# **TADANO**

# TM-ZT1000H







Note: Some specifications are subject to change



Tadano Ltd.

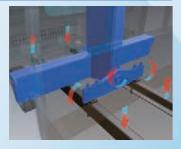
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# TM-ZT1000H Series

## 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.



## **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.



## **FULL CIRCLE, CONTINUOUS SLEWING**

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



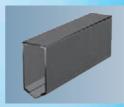
## **OPERATION LEVER**

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.

**CABLE FOLLOWER** 

The cable follower

prevents disorderly cable (wire rope)

winding by always

pressing the cable

drum and puts the

wire rope at a right

with a rigid and fine-tuned telescoping boom providing comfortable crane operation.

## **HOOK IN**

slewing out during

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



## **ANTI-TWO-BLOCK FUNCTION**

**AUTOMATIC SLEWING LOCK SYSTEM** 

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.

## **WINCH**



An upgraded stronger winch motor provides a stable ifting operation.

## **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

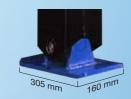
together with new universal float. The lock system is one of the advanced reliable Tadano standard safety systems.

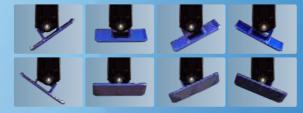


**OUTRIGGER LOCK PIN** 

## **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.





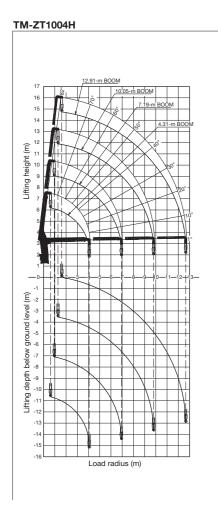


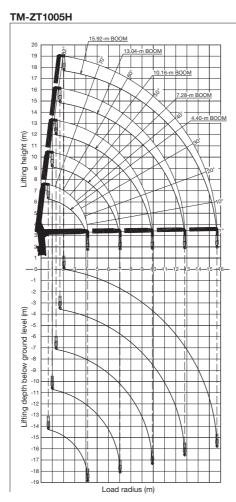
## TM-ZT1000H Series

## **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		n <sup>-1</sup> {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											
Hydraulic pump	Single g	jear pump									
Hydraulic motors	•Axial piston type for winch •Axial piston type for slewing										
Control valves	Multiple control valves with integral safety valve										
Oil tank capacity	approx. 90 L										
STANDARD SAFETY DEVICES	<ul> <li>Load meter ◆Load indicator ◆Anti-two-block alarm ◆Hook safety latch</li> </ul>										
	<ul> <li>Hydraulic safety valves, check valves and holding valves</li> <li>Level gauge</li> <li>Anti-two-block device</li> </ul>										
OPTIONAL EQUIPMENT	•Rear outriggers (outrigger beam extension type) •Rear	outriggers (outrigger beam non- extension type) •Oil coole									
SUITABLE TRUCKS		ss 25,000 kg or more									
	* Boom deflection, and subsequent ra	adius and boom angle change must be accounted for when applying load to hook									

