

## TADANO CARGO CRANE

MODEL : **TM-ZE266HS**

## CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u>	2,600 kg at 1.5 m (4-part lines)
<u>BOOM</u>	Six-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction Retracted length ----- 3.23 m Extended length ----- 12.8 m Extending speed ----- 9.57 m / 17 s Elevation ----- Elevated by a double-acting hydraulic cylinder Elevating speed ----- 1° to 76° / 6 s Boom point ----- 2 sheaves
<u>WINCH</u>	Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower Single line pull ----- 6.37 kN {650 kgf} Single line speed ----- 68 m/min (at 4th layer) Wire rope Diameter x length ----- 8 mm x 75 m Breaking strength ----- 43.1 kN {4.39 tf} Construction ----- 7 x 7 + 6 x WS(26) Hook block ----- 2 sheaves
<u>HOOK STOWING DEVICE</u>	Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

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. 1,720 mm  
 Mid. 2,400 mm  
 Full 3,000 mm

REAR OUTRIGGERS (Locally provided)  
 Full extension width ---- Not less than 2,400 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. 22 L

SAFETY DEVICES AML(Automatic Moment Limiter)  
 Load indication  
 Load moment ratio to rated load indication  
 Warning alarm  
 Over load limiter  
 WHL(Working Height Limiter)  
 Load meter  
 Load indicator  
 Over-unwinding prevention  
 Terminal for emergency stop switch  
 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. 1,165 kg (with standardized mounting parts included)

NOTE : Operating speeds of the crane are guaranteed under the condition that the pump delivery is 53 L/min.

## RATED LIFTING CAPACITIES IN KILOGRAMS

### Crane Strength Rated Capacities

Load Radius	3.23 m / 5.17 m Boom		Load Radius	7.1 m Boom	Load Radius	9.0 m Boom	Load Radius	10.9 m Boom	Load Radius	12.8 m Boom
	Extension width of outriggers			Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
1.5 m and below	2,600	1,550	3.0 m and below	1,200	4.0 m and below	670	4.5 m and below	450	6.0 m and below	200
1.8 m	2,150	1,250	3.5 m	1,050	4.5 m	600	5.0 m	400	7.0 m	170
2.0 m	1,950	1,100	4.0 m	900	5.0 m	520	6.0 m	300	8.0 m	140
2.5 m	1,550	700	4.5 m	770	6.0 m	420	7.0 m	250	9.0 m	120
3.0 m	1,300	500	5.0 m	670	7.0 m	350	8.0 m	200	10.0 m	100
3.5 m	1,100	350	5.5 m	600	8.0 m	300	9.0 m	170	11.0m	90
4.0 m	950	250	6.0 m	550	8.8 m	270	10.0 m	150	12.6m	70
4.97m	750	150	6.9 m	470			10.7 m	130		

- NOTES : 1. Capacities in above tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30kg)
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

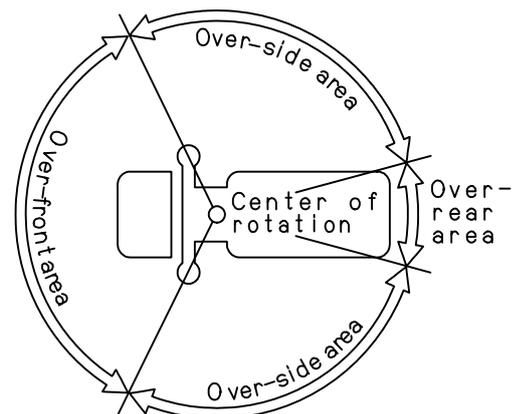
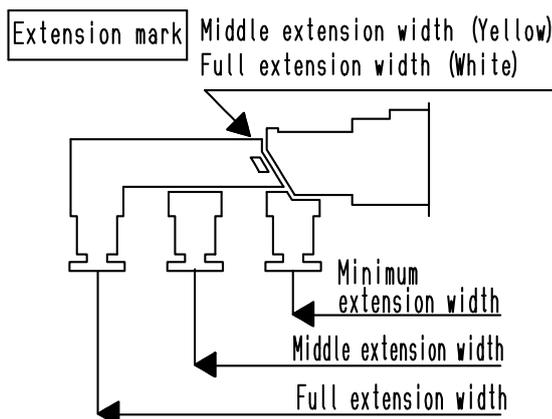
Table C

