

TADANO CARGO CRANE

MODEL: TM-ZE264HRS

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u> 2,630 kg at 1.6 m (4-part lines)

BOOM Four-sectioned, fully powered partly synchronized telescoping

boom of pentagonal box construction

Retracted length ----- 2.87 m Extended length ----- 8.6 m

Extending speed ----- 5.73 m / 12 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

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 54 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

<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

<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 (Approved by NCC LP0002)

Control functions of boom telescoping, hoisting up and down, boom elevating, swing, acceleration, speed mode selection, Hook-in, Hook-out, 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. 975 kg (includes standardized mounting parts)

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

				a = 1		
	2.87 m / 4.8	82 m Boom		6.71 m		8.6 m
Load	Extension width of outriggers		Load	Extension width	Load	Extension width
Radius			Radius	of outriggers	Radius	of outriggers
	Full	Minimum		Full		Full
1.6 m	2,630	1,580	2.8 m	1,280	4.0 m	700
1.8 m	2,230	1,230	3.0 m	1,230	4.5 m	630
2.0 m	2,030	980	3.5 m	1,080	5.0 m	550
2.5 m	1,630	630	4.0 m	930	6.0 m	450
3.0 m	1,330	480	4.5 m	780	7.0 m	380
3.5 m	1,130	380	5.0 m	700	8.0 m	330
4.0 m	980	280	5.5 m	630	8.4 m	310
4.62m	830	230	6.0 m	580		
			6.51m	530		

- 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

Lood	2.87 m / 4.82 m Boom		Lood	6.71 m Boom	Load Radius	8.6 m Boom
Load Radius	Extension width of outriggers		Load Radius	Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m and below	2,630	1,580	2.6 m and below	1,230	3.8 m and below	680
1.8 m	2,230	1,230	2.8 m	1,130	4.0 m	630
2.0 m	2,030	980	3.0 m	1,030	4.5 m	530
2.5 m	1,480	630	3.5 m	780	5.0 m	430
3.0 m	1,030	480	4.0 m	630	6.0 m	330
3.5 m	780	380	4.5 m	530	7.0 m	250
4.0 m	630	280	5.0 m	430	8.0 m	200
4.62m	480	230	5.5 m	380	8.4 m	180
			6.0 m	350		
			6.51m	300		

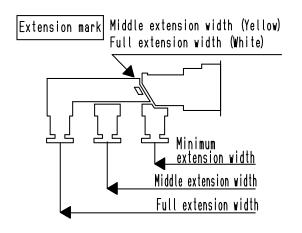
Table C

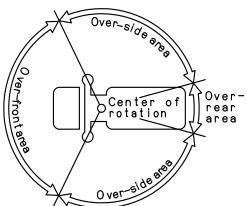
Load Radius	2.87 m / 4.82 m Boom		Lood	6.71 m Boom	Load Radius	8.6 m Boom
	Extension width of outriggers		Load Radius	Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m and below	2,630	1,580	2.8 m and below	1,230	4.0 m and below	680
1.8 m	2,230	1,230	3.0 m	1,130	4.5 m	580
2.0 m	2,030	980	3.5 m	880	5.0 m	480
2.5 m	1,530	630	4.0 m	680	6.0 m	380
3.0 m	1,130	480	4.5 m	580	7.0 m	280
3.5 m	880	380	5.0 m	480	8.0 m	230
4.0 m	680	280	5.5 m	400	8.4 m	200
4.62m	530	230	6.0 m	380		

Table D

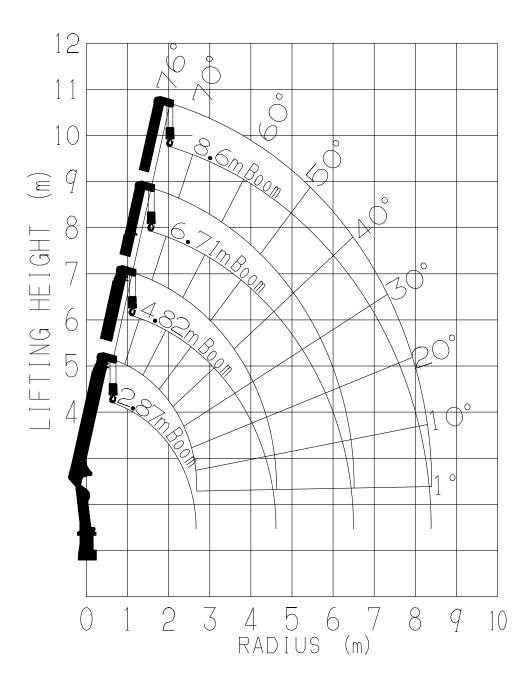
2.87 m / 4.82 m Boom			6.71 m		8.6 m	
Load Radius		n width of ggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m	2,630	1,580	2.8 m	1,280	4.0 m	700
1.8 m	2,230	1,230	3.0 m	1,230	4.5 m	630
2.0 m	2,030	980	3.5 m	1,080	5.0 m	550
2.5 m	1,630	630	4.0 m	930	6.0 m	450
3.0 m	1,330	480	4.5 m	780	7.0 m	380
3.5 m	1,130	380	5.0 m	700	8.0 m	330
4.0 m	980	280	5.5 m	630	8.4 m	310
4.62m	830	230	6.0 m	580		
•			6.51m	530		

- 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 4.82 m, extend outriggers to full extension width.
 - 6. When the boom length is 6.71 m, a half of the $\ \ \ \ \ \$ mark on lateral face of the 3rd boom section is exposed out of the 2nd boom section.
 - 7. Empty Chassis Rated Capacities table A ,C and D depend on the types of chassis.
 - 8. 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.





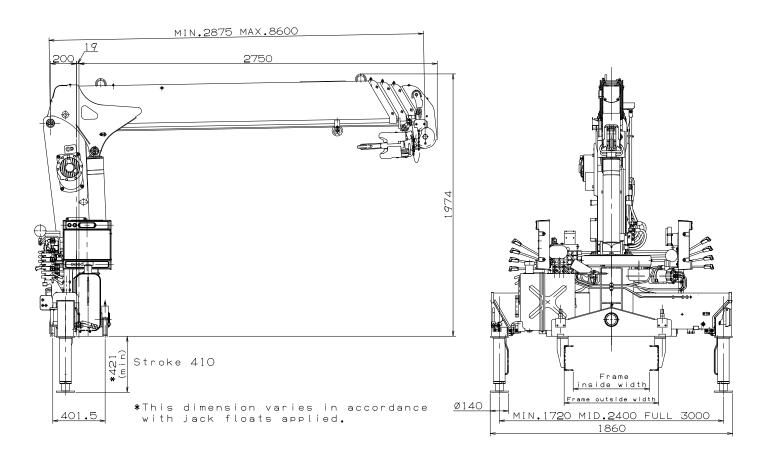
WORKING RANGE



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. torque	-140 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
	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)