TADANO

TRUCK LOADER CRANE

# TM-ZE290/260

## For Small Size Vehicles




TADANO Lifting your dreams

**TADANO LTD.** (International Division)
4-12, Kamezawa 2-chome, Sumida-ku Tokyo 130-0014, Japan
Phone: +81-3-3621-7750 Fax: +81-3-3621-7785
http://www.tadano.com E-mail: info@tadano.com

2014-08
Printed in Japan

# IDEAL Cargo Crane, TADANO ZE

**The ZE features all the Tadano Cargo Crane technologies that are recognized the world over.**
**The key development concepts remain:**
**EXCELSIOR QUALITY, EASY OPERATION AND EASY MAINTENANCE.**
**The TM-ZE290/260 series,**
**with a lifting capacity of 3.03/2.63 tons,**
**and a choice of 4 different lengths of the boom are available to meet your lifting requirements.**




## CENTRALIZED CONTROL PANELS

Installed on both sides of the slewing post are the centralized control panels where operating switches and the lifting charts needed for crane operation are grouped together and arranged on a single panel.


LEFT-HAND SIDE


RIGHT-HAND SIDE

## RESPONDING TO OPERATOR' S COMMAND

Equipped with optimally matched, high-performance control valves, the operating levers provide improved responsiveness and fine-tuned control. Operation is fast or slow in accordance with operator's command.
The stainless rods between the left and right operation levers are provided as standard.




LOAD METER

## QUICKER WORK WITH ADVANCED OUTRIGGER MECHANISM

The outrigger sliders can be easily operated, using a grip to lock/release and extend/retract them.
The new lock system prevents the outriggers from swinging out during traveling.
A level gauge is provided as standard equipment.


NEW LOCK SYSTEM


LEVEL GAUGE

## STRONGER AND LIGHTER BOOM

Tadano's unique pentagonal boom is made of high-tensile steel and the section of boom has a structure of bended one piece steel plate for lighter boom weight and powerful lifting capability.
Special valves enable smooth boom extension and retraction for smoother operation to reduce a shock when telescoping the boom.



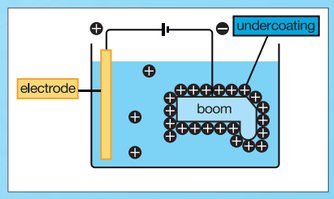
## FULL CIRCLE, CONTINUOUS SLEWING

The newly designed compact slewing post improves performance providing FULL CIRCLE, continuous rotation for more efficient operations.
AUTOMATIC SLEWING LOCK: The boom is mechanically locked at the slewing post base which prevents boom rotation during traveling.



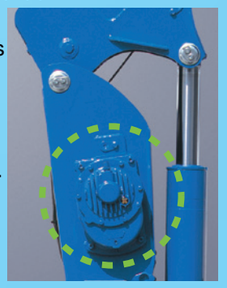
## CATIONIC ELECTRO-DEPOSITION COATING

The crane is undercoated by Cationic Electro-deposition method. The parts are dipped in cationic solution, and even the narrow inner booms and frames are thoroughly undercoated.




## STRONGER WINCH

The advantages of the enlarged winch drum and plunger motor are evident during start-up when maximum power is required. Re-hoisting with a load on the hook can also be handled with ease.
The winch reduction gear comes equipped with a failsafe automatic brake.
From the pitch of the drum grooves to the fitting of the guide sheave, cable winding has been improved in every detail so as to prevent the cable from winding off position.



## 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 the lifting operation and the vehicle travel to prevent excessive stress concentration at any one point.

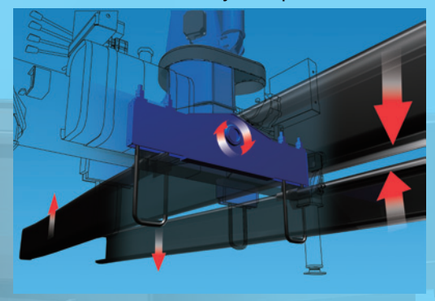


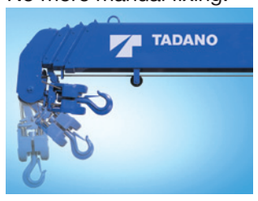
photo: TM-ZE294MH

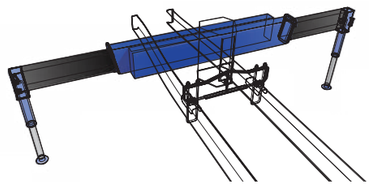
# TM-ZE290 series




## HOOK IN SYSTEM (TM-ZE290MH only)

The TM-ZE290MH features the "Hook-In" system to further enhance work efficiency.
A pull of a lever and the crane hook is stowed automatically.
No more manual fixing.



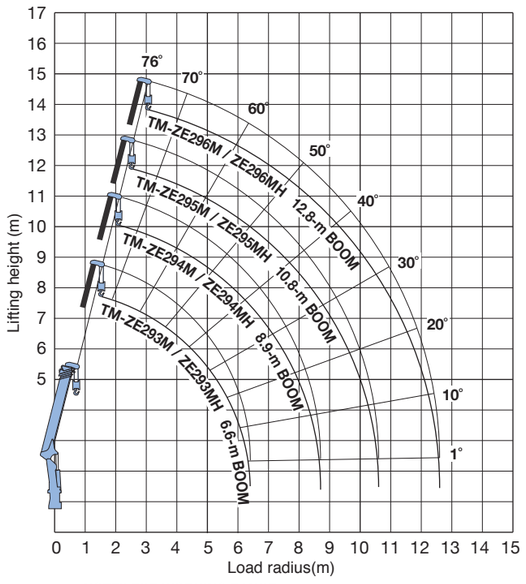



PARABOX OUTRIGGER (TM-ZE290 series)



