

TRUCK LOADER CRANES



TM-ZT1000H Series

TM-ZT1004H

TM-ZT1005H

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Reaching new heights

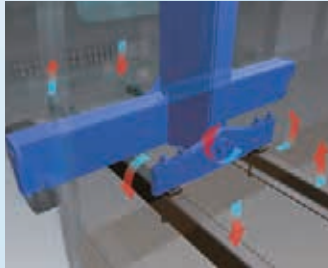


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TM-ZT1000H Series

Three-point Support System (Equalizer Crane Support)

The equalizer crane support system protects the chassis frame by evenly distributing the load applied to the frame during vehicle traveling to prevent excessive stress from concentrating at any one point.



Full Circle, Continuous Slewing

360-degree FULL CIRCLE, continuous rotation for more efficient operations.



Bigger Hydraulic Tank

A bigger size 90 L hydraulic tank is integrated with a crane frame for minimizing chassis modification.



Strong and Wider Outrigger & Safety Lock

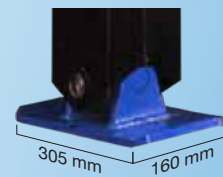
Strong, 5.2 m width and powerful outriggers with box structure jacks, an easy and safe lock system together with new universal float. The lock system is one of the advanced reliable Tadano standard safety systems.



Outrigger Lock Pin (Both Sides)

Bigger Universal Outrigger Float

The universal float moves 360 degrees to fit to any ground for better stability with less ground pressure due to larger sized floats.



Electrostatic Painting

Our high deposit and efficient electrostatic painting method, which maintains the external appearance fine and beautiful, prevents the machine from rusting, and provides uniform painting quality equally at every corner.

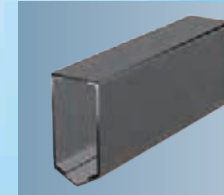


Operation Lever

High performance and quick response operation levers are located at lower reachable positions for safe and efficient operation. No need to ride on the crane or stretch your arm. In addition, they are equipped with auto accelerator features. When the boom telescoping lever, winch lever, boom elevating lever, boom swing lever, or jack lever is operated, the accelerator is activated automatically.



Strong Pentagonal Boom



Tadano's traditional strong pentagonal boom is thoroughly designed and well proven for its quality, strength and smoothness, with a rigid and fine-tuned telescoping boom providing comfortable crane operation.

Automatic Slewing Lock System

The boom is locked securely to prevent accidental boom slewing out during driving.



Hook-in

Tadano original hook-in system is equipped as standard and enhances work efficiency. First 10 t class with the hook-in system in the crane world.



Anti-two-block Function

This function stops crane operation (hoisting up, boom elevation, and boom extension) when the hook block touches the weight, to prevent the hook block from hitting the boom head, and warns the operator with the buzzer.

Cable Follower

The cable follower prevents disorderly cable (wire rope) winding by always pressing the cable onto the winch drum and puts the wire rope at a right position.



Winch



An upgraded stronger winch motor provides a stable lifting operation.



Note: The picture shows 8 part lines for 10 ton lifting condition. 8 part line is necessary for 10 ton load lifting only. Normally use 4 part lines for Maximum 5 ton lifting.

*Actual specifications may differ.

