

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⁻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

RADIO CONTROLLER Model: RCS-F (Approved by NCC LP0002)

Control functions of boom telescoping, hoisting up and down, boom elevating, swing, acceleration, speed mode selection,

Hook-in, Hook-out, vehicle horn and emergency stop Frequency ----- 5 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. 569 g (includes batteries)

<u>SAFETY DEVICES</u> 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

Emergency stop switch on radio controller

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

<u>CRANE MASS</u> 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

Crane Strength Rated Capacities

Land	3.65 m / 5.87 m Boom		Load E	Extension	l and	10.2 m Boom	Load Radius	12.4 m Boom	Load Radius	14.6 m Boom
Load Radius	Extension width of outriggers				Load - Radius	Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full		Full
2.3 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						

- 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.

Table A

Empty Chassis Rated Capacities

	3.65 m / 5.87 m			8.07 m		10.2 m		12.4 m		14.6 m
Load Radius	Boom		Load Radius	Boom	xtension Load vidth of Radius	Boom	n Load f Radius	Boom	Load Radius	Boom
	Extension width			Extension width of		Extension width of		Extension width of		Extension width of
	of outriggers			outriggers		outriggers		outriggers		outriggers
	Full	Minimum		Full		Full		Full		Full
2.3 m	3,030	1,280	2.7 m	2,230	4.0 m	1,030	5.0 m	630	4.9 m	330
and below	3,030	1,200	and below	2,230	and below	1,000	and below		and below	550
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
			7.87m	450				'		

Table C

Table C										
Load Radius	Bo Extension of out	/ 5.87 m om on width riggers	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
	Full	Minimum		Full		Full		Full		Full
2.3 m and below	3,030	1,380	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	1,230	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

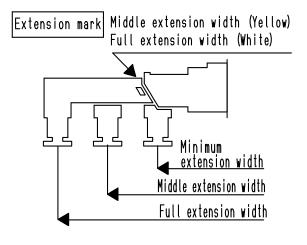
500

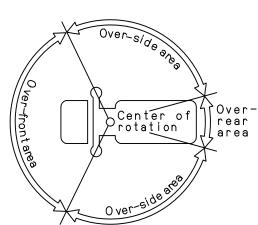
7 87m

Table D

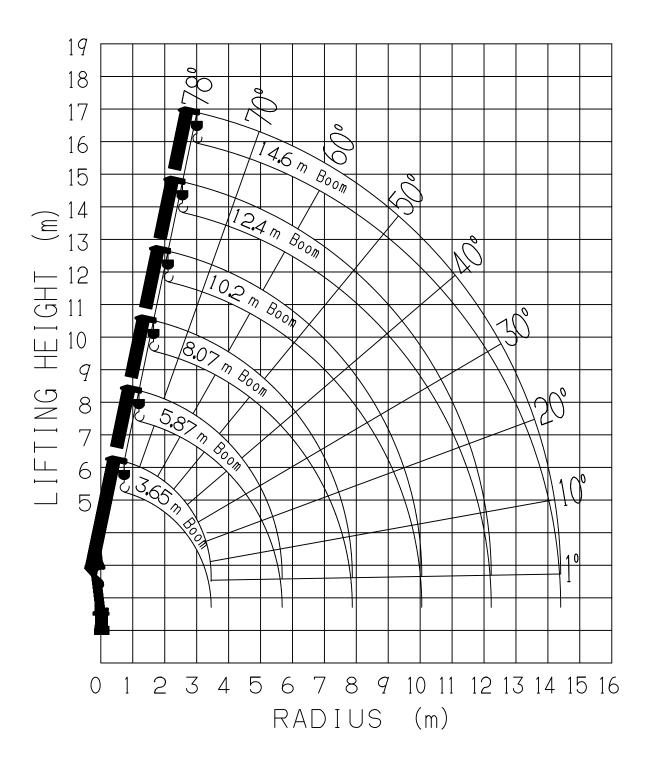
	3.65 m / 5.87 m Boom		Radius width of		Load Radius	10.2 m Boom		12.4 m Boom		14.6 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full		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						

- 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 σ 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 σ 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.



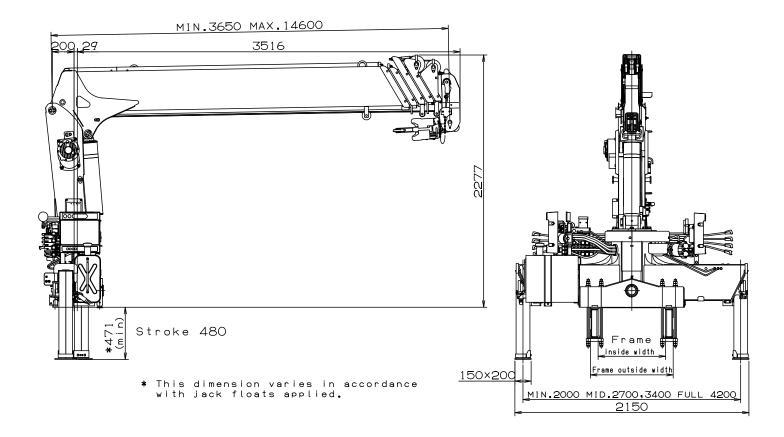


WORKING RANGE



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.

DIMENSIONS



GENERAL DATA FOR SUITABLE TRUCKS

Gross vehicle mass (including crane mass) 8	8,000 to 15,000 kg
P.T.O. torque1	90 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 V	Weight distribution and frame strength should
b	oe calculated for each truck
Frame width range (inside to outside) A	pprox. 610 to 860 mm
Frame height (ground to frame top) A	Approx. 1,070 mm max.
(H	leight of crane mounting base can be changed
b	by combination of jack floats and crane bases)