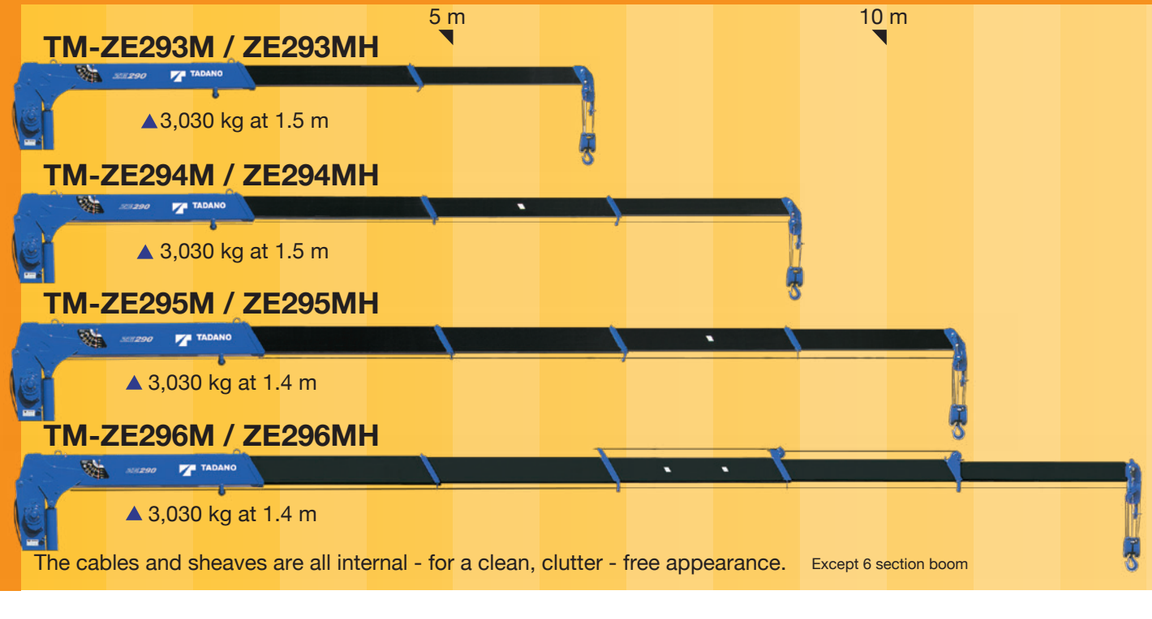

TM-ZE294MH

## WORKING RANGE




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

▲ Max. load




The cables and sheaves are all internal - for a clean, clutter - free appearance. Except 6 section boom

## TECHNICAL SPECIFICATIONS

| MODEL | TM-ZE293M | TM-ZE293MH* | TM-ZE294M | TM-ZE294MH* | TM-ZE295M | TM-ZE295MH* | TM-ZE296M | TM-ZE296MH* |
|---|---|---|---|---|---|---|---|---|
| CRANE CAPACITY | 3,030 kg at 1.5 m (4-parts of line) | | 3,030 kg at 1.5 m (4-parts of line) | | 3,030 kg at 1.4 m (4-parts of line) | | 3,030 kg at 1.4 m (4-parts of line) | |
| BOOM | Fully powered telescoping boom of pentagonal box construction. | | | | | | | |
| Number of sections | 3 | | 4 | | 5 | | 6 | |
| Length | 2.85 m - 6.6 m | | 3.17 m - 8.9 m | | 3.13 m - 10.8 m | | 3.23 m - 12.8 m | |
| Extending speed | 3.75 m / 10.5 s | | 5.73 m / 13 s | | 7.67 m / 15.5 s | | 9.57 m / 17 s | |
| Elevating range/speed | 1° to 76° / 6 s | | | | | | | |
| Max. lifting height** | approx. 7.8 m** | | approx. 10.0 m** | | approx. 11.8 m** | | approx. 13.8 m** | |
| Max. load radius** | 6.4 m** | | 8.7 m** | | 10.6 m** | | 12.6 m** | |
| WINCH | Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake. | | | | | | | |
| Max. single line pull | 7.45 kN {760 kgf} | | | | | | | |
| Max. single line speed | 68 m/min. (at 4th layer) | | | | | | | |
| Wire rope (Diameter x length) | 8 mm x 45 m | | 8 mm x 56 m | | 8 mm x 66 m | | 8 mm x 75 m | |
| SLEWING | Hydraulic motor driven. Worm gear speed reduction. Continuous 360° full circle slewing on ball bearing slew ring. Automatic slewing lock. | | | | | | | |
| Slewing speed | 2.5 $min^{-1}$ {rpm} | | | | | | | |
| OUTRIGGERS | Manually extended sliders and hydraulically extended jacks Integral with crane frame | | | | | | | |
| Extension width | Max. : 3.4 m, Mid. : 2.9m / 2.4 m, Min. : 1.72 m | | | | | | | |
| HYDRAULIC SYSTEM Control valves | Multiple control valves with integral safety valves | | | | | | | |
| STANDARD SAFETY DEVICES | •Load meter •Load indicator •Anti-two-block alarm •Hoisting limiter •P.T.O. indicator lamp •Hook safety latch •Hydraulic safety valves •Level gauge | | | | | | | |
| SUITABLE TRUCKS | Gross vehicle mass 4,000 to 8,000 kg | | | | | | | |

* WITH HOOK STOWING DEVICE. Mechanically stows hook beneath boom head.
** Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

## RATED LIFTING CAPACITIES (With empty chassis)

### Table A

**TM-ZE293M / ZE293MH**

● 2.85-m/4.74-m boom

| Load radius (m) | 1.5 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.54 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,280 | 1,730 | 1,230 | 930 | 730 | 630 |

● 6.6-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,630 | 1,230 | 930 | 730 | 580 | 480 | 430 | 380 | 350 |

**TM-ZE294M / ZE294MH**

● 3.17-m/5.12-m boom

| Load radius (m) | 1.5 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.92 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,280 | 1,730 | 1,180 | 880 | 680 | 580 | 530 |

● 7.01-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.81 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,630 | 1,150 | 880 | 680 | 580 | 480 | 400 | 350 | 300 |

● 8.9-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 980 | 830 | 680 | 450 | 350 | 280 | 230 | 200 |

