2.65	2.80	2.00
4.5		2.00	1.90	2.14	2.25	2.00
5.0		1.62	1.52	1.74	1.85	1.95
5.5		1.32	1.22	1.42	1.55	1.64
6.0		1.08	0.95	1.19	1.30	1.39
6.5		0.89 (6.4m)	0.71	0.99	1.10	1.19
7.0			0.52	0.78	0.94	1.02
8.0			0.22	0.48	0.64	0.74
9.0			0.20 (8.1m)	0.25	0.40	0.50
10.0				0.20 (9.2m)	0.22	0.32
11.0					0.20 (10.1m)	0.20 (10.8m)
Critical Boom Angle			38°	48°	55°	59°

Working Radius (m)	Outriggers Minimum Extended (1.65m)					
	4.1 Boom	7.6 Boom	11.1 Boom	14.5 Boom	18.0 Boom	21.5 Boom
1.0	10.00	5.00				
1.5	8.00	5.00	5.00			
2.0	6.25	5.00	5.00	4.00		
2.5	4.15	3.85	3.70	4.00	4.00	
3.0		2.70	2.60	2.85	3.00	2.00
3.5		2.02	1.92	2.15	2.27	2.00
4.0		1.54	1.44	1.65	1.80	1.88
4.5		1.19	1.08	1.30	1.43	1.52
5.0		0.90	0.77	1.03	1.15	1.24
5.5		0.63	0.52	0.78	0.94	1.02
6.0		0.44	0.31	0.58	0.74	0.84
6.5		0.30 (6.4m)	0.20 (6.3m)	0.41	0.56	0.66
7.0				0.26	0.42	0.52
8.0				0.20 (7.2m)	0.20 (7.9m)	0.29
9.0						0.20 (8.5m)
10.0						
11.0						
Critical Boom Angle			52°	59°	63°	66°

JIB RATED LIFTING CAPACITY (21.5m Boom + 3.4m Jib)

Angle (°)	Outriggers Fully Extended (4.75m)		
	Offset 0°	Offset 20°	Offset 40°
83.0	1.20	0.86	0.48
80.0	1.20	0.86	0.48
75.0	1.20	0.77	0.48
72.0	1.20	0.72	0.48
70.0	1.15	0.69	0.48
65.0	0.93	0.62	0.48
60.0	0.77	0.57	0.46
55.0	0.66	0.53	0.45
50.0	0.56	0.50	0.44
45.0	0.49	0.45	0.42
40.0	0.43	0.40	0.40
35.0	0.39	0.37	
30.0	0.36	0.34	
25.0	0.30	0.30	
20.0	0.26	0.26	
15.0	0.23		
10.0	0.22		
Critical Boom Angle		20°	40°

Boom Angle (°)	Outriggers Middle Extended (4.10m)		
	Offset 0°	Offset 20°	Offset 40°
83.0	1.20	0.86	0.48
80.0	1.20	0.86	0.48
75.0	1.20	0.77	0.48
72.0	1.20	0.72	0.48
70.0	1.15	0.69	0.48
65.0	0.93	0.62	0.48
60.0	0.77	0.57	0.46
55.0	0.66	0.53	0.45
50.0	0.56	0.50	0.44
45.0	0.44	0.42	0.42
40.0	0.33	0.32	0.31
35.0	0.24	0.23	
30.0			
25.0			
20.0			
15.0			
10.0			
Critical Boom Angle	32°	33°	40°

Boom Angle (°)	Outriggers Middle Extended (3.40m)		
	Offset 0°	Offset 20°	Offset 40°
83.0	1.20	0.86	0.48
80.0	1.20	0.86	0.48
75.0	1.20	0.77	0.48
72.0	1.20	0.72	0.48
70.0	1.15	0.69	0.48
65.0	0.93	0.62	0.48
60.0	0.72	0.57	0.46
55.0	0.49	0.46	0.44
50.0	0.33	0.30	0.3
45.0	0.20		
40.0			
35.0			
30.0			
25.0			
20.0			
15.0			
10.0			
Critical Boom Angle	45°	46°	46°

Angle (°)	Outriggers Middle Extended (2.80m)		
	Offset 0°	Offset 20°	Offset 40°
83.0	1.20	0.86	0.48
80.0	1.20	0.86	0.48
75.0	1.20	0.77	0.48
72.0	1.20	0.72	0.48
70.0	1.06	0.69	0.48
65.0	0.70	0.62	0.48
60.0	0.43	0.39	0.37
55.0	1.24	0.22	0.21
Critical Boom Angle	54°	55°	55°

Boom Angle (°)	Outriggers Middle Extended (2.20m)		
	Offset 0°	Offset 20°	Offset 40°
83.0	1.20	0.86	0.48
80.0	1.20	0.86	0.48
75.0	1.19	0.77	0.48
72.0	0.86	0.72	0.48
70.0	0.70	0.61	0.48
65.0	0.37	0.32	0.3
60.0			
55.0			
Critical Boom Angle	62°	62°	63°

Boom Angle (°)	Outriggers Minimum Extended (1.65m)		
	Offset 0°	Offset 20°	Offset 40°
83.0	1.20	0.86	0.48
80.0	1.20	0.86	0.48
75.0	0.76	0.63	0.48
72.0	0.47	0.39	0.35
70.0	0.33	0.27	0.24
65.0			
60.0			
55.0			
Critical Boom Angle	68°	69°	70°

Stationary on rubber, Pick &
carry (less than 2km/H) (over

Working Radius (m)	Without Outriggers	
	4.1 Boom	7.6 Boom
1.0	1.00	1.00
1.5	1.00	1.00
2.0	1.00	1.00
2.5	1.00	1.00
3.0	1.00	1.00
3.5		1.00
4.0		1.00
4.5		1.00
5.0		1.00
5.5		0.50
6.0		0.50
6.4		0.50
Critical Boom Angle		