

SPEC. SHEET No. TM-36Z-4-03037/EX-02[TM-ZE366D]

TM-36Z-4-03077/EX-02[TM-ZE366DH]

DATE July, 2010

TADANO CARGO CRANE

MODEL: TM-ZE366D TM-ZE366DH ----- with hook stowing device

CRANE SPECIFICATIONS

CRANE CAPACITY 2,930 kg at 2.4 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

WINCH Hydraulic motor driven Spur gear speed reduction, provided

with mechanical brake and cable follower

Single line pull ----- 7.20 kN{735 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 ----- $7 \times 7 + 6 \times WS(26)$

Hook block ----- 2 sheaves

HOOK STOWING DEVICE Mechanically stowed beneath boom top portion

[TM-ZE366DH only]

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<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⁻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. 2,700 mm, 3,400 mm

Full 4,200 mm

REAR OUTRIGGERS (Locally provided)

Full extension width ---- Not less than 2,800 mm

<u>HYDRAULICS</u> 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. 1,520 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

	3.65 m / 5.87 m Boom			8.07 m Boom		10.2 m Boom		12.4 m Boom		14.6 m Boom
Load Radius		on width riggers	Load Radius	Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
2.4 m			2.7 m		4.0 m		5.0 m		4.9 m	
and	2,930	1,330	and	2,330	and	1,030	and	700	and	400
below			below		below		below		below	
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
B		•	6.5 m	880				•	13.0m	200
			7.0 m	800					14.4m	180
			7 97m	690						

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

3.65 m / 5.87 m Boom			8.07 m Boom		10.2 m Boom		12.4 m Boom		14.6 m Boom
Extension width of outriggers		Load Radius	Extension width of	Load Radius	Extension width of	Load Radius	Extension width of	Load Radius	Extension width of
Full	Minimum								outriggers Full
2,930	1,230	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
2,780	1,130	3.0 m	2,030	5.0 m	830	6.0 m	480	6.0 m	280
2,280	780	3.5 m	1,680	6.0 m	700	7.0 m	400	7.0 m	250
1,880	580	4.0 m	1,380	7.0 m	530	8.0 m	350	8.0 m	230
1,430	480	4.5 m	1,180	8.0 m	430	9.0 m	310	9.0 m	210
1,180	380	5.0 m	980	9.0 m	350	10.0m	280	10.0m	190
980	280	5.5 m	830	10.05m	300	11.0m	250	11.0m	170
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
		7.87m	450				•		
	Extension of outs Full 2,930 2,780 2,280 1,880 1,430 1,180 980	Boom Extension width of outriggers Full Minimum 2,930 1,230 2,780 1,130 2,280 780 1,880 580 1,430 480 1,180 380 980 280	Boom Load Radius Extension width of outriggers Load Radius Full Minimum 2.7 m and below 2,780 1,130 3.0 m 2,280 780 3.5 m 1,880 580 4.0 m 1,430 480 4.5 m 1,180 380 5.0 m 980 280 5.5 m 820 230 6.0 m 6.5 m 7.0 m	Boom Boom Extension width of outriggers Load Radius Extension width of outriggers Full Minimum 2.7 m and below 2,230 2,780 1,130 3.0 m 2,030 2,280 780 3.5 m 1,680 1,880 580 4.0 m 1,380 1,430 480 4.5 m 1,180 1,180 380 5.0 m 980 980 280 5.5 m 830 820 230 6.0 m 700 6.5 m 600 7.0 m 530	Boom Boom Extension width of outriggers Load Radius Extension width of outriggers Full Load Radius Full Minimum 2.7 m and below 2,230 and below 4.0 m and below 2,780 1,130 3.0 m 2,030 5.0 m 2,280 780 3.5 m 1,680 6.0 m 1,880 580 4.0 m 1,380 7.0 m 1,430 480 4.5 m 1,180 8.0 m 1,180 380 5.0 m 980 9.0 m 980 280 5.5 m 830 10.05m 820 230 6.0 m 700 6.5 m 600 7.0 m 530	Boom Boom Extension width of outriggers Full ## Load Radius Extension width of outriggers ## Extension width of outriggers<	Boom Boom Extension width of outriggers Boom Extension width of outriggers Boom Extension width of outriggers Extension width of outriggers Extension width of outriggers Load Radius Extension width of outriggers Load Radius Extension width of outriggers Full Load Radius Extension width of outriggers Full Load Radius Extension width of outriggers Full 5.0 m S.0 m Aund below S.0 m and below 5.0 m 7.0 m 9.0 m 350 10.0 m 11.0 m 12.22 m 1,180 380 5.5 m 830 10.05 m 300 11.0 m 12.22 m	Boom Boom Extension width of outriggers Boom Radius Extension width of outriggers Load Radius Extension width of outriggers Full Full 5.0 m and below Extension width of outriggers Full 2,930 1,230 and below 2,230 and and below 1,030 and and below 630 2,780 1,130 3.0 m 2,030 5.0 m 830 6.0 m 480 2,280 780 3.5 m 1,680 6.0 m 700 7.0 m 400 1,880 580 4.0 m 1,380 7.0 m 530 8.0 m 350 1,430 480 4.5 m 1,180 8.0 m 430 9.0 m 310 1,180 380 5.5 m 830 10.05m 300 11.0m 250 820 230 6.0 m 700 6.5 m 600 7.0 m 530	Extension width of outriggers Full Minimum Load below 2,780 1,130 3.0 m 2,230 1,880 580 4.0 m 1,380 7.0 m 1,180 380 5.5 m 830 6.0 m 700 7.0 m 820 230 6.5 m 600 7.0 m 530 8.0 m 12.22m 210 12.0 m 13.0 m 14.4 m