### Table C

**TM-ZE293M / ZE293MH**

● 2.85-m/4.74-m boom

| Load radius (m) | 1.5 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.54 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,280 | 1,830 | 1,430 | 1,080 | 830 | 730 |

● 6.6-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,630 | 1,330 | 1,030 | 830 | 680 | 580 | 530 | 480 | 430 |

**TM-ZE294M / ZE294MH**

● 3.17-m/5.12-m boom

| Load radius (m) | 1.5 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.92 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,280 | 1,830 | 1,380 | 1,030 | 830 | 680 | 580 |

● 7.01-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.81 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,630 | 1,330 | 1,030 | 800 | 680 | 580 | 480 | 430 | 350 |

● 8.9-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 980 | 880 | 780 | 550 | 430 | 330 | 280 | 250 |

**TM-ZE295M / ZE295MH**

● 3.13-m/5.07-m boom

| Load radius (m) | 1.4 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.87 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,130 | 1,730 | 1,330 | 980 | 780 | 630 | 550 |

● 7.0-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,730 | 1,530 | 1,280 | 980 | 780 | 630 | 480 | 430 | 380 | 300 |

● 8.9-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 930 | 830 | 730 | 480 | 380 | 280 | 230 | 200 |

● 10.8-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.6 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 480 | 430 | 380 | 300 | 260 | 230 | 200 | 180 | 150 |

**TM-ZE296M / ZE296MH**

● 3.23-m/5.17-m boom

| Load radius (m) | 1.4 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.97 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,130 | 1,730 | 1,430 | 1,230 | 1,030 | 830 | 680 |

● 7.1-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,730 | 1,530 | 1,280 | 1,080 | 930 | 780 | 680 | 580 | 480 | 380 |

● 9.0-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.8 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 930 | 830 | 730 | 580 | 480 | 380 | 280 | 230 |

● 10.9-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.7 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 480 | 430 | 380 | 300 | 260 | 230 | 200 | 180 | 150 |

● 12.8-m boom

| Load radius (m) | 5.3 and below | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.6 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 280 | 240 | 210 | 180 | 160 | 140 | 130 | 100 |

### Table D

**TM-ZE293M / ZE293MH**

● 2.85-m/4.74-m boom

| Load radius (m) | 1.5 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.54 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,330 | 1,880 | 1,500 | 1,250 | 1,080 | 980 |

● 6.6-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,680 | 1,430 | 1,230 | 1,080 | 950 | 830 | 730 | 650 | 580 |

**TM-ZE294M / ZE294MH**

● 3.17-m/5.12-m boom

| Load radius (m) | 1.5 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.92 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,330 | 1,880 | 1,500 | 1,250 | 1,080 | 930 | 850 |

● 7.01-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.81 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,680 | 1,430 | 1,230 | 1,080 | 930 | 830 | 730 | 650 | 580 |

● 8.9-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,030 | 930 | 830 | 680 | 580 | 480 | 400 | 350 |

**TM-ZE295M / ZE295MH**

● 3.13-m/5.07-m boom

| Load radius (m) | 1.45 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.87 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,180 | 1,730 | 1,430 | 1,230 | 1,080 | 930 | 830 |

● 7.0-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,680 | 1,430 | 1,180 | 1,030 | 880 | 780 | 680 | 630 | 530 |

● 8.9-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 980 | 900 | 830 | 680 | 580 | 480 | 380 | 350 |

● 10.8-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.6 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 580 | 530 | 480 | 400 | 330 | 280 | 250 | 230 | 210 |

**TM-ZE296M / ZE296MH**

● 3.23-m/5.17-m boom

| Load radius (m) | 1.45 and below | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 4.97 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,030 | 2,180 | 1,730 | 1,430 | 1,230 | 1,050 | 900 | 800 |

● 7.1-m boom

| Load radius (m) | 2.2 and below | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,880 | 1,680 | 1,430 | 1,180 | 1,030 | 880 | 780 | 680 | 600 | 500 |

● 9.0-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.8 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 980 | 900 | 830 | 680 | 580 | 480 | 380 | 330 |

● 10.9-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.7 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 580 | 530 | 480 | 400 | 330 | 280 | 250 | 230 | 210 |

● 12.8-m boom

| Load radius (m) | 5.3 and below | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.6 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 280 | 250 | 220 | 200 | 180 | 160 | 140 | 120 |

**NOTES FOR TECHNICAL SPECIFICATIONS:**
Operating speeds of the crane are guaranteed under the conditions that the pump delivery is 53 L/min.

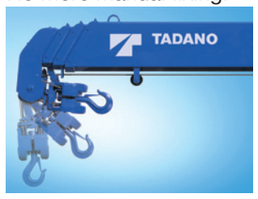
**NOTES FOR RATED LIFTING CAPACITIES:**
The mass of hook (30 kg), slings and all other liftling devices must be added to the mass of the load.

# TM-ZE260 series




## HOOK IN SYSTEM (TM-ZE260MH only)

The TM-ZE260MH features the "Hook-In" system to further enhance work efficiency.
A pull of a lever and the crane hook is stowed automatically.
No more manual fixing.

