

TADANO CARGO CRANE

MODEL: TM-ZE364 series

MODEL	SPEC.	SPEC. No.
TM-ZE364HRS	Hook-in Radio controller Safety device (AML : Rated capacity indicator/limiter)	TM-36Z-5-03014
TM-ZE364HRS	Hook-in Radio controller Safety device (AML : Rated capacity indicator)	TM-36Z-5-03024
TM-ZE364HS	Hook-in Safety device (AML : Rated capacity indicator/limiter)	TM-36Z-5-03054

CRANE SPECIFICATIONS

CRANE CAPACITY	3,030 kg at 2.6 m (4-part lines)					
BOOM	Four-sectioned, fully powered par boom of heptagonal box constru					
	Fully retracted length	3.34 m				
	Fully extended length	10.0 m				
	Extending speed	6.66 m in 14 s				
	Elevation	Elevated by a double-acting hydraulic cylinder				
	Raising speed	1º to 78º in 7.5 s				
	Boom point	2 sheaves				
<u>WINCH</u>	Hydraulic motor driven Spur g	ear 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 63 m				
	Breaking strength	43.1 kN {4.39 tf}				
	Construction	7 x 7 + 6 x WS (26)				
	Hook block	2 sheaves				
HOOK BLOCK STOWING DEV	<u>/ICE</u>	proof boom ton notion)				

Hook-in (Mechanically stowed beneath boom top portion)

Hydraulic motor driven Worm gear speed reduction Continuous 360° full circle slewing on ball bearing slew ring Automatic slewing lock

Slewing speed ----- 2.5 min⁻¹ {rpm}

OUTRIGGERS	Manually operated beams and hydraulically operated jacks					
	Integral with crane frame	Min. 2,000 mm center to center				
		(2,150 mm outer to outer)				
		Mid. 2,900 mm center to center				
		(3,050 mm outer to outer)				
		Mid. 3,600 mm center to center				
		(3,750 mm outer to outer)				
		Max. 4,200 mm center to center				
		(4,350 mm outer to outer)				
HYDRAULIC SYSTEM	Hydraulic pump	- Single gear pump				
····	Hydraulic motors					
		Axial piston type for slewing				
	Control valves	- Multiple control valves with integral				
		safety valve				
	Oil tank capacity	•				
(*1) <u>RADIO CONTROLLER</u>	Model : RCS-F (with colored dis	splay)				
		, hoisting up and down, elevating,				
	slewing, acceleration, Hook-in,					
	outrigger operation and working	g height limit.				
	Frequency	- 40 frequencies in 433 MHz band				
	Operating power supply					
		- 6V DC, Dry battery R6P (SUM-3) x 4				
	Control unit					
		- Approx. 670 g (includes batteries)				
		11				

SAFETY DEVICES	Anti-two-block-device					
	AML (Automatic Moment Limiter)					
	Load indication					
	Load moment ratio indication					
	Warning alarm					
	Rated capacity indicator/limiter or Rated capacity indicator					
	Limit warning lamp					
	Outrigger length detector					
	Outrigger asymmetric extension width control					
	Limit warning lamp(three-color)					
	WHL (Working Height Limiter)					
	Boom angle indicator					
	Load indicator					
	Load meter					
	Over-unwinding prevention					
	Hook safety latch					
	Spirit level					
	Jack interlock					
	Boom/outrigger stowing reminder alarm					
	Emergency stop switch					
(*1) Stop switch on radio controller					
	Hydraulic safety valves, check valves and holding valves					
OPTIONAL EQUIPMENT	Emergency hydraulic pump					
	Outrigger pads					
	Oil cooler					
	Tiltable jack float					
	Rear outriggers (outrigger beam extension type)					
CRANE MASS	Approx. 1,250 kg					
	(Except crane options and munting parts.)					

- NOTE : 1. Each operating speeds show the value when there is no load conditions and the pump delivery is the following conditions.
 - 36 L/min (Slewing speed)
 - 60 L/min (BOOM : Extending speed, Raising speed WINCH : Single line speed)
 - 2. *1 mark applies only to HRS specifications.

RATED LIFTING CAPACITIES (kg)

Table A

	3.34 m / 5.5	57 m BO	OM		7.78 m BOOM		10.0 m BOOM		300M
	0.04117 0.0	EM	MPTY		7.701112	EMPTY		10.0 111	EMPTY
LOAD		CHA	SSIS	LOAD	-	CHASSIS	LOAD		CHASSIS
RADIUS	CRANE		nsion	RADIUS	CRANE	extension	RADIUS	CRANE	extension
10.0100	STRENGTH		th of	10.0100	STRENGTH	width of	10.0100	STRENGTH	width of
			ggers			outriggers			outriggers
		MAX.	MIN.			MAX.			MAX.
2.4 m				2.7 m			4.0 m		
and	3,030	3,030	1,380	and	2,330	2,330	and	1,330	1,330
below				below			below		
2.6 m	3,030	3,030	1,180	3.2 m	2,030	2,030	5.0 m	1,100	1,050
3.0 m	2,480	2,480	930	3.5 m	1,830	1,830	6.0 m	930	800
3.5 m	2,080	2,050	680	4.0 m	1,630	1,580	7.0 m	800	600
4.0 m	1,780	1,580	530	4.5 m	1,480	1,250	8.0 m	700	500
4.5 m	1,580	1,250	450	5.0 m	1,330	1,050	9.0 m	630	400
5.0 m	1,380	1,050	380	5.5 m	1,230	900	9.8 m	580	350
5.37 m	1,280	900	330	6.0 m	1,130	800			
				6.5 m	1,030	700			
				7.0 m	950	600			
				7.58 m	880	530			

