

TADANO CARGO CRANE

MODEL : **TM-ZE366HS**

CRANE SPECIFICATIONS

CRANE CAPACITY

3,000 kg at 2.4 m (4-part lines)

BOOM

Six-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction

Retracted length ----- 3.65 m

Extended length ----- 14.6 m

Extending speed ----- 10.95 m / 19 s

Elevation ----- Elevated by a double-acting hydraulic cylinder

Elevating speed ----- 1° to 78° / 7.5 s

Boom point ----- 2 sheaves

WINCH

Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower

Single line pull ----- 7.35 kN{750 kgf}

Single line speed ----- 76 m/min (at 4th layer)

Wire rope

Diameter x length ----- 8 mm x 85 m

Breaking strength ----- 43.1 kN{4.39 tf}

Construction ----- 7 x 7 + 6 x WS(26)

Hook block ----- 2 sheaves

HOOK STOWING DEVICE

Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

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 Power up and down
 Extension width ----- Min. 2,000 mm
 Mid. 2,900 mm, 3,600mm
 Max. 4,200 mm

REAR OUTRIGGERS (Locally provided)
 Max. extension width ---- Not less than 2,800 mm

HYDRAULICS Hydraulic pump ----- Single gear 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. 31 L

SAFETY DEVICES AML(Automatic Moment Limiter)
 Load indication
 Load moment ratio to rated load indication
 Warning alarm
 Over load limiter (stop)
 WHL(Working Height Limiter)
 Load meter
 Load indicator
 Over-unwinding prevention
 Terminal for emergency stop switch
 Over-winding alarm
 Anti-two-block device
 Hook safety latch
 Hydraulic safety valves, check valves and holding valves
 Level gauge

CRANE MASS Approx. 1,545 kg (with standardized mounting parts included)

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	3.65 m / 5.87 m Boom	Load Radius	8.07 m Boom	Load Radius	10.25 m Boom	Load Radius	12.4 m Boom	Load Radius	14.6 m Boom
2.4 m and below	3,000	2.7 m and below	2,300	4.0 m and below	1,100	5.0 m and below	850	4.9 m and below	400
2.5 m	2,800	3.0 m	2,170	5.0 m	1,020	6.0 m	700	6.0 m	350
3.0 m	2,350	3.5 m	1,900	6.0 m	850	7.0 m	600	7.0 m	300
3.5 m	1,950	4.0 m	1,670	7.0 m	720	8.0 m	500	8.0 m	270
4.0 m	1,670	4.5 m	1,450	8.0 m	620	9.0 m	450	9.0 m	250
4.5 m	1,450	5.0 m	1,270	9.0 m	570	10.0 m	370	10.0m	230
5.0 m	1,270	5.5 m	1,120	10.05m	470	11.0 m	350	11.0m	210
5.67m	1,070	6.0 m	1,000			12.2 m	300	12.0m	190
		6.5 m	900					13.0m	170
		7.0 m	800					14.4m	150
		7.87m	670						

- NOTES : 1. Capacities in above tables include slings and similarly used load lifting 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, the types of the chassis and extension width of outriggers.

Table A Empty Chassis Rated Capacities

Load Radius	3.65 m / 5.87 m Boom		Load Radius	8.07 m Boom	Load Radius	10.25 m Boom	Load Radius	12.4 m Boom	Load Radius	14.6 m Boom					
	Extension width of outriggers										Extension width of outriggers	Extension width of outriggers	Extension width of outriggers	Extension width of outriggers	Extension width of outriggers
	Maximum	Minimum													
2.4 m and below	3,000	1,300	2.7 m and below	2,300	4.0 m and below	1,100	5.0 m and below	850	4.9 m and below	400					
2.5 m	2,750	1,200	3.0 m	2,100	5.0 m	950	6.0 m	670	6.0 m	350					
3.0 m	2,300	850	3.5 m	1,800	6.0 m	750	7.0 m	550	7.0 m	300					
3.5 m	1,950	650	4.0 m	1,550	7.0 m	550	8.0 m	420	8.0 m	270					
4.0 m	1,620	500	4.5 m	1,300	8.0 m	420	9.0 m	350	9.0 m	250					
4.5 m	1,300	400	5.0 m	1,070	9.0 m	350	10.0 m	270	10.0m	220					
5.0 m	1,070	300	5.5 m	900	10.05m	270	11.0 m	220	11.0m	200					
5.67m	870	220	6.0 m	750			12.2 m	180	12.0m	170					
			6.5 m	620					13.0m	150					
			7.0 m	550					14.4m	120					
			7.87m	420											