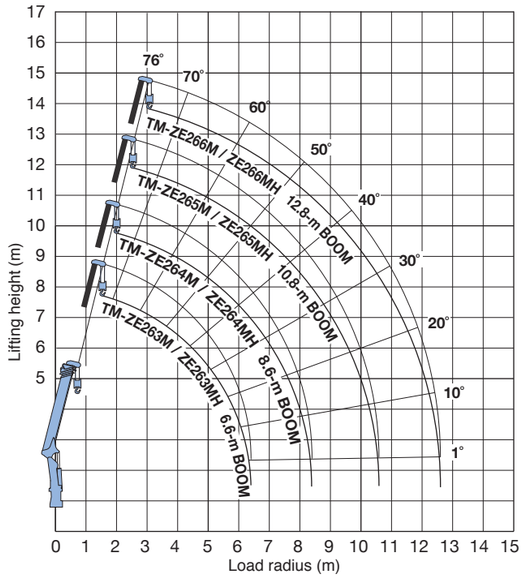






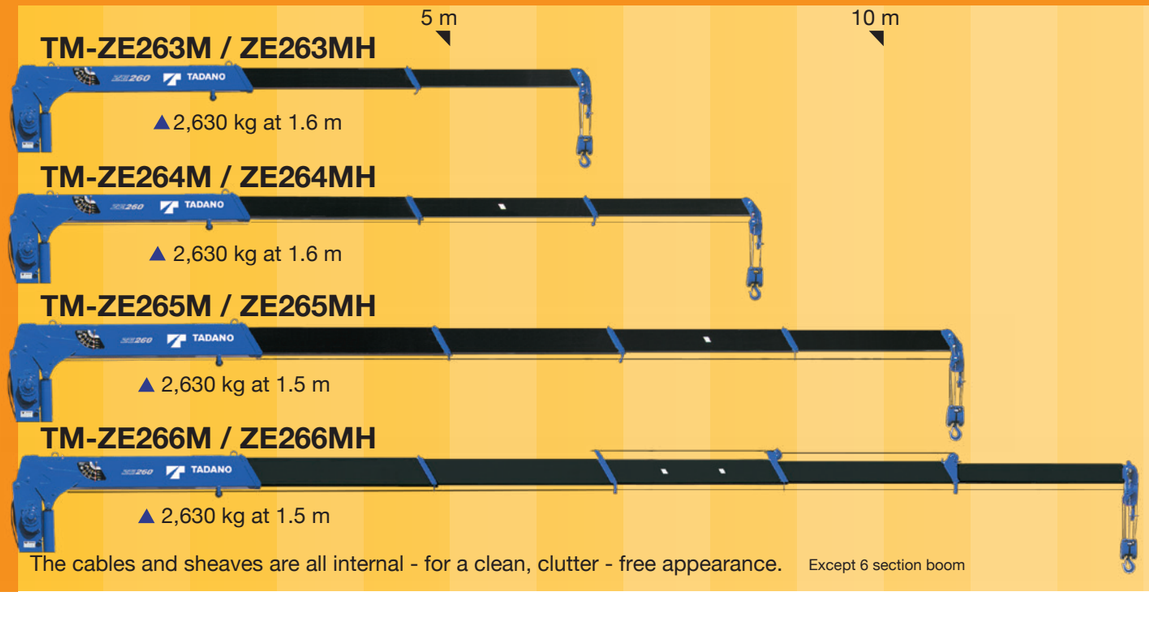
TM-ZE264MH

## WORKING RANGE




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

▲ Max. load




The cables and sheaves are all internal - for a clean, clutter - free appearance. Except 6 section boom

## TECHNICAL SPECIFICATIONS

| MODEL | TM-ZE263M | TM-ZE263MH* | TM-ZE264M | TM-ZE264MH* | TM-ZE265M | TM-ZE265MH* | TM-ZE266M | TM-ZE266MH* |
|---|---|---|---|---|---|---|---|---|
| CRANE CAPACITY | 2,630 kg at 1.6 m (4-parts of line) | | 2,630 kg at 1.6 m (4-parts of line) | | 2,630 kg at 1.5 m (4-parts of line) | | 2,630 kg at 1.5 m (4-parts of line) | |
| BOOM | Fully powered telescoping boom of pentagonal box construction. | | | | | | | |
| Number of sections | 3 | | 4 | | 5 | | 6 | |
| Length | 2.85 m - 6.6 m | | 2.87 m - 8.6 m | | 3.13 m - 10.8 m | | 3.23 m - 12.8 m | |
| Extending speed | 3.75 m / 10 s | | 5.73 m / 12 s | | 7.67 m / 15.5 s | | 9.57 m / 17 s | |
| Elevating range/speed | 1° to 76° / 6 s | | | | | | | |
| Max. lifting height** | Approx. 7.8 m** | | Approx. 9.7 m** | | Approx. 11.8 m** | | Approx. 13.8 m** | |
| Max. load radius** | 6.4 m** | | 8.4 m** | | 10.6 m** | | 12.6 m** | |
| WINCH | Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake. | | | | | | | |
| Max. single line pull | 6.47 kN {660 kgf} | | | | | | | |
| Max. single line speed | 68 m/min. (at 4th layer) | | | | | | | |
| Wire rope (Diameter x length) | 8 mm x 45 m | | 8 mm x 54 m | | 8 mm x 66 m | | 8 mm x 75 m | |
| SLEWING | Hydraulic motor driven. Worm gear speed reduction. Continuous 360° full circle slewing on ball bearing slew ring. Automatic slewing lock. | | | | | | | |
| Slewing speed | 2.5 $min^{-1}$ {rpm} | | | | | | | |
| OUTRIGGERS | Manually extended sliders and hydraulically extended jacks Integral with crane frame | | | | | | | |
| Extension width | Max. : 3.0 m, Mid. : 2.4 m, Min. : 1.72 m | | | | | | | |
| HYDRAULIC SYSTEM Control valves | Multiple control valves with integral safety valves | | | | | | | |
| STANDARD SAFETY DEVICE | •Load meter •Load indicator •Anti-two-block alarm •Hoisting limiter •P.T.O. indicator lamp •Hook safety latch •Hydraulic safety valves •Level gauge | | | | | | | |
| SUITABLE TRUCKS | Gross vehicle mass 4,000 to 8,000 kg | | | | | | | |

* WITH HOOK STOWING DEVICE. Mechanically stows hook beneath boom head.
** Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

## RATED LIFTING CAPACITIES (With empty chassis)

### Table A

**TM-ZE263M / ZE263MH**

● 2.85-m/4.74-m boom

| Load radius (m) | 1.6 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.54 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,230 | 2,030 | 1,480 | 1,030 | 780 | 630 | 530 |

● 6.6-m boom

| Load radius (m) | 2.6 and below | 2.8 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,130 | 1,030 | 780 | 630 | 530 | 430 | 380 | 350 | 330 |