Load Radius	3.23 m / 5.17 m Boom		Load Radius	7.1 m Boom	Load Radius	9.0 m Boom	Load Radius	10.9 m Boom	Load Radius	12.8 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers		
	Full	Minimum		Full		Full		Full		
1.5 m and below	2,600	1,550	3.0 m and below	1,200	4.0 m and below	650	4.5 m and below	350	6.0 m and below	190
1.8 m	2,100	1,250	3.5 m	1,000	4.5 m	550	5.0 m	300	7.0 m	150
2.0 m	1,900	1,100	4.0 m	850	5.0 m	500	6.0 m	220	8.0 m	120
2.5 m	1,500	700	4.5 m	700	6.0 m	400	7.0 m	180	9.0 m	100
3.0 m	1,200	500	5.0 m	550	7.0 m	320	8.0 m	150	10.0 m	90
3.5 m	1,000	350	5.5 m	500	8.0 m	270	9.0 m	120	11.0m	90
4.0 m	850	250	6.0 m	450	8.8 m	200	10.0 m	100	12.6m	70
4.97m	600	150	6.9 m	350			10.7 m	100		

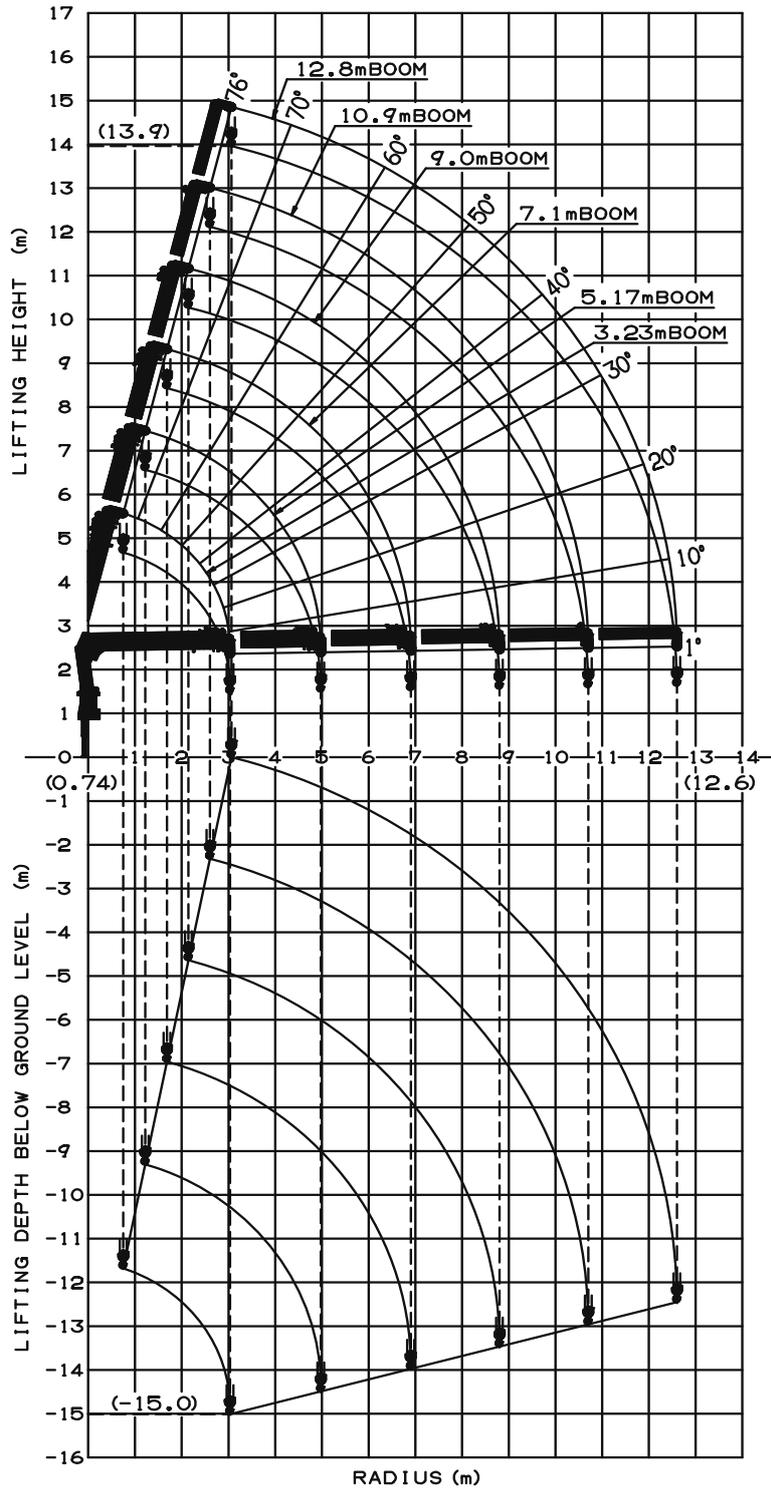
Table D

Load Radius	3.23 m / 5.17 m Boom		Load Radius	7.1 m Boom	Load Radius	9.0 m Boom	Load Radius	10.9 m Boom	Load Radius	12.8 m Boom
	Extension width of outriggers			Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
1.5 m and below	2,600	1,550	3.0 m and below	1,200	4.0 m and below	670	4.5 m and below	450	6.0 m and below	200
1.8 m	2,150	1,250	3.5 m	1,050	4.5 m	600	5.0 m	400	7.0 m	170
2.0 m	1,950	1,100	4.0 m	900	5.0 m	520	6.0 m	300	8.0 m	140
2.5 m	1,550	700	4.5 m	770	6.0 m	420	7.0 m	250	9.0 m	120
3.0 m	1,300	500	5.0 m	670	7.0 m	350	8.0 m	200	10.0 m	100
3.5 m	1,100	350	5.5 m	600	8.0 m	300	9.0 m	170	11.0m	90
4.0 m	950	250	6.0 m	550	8.8 m	270	10.0 m	150	12.6m	70
4.97m	750	150	6.9 m	470			10.7 m	130		