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TM-ZT1000H Series

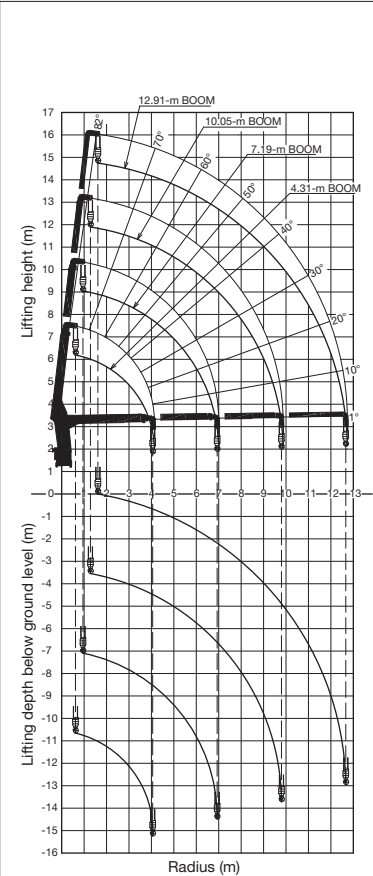
Technical Specifications

MODEL	TM-ZT1004H	TM-ZT1005H
CRANE CAPACITY	10,000 kg at 1.4 m (8-parts of line)	
BOOM	Fully powered partly synchronized telescoping boom of pentagonal box construction.	
Number of sections	4	5
Length	4.31 m–12.91 m	4.40 m–15.92 m
Extending speed	8.6 m / 34 s	11.5 m / 38 s
Elevating range/speed	1° to 82° / 17 s	
Max. lifting height**	Approx. 14.7 m*	Approx. 17.7 m*
Max. load radius**	12.66 m*	15.67 m*
WINCH	Hydraulic motor driven spur gear speed reduction, provided with mechanical brake and cable follower	
Max. Single line pull	14.72 kN {1,500 kgf}	
Max. Single line speed	44 m/min. (at 4th layer)	
Wire rope (Diameter x length)	10 mm x 80 m	10 mm x 95 m
SLEWING	●Hydraulic motor driven worm gear speed reduction ●Continuous 360° full circle slewing on ball bearing slew ring ●Automatic slewing lock	
Slewing speed	2.2 min ⁻¹ {rpm}	
OUTRIGGERS	Hydraulically extended sliders and hydraulically extended jacks integral with crane frame. Power up and down.	
Extension width	Max. : 5.2 m Mid. : 3.9 m Min. : 2.3 m	
HYDRAULICS	Single gear pump	
Hydraulic pump	●Axial piston type for winch ●Axial piston type for slewing	
Hydraulic motors	Multiple control valves with integral safety valve	
Control valves	approx. 90 L	
Oil tank capacity	●Load meter ●Load indicator ●Anti-two-block alarm ●Hook safety latch	
STANDARD SAFETY DEVICES	●Hydraulic safety valves, check valves and holding valves ●Level gauge ●Anti-two-block device	
OPTIONAL EQUIPMENT	●Rear outriggers (outrigger beam extension type) ●Rear outriggers (outrigger beam non- extension type) ●Oil cooler	
SUITABLE TRUCKS	Gross vehicle mass 25,000 kg or more	

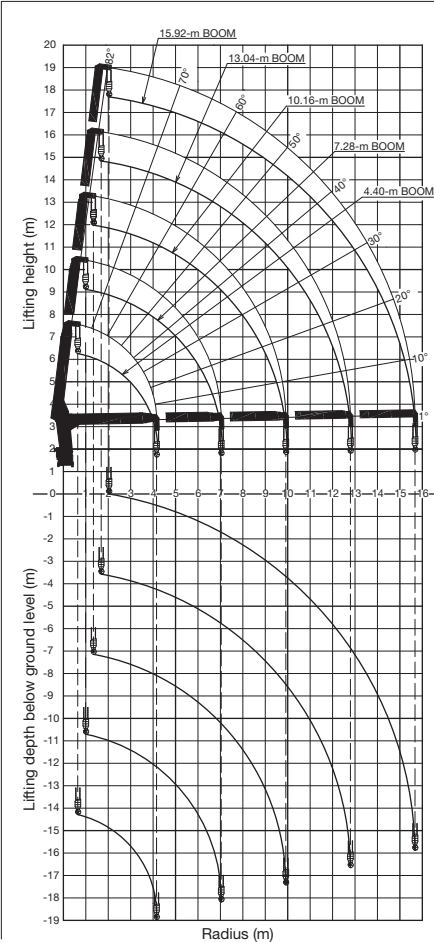
* Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

Working Range

TM-ZT1004H



TM-ZT1005H



Notes for Technical Specifications:
Operating speeds of the crane are guaranteed under the condition that the pump delivery is 60 L/min.

Notes for Working Range:
Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook. The underground working range is based on the 4-parts of line setting.

*Actual specifications may differ.

