

TR-100ML RATED LIFTING CAPACITIES

(Unit : ×1000 kg)

Outriggers extended

L (m) R (m)	Outriggers fully (4.5m) extended - 360° -								Outriggers middle (3.5m) extended - over side -								Outriggers middle (2.5m) extended - over side -								Outriggers minimum (1.64m) extended - over side -															
	5.2	8.8	12.4	16.0	19.6	23.2	5.2	8.8	12.4	16.0	19.6	23.2	5.2	8.8	12.4	16.0	19.6	23.2	5.2	8.8	12.4	16.0	19.6	23.2	5.2	8.8	12.4	16.0	19.6	23.2										
1.0	10.00	4.90					10.00	4.90					10.00	4.90					8.00	4.90					8.00	4.90														
1.5	10.00	4.90	4.90				10.00	4.90	4.90				10.00	4.90	4.90				7.00	4.90	4.90				7.00	4.90	4.90													
2.0	10.00	4.90	4.90	4.00			10.00	4.90	4.90	4.00			10.00	4.90	4.90	4.00			5.00	4.90	4.90	4.00			5.00	4.90	4.90	4.00												
2.5	10.00	4.90	4.90	4.00	3.50		10.00	4.90	4.90	4.00	3.50		7.00	4.90	4.90	4.00	3.50		3.60	3.45	3.40	3.20			3.60	3.45	3.40	3.20												
3.0	8.00	4.90	4.90	4.00	3.50	2.00	8.00	4.90	4.90	4.00	3.50	2.00	5.20	4.90	4.90	4.00	3.50	2.00	2.60	2.50	2.45	2.55	2.00		2.60	2.50	2.45	2.55	2.00											
3.5	6.10	4.90	4.90	4.00	3.50	2.00	6.10	4.90	4.90	4.00	3.50	2.00	4.10	3.95	3.70	3.80	3.50	2.00	2.00	1.85	1.80	1.80	2.00		2.00	1.85	1.80	2.00	2.05	2.00										
4.0	5.40	4.90	4.90	4.00	3.50	2.00	5.40	4.90	4.90	4.00	3.50	2.00	3.40	3.15	2.95	3.10	3.25	2.00	1.60	1.40	1.35	1.55	1.70		1.60	1.40	1.35	1.55	1.65	1.70										
4.5	(3.9m)	4.60	4.20	4.00	3.50	2.00	(3.9m)	4.55	4.20	4.00	3.50	2.00	(3.9m)	2.50	2.35	2.55	2.65	2.00	(3.9m)	1.05	1.00	1.20	1.33	1.40		1.05	1.00	1.20	1.33	1.40										
5.0		4.20	3.80	3.55	3.15	2.00		3.75	3.65	3.40	3.15	2.00		2.00	1.90	2.10	2.20	2.00		0.80	0.75	0.95	1.05	1.12		0.80	0.75	0.95	1.05	1.12										
5.5		3.80	3.45	3.15	2.90	2.00		3.10	3.00	3.00	2.90	2.00		1.65	1.55	1.75	1.85	1.90		0.60	0.55	0.75	0.85	0.92		0.60	0.55	0.75	0.85	0.92										
6.0		3.35	3.15	2.85	2.70	2.00		2.60	2.55	2.60	2.70	2.00		1.35	1.30	1.45	1.60	1.65		0.45	0.40	0.58	0.68	0.75		0.45	0.40	0.58	0.68	0.75										
7.0		2.75	2.65	2.38	2.30	1.80		1.90	1.85	2.00	2.15	1.80		0.92	0.90	1.05	1.17	1.25																						
8.0		2.45	2.20	2.00	1.95	1.60		1.60	1.35	1.55	1.70	1.60		0.75	0.60	0.75	0.87	0.95																						
9.0		(7.5m)	1.75	1.75	1.70	1.45		(7.5m)	1.00	1.20	1.35	1.40		(7.5m)	0.38	0.53	0.65	0.72																						
10.0			1.38	1.55	1.50	1.30			0.75	0.95	1.08	1.13			0.20	0.37	0.45	0.54																						
11.0			1.10	1.30	1.33	1.20			0.55	0.73	0.87	0.93					0.30	0.40																						
12.0				1.08	1.13	1.10				0.56	0.70	0.76					0.28																							
13.0				0.90	0.97	1.00				0.43	0.55	0.62																												
14.0				0.75	0.83	0.86				0.33	0.43	0.51																												
15.0				0.65	0.70	0.75				0.27	0.35	0.42																												
16.0				(14.7m)	0.60	0.66				(14.7m)	0.25	0.33																												
17.0					0.50	0.57					0.18	0.25																												
18.0					0.42	0.50						0.19																												
19.0					0.40	0.42																																		
20.0					(18.3m)	0.35																																		
21.9						0.26																																		
A (°)	0 ~ 82								0 ~ 82								3 ~ 82 25 ~ 82								17 ~ 82 36 ~ 82 50 ~ 82 51 ~ 82								0 ~ 82 26 ~ 82 55 ~ 82 61 ~ 82 65 ~ 82 69 ~ 82							

NOTES

- ◆ Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above bold lines are based on crane strength and those below, on its stability.
- ◆ The mass of the hook (80kg for 10t capacity, 20kg for 1.4t capacity), slings and all similarly used load handling devices must be added to the weight of the load.
- ◆ Rated lifting capacities are based on actual working radius increased by boom deflection. Always watch for working radius.
- ◆ For rated lifting capacity of single top, reduce the 80kg from the relevant boom total rated load.
- ◆ Rated lifting capacity of single top should not exceed 1,400kg.
- ◆ Free-fall operation should be performed without any load on the hook.
- ◆ Standard number of part lines for each boom length is as shown below. Load per line should not surpass 12.3kN {1,250kgf} for main winch and 13.7kN {1,400kgf} for auxiliary winch.

L : Boom length
R : Load radius
A : Boom angle range
(for the unladen condition)

Boom length	5.2m	8.8m	12.4m	16.0m	19.6m	23.2m	Single top
No. of parts of line	8	4	4	4	4	4	1

◆ For total rated loads of over-front and over-rear areas, see "Outriggers fully extended". However, the range differs depending on the outrigger extension width. For details, refer to "Cautions for using the crane - I. AML operation".