

## TADANO CARGO CRANE

MODEL : **TM-ZE363M**  
**TM-ZE363MH** ----- with hook stowing device

## CRANE SPECIFICATIONS

|   |   |
|---|---|
| <u>CRANE CAPACITY</u>                           | 3,030 kg at 2.6 m (4-part lines)  |
| <u>BOOM</u>                                     | Three-sectioned, fully hydraulic telescoping boom of pentagonal box construction<br>Retracted length ----- 3.28 m<br>Extended length ----- 7.71 m<br>Extending speed ----- 4.43 m / 12 s<br>Elevation ----- Elevated by a double-acting hydraulic cylinder<br>Elevating speed ----- 1° to 78° / 7.5 s<br>Boom point ----- 2 sheaves                 |
| <u>WINCH</u>                                    | Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake<br>Single line pull ----- 7.45 kN {760 kgf}<br>Single line speed ----- 76 m/min (at 4th layer)<br>Wire rope<br>Diameter x length --- 8 mm x 51 m<br>Breaking strength --- 43.1 kN {4.39 tf}<br>Construction ----- 7 x 7 + 6 x WS(26)<br>Hook block ----- 2 sheaves |
| <u>HOOK STOWING DEVICE</u><br>[TM-ZE363MH only] | Mechanically stowed beneath boom top portion  |

SWING

Hydraulic motor driven Worm gear speed reduction Continuous  
360° full circle swing on ball bearing slew ring  
Automatic swing lock  
Swing speed ----- 2.5 min<sup>-1</sup>{rpm}

OUTRIGGERS

Manually extended sliders and hydraulically extended jacks  
Integral with crane frame Power up and down  
Extension width ---- Min. 2,000 mm  
Mid. 2,700 mm, 3,400 mm  
Full 4,200 mm

HYDRAULICS

Hydraulic pump ----- Single gear pump  
Hydraulic motors ----- Axial piston type for winch  
Axial piston type for swing  
Control valves ----- Multiple control valves with integral safety  
valve  
Oil tank capacity ----- approx. 31 L

SAFETY DEVICES

Load meter  
Load indicator  
Over-winding alarm  
Hoisting limiter  
P.T.O indicator lamp  
Hook safety latch  
Hydraulic safety valves, check valves and holding valves  
Level gauge

CRANE MASS

Approx. 1,250 kg (includes standardized mounting parts)

NOTE : Operating speeds of the crane are guaranteed under the condition that the pump  
delivery is 60 L/min.

## RATED LIFTING CAPACITIES IN KILOGRAMS

### Crane Strength Rated Capacities

| Load Radius     | 3.28 m / 5.51 m Boom          |         | Load Radius     | 7.71 m Boom                   |
|-----------------|-------------------------------|---------|-----------------|-------------------------------|
|                 | Extension width of outriggers |         |                 | Extension width of outriggers |
|                 | Full                          | Minimum |                 | Full                          |
| 2.3 m and below | 3,030                         | 1,430   | 2.7 m and below | 2,330                         |
| 2.6 m           | 3,030                         | 1,150   | 3.2 m           | 2,030                         |
| 3.0 m           | 2,580                         | 930     | 3.5 m           | 1,830                         |
| 3.5 m           | 2,180                         | 730     | 4.0 m           | 1,630                         |
| 4.0 m           | 1,880                         | 580     | 4.5 m           | 1,480                         |
| 4.5 m           | 1,680                         | 480     | 5.0 m           | 1,330                         |
| 5.0 m           | 1,480                         | 430     | 5.5 m           | 1,230                         |
| 5.3 m           | 1,380                         | 380     | 6.0 m           | 1,130                         |
|                 |                               |         | 6.5 m           | 1,050                         |
|                 |                               |         | 7.0 m           | 980                           |
|                 |                               |         | 7.5 m           | 930                           |

- NOTES :
1. The mass of hook block (30kg), slings and all similarly used load handling devices must be added to the mass of the load.
  2. 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.

