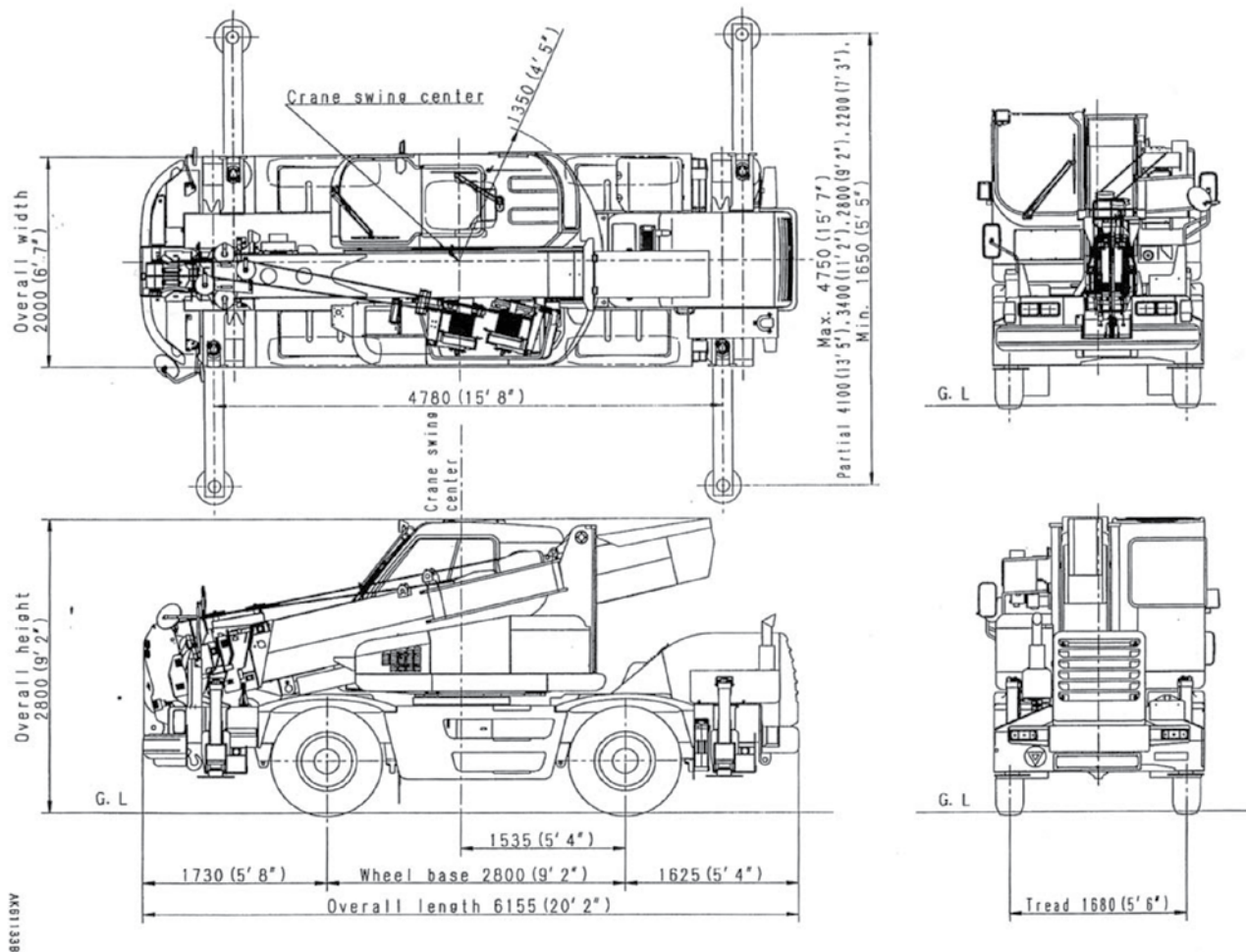


10 TONNE

KOMATSU LW100-1

Dimensions



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KOMATSU LW100-1

Specifications

[Machines equipped with H-shaped outrigger]

