

SPEC. SHEET No. TM-36Z-4-03217/A-04DATENovember, 2011

## TADANO CARGO CRANE

# MODEL: TM-ZE366HRS

## **CRANE SPECIFICATIONS**

CRANE CAPACITY	3,030 kg at 2.3 m (4-part lines)
BOOM	Six-sectioned, fully powered partly synchronized telescoping boom of pentagonal 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
<u>WINCH</u>	Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower Single line pull 7.45 kN{760 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

<u>SWING</u>	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}
<u>OUTRIGGERS</u>	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
REAR OUTRIGGERS (Loca	
<u>HYDRAULICS</u>	Hydraulic pump Single gear pump Hydraulic motors Axial piston type for winch Axial piston type for swing Control valvesMultiple control valves with integral safety valve Oil tank capacity approx. 31 L
RADIO CONTROLLER	Model : RCS-F Control functions of boom telescoping, hoisting up and down, boom elevating, swing, acceleration, speed mode selection, working height limiting, Hook-in, Hook-out, horn and emergency stop Frequency 40 frequencies in 433 MHz band Operating power supply Transmitter 6V DC, Dry battery R6P(SUM-3) x 4 Control unit 24V DC, Vehicle battery Transmitter mass Approx. 576 g (includes batteries)
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 Radius indicator Emergency stop switch on radio controller Terminal for emergency stop switch Over-winding alarm Hoisting limiter Jack interlock P.T.O indicator lamp Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge
CRANE MASS	Approx. 1,535 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

		/ 5.87 m om		8.07 m Boom		10.2 m Boom		12.4 m Boom		14.6 m Boom
Load Radius		n width of ggers	Load Radius	Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
2.3 m and below	3,030	1,380	2.7 m and below	2,330	4.0 m and below	1,030	5.0 m and below	700	4.9 m and below	400
2.5 m	2,830	1,230	3.0 m	2,130	5.0 m	880	6.0 m	580	6.0 m	360
3.0 m	2,380	880	3.5 m	1,880	6.0 m	730	7.0 m	500	7.0 m	330
3.5 m	1,980	680	4.0 m	1,630	7.0 m	630	8.0 m	430	8.0 m	300
4.0 m	1,680	530	4.5 m	1,450	8.0 m	580	9.0 m	380	9.0 m	280
4.5 m	1,450	430	5.0 m	1,280	9.0 m	510	10.0m	330	10.0m	260
5.0 m	1,280	330	5.5 m	1,130	10.05m	480	11.0m	300	11.0m	240
5.67m	1,080	280	6.0 m	1,000			12.22m	280	12.0m	220
			6.5 m	880					13.0m	200
			7.0 m	800					14.4m	180
			7.87m	680						