### Empty Chassis Rated Capacities

Table A

| Load Radius     | 3.28 m / 5.51 m Boom          |         | Load Radius     | 7.71 m Boom                   |
|-----------------|-------------------------------|---------|-----------------|-------------------------------|
|                 | Extension width of outriggers |         |                 | Extension width of outriggers |
|                 | Full                          | Minimum |                 | Full                          |
| 2.3 m and below | 3,030                         | 1,330   | 2.7 m and below | 2,330                         |
| 2.6 m           | 3,030                         | 1,100   | 3.2 m           | 2,030                         |
| 3.0 m           | 2,480                         | 880     | 3.5 m           | 1,780                         |
| 3.5 m           | 1,930                         | 680     | 4.0 m           | 1,430                         |
| 4.0 m           | 1,480                         | 530     | 4.5 m           | 1,180                         |
| 4.5 m           | 1,230                         | 430     | 5.0 m           | 980                           |
| 5.0 m           | 1,030                         | 380     | 5.5 m           | 830                           |
| 5.3 m           | 980                           | 330     | 6.0 m           | 730                           |
|                 |                               |         | 6.5 m           | 650                           |
|                 |                               |         | 7.0 m           | 580                           |
|                 |                               |         | 7.5 m           | 530                           |

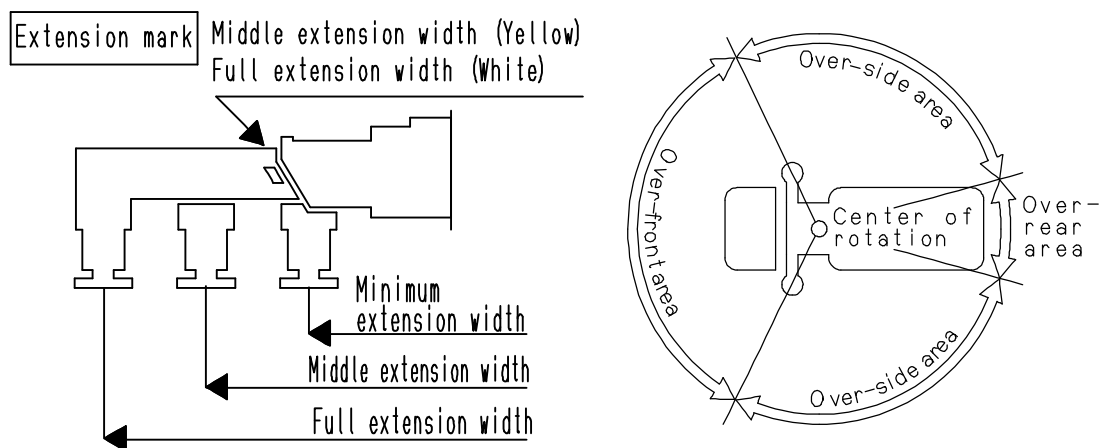
Table C

| Load Radius     | 3.28 m / 5.51 m Boom          |         | Load Radius     | 7.71 m Boom                   |
|-----------------|-------------------------------|---------|-----------------|-------------------------------|
|                 | Extension width of outriggers |         |                 | Extension width of outriggers |
|                 | Full                          | Minimum |                 | Full                          |
| 2.3 m and below | 3,030                         | 1,430   | 2.7 m and below | 2,330                         |
| 2.6 m           | 3,030                         | 1,150   | 3.2 m           | 2,030                         |
| 3.0 m           | 2,480                         | 930     | 3.5 m           | 1,780                         |
| 3.5 m           | 2,030                         | 730     | 4.0 m           | 1,480                         |
| 4.0 m           | 1,730                         | 580     | 4.5 m           | 1,280                         |
| 4.5 m           | 1,430                         | 480     | 5.0 m           | 1,130                         |
| 5.0 m           | 1,180                         | 430     | 5.5 m           | 1,030                         |
| 5.3 m           | 1,080                         | 380     | 6.0 m           | 880                           |
|                 |                               |         | 6.5 m           | 780                           |
|                 |                               |         | 7.0 m           | 700                           |
|                 |                               |         | 7.5 m           | 650                           |