PERFORMANCE			
● Crane capacity	Boom length	Capacity	Conditions
	4.1 m (13 ft 5 in)	10 t x 2.5 m (8 ft 2 in) (10 t hook specification) 4.9 t x 3.0 m (9 ft 10 in) (4.9 t hook specification)	Outrigger fully extended, 360° operations
	7.6 m (24 ft 11 in)	5.0 t x 4.0 m (13 ft 1 in) (10 t hook specification) 4.9 t x 4.0 m (13 ft 1 in) (4.9 t hook specification)	
	11.1 m (36 ft 5 in)	5.0 t x 4.0 m (13 ft 1 in) (10 t hook specification) 4.9 t x 4.0 m (13 ft 1 in) (4.9 t hook specification)	
	14.5 m (45 ft 17 in)	4.0 t x 4.5 m (14 ft 9 in) (10 t hook specification) 4.0 t x 4.5 m (14 ft 9 in) (4.9 t hook specification)	
	18.0 m (59 ft 1 in)	4.0 t x 4.0 m (13 ft 1 in) (10 t hook specification) 4.0 t x 4.0 m (13 ft 1 in) (4.9 t hook specification)	
	21.5 m (70 ft 6 in)	2.0 t x 6.0 m (19 ft 8 in) (10 t hook specification) 2.0 t x 6.0 m (19 ft 8 in) (4.9 t hook specification))	
	7.6 m (24 ft 11 in)	1.0 t x 5.0 m (16 ft 5 in)	Outrigger not used, over-front operations
	11.1 m (36 ft 5 in)	4.05 t x 1.5 m (4 ft 11 in)	With suspension lock, outriggers not used, over-front operations
	4.1 m (13 ft 5 in)	3.4 t x 1.0 m (3 ft 3 in)	With suspension lock, outriggers not used, 360° operations
● Main winch line speed (high-low) 5 levels		117 – 62 m (383 ft 10 in – 203 ft 5 in)/min	
● Auxiliary winch line speed (high-low) 4 levels		108 – 57 m (354 ft 4 in – 187 ft)/min	
● Time taken to raise boom (–13° – 83°)		31 sec	
● Time taken to extend boom (4.1 m – 21.5 m (13 ft 5 in – 70 ft 6 in))		59 sec	
● Travel speed		0 – 49 km/h (0 – 30 MPH)	
● Min. turning radius	2-wheel steering	7.11 m (23 ft 4 in)	
	4-wheel steering	3.95 m (13 ft)	
WEIGHT			
● Operating weight (not including operator)		12,750 kg (28,114 lb)	
BOOM			
● Boom length/(boom + jib length)		4.1 m – 21.5 m (13 ft 5 in – 70 ft 6 in)	
● Wire rope dimensions	Main winch	Ø 10 mm x 120 m (Ø 0.4 in x 393 ft 8 in)	
	Auxiliary winch	Ø 10 mm x 56 m (Ø 0.4 in x 183 ft 9 in)	
● Type of rope		IWRC 6 X WS36 C type, normal Z lay	
ENGINE			
● Type		Komatsu S6D95L-1 diesel engine	
● Rated horsepower		110 kW (148 HP) / 3000 rpm	
● Max. torque		435 N·m (44.4 kgf·m, 321.1 lbft) / 1,800 rpm	
● Starting motor		24 V 4.5 kW	
● Alternator		24 V 50 A	
● Battery		12 V 95E41R Ah x 2 pieces	
TIRE			
● Size	Standard	11R22.5 – 16PR	Steel radial tubeless
	If equipped	275/80R22.5	Steel radial tubeless
		315/80R22.5	Steel radial tubeless *

If equipped suspension lock

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Rated Overall Load Table

Boom operations with outriggers set

Outriggers fully extended 4.75m (360°) X.H type

(Unit:ton)

Working radius (m)	Boom length					
	4.1 m	7.6 m	11.1 m	14.5 m	18.0 m	21.5 m
1.0	10.00 (4.90)	5.00 (4.90)				
1.5	10.00 (4.90)	5.00 (4.90)	5.00 (4.90)			
2.0	10.00 (4.90)	5.00 (4.90)	5.00 (4.90)	4.00		
2.5	10.00 (4.90)	5.00 (4.90)	5.00 (4.90)	4.00	4.00	
3.0	8.00 (4.90)	5.00 (4.90)	5.00 (4.90)	4.00	4.00	2.00
3.5		5.00 (4.90)	5.00 (4.90)	4.00	4.00	2.00
4.0		5.00 (4.90)	5.00 (4.90)	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 (6.4 m)	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 (9.9 m)	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 (13.4 m)	0.90	0.86
15.0					0.77	0.76
16.0					0.65	0.67
17.0					0.56 (16.8 m)	0.58
18.0						0.50
19.0						0.42
20.0						0.35
21.0						0.33 (20.3 m)
Danger angle	—	—	—	—	—	—

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Working Radius / Lifting Height Chart

The chart below shows the relationship between the operating radius and lifting height when the outriggers are fully extended.

The value given does not include the deflection of the boom.

This diagram shows the values to be applied when the outriggers are extended to the maximum (360°).