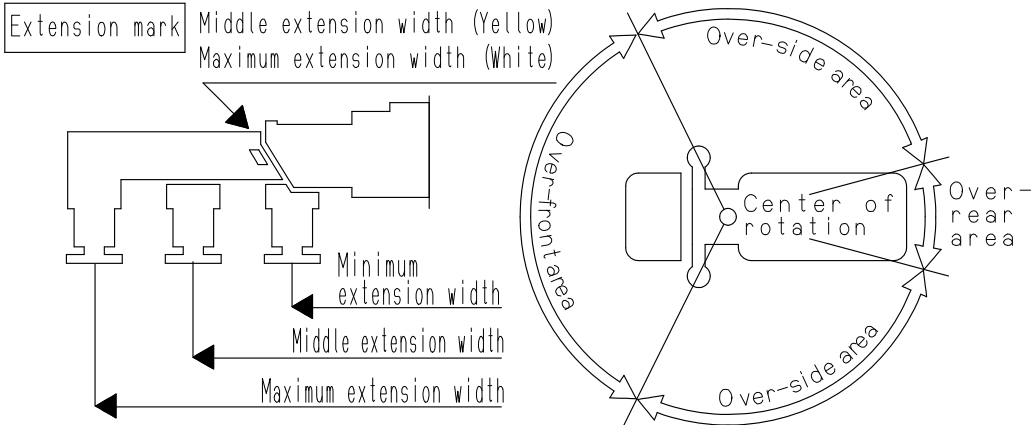
Table C

Load Radius	3.65 m / 5.87 m Boom		Load Radius	8.07 m Boom	Load Radius	10.25 m Boom	Load Radius	12.4 m Boom	Load Radius	14.6 m Boom					
	Extension width of outriggers										Extension width of outriggers	Extension width of outriggers	Extension width of outriggers	Extension width of outriggers	Extension width of outriggers
	Maximum	Minimum													
2.4 m and below	3,000	1,550	2.7 m and below	2,300	4.0 m and below	1,100	5.0 m and below	850	4.9 m and below	400					
2.5 m	2,800	1,450	3.0 m	2,100	5.0 m	1,020	6.0 m	700	6.0 m	350					
3.0 m	2,350	1,020	3.5 m	1,820	6.0 m	850	7.0 m	600	7.0 m	300					
3.5 m	1,950	750	4.0 m	1,570	7.0 m	720	8.0 m	500	8.0 m	270					
4.0 m	1,670	570	4.5 m	1,400	8.0 m	570	9.0 m	420	9.0 m	250					
4.5 m	1,450	450	5.0 m	1,250	9.0 m	470	10.0 m	370	10.0m	230					
5.0 m	1,270	350	5.5 m	1,100	10.05m	400	11.0 m	320	11.0m	210					
5.67m	1,070	250	6.0 m	970			12.2m	270	12.0m	190					
			6.5 m	850					13.0m	170					
			7.0 m	750					14.4m	150					
			7.87m	600											