**TM-ZE264M / ZE264MH**

● 2.87-m/4.82-m boom

| Load radius (m) | 1.6 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.62 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,230 | 2,030 | 1,480 | 1,030 | 780 | 630 | 480 |

● 6.71-m boom

| Load radius (m) | 2.6 and below | 2.8 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.51 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,130 | 1,030 | 780 | 630 | 530 | 430 | 380 | 350 | 300 |

● 8.6-m boom

| Load radius (m) | 3.8 and below | 4.0 | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 8.4 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 680 | 630 | 530 | 430 | 330 | 250 | 200 | 180 |

### Table C

**TM-ZE263M / ZE263MH**

● 2.85-m/4.74-m boom

| Load radius (m) | 1.6 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.54 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,230 | 2,030 | 1,530 | 1,180 | 880 | 730 | 580 |

● 6.6-m boom

| Load radius (m) | 2.8 and below | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,130 | 880 | 680 | 580 | 480 | 430 | 380 | 350 |

**TM-ZE264M / ZE264MH**

● 2.87-m/4.82-m boom

| Load radius (m) | 1.6 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.62 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,230 | 2,030 | 1,530 | 1,130 | 880 | 680 | 530 |

● 6.71-m boom

| Load radius (m) | 2.8 and below | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.51 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,130 | 880 | 680 | 580 | 480 | 400 | 380 | 330 |

● 8.6-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 8.4 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 680 | 580 | 480 | 380 | 280 | 230 | 200 |

**TM-ZE265M / ZE265MH**

● 3.13-m/5.07-m boom

| Load radius (m) | 1.5 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.87 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,130 | 1,930 | 1,530 | 1,030 | 730 | 580 | 430 |

● 7.0-m boom

| Load radius (m) | 2.8 and below | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.8 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,030 | 730 | 580 | 480 | 400 | 330 | 280 | 230 |

● 8.9-m boom

| Load radius (m) | 3.7 and below | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 680 | 580 | 380 | 280 | 230 | 180 | 150 |

● 10.8-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.6 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 380 | 330 | 250 | 210 | 180 | 150 | 130 | 100 |

**TM-ZE266M / ZE266MH**

● 3.23-m/5.17-m boom

| Load radius (m) | 1.5 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.97 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,130 | 1,930 | 1,530 | 1,230 | 1,030 | 880 | 630 |

● 7.1-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.9 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,030 | 880 | 730 | 580 | 530 | 480 | 380 |

● 9.0-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 8.8 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 680 | 580 | 530 | 430 | 350 | 300 | 230 |

● 10.9-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 380 | 330 | 250 | 210 | 180 | 150 | 130 | 130 |

● 12.8-m boom

| Load radius (m) | 6.0 and below | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.6 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 220 | 180 | 150 | 130 | 120 | 120 | 100 |

### Table D

**TM-ZE263M / ZE263MH**

● 2.85-m/4.74-m boom

| Load radius (m) | 1.6 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.54 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,230 | 2,030 | 1,630 | 1,330 | 1,130 | 980 | 880 |

● 6.6-m boom

| Load radius (m) | 2.8 and below | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.4 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,280 | 1,230 | 1,080 | 930 | 800 | 700 | 630 | 580 | 550 |

**TM-ZE264M / ZE264MH**

● 2.87-m/4.82-m boom

| Load radius (m) | 1.6 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.62 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,230 | 2,030 | 1,630 | 1,330 | 1,130 | 980 | 830 |

● 6.71-m boom

| Load radius (m) | 2.8 and below | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.51 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,280 | 1,230 | 1,080 | 930 | 780 | 700 | 630 | 580 | 530 |

● 8.6-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 8.4 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 700 | 630 | 550 | 450 | 380 | 330 | 310 |

**TM-ZE265M / ZE265MH**

● 3.13-m/5.07-m boom

| Load radius (m) | 1.5 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.87 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,180 | 1,980 | 1,580 | 1,330 | 1,130 | 980 | 830 |

● 7.0-m boom

| Load radius (m) | 2.8 and below | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.8 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,280 | 1,230 | 1,080 | 930 | 800 | 700 | 630 | 580 | 530 |

● 8.9-m boom

| Load radius (m) | 3.7 and below | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 8.7 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 700 | 700 | 550 | 450 | 380 | 350 | 330 |

● 10.8-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.6 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 480 | 430 | 330 | 280 | 230 | 200 | 180 | 160 |

**TM-ZE266M / ZE266MH**

● 3.23-m/5.17-m boom

| Load radius (m) | 1.5 and below | 1.8 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.97 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,630 | 2,180 | 1,980 | 1,580 | 1,330 | 1,130 | 980 | 780 |

● 7.1-m boom

| Load radius (m) | 3.0 and below | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.9 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,230 | 1,080 | 930 | 800 | 700 | 630 | 580 | 500 |

● 9.0-m boom

| Load radius (m) | 4.0 and below | 4.5 | 5.0 | 6.0 | 7.0 | 8.0 | 8.8 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 700 | 630 | 550 | 450 | 380 | 330 | 300 |

● 10.9-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.7 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 480 | 430 | 330 | 280 | 230 | 200 | 180 | 160 |

● 12.8-m boom

| Load radius (m) | 6.0 and below | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.6 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 230 | 200 | 170 | 150 | 130 | 120 | 100 |

**NOTES FOR TECHNICAL SPECIFICATIONS:**
Operating speeds of the crane are guaranteed under the conditions that the pump delivery is 53 L/min.

**NOTES FOR RATED LIFTING CAPACITIES:**
The mass of hook (30 kg), slings and all other lifting devices must be added to the mass of the load.

TADANO

Lifting your dreams

TRUCK LOADER CRANE

# TM-ZT500

## For Medium / Large Size Vehicles

NEW MODEL

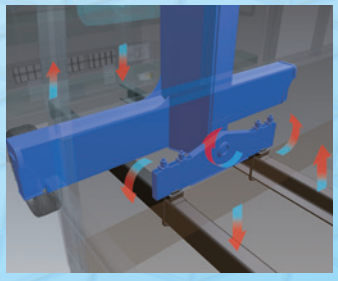
CARGO CRANE



# TM-ZT500 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 BIGGER HYDRAULIC TANK accelerator is activated automatically.




