



TM-ZE550HRS

ZE550 TADANO

1114

For Large Size Vehicles

IDEAL Cargo Crane, TADANO ZE

The ZE features all the Tadano Cargo Crane technologies that are recognized the world over. The key development concepts remain: EXCELLENT QUALITY, EASY OPERATION AND EASY MAINTENANCE. The TM-ZE550HRS with the maximum lifting capacity of 5.05 tons has a choice of 3 different boom lengths to meet your lifting requirements.



Radio Remote Controlling with Color LCD Display **Handheld Unit**



High-powered Radio Controller



Radio Controller with powerful transmitting output automaticall selects a frequency free of amming, out of as many frequencies as 40 channels, to void interference troubles



Responding to Operator's Command

Equipped with an optimally matched, high-performance control valve, the



operating levers provide nproved responsiveness and ne-tuned control. Operation is fast or slow in accordance with operator's command. The rods between left and right operation levers are provided in stainless steel as standard.

Centralized Control Panels

Installed on both sides of the crane frame are the centralized control panels. where operating switches and the lifting charts needed for crane operation are grouped together and arranged on single panels.



Hook-in

The "Hook-in" system further enhances work efficiency. When the "Hook-in" switch and slewing switch are operated, the crane boom and jacks are stowed automatically

TADANO



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Boom Height Limit Function

The WHL (Working Height Limiter) is designed to stop boom elevation or telescoping when the boom tip reaches the registered height (as pre-programmed by the operator). This function secures safety particularly when you are working



under a roof or in a tunnel or in any height-restricted conditions.

Heptagonal Boom

Tadano's unique heptagonal boom is made of high-tensile steel. The boom is of a structure of one piece steel plate for lower boom weight and powerful lifting capacity. Special valves enable smooth boom extension and retraction for smoother operation to reduce a shock when telescoping the boom. The cables and sheaves are all internal - for a clean, clutter-free appearance.







Photo: TM-ZE553HBS

AML (Automatic Moment Limiter)

The AML that monitors crane work safety is equipped as standard and it provides a "strength monitoring" function, which prevents crane overloading, and a "stability monitoring" function, which prevents the crane from falling over.

Cationic Electro-Deposition Coating

The undercoating of the crane is done by Cationic electro-deposition coating. This process involves

soaking of each material, even the narrowest inner booms and frames, and they are thoroughly undercoated



Stronger Winch

The advantages of the enlarged winch drum and plunger motor are evident during start-up when maximum power is required. Re-hoisting with a load on the hook can also

be handled with ease. The winch reduction gear comes equipped with a failsafe automatic brake. From the pitch of the drum grooves to the fitting of the guide sheave, cable winding has been improved in every detail so as to prevent the cable from winding off position.



Jack Interlock

Disables crane operation when