TM-ZT1000H Series

Rated lifting capacities
Crane strength rated capacities

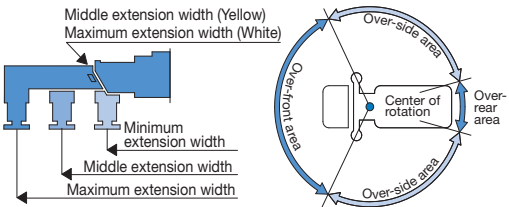
Table A	Table D
TM-ZT1004H ● 4.31 m Boom LOAD RADIUS (m) 1.4 and below 1.85 2.25 3.1 3.5 4.06 CRANE STRENGTH 10.00 8.00 6.00 4.90 4.20 3.65 EMPTY CHASSIS Extension width MAX. 10.00 8.00 6.00 4.90 4.20 3.65 CHASSIS width of outriggers MIN. 10.00 6.75 4.30 2.25 1.75 1.25 ● 7.19 m Boom LOAD RADIUS (m) 2.25 and below 3.1 3.5 4.0 4.5 5.0 6.0 6.94 CRANE STRENGTH 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.80 EMPTY CHASSIS Extension width MAX. 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.75 CHASSIS width of outriggers MIN. 4.30 2.25 1.75 1.30 1.00 0.80 0.55 0.40 ● 10.05 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 3.00 2.90 2.20 1.80 1.55 1.35 1.20 EMPTY CHASSIS Extension width MAX. 3.00 2.90 2.20 1.75 1.40 1.15 1.00 CHASSIS width of outriggers MIN. 1.00 0.80 0.55 0.40 0.30 0.25 0.20 ● 12.91 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.66 CRANE STRENGTH 3.00 2.65 2.20 1.80 1.50 1.30 1.10 0.95 0.70 EMPTY CHASSIS Extension width MAX. 3.00 2.65 2.20 1.75 1.40 1.15 0.95 0.80 0.65 CHASSIS width of outriggers MIN. 1.35 1.15 0.85 0.65 0.50 0.40 0.30 0.25 0.20	TM-ZT1004H ● 4.31 m Boom LOAD RADIUS (m) 1.4 and below 1.85 2.25 3.1 3.5 4.06 CRANE STRENGTH 10.00 8.00 6.00 4.90 4.20 3.65 EMPTY CHASSIS Extension width MAX. 10.00 8.00 6.00 4.90 4.20 3.65 CHASSIS width of outriggers MIN. 10.00 8.00 5.45 2.90 2.30 1.70 ● 7.19 m Boom LOAD RADIUS (m) 2.25 and below 3.1 3.5 4.0 4.5 5.0 6.0 6.94 CRANE STRENGTH 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.80 EMPTY CHASSIS Extension width MAX. 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.80 CHASSIS width of outriggers MIN. 5.45 2.90 2.30 1.70 1.35 1.15 0.85 0.65 ● 10.05 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 3.00 2.90 2.20 1.80 1.55 1.35 1.20 EMPTY CHASSIS Extension width MAX. 3.00 2.90 2.20 1.80 1.55 1.35 1.20 CHASSIS width of outriggers MIN. 1.35 1.15 0.85 0.65 0.50 0.40 0.35 ● 12.91 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.66 CRANE STRENGTH 3.00 2.65 2.20 1.80 1.50 1.30 1.10 0.95 0.70 EMPTY CHASSIS Extension width MAX. 3.00 2.65 2.20 1.80 1.50 1.30 1.10 0.95 0.70 CHASSIS width of outriggers MIN. 1.35 1.15 0.85 0.65 0.50 0.40 0.30 0.25 0.20
TM-ZT1005H ● 4.40 m Boom LOAD RADIUS (m) 1.4 and below 1.85 2.25 3.1 3.5 4.15 CRANE STRENGTH 10.00 8.00 6.00 4.90 4.20 3.55 EMPTY CHASSIS Extension width MAX. 10.00 8.00 6.00 4.90 4.20 3.55 CHASSIS width of outriggers MIN. 10.00 7.15 4.55 2.40 1.90 1.30 ● 7.28 m Boom LOAD RADIUS (m) 2.25 and below 3.1 3.5 4.0 4.5 5.0 6.0 7.03 CRANE STRENGTH 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.75 EMPTY CHASSIS Extension width MAX. 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.60 CHASSIS width of outriggers MIN. 4.40 2.30 1.80 1.35 1.05 0.80 0.50 0.25 ● 10.16 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 9.91 CRANE STRENGTH 3.00 2.70 2.20 1.80 1.40 1.15 1.00 EMPTY CHASSIS Extension width MAX. 3.00 2.70 2.20 1.60 1.25 1.00 0.75 CHASSIS width of outriggers MIN. 1.05 0.80 0.50 0.25 0.20 - - ● 13.04 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.00 12.7 CRANE STRENGTH 3.00 2.60 2.00 1.70 1.40 1.15 1.00 0.90 0.75 0.65 EMPTY CHASSIS Extension width MAX. 3.00 2.60 2.00 1.60 1.25 1.00 0.75 0.65 0.55 0.50 CHASSIS width of outriggers MIN. 3.00 2.60 2.00 1.60 1.25 1.00 0.75 0.65 0.55 0.35 ● 15.92 m Boom LOAD RADIUS (m) 5.0 and below 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.00 14.0 15.67 CRANE STRENGTH 2.60 2.00 1.65 1.40 1.15 1.00 0.90 0.75 0.65 0.55 0.45 EMPTY CHASSIS Extension width MAX. 2.60 2.00 1.60 1.25 1.00 0.75 0.65 0.55 0.50 0.45 0.35 CHASSIS width of outriggers MIN. 2.60 2.00 1.65 1.40 1.15 1.00 0.90 0.75 0.65 0.55 0.45	TM-ZT1005H ● 4.40 m Boom LOAD RADIUS (m) 1.4 and below 1.85 2.25 3.1 3.5 4.15 CRANE STRENGTH 10.00 8.00 6.00 4.90 4.20 3.55 EMPTY CHASSIS Extension width MAX. 10.00 8.00 6.00 4.90 4.20 3.55 CHASSIS width of outriggers MIN. 10.00 8.00 5.65 3.00 2.40 1.70 ● 7.28 m Boom LOAD RADIUS (m) 2.25 and below 3.1 3.5 4.0 4.5 5.0 6.0 7.03 CRANE STRENGTH 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.75 EMPTY CHASSIS Extension width MAX. 6.00 4.90 4.20 3.70 3.30 2.90 2.20 1.75 CHASSIS width of outriggers MIN. 5.50 2.90 2.30 1.75 1.40 1.10 0.75 0.45 ● 10.16 m Boom LOAD RADIUS (m) 4.5 and below 5.0 6.0 7.0 8.0 9.0 9.91 CRANE STRENGTH 3.00 2.70 2.20 1.80 1.40 1.15 1.00 EMPTY CHASSIS Extension width MAX. 3.00 2.70 2.20 1.80 1.40 1.15 1.00 CHASSIS width of outriggers MIN. 1.40 1.10 0.75 0.45 0.35 0.20 -