#### Crane Strength Rated Capacities

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

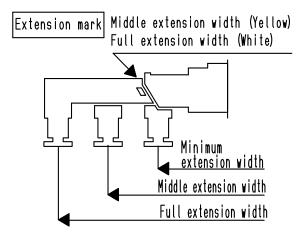
	Empty Chassis Rated Capacities									
Load Radius	3.65 m / Bo Extension outrig Full	om n width of	Load Radius	8.07 m Boom Extension width of outriggers Full	Load Radius	10.2 m Boom Extension width of outriggers Full	Load Radius	12.4 m Boom Extension width of outriggers Full	Load Radius	14.6 m Boom Extension width of outriggers Full
2.3 m and below	3,030	1,280	2.7 m and below	2,230	4.0 m and below	1,030	5.0 m and below	630	4.9 m and below	330
2.5 m	2,780	1,130	3.0 m	2,030	5.0 m	830	6.0 m	480	6.0 m	280
3.0 m	2,280	780	3.5 m	1,680	6.0 m	700	7.0 m	400	7.0 m	250
3.5 m	1,880	580	4.0 m	1,380	7.0 m	530	8.0 m	350	8.0 m	230
4.0 m	1,430	480	4.5 m	1,180	8.0 m	430	9.0 m	310	9.0 m	210
4.5 m	1,180	380	5.0 m	980	9.0 m	350	10.0m	280	10.0m	190
5.0 m	980	280	5.5 m	830	10.05m	300	11.0m	250	11.0m	170
5.67m	820	230	6.0 m	700			12.22m	210	12.0m	160
			6.5 m	600		-			13.0m	140
			7.0 m	530					14.4m	130
Table C			7.87m	450				-		
Load Radius	Bo	n width of	Load Radius	8.07 m Boom Extension width of outriggers	Load Radius	10.2 m Boom Extension width of outriggers	Load Radius	12.4 m Boom Extension width of outriggers	Load Radius	14.6 m Boom Extension width of outriggers
	Bo Extensio	om n width of		Boom Extension width of	Radius	Boom Extension width of	Radius	Boom Extension width of		Boom Extension width of
	Bo Extension outriç	om n width of ggers		Boom Extension width of outriggers		Boom Extension width of outriggers		Boom Extension width of outriggers		Boom Extension width of outriggers
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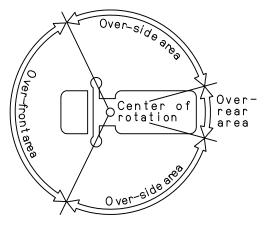
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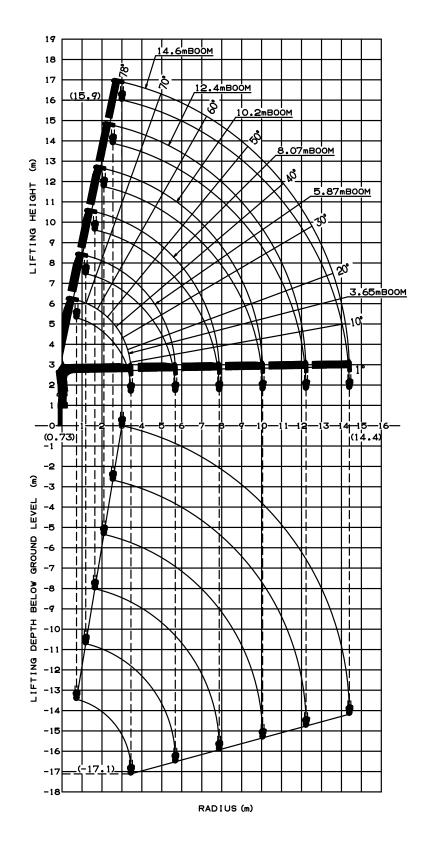
Table D

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 5.87m, extend outriggers to full extension width.
- 6. When the boom length is 10.2 m, a half of the first *□* mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
- 7. When the boom length is 12.4 m, a half of the second *r* mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
- 8. Empty Chassis Rated Capacities table A ,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 lowered depending on the types of chassis.



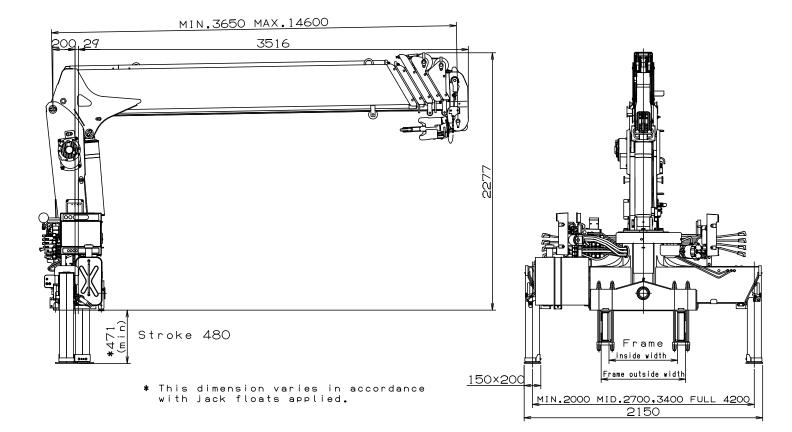




### WORKING RANGE

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 15,000 kg	
P.T.O. torque190 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 fr	ame strength should
be calculated for each tru	ick
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 b	ase can be changed
by combination of jack floa	ats and crane bases)