Table C

	3.34 m / 5.5	57 m BC	ОМ	7.78 m BOOM			10.0 m BOOM		
	0.04117 0.0		PTY		7.70111	EMPTY		10.0111	EMPTY
			SSIS			CHASSIS			CHASSIS
LOAD	CRANE		nsion	LOAD	CRANE	extension	LOAD	CRANE	extension
RADIUS	STRENGTH		th of	RADIUS	STRENGTH	width of	RADIUS	STRENGTH	width of
	01112110111		ggers		01112110111	outriggers		01112110111	outriggers
		MAX.	MIN.			MAX.			MAX.
2.4 m				2.7 m			4.0 m		
and	3,030	3,030	1,630	and	2,330	2,330	and	1,330	1,330
below				below			below		
2.6 m	3,030	3,030	1,400	3.2 m	2,030	2,030	5.0 m	1,100	1,100
3.0 m	2,480	2,480	1,080	3.5 m	1,830	1,830	6.0 m	930	930
3.5 m	2,080	2,080	830	4.0 m	1,630	1,630	7.0 m	800	800
4.0 m	1,780	1,780	650	4.5 m	1,480	1,450	8.0 m	700	650
4.5 m	1,580	1,580	530	5.0 m	1,330	1,300	9.0 m	630	550
5.0 m	1,380	1,350	430	5.5 m	1,230	1,180	9.8 m	580	480
5.37 m	1,280	1,200	380	6.0 m	1,130	1,030			
				6.5 m	1,030	900			
				7.0 m	950	800			
				7.58 m	880	700			

Table D

	3.34 m / 5.8	57 m BOOM		7.78 m BOOM		10.0 m BO		BOOM	
LOAD		EM	PTY			EMPTY	LOAD		EMPTY
		CHA	SSIS	LOAD		CHASSIS			CHASSIS
RADIUS	CRANE		nsion	RADIUS	CRANE	extension	RADIUS	CRANE	extension
10.0100	STRENGTH		th of	TV (BIOC	STRENGTH	width of	I V (DIOO	STRENGTH	width of
			ggers			outriggers			outriggers
		MAX.	MIN.			MAX.			MAX.
2.4 m				2.7 m			4.0 m		
and	3,030	3,030	1,630	and	2,330	2,330	and	1,330	1,330
below				below			below		
2.6 m	3,030	3,030	1,400	3.2 m	2,030	2,030	5.0 m	1,100	1,100
3.0 m	2,480	2,480	1,080	3.5 m	1,830	1,830	6.0 m	930	930
3.5 m	2,080	2,080	830	4.0 m	1,630	1,630	7.0 m	800	800
4.0 m	1,780	1,780	650	4.5 m	1,480	1,480	8.0 m	700	700
4.5 m	1,580	1,580	530	5.0 m	1,330	1,330	9.0 m	630	630
5.0 m	1,380	1,380	430	5.5 m	1,230	1,230	9.8 m	580	580
5.37 m	1,280	1,280	380	6.0 m	1,130	1,130			
				6.5 m	1,030	1,030			
				7.0 m	950	950			
				7.58 m	880	880			

- NOTE : 1. Rated capacity indicator issues warning with the limit warning lamp and the buzzer when the working state approaches the stability limit or the strength limit.
 - 2. When the AML is equipped with the rated capacity limiter, an operation stops automatically if the rated lifting capacity is exceeded.
 - 3. When the crane is front mounted, set up the front outriggers so that the front wheels are slightly in contact with the ground.(If tire deformation is large, AML may activate earlier.)
 - 4. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 - 5. This value includes the mass of lifting devices such as hook block (30kg).
 - 6. When the outriggers are extended to the middle width, read the capacities rated for the minimum extension width.
 - 7. This load radius shows actual load radius which includes boom deflection.
 - 8. Rated lifting capacity is in consideration of the loading on the truck bed, and is within the range from the empty chassis rated lifting capacity to the crane strength rated lifting capacity.
 - 9. If the boom length exceeds the table value even a little, the performance is limited to the performance of the next boom length.
 - 10. When the boom length is 7.78 m, a half of the *□* mark on lateral face of the 3rd boom section is exposed out of 2nd boom section.
 - 11. Empty chassis rated lifting capacity varies according to the working area.
 - Front mounting <over-side, over-rear area> : 100%
 - <over-front area> : 25% (*1) or 60% (*1) or 100% (*1)
 - Rear mounting <over-front, over-rear area> : 100%
 - <over-side area> : 30%
 - *1 : Depend on the types of chassis.
 - 12. Empty Chassis Rated Capacities table A,C and D depend on the types of chassis.

(The following table shows guidelines for bodywork vehicles that can achieve the rated lifting capacity tables A and C for vehicles. Be sure to carry out a stability inspection to determine which performance to apply.)

	8.0 t ≤ GVW < 17.0 t	
С	11.0 t ≤ GVW <17.0t,	4200 mm ≤ WB (*2)

*2 : From the front axle to the farthest rear axle.





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 weight	8,000 to 17,000 kg
P.T.O. torque	190 N·m {19.4 kgf·m} min.
P.T.O. revolution range of use (min. to max.)	Approx. 350 to 1,300 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 chassis frame top) (* 1)	Approx. 615 to 810 mm
Chassis frame section modulus (*2)	238 cm ³ min.

*1 Height of crane mounting surface is changed by crane bases.

- *2 The chassis frame material must meet the following conditions at the crane mounting location. —Yield point : 392 N/mm²
 - -Tensile strength : 540 N/mm²