Table C

rable C										
	3.65 m / 5.87 m Boom			8.07 m Boom		10.2 m Boom		12.4 m Boom		14.6 m Boom
Load Radius	Extension width of outriggers		Load Radius	Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
2.4 m		TVIII III TOITT	2.7 m		4.0 m		5.0 m		4.9 m	
and	2,930	1,330	and	2,230	and	1,030	and	630	and	330
below			below		below		below		below	
2.5 m	2,780	1,230	3.0 m	2,030	5.0 m	830	6.0 m	480	6.0 m	280
3.0 m	2,280	880	3.5 m	1,680	6.0 m	730	7.0 m	400	7.0 m	250
3.5 m	1,930	680	4.0 m	1,380	7.0 m	600	8.0 m	350	8.0 m	230
4.0 m	1,630	530	4.5 m	1,180	8.0 m	480	9.0 m	310	9.0 m	210
4.5 m	1,330	430	5.0 m	1,050	9.0 m	400	10.0m	280	10.0m	190
5.0 m	1,080	330	5.5 m	880	10.05m	330	11.0m	250	11.0m	170
5.67m	880	280	6.0 m	780			12.22m	230	12.0m	160
			6.5 m	680					13.0m	140
			7.0 m	600					14.4m	130

500

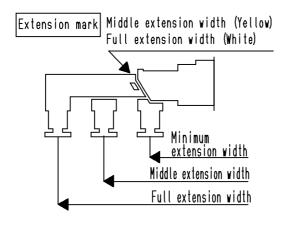
7.87m

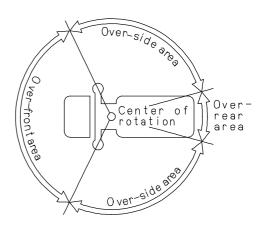
Table D

Laad	3.65 m / 5.87 m Boom		Load Radius	8.07 m Boom	Laad	10.2 m Boom	Load Radius	12.4 m Boom	Load Radius	14.6 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers	Load Radius	Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full		Full
2.4 m and below	2,930	1,330	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				'		

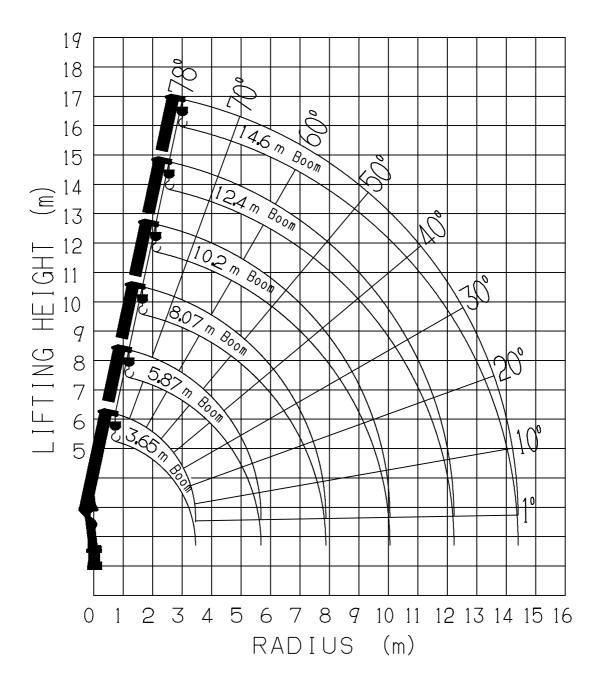
- NOTES: 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 - 2. The mass of hook block (30 kg), slings and all similarly used load handling devices must be added to the mass of load.
 - 3. For boom lengths not shown, use the rated lifting 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.

 - 7. When the boom length is 12.4 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 A ,C and D depend on the types of chassis.
 - 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.

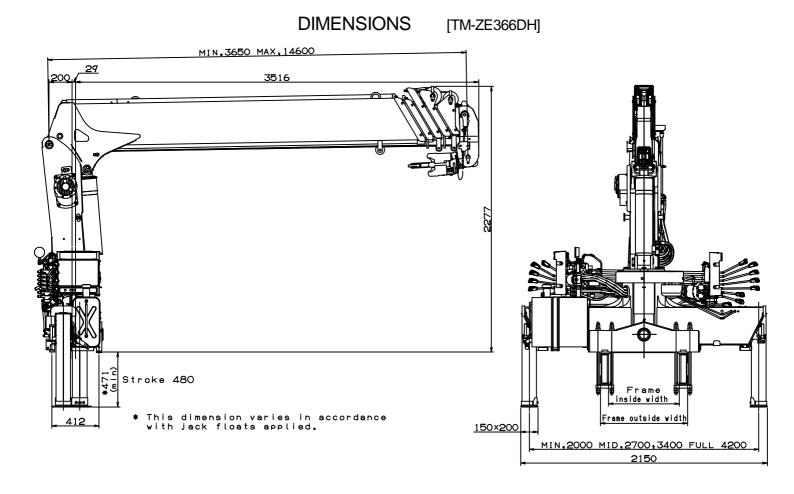




WORKING RANGE



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.



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 ⁻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. 1,070 mm max.
	(Height of crane mounting base can be
	changed by combination of jack floats and
	crane bases)