## BIGGER HYDRAULIC TANK

A bigger size hydraulic tank of 90 L capacity for minimizing hydraulic oil temperature rise.



## STRONG OUTRIGGER AND SAFETY LOCK

Strong and powerful outriggers with box strcuture jacks, an easy and safe double lock system and new universal float. The lock system is the same as advanced TADANO standard safety system.



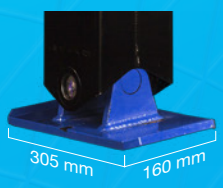
LOCK SYSTEM

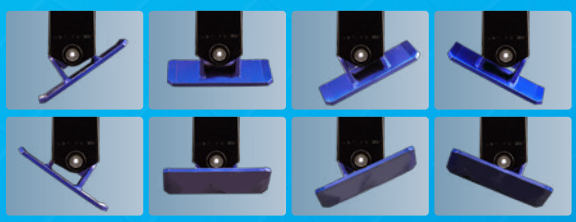




## BIGGER UNIVERSAL OUTRIGGER FLOAT

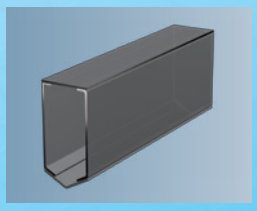
The universal float moves 360 degrees to fit to any ground for better stability with less ground pressure due to larger sized floats.



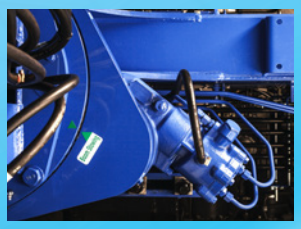
## STRONG PENTAGONAL BOOM

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 (Hook In model only)

TADANO original HOOK IN system enhances work efficiency. No more manual belaying. Just push the HOOK IN button and operate the hoist up lever for automatic hook stow.




## OVERWINDING-SAFETY FUNCTION

In the hook-in model, this function stops crane operations (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.
In the standard model, this function gives alarms when the the hook block touches the the weight.






## WINCH

An upgraded stronger winch motor provides a stable lifting operation.

## CABLE FOLLOWER
(4- and 5-section boom models only)

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.



# TM-ZT500 Series

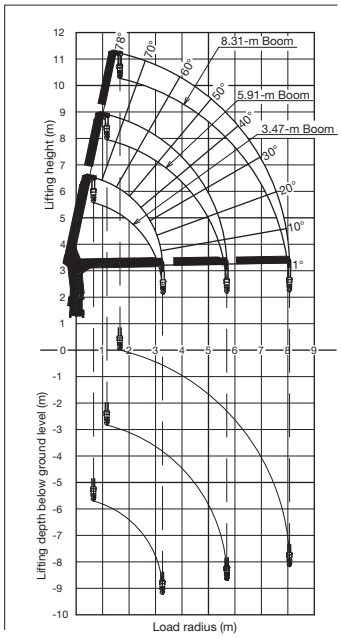
## TECHNICAL SPECIFICATIONS

| MODEL | TM-ZT503 | TM-ZT503H | TM-ZT504 | TM-ZT504H | TM-ZT505 | TM-ZT505H |
|---|---|---|---|---|---|---|
| CRANE CAPACITY | 5,050 kg at 2.5 m (5-parts of line) | | | | | |
| BOOM | Fully hydraulic telescoping boom of pentagonal box construction | | Fully powered partly synchronized telescoping boom of pentagonal box construction | | | |
| Number of sections | 3 | | 4 | | 5 | |
| Length | 3.47 m–8.31 m | | 3.55 m–10.8 m | | 3.77 m–13.34 m | |
| Extending speed | 4.84 m / 18 s | | 7.25 m / 21 s | | 9.57 m / 25 s | |
| Elevating range/speed | 1° to 78° / 12 s | | | | | |
| Max. lifting height** | Approx. 10.3 m** | | Approx. 12.7 m** | | Approx. 15.2 m** | |
| Max. load radius** | 8.09 m** | | 10.58 m** | | 13.12 m** | |
| WINCH | Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake. | | Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake and cable follower. | | | |
| Max. Single line pull | 9.90 kN {1,010 kgf} | | | | | |
| Max. Single line speed | 66 m/min. (at 4th layer) | | | | | |
| Wire rope (Diameter x length) | 8 mm x 67 m | | 8 mm x 82 m | | 8 mm x 97 m | |
| SLEWING | Hydraulic motor driven. Worm gear speed reduction. Continuous 360° full circle slewing on ball bearing slew ring. Automatic slewing lock. | | | | | |
| Slewing speed | 2.5 $min^{-1}$ {rpm} | | | | | |
| OUTRIGGERS | Manually extended sliders and hydraulically extended jacks. Integral with crane frame. | | | | | |
| Extension width | Max. : 3.8 m Mid. : 3.0 m Min. : 2.20 m | | | | | |
| HYDRAULIC SYSTEM Pump | Single gear pump | | | | | |
| Control valves | Multiple control valves with integral safety valves | | | | | |
| STANDARD SAFETY DEVICES | •Load meter •Load indicator •Over-winding alarm •Hook safety latch •Hydraulic safety valves, check valves and holding valves •Level gauge •Anti-two-block device* | | | | | |
| SUITABLE TRUCKS | Gross vehicle mass 12,000 kg or more | | | | | |

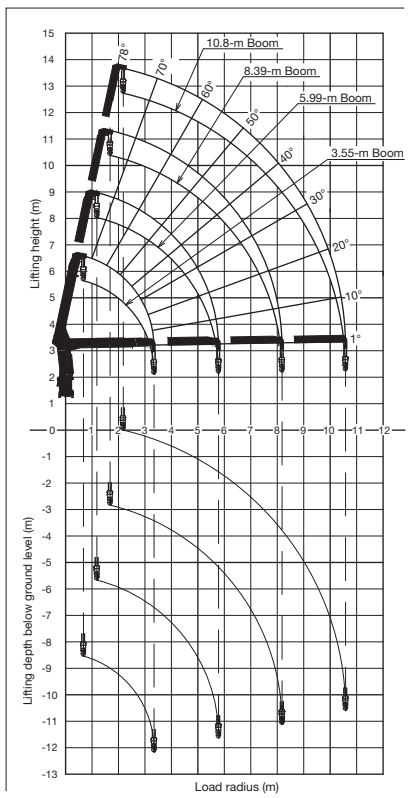
Model name with "H": Hook Stowing Device is equipped.
* For crane with hook stowing device only.
** Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