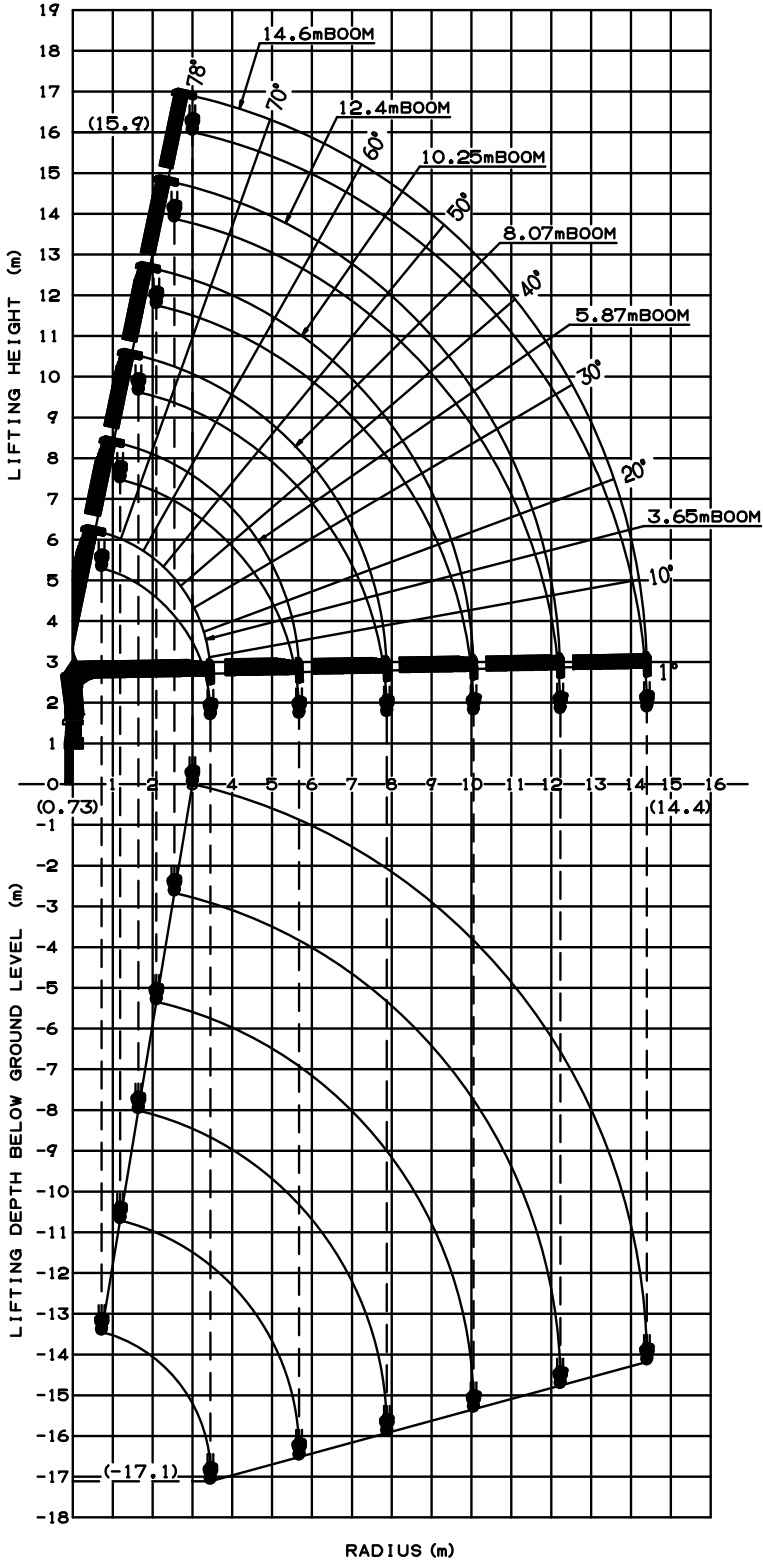
Table D

Load Radius	3.65 m / 5.87 m Boom		Load Radius	8.07 m Boom	Load Radius	10.25 m Boom	Load Radius	12.4 m Boom	Load Radius	14.6 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Maximum	Minimum		Maximum		Maximum		Maximum		Maximum
2.4 m and below	3,000	1,550	2.7 m and below	2,300	4.0 m and below	1,100	5.0 m and below	850	4.9 m and below	400
2.5 m	2,800	1,450	3.0 m	2,170	5.0 m	1,020	6.0 m	700	6.0 m	350
3.0 m	2,350	1,020	3.5 m	1,900	6.0 m	850	7.0 m	600	7.0 m	300
3.5 m	1,950	750	4.0 m	1,670	7.0 m	720	8.0 m	500	8.0 m	270
4.0 m	1,670	570	4.5 m	1,450	8.0 m	620	9.0 m	450	9.0 m	250
4.5 m	1,450	450	5.0 m	1,270	9.0 m	570	10.0 m	370	10.0m	230
5.0 m	1,270	350	5.5 m	1,120	10.05m	470	11.0 m	350	11.0m	210
5.67m	1,070	250	6.0 m	1,000			12.22m	300	12.0m	190
			6.5 m	900					13.0m	170
			7.0 m	800					14.4m	150
			7.87m	670						

- 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. When the front outriggers are extended to the middle extension width, read the capacities rated for the minimum extension width.
 4. This load radius shows actual load radius which includes boom deflection.
 5. If the boom length exceeds the table value even a little, the performance is limited to the performance of the next boom length.
 6. For boom lengths longer than 5.87m, extend front outriggers and rear outriggers to maximum extension width.
 7. When the boom length is 10.25 m, a half of the first ◻ mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
 8. When the boom length is 12.4 m, a half of the second ◻ mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
 9. Empty Chassis Rated Capacities table A ,C and D depend on the types of chassis.
 10. 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.