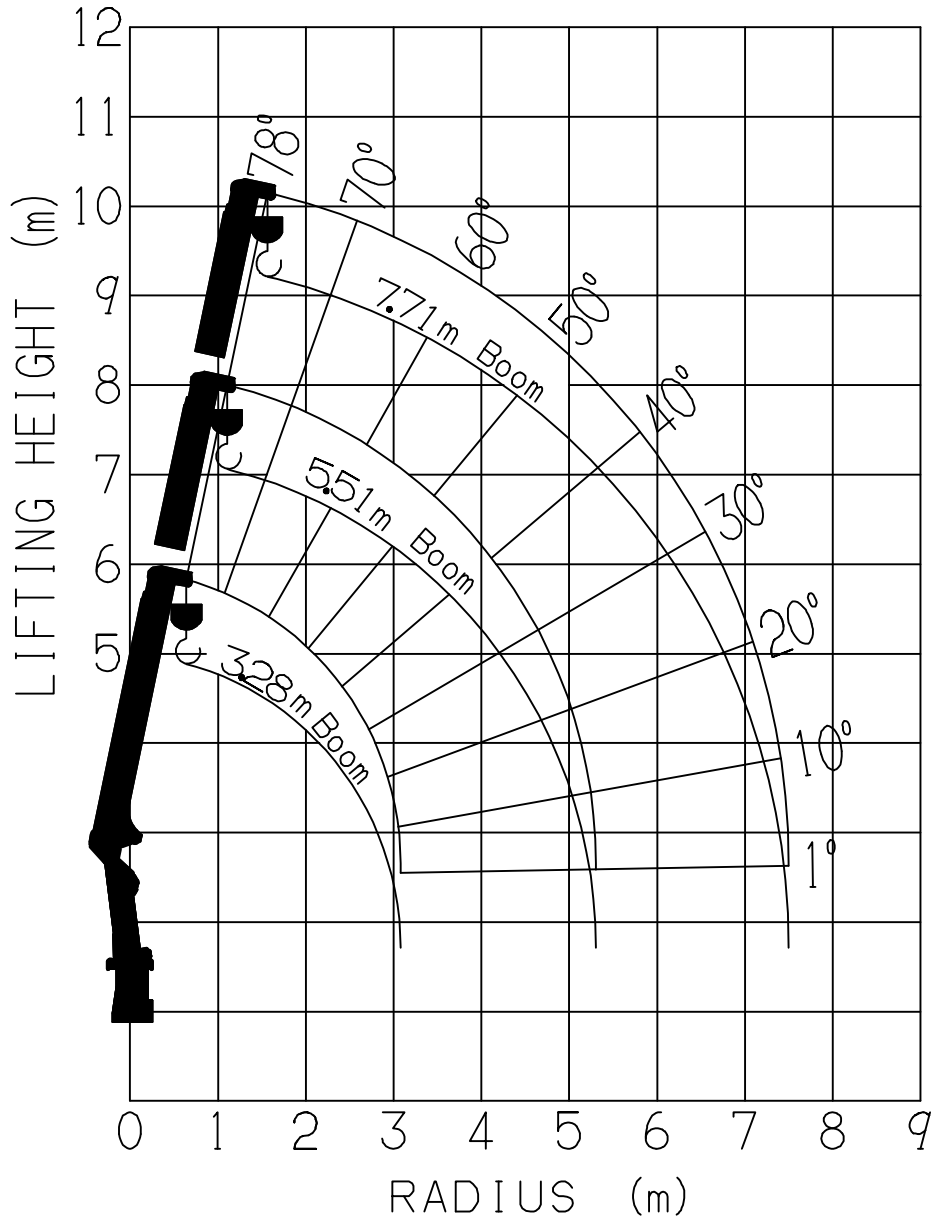
Table D

| Load Radius     | 3.28 m / 5.51 m Boom          |         | Load Radius     | 7.71 m Boom                   |
|-----------------|-------------------------------|---------|-----------------|-------------------------------|
|                 | Extension width of outriggers |         |                 | Extension width of outriggers |
|                 | Full                          | Minimum |                 | Full                          |
| 2.3 m and below | 3,030                         | 1,430   | 2.7 m and below | 2,330                         |
| 2.6 m           | 3,030                         | 1,150   | 3.2 m           | 2,030                         |
| 3.0 m           | 2,580                         | 930     | 3.5 m           | 1,830                         |
| 3.5 m           | 2,180                         | 730     | 4.0 m           | 1,630                         |
| 4.0 m           | 1,880                         | 580     | 4.5 m           | 1,480                         |
| 4.5 m           | 1,680                         | 480     | 5.0 m           | 1,330                         |
| 5.0 m           | 1,480                         | 430     | 5.5 m           | 1,230                         |
| 5.3 m           | 1,380                         | 380     | 6.0 m           | 1,130                         |
|                 |                               |         | 6.5 m           | 1,050                         |
|                 |                               |         | 7.0 m           | 980                           |
|                 |                               |         | 7.5 m           | 930                           |

- NOTES :
1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
  2. The mass of hook block (30 kg), slings and all similarly used load handling devices must be added to the mass of load.
  3. For boom lengths not shown, use the rated lifting capacity of next longer boom.
  4. When outriggers are extended to middle extension width, use the rated lifting capacities for outriggers are extended to minimum extension width.
  5. For boom lengths longer than 5.51m, extend outriggers to full extension width.
  6. Empty Chassis Rated Capacities table A , C and D depend on the types of chassis.
  7. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. These capacities for over-front area may lowered depending on the types of chassis.

