

TADANO CARGO CRANE

MODEL: TM-ZE266HRS

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u> 2,630 kg at 1.5 m (4-part lines)

BOOM 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 ----- 6.47 kN {660 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

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. 1,720 mm

Mid. 2,400 mm Full 3,000 mm

REAR OUTRIGGERS (Locally provided)

Full extension width ---- Not less than 2,400 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. 22 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)

<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 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

<u>CRANE MASS</u> 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

	3.23 m / 5.17 m Boom			7.1 m Boom		9.0 m Boom		10.9 m Boom		12.8 m Boom
Load Radius	Extension	n width of ggers	Load Radius	Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
1.5 m and below	2,630	1,580	3.0 m and below	1,230	4.0 m and below	700	4.5 m and below	480	6.0 m and below	230
1.8 m	2,180	1,280	3.5 m	1,080	4.5 m	630	5.0 m	430	7.0 m	200
2.0 m	1,980	1,130	4.0 m	930	5.0 m	550	6.0 m	330	8.0 m	170
2.5 m	1,580	730	4.5 m	800	6.0 m	450	7.0 m	280	9.0 m	150
3.0 m	1,330	530	5.0 m	700	7.0 m	380	8.0 m	230	10.0 m	130
3.5 m	1,130	380	5.5 m	630	8.0 m	330	9.0 m	200	11.0m	120
4.0 m	980	280	6.0 m	580	8.8 m	300	10.0 m	180	12.6m	100
4.97m	780	180	6.9 m	500			10.7 m	160		·

- 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

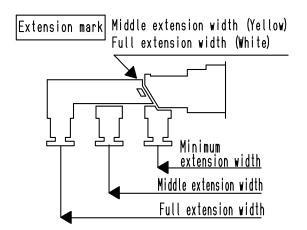
Table C

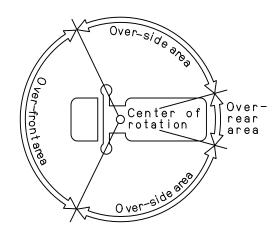
	3.23 m / 5.17 m Boom		Load Radius	7.1 m Boom	Boom Extension Load width of Radius	9.0 m Boom		10.9 m Boom	Load Radius	12.8 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers	Load Radius	Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full		Full
1.5 m and below	2,630	1,580	3.0 m and below	1,230	4.0 m and below	680	4.5 m and below	380	6.0 m and below	220
1.8 m	2,130	1,280	3.5 m	1,030	4.5 m	580	5.0 m	330	7.0 m	180
2.0 m	1,930	1,130	4.0 m	880	5.0 m	530	6.0 m	250	8.0 m	150
2.5 m	1,530	730	4.5 m	730	6.0 m	430	7.0 m	210	9.0 m	130
3.0 m	1,230	530	5.0 m	580	7.0 m	350	8.0 m	180	10.0 m	120
3.5 m	1,030	380	5.5 m	530	8.0 m	300	9.0 m	150	11.0m	120
4.0 m	880	280	6.0 m	480	8.8 m	230	10.0 m	130	12.6m	100
4.97m	630	180	6.9 m	380			10.7 m	130		

Table D

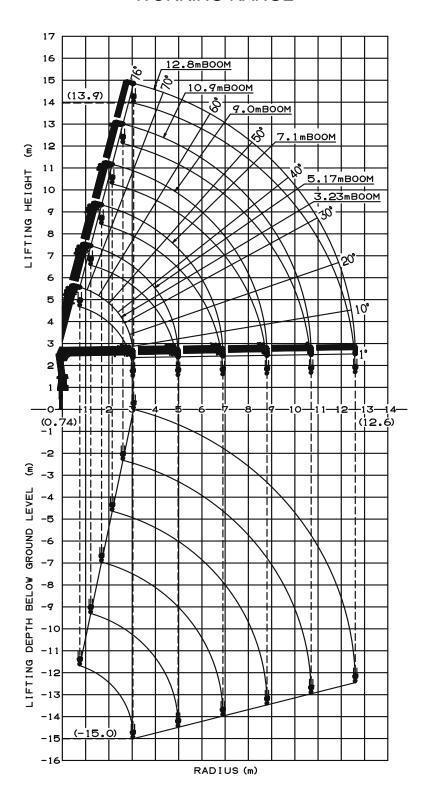
Load Radius	3.23 m / 5.17 m Boom		Load Radius	7.1 m Boom	Load Radius	9.0 m Boom	Load Radius	10.9 m Boom	Load Radius	12.8 m Boom
	Extension width of outriggers			Extension width of outriggers						
	Full	Minimum		Full		Full		Full		Full
1.5 m and below	2,630	1,580	3.0 m and below	1,230	4.0 m and below	700	4.5 m and below	480	6.0 m and below	230
1.8 m	2,180	1,280	3.5 m	1,080	4.5 m	630	5.0 m	430	7.0 m	200
2.0 m	1,980	1,130	4.0 m	930	5.0 m	550	6.0 m	330	8.0 m	170
2.5 m	1,580	730	4.5 m	800	6.0 m	450	7.0 m	280	9.0 m	150
3.0 m	1,330	530	5.0 m	700	7.0 m	380	8.0 m	230	10.0 m	130
3.5 m	1,130	380	5.5 m	630	8.0 m	330	9.0 m	200	11.0m	120
4.0 m	980	280	6.0 m	580	8.8 m	300	10.0 m	180	12.6m	100
4.97m	780	180	6.9 m	500			10.7 m	160		

- 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 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 σ 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.
 - 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.





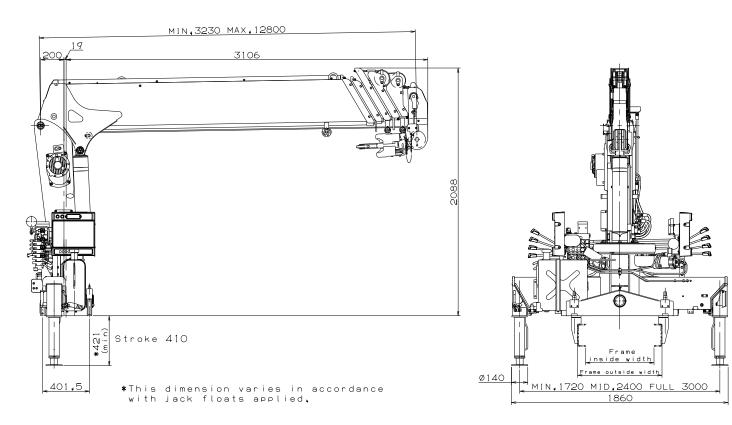
WORKING RANGE



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. torque140 N-m {14.3 kgf-m} min.	
P.T.O. revolution Approx. 300 to 1,700 min ⁻¹ {rpm}	
Width for crane mounting Approx. 605 mm min.	
Frame Weight distribution and frame strength	l
should be calculated for each truck	
Frame width range (inside to outside) Approx. 680 to 790 mm	
Frame height (ground to frame top) Approx. 1,010 mm max.	
(Height of crane mounting base can be)
changed by combination of jack floats	
and crane bases)	