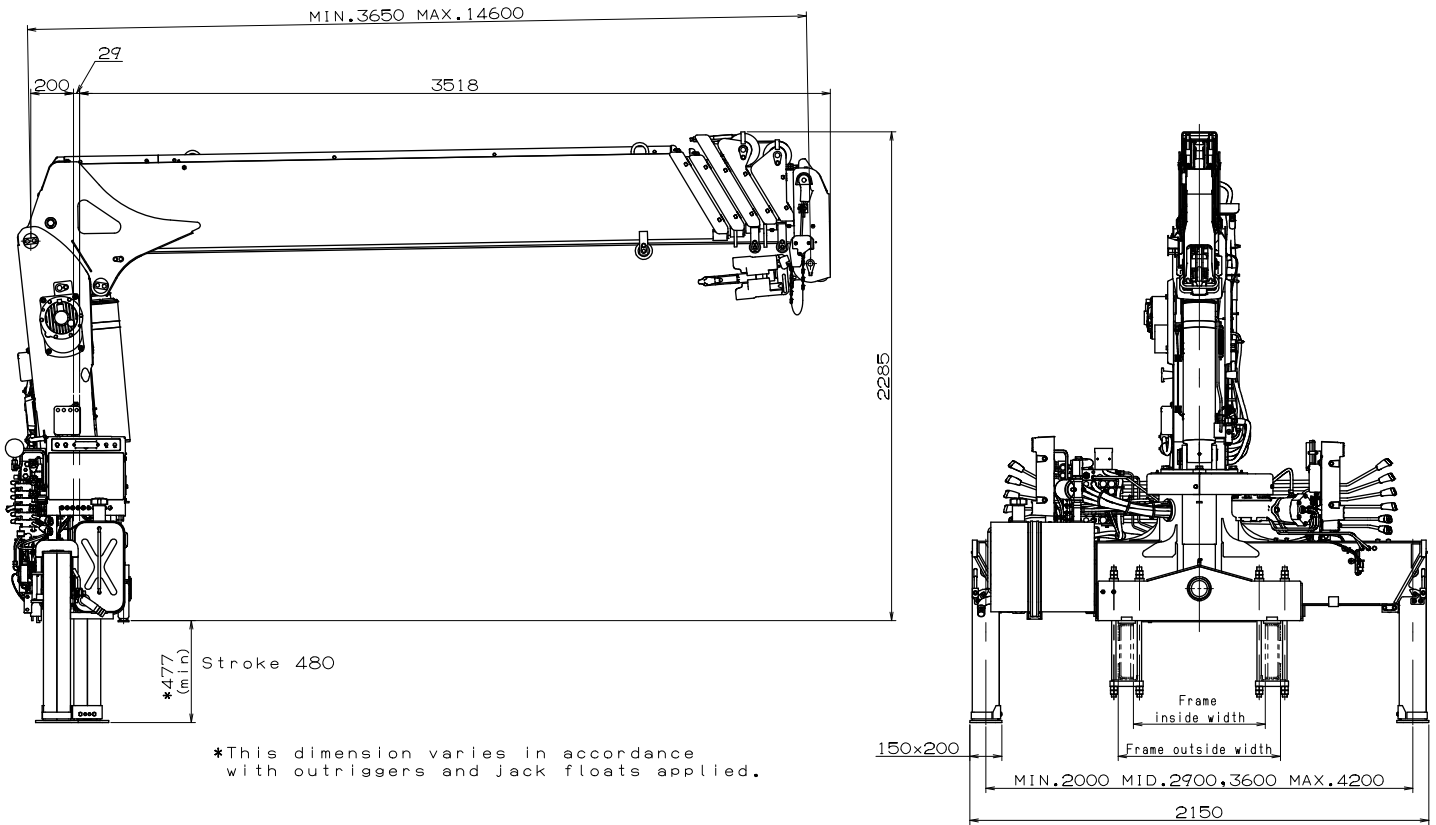
WORKING RANGE



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



GENERAL DATA FOR SUITABLE TRUCKS

- Gross vehicle mass (including crane mass) ----- 8,000 to 17,000 kg
- P.T.O. torque ----- 190 N-m{19.4 kgf-m} min.
- P.T.O. revolution ----- Approx. 300 to 1,900 min⁻¹{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. 1,055 mm max.
(Height of crane mounting base can be changed by combination of jack floats and crane bases)