- NOTES :
1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
  2. Capacities in these tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30kg).
  3. For boom lengths not shown, use the rated lifting capacity of next longer boom.
  4. When front 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 5.17m, extend front outriggers and rear outriggers to full extension width.
  6. When the boom length is 9.0 m, a half of the first  $\square$  mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
  7. When the boom length is 10.9 m, a half of the second  $\square$  mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
  8. Empty Chassis Rated Capacities table C and D depend on the types of chassis.
  9. 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.



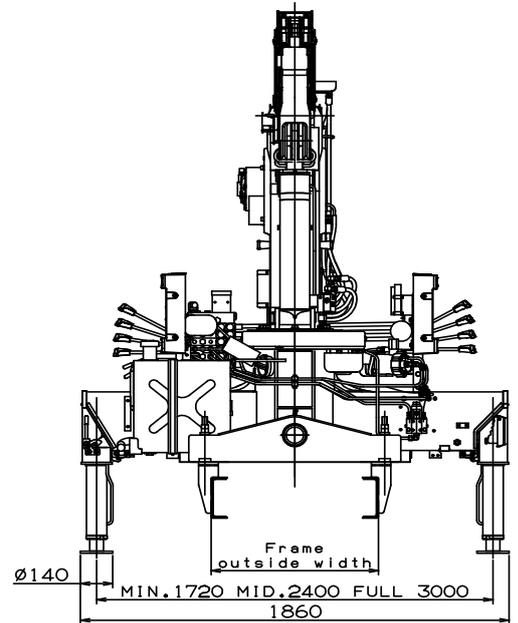
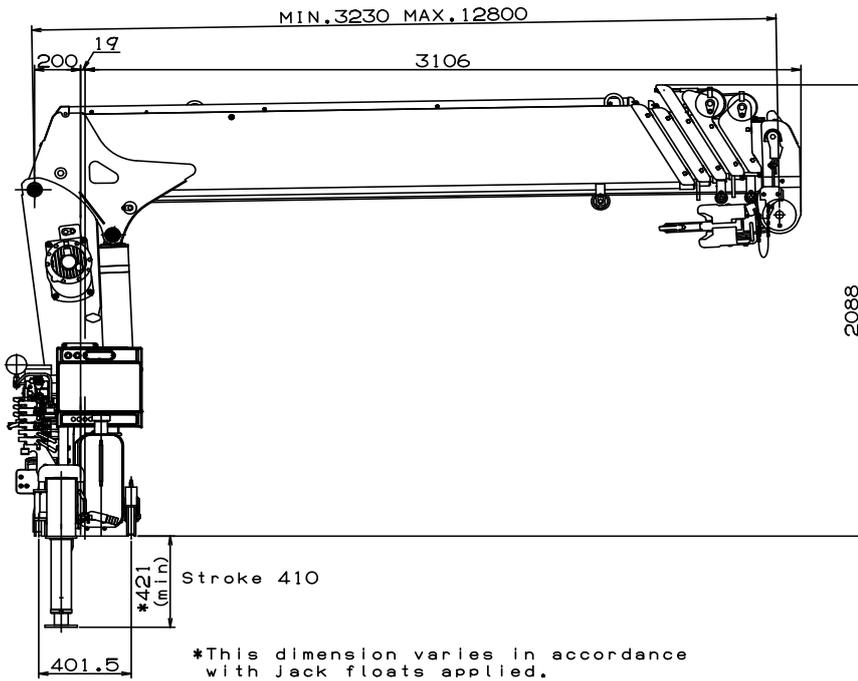
### WORKING RANGE



**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



## GENERAL DATA FOR SUITABLE TRUCKS

Gross vehicle mass (including crane mass) ----- 4,500 to 8,000 kg

P.T.O. torque -----140 N-m {14.3 kgf-m} min.

P.T.O. revolution ----- Approx. 300 to 1,700 min<sup>-1</sup> {rpm}

Width for crane mounting ----- Approx. 605 mm min.

Frame ----- Weight distribution and frame strength should be calculated for each truck

Frame outside width range ----- Approx. 680 to 790 mm

Frame height (ground to frame top) ----- Approx. 1010 mm max.

(Height of crane mounting base can be changed by combination of jack floats and crane bases)