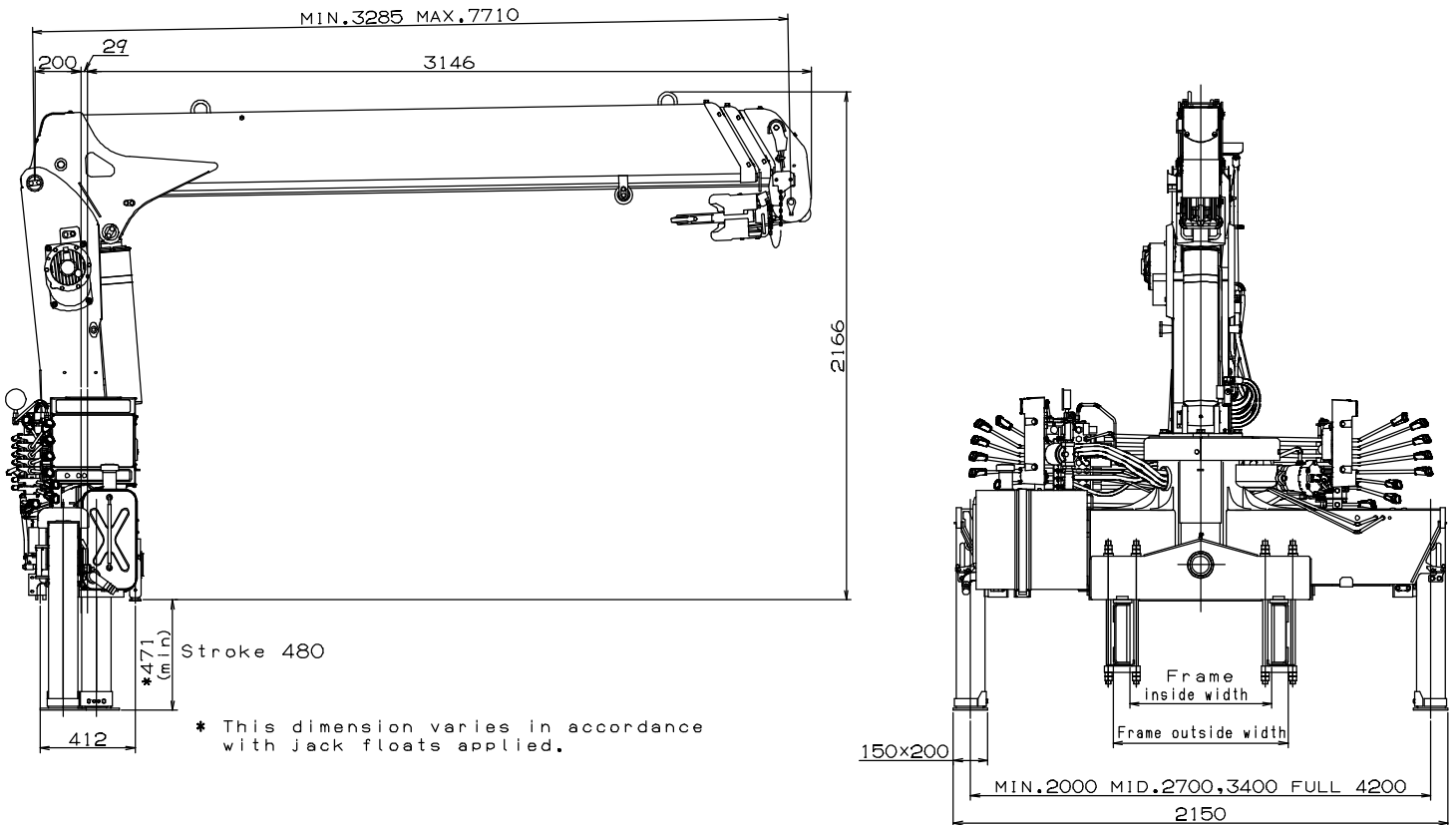


### WORKING RANGE



NOTE : The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

DIMENSIONS [TM-ZE363MH]



GENERAL DATA FOR SUITABLE TRUCKS

- Gross vehicle mass (including crane mass) ----- 8,000 to 15,000 kg
- P.T.O. torque ----- 190 N-m{19.4 kgf-m} min.
- P.T.O. revolution ----- Approx. 300 to 1,900 min<sup>-1</sup>{rpm}
- Width for crane mounting ----- Approx. 640 mm min.
- Frame ----- Weight distribution and frame strength should be calculated for each truck
- Frame width range (inside to outside) ----- Approx. 610 to 860 mm
- Frame height (ground to frame top) ----- Approx. 1,070 mm max.  
 (Height of crane mounting base can be changed by combination of jack floats and crane bases)