## WORKING RANGE

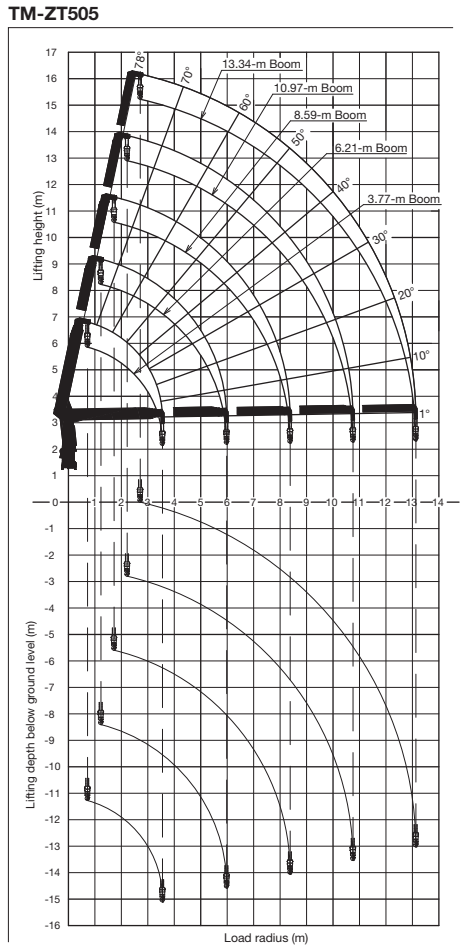
TM-ZT503




TM-ZT504




TM-ZT505




**NOTES FOR TECHNICAL SPECIFICATIONS:**
Operating speeds of the crane are guaranteed under the conditions 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.

# TM-ZT500 Series

## RATED LIFTING CAPACITIES
**Crane strength rated capacities**

### TM-ZT503, ZT503H

• 3.47-m boom

| Load radius (m) | 2.5 and below | 2.95 | 3.25 |
|---|---|---|---|
| Rated lifting capacity (kg) | 5,050 | 4,050 | 3,700 |

• 5.91-m boom

| Load radius (m) | 2.95 and below | 3.8 | 4.1 | 4.5 | 5.0 | 5.69 |
|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 4,050 | 3,130 | 2,930 | 2,580 | 2,280 | 1,950 |

• 8.31-m boom

| Load radius (m) | 3.8 and below | 4.1 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.09 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,130 | 2,930 | 2,580 | 2,280 | 2,030 | 1,830 | 1,680 | 1,550 | 1,430 | 1,280 |

### TM-ZT504, ZT504H

• 3.55-m boom

| Load radius (m) | 2.5 and below | 2.95 | 3.33 |
|---|---|---|---|
| Rated lifting capacity (kg) | 5,050 | 4,050 | 3,630 |

• 5.99-m boom

| Load radius (m) | 2.95 and below | 3.8 | 4.1 | 4.5 | 5.0 | 5.77 |
|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 4,050 | 3,130 | 2,930 | 2,580 | 2,280 | 1,900 |

• 8.39-m boom

| Load radius (m) | 3.8 and below | 4.1 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.17 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,130 | 2,930 | 2,580 | 2,280 | 2,030 | 1,830 | 1,680 | 1,550 | 1,430 | 1,280 |

• 10.8-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.58 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,030 | 1,830 | 1,480 | 1,230 | 1,080 | 980 | 880 | 830 |

### TM-ZT505, ZT505H

• 3.77-m boom

| Load radius (m) | 2.5 and below | 2.85 | 3.55 |
|---|---|---|---|
| Rated lifting capacity (kg) | 5,050 | 4,050 | 3,230 |

• 6.21-m boom

| Load radius (m) | 2.85 and below | 3.6 | 3.9 | 4.5 | 5.0 | 5.5 | 5.99 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 4,050 | 3,180 | 2,930 | 2,430 | 2,130 | 1,880 | 1,650 |

• 8.59-m boom

| Load radius (m) | 3.6 and below | 3.9 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.37 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,130 | 2,930 | 2,430 | 2,130 | 1,880 | 1,650 | 1,480 | 1,350 | 1,230 | 1,080 |

• 10.97-m boom

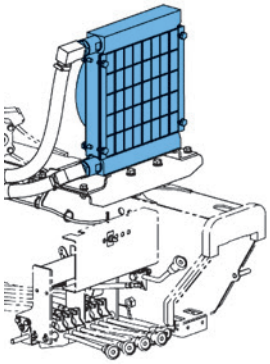
| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 10.75 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,030 | 1,830 | 1,480 | 1,230 | 1,030 | 880 | 780 | 730 |

• 13.34-m boom

| Load radius (m) | 5.0 and below | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.12 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 1,330 | 1,100 | 950 | 830 | 730 | 650 | 600 | 550 | 500 |

**NOTES FOR RATED LIFTING CAPACITIES :**
The mass of hook (50 kg), slings and all similarly used load handling devices must be added to the mass of the load.
The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.