## WORKING RANGE





## 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.

## TM-ZT1000H Series

## RATED LIFTING CAPACITIES

Crane strength rated capacities

Table A Ta																									
1.1.1													Table D												
TM-ZT1004H ● 4.31 m Boom												TM-ZT1004H  • 4.31 m Boom													
LOAD RADIUS (m)	1.4 and	1	1.8	5	2.25		3.1		3.5		4.06	LOAD RADIUS (m) 1.4 and belo		nd	1.85		2.25		3.1		3.5		4.06		
CRANE STRENGTH	10.00	ow	8.0	-	6.00		4.90		4.20	_	3.65	CRANE STRENGTH	10.0		8.00		6.00		4.90		4.20		3.65		
EMPTY Extension MAX.	10.00		8.0	0	6.00		4.90		4.20		3.65	EMPTY Extension MAX.	10.0	0	8.00		6.00		4.90			3.65			
CHASSIS width of outriggers MIN.	10.00		6.7	5	4.30		2.25		1.75		1.25	CHASSIS width of outriggers MIN.	10.0	0	8.00		5.45		2.90	2.30		1.70			
• 7.19 m Boom												● 7.19 m Boom													
LOAD RADIUS (m)	2.25 and 3.1		3.1	3.5	4	.0 4	1.5	5.0	6	.0	6.94	LOAD RADIUS (m)	2.25 and bek	<sub>ow</sub> 3	3.1 3.5		4.0		1.5	5.0		0	6.94		
CRANE STRENGTH	6.00	_	.90	4.20	3.	.70 3	3.30 2		2.	20	1.80	CRANE STRENGTH	6.00	4.	90	4.20	3.70	0 3.30		2.90	2.2	20	1.80		
EMPTY Extension MAX.	6.00	_	.90	4.20		-	.30	2.90			1.75	EMPTY Extension width of outriggers MIN.	6.00		90	4.20	3.70			2.90	2.2		1.80		
CHASSIS outriggers MIN.	4.30	2.	.25	1.75	1.	30 1	1.00		30 0.55		0.40				90	2.30	1.70		.35	1.15	0.85		0.65		
● 10.05 m Boom	. = ond											● 10.05 m Boom  LOAD RADIUS (m) 4.5 and 5.0 6.0 7.0 8.0 9.0													
LOAD RADIUS (m)	4.5 and below		5.0	_	6.0 7.0		8.0 1.55		9.0		9.8			V							9.0		9.8		
EMPTY Extension MAX.	3.00		2.90	_	.20			.55	1.35		1.20	CRANE STRENGTH	3.00		2.90	2.20	_	1.80		55 55	1.35		1.20		
CHASSIS width of outriggers MIN.	1.00		0.80	_	.55	0.40	_	.30	0.25		0.20	EMPTY Extension width of outriggers MIN.	1.35		1.15	0.85		1.80 0.65		50	0.40		0.35		
• 12.91 m Boom	1.00		0.00		.55	0.40		.00	0.20		0.20	• 12.91 m Boom			1.10	0.00		3.03	0.	50	0.40		0.00		
LOAD RADIUS (m)	4.5 and below	5.0		6.0	7.0	8.0	9.0	10	.0	11.0	12.66	LOAD RADIUS (m)	4.5 and below	5.0	6.	0 7	.0	8.0	9.0	10	.0 1	1.0	12.66		
CRANE STRENGTH	3.00	2.6		2.20	1.80	1.50	1.30	1.1		0.95	0.70	CRANE STRENGTH	3.00	2.6	5 2.5			1.50	1.30	1.1		.95	0.70		
EMPTY Extension width MAX.	3.00	2.6	5 2	2.20	1.75	1.40	1.15	0.9	95 (	0.80	0.65	FMPTY Extension MAX.	3.00	2.65	5 2.5	20 1.	80 1	1.50	1.30	1.1	0 0	.95	0.70		
TM-ZT1005H												EMPTY CHASSIS width of outriggers MIN.	1.35	1.15	5 0.8	35 0.	65 (	0.50	0.40	0.3	80 0	.25	0.20		
● 4.40 m Boom												TM-ZT1005H													
LOAD RADIUS (m)	1.4 and bek	1.4 and below 1.85 2.25 3.1 3.5 4.							4.15	● 4.40 m Boom															
CRANE STRENGTH	10.00		8.0	0	6.00		4.90		4.20		3.55	LOAD RADIUS (m)	1.4 a	ind pelow 1.85		2.25		3.1		3.5			4.15		
EMPTY Extension MAX.	10.00		8.0	-	6.00		4.90		4.20	_	3.55	CRANE STRENGTH	10.0	0	8.00	6.00		4.9			4.20		3.55		
CHASSIS width of outriggers MIN.				5	4.55 2.40			1.90			1.30	EMPTY Extension MAX.	10.0		8.00		6.00				4.20		3.55		
● 7.28 m Boom	a == and											CHASSIS ultigress MNL 10.00 8.00 5.65 3.00 2.40  ■ 7.28 m Boom									1.70				
LOAD RADIUS (m)	2.25 and below			3.5			1.5	5.0	5.0 6.0 2.90 2.20		7.03		o or and		3.1 3.5		4.0			F 0	6.0		7.00		