- Notes:
- The crane strength rated lifting capacity are based on the crane strength only. The empty chassis rated lifting capacity are based on the crane strength and vehicle stability (no load on the truck bed) when the crane is set level on firm level ground.
 - The mass of the hook (95 kg), slings and all similarly used load lifting devices must be added to the mass of the load.
 - If the boom length of your machine exceeds the length listed in this table little, select the table corresponding to the next longer boom.
 - When the lifting load is heavier than 6,000kg, number of part lines must be 8. In case of 6,000kg or less, number of part lines must be 4. Load per line must not surpass 14.7kN{1,500kgf}.
 - When the outriggers are extended to the middle width, read the capacities rated for the minimum extension width.
 - This load radius shows actual load radius which includes boom deflection.
 - Empty Chassis Rated Capacities table A and D depend on the types of chassis.
 - This load radius shows actual load radius which includes boom deflection. These capacities for over-front area may be lowered depending on the types of chassis. (The following table shows guidelines for bodywork vehicles that can achieve the rated lifting capacities tables A and D. Be sure to carry out a stability inspection to determine which performance to apply.)

A	WB : 5000mm over, GVW : 25t over, CAWf (※1) : 3.0t over
D	WB : 5000mm over, GVW : 25t over, CAWf (※1) : 4.0t over

※1 Chassis front axle weight (excluding crane mass)

Extension mark



Hydraulic Oil Cooler (OPTION)

Cools down hydraulic oil temperature for safe operation of hydraulic components and their longer service life. Saves costs of maintenance, repair, and part replacement. Possible causes of danger: if seals, hoses or cylinders are damaged, bursting hoses can cause injury to operators.

*Actual specifications may differ.