

TADANO CARGO CRANE

MODEL: TM-ZE364HRS

CRANE SPECIFICATIONS

CRANE CAPACITY 3,030 kg at 2.5 m (4-part lines)

BOOM Four-sectioned, fully powered partly synchronized telescoping boom

of pentagonal box construction

Retracted length ----- 3.34 m Extended length -----10.0 m

Extending speed ----- 6.66 m / 14 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

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 63 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. 2,000 mm

Mid. 2,700 mm, 3,400 mm

Full 4,200 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, 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)

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 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. 1,365 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

Load	3.34 m / 5.57 m Boom		Load Radius	7.78 m Boom	Load Radius	10.0 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
2.3 m and below	3,030	1,430	2.7 m and below	2,330	4.0 m and below	1,030
2.5 m	3,030	1,200	3.2 m	2,030	5.0 m	880
3.0 m	2,480	930	3.5 m	1,830	6.0 m	750
3.5 m	2,080	680	4.0 m	1,630	7.0 m	650
4.0 m	1,780	530	4.5 m	1,480	8.0 m	580
4.5 m	1,580	480	5.0 m	1,330	9.0 m	510
5.0 m	1,380	380	5.5 m	1,230	9.8 m	480
5.37m	1,280	330	6.0 m	1,130		
			6.5 m	1,030		
			7.0 m	950		
			7.58m	880		

- 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

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Load Radius	3.34 m / 5.57 m Boom Extension width of outriggers		Load Radius	7.78 m Boom Extension width of outriggers	Load Radius	10.0 m Boom Extension width of outriggers
	Full	Minimum		Full		Full
2.3 m and below	3,030	1,330	2.7 m and below	2,330	4.0 m and below	1,030
2.5 m	3,030	1,100	3.2 m	2,030	5.0 m	830
3.0 m	2,330	830	3.5 m	1,730	6.0 m	730
3.5 m	1,880	630	4.0 m	1,430	7.0 m	550
4.0 m	1,430	530	4.5 m	1,180	8.0 m	450
4.5 m	1,180	430	5.0 m	980	9.0 m	380
5.0 m	980	330	5.5 m	830	9.8 m	350
5.37m	900	330	6.0 m	730		
			6.5 m	650		
			7.0 m	580		
			7.58m	520		

Table C

Load	3.34 m / 5.57 m Boom		Load Radius	7.78 m Boom	Load Radius	10.0 m Boom
Radius	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
2.3 m and below	3,030	1,430	2.7 m and below	2,330	4.0 m and below	1,030
2.5 m	3,030	1,200	3.2 m	2,030	5.0 m	830
3.0 m	2,330	930	3.5 m	1,730	6.0 m	730
3.5 m	1,980	680	4.0 m	1,430	7.0 m	630
4.0 m	1,680	530	4.5 m	1,230	8.0 m	530
4.5 m	1,380	480	5.0 m	1,080	9.0 m	460
5.0 m	1,130	380	5.5 m	980	9.8 m	430
5.37m	1,030	330	6.0 m	830		

6.5 m

7.0 m

7.58m

730

650

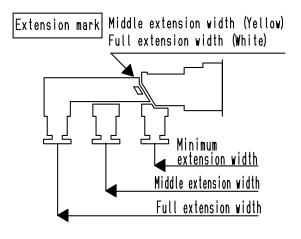
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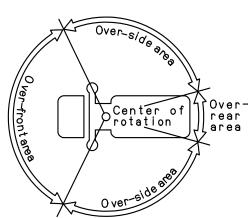
Table D