CRANE STRENGTH  EMPTY Extension MAX	6.00	_	.90	4.20	_		.30	2.90	_	-	1.75	LOAD RADIUS (m)  CRANE STRENGTH	2.25 and 6.00			4.20	3.70			5.0	.90 2.20		7.03 1.75		
EMPTY width of Outriggers MIN.	4.40	_	.30	1.80		.35 1.05			2.90 2.20 0.80 0.50		0.25	EMPTY Extension MAX.	6.00		4.90 4.20 4.90 4.20				.30	2.90			1.75		
• 10.16 m Boom	7.70	40   2.30		1.00	1.00		1.00		0.00 0.50		0.20	CHASSIS width of outriggers MIN. 5.5		_	90	2.30			.40	1.10			0.45		
LOAD RADIUS (m)	4.5 and helpw		5.0	6	6.0	7.0	8.0		9.0		9.91	● 10.16 m Boom									5.70				
CRANE STRENGTH	3.00		2.70		20 1.80			.40	1.15		1.00	LOAD RADIUS (m)	4.5 and below	,	5.0	6.0		7.0	8	.0	9.0		9.91		
EMPTY Extension MAX.	3.00		2.70		2.20 1.6		1	.25			0.75	CRANE STRENGTH	3.00		2.70	2.20	20 1.8		1.	40	1.15		1.00		
CHASSIS width of outriggers MIN.	1.05	1.05 0.80		0	.50	0.25		.20	-		-	EMPTY Extension MAX.	3.00		2.70	2.20	1.80		1.	40	1.15		1.00		
● 13.04 m Boom												CHASSIS width of outriggers MIN.	1.40		1.10		0.75		0.	35	0.20		-		
LOAD RADIUS (m)	4.5 and below	5.0	6.0	0 7.	.0	8.0 9.	.0 1	0.0	11.0	12.00	12.7	• 13.04 m Boom													
CRANE STRENGTH	3.00	2.60	2.0		_	1.40 1.	_	.00	0.90	0.75	0.65	LOAD RADIUS (m)	4.5 and below	5.0	6.0	7.0	8.0	9.	0 1	0.0	11.0	12.00	12.7		
EMPTY Extension width CHASSIS of outriggers MAX.	3.00	2.60	2.0	00 1.0	60 1	1.25 1.0	00 0	).75	0.65	0.55	0.50	CRANE STRENGTH	3.00	2.60	2.00	1.70	1.40	1.1			0.90	0.75	0.65		
OTH.								EMPTY Extension width CHASSIS of outriggers MAX.	3.00	2.60	2.00	1.70	1.40	1.1	15 1	.00	0.90	0.75	0.65						
LOAD RADIUS (m)	00011	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.00	14.0	15.67	• 15.92 m Boom											1.5.55		
CRANE STRENGTH  EMPTY Extension width MAX.  CHASSIS of outcomes		2.00	1.65	1.40	1.15		0.90	0.75	0.65	0.55	0.45	LOAD RADIUS (m)	5.0 and below	6.0	7.0	8.0		10.0	11.0	12.0	13.00	14.0	15.67		
CHASSIS of outriggers MAX.	2.60	2.00	1.60	1.25	1.00	0.75	0.65	0.55	0.50	0.45	0.35	CRANE STRENGTH  EMPTY Extension width MAX.  CHASSIS of outringers	2.60	2.00	1.65			1.00	0.90	0.75	0.65	0.55	0.45		
Notes:												CHASSIS of outriggers MAX.	2.60	2.00	1.65	1.40	1.15	1.00	0.90	0.75	0.65	0.55	0.45		

### Notes:

- 1. 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.
- 2. The mass of the hook (95 kg), slings and all similarly used load lifting devices must be added to the mass of the load.
- 3. If the boom length of your machine exceeds the length listed in this table little, select the table corresponding to the next longer boom.
- 4. 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}.

  5. 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.
- 7. Empty Chassis Rated Capacities table A and D depend on the types of chassis.
- 8. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. 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.)

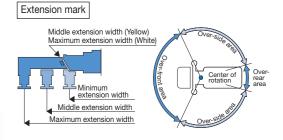




A WB: 5000mm over, GVW: 25t over, CAWf (%1): 3.0t over

D WB: 5000mm over, GVW: 25t over, CAWf (%1): 4.0t over

%1 Chassis front axle weight (excluding crane mass)



### 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.