**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.







Note: Some specifications are subject to change

TADANO

**TADANO LTD.** (International Sales Division)
4-12, Kamezawa 2-chome, Sumida-ku Tokyo 130-0014, Japan
Phone: +81-3-3621-7750 Fax: +81-3-3621-7785
http://www.tadano.com/ E-mail: info@tadano.com

**TADANO (THAILAND) CO., LTD.** (Head Office/ Factory)
500/70 Moo 2, T.Tasit, A. Pluak Daeng, Rayong 21140
Phone: +66 (0) 33-01-0939 Fax: +66 (0) 33-01-0940
http://www.tadanothailand.co.th/
Email: tadanothailand.sales@tadano.com, tadanothailand.service@tadano.com

2016-06

# TM-ZT1000 Series

## RATED LIFTING CAPACITIES
**Crane strength rated capacities**

### TM-ZT1004H

• 4.31-m boom

| Load radius (m) | 1.4 m and below | 1.85 m | 2.25 m | 3.1 m | 3.5 m | 4.06 m |
|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 10,000 | 8,000 | 6,000 | 4,900 | 4,200 | 3,650 |

• 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 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 6,000 | 4,900 | 4,200 | 3,700 | 3,300 | 2,900 | 2,200 | 1,800 |

• 10.05-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 9.8 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,000 | 2,900 | 2,200 | 1,800 | 1,550 | 1,350 | 1,200 |

• 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 |
|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,000 | 2,650 | 2,200 | 1,800 | 1,500 | 1,300 | 1,100 | 950 | 700 |

### TM-ZT1005H

• 4.4-m boom

| Load radius (m) | 1.4 and below | 1.85 | 2.25 | 3.1 | 3.5 | 4.15 |
|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 10,000 | 8,000 | 6,000 | 4,900 | 4,200 | 3,550 |

• 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 |
|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 6,000 | 4,900 | 4,200 | 3,700 | 3,300 | 2,900 | 2,200 | 1,750 |

• 10.16-m boom

| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 9.91 |
|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,000 | 2,700 | 2,200 | 1,800 | 1,400 | 1,150 | 1,000 |

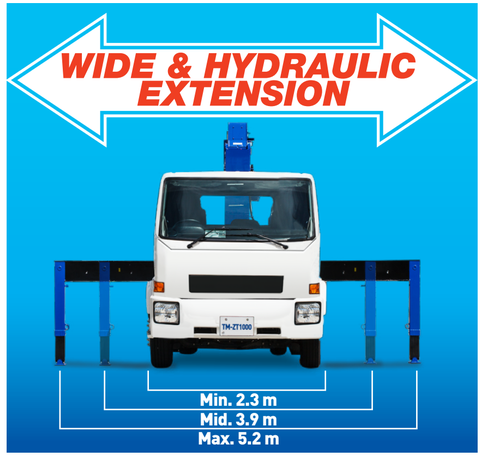
• 13.04-m boom

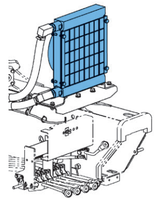
| Load radius (m) | 4.5 and below | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 12.7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 3,000 | 2,600 | 2,000 | 1,700 | 1,400 | 1,150 | 1,000 | 900 | 750 | 650 |

• 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 | 13.0 | 14.0 | 15.67 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Rated lifting capacity (kg) | 2,600 | 2,000 | 1,650 | 1,400 | 1,150 | 1,000 | 900 | 750 | 650 | 550 | 450 |

**NOTES FOR RATED LIFTING CAPACITIES :**
The mass of hook (90 kg), slings and all other similarly used load handling devices must be added to the mass of the load.
The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may be lower than those in the above table depending on the loading conditions and the types of the chassis.



**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.



Note: Some specifications are subject to change

TADANO

**TADANO LTD.** (International Sales Division)
4-12, Kamezawa 2-chome, Sumida-ku Tokyo 130-0014, Japan
Phone: +81-3-3621-7750 Fax: +81-3-3621-7785
http://www.tadano.com/ E-mail: info@tadano.com

**TADANO (THAILAND) CO., LTD.** (Head Office/ Factory)
500/70 Moo 2, T.Tasit, A. Pluak Daeng, Rayong 21140
Phone: +66 (0) 33-01-0939 Fax: +66 (0) 33-01-0940
http://www.tadanothailand.co.th/
Email: tadanothailand.sales@tadano.com, tadanothailand.service@tadano.com

2016-10

TADANO

Lifting your dreams

TRUCK LOADER CRANE

# TM-ZT1000

## For Large Size Vehicles

NEW MODEL 10 t

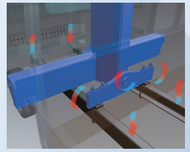
CARGO CRANE



# 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.



## 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.

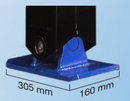


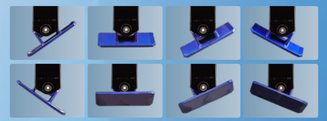
OUTRIGGER LOCK PIN
(Both sides)



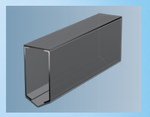
## BIGGER UNIVERSAL OUTRIGGER FLOAT

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



## 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.

# TM-ZT1000 Series

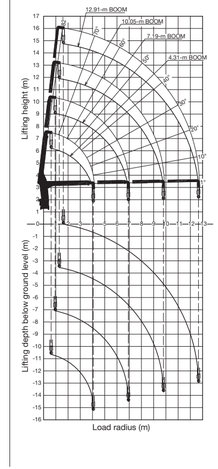
## TECHNICAL SPECIFICATIONS

| 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 / 41 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 | |
| HYDRAULIC SYSTEM Pump | Single gear pump | |
| Control valves | Multiple control valves with integral safety valves | |
| STANDARD SAFETY DEVICES | •Load meter •Load indicator •Anti-two-block alarm •Hook safety latch •Hydraulic safety valves, check valves and holding valves •Level gauge •Anti-two-block device | |
| SUITABLE TRUCKS | Gross vehicle mass 25,000 kg or more | |

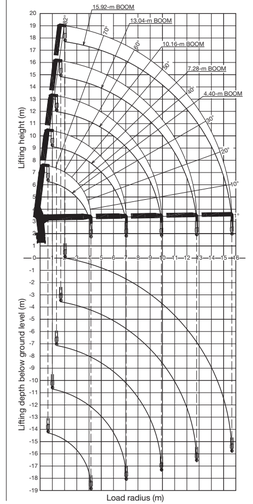
* Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

## 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.