Lood	3.34 m / 5.57 m Boom		Load Radius	7.78 m Boom	Load Radius	10.0 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
2.3 m and below	3,030	1,430	2.7 m and below	2,330	4.0 m and below	1,030
2.5 m	3,030	1,200	3.2 m	2,030	5.0 m	880
3.0 m	2,480	930	3.5 m	1,830	6.0 m	750
3.5 m	2,080	680	4.0 m	1,630	7.0 m	650
4.0 m	1,780	530	4.5 m	1,480	8.0 m	580
4.5 m	1,580	480	5.0 m	1,330	9.0 m	510
5.0 m	1,380	380	5.5 m	1,230	9.8 m	480
5.37m	1,280	330	6.0 m	1,130		
			6.5 m	1,030		
			7.0 m	950		
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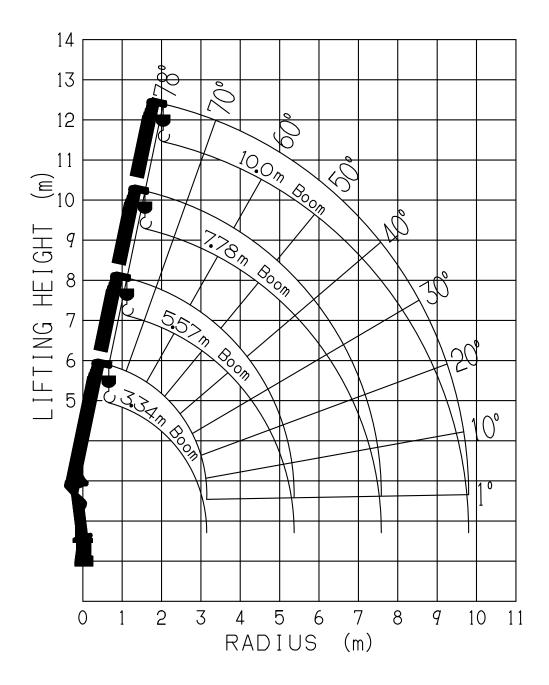
- NOTES: 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 - 2. The mass of hook block (30 kg), slings and all similarly used load handling devices must be added to the mass of load.
 - 3. For boom lengths not shown, use the rated lifting 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 5.57m, extend outriggers to full extension width.
 - 6. When the boom length is 7.78 m, a half of the \Box 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 lowered depending on the types of chassis.

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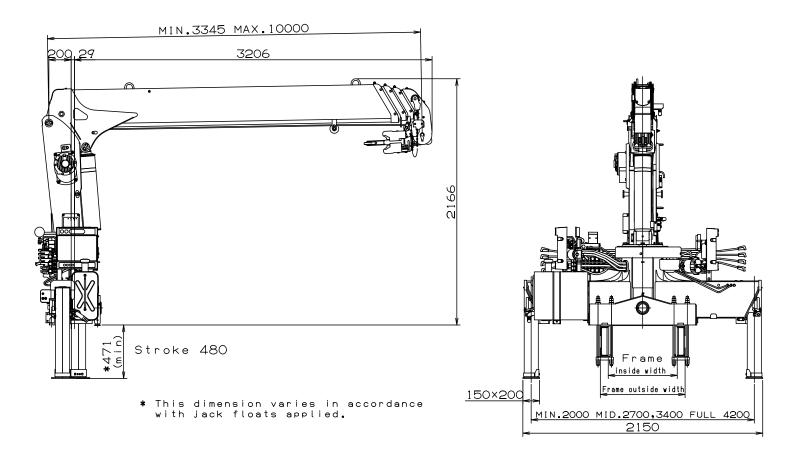


WORKING RANGE



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) 8,00	00 to 15,000 kg
P.T.O. torque190	N-m{19.4 kgf-m} min.
P.T.O. revolution App	rox. 300 to 1,900 min ⁻¹ {rpm}
Width for crane mounting App	rox. 640 mm min.
Frame Weig	ght distribution and frame strength should
be c	alculated for each truck
Frame width range (inside to outside) Appr	ox. 610 to 860 mm
Frame height (ground to frame top) Appr	ox. 1,070 mm max.
(Heigl	nt of crane mounting base can be changed
by co	ombination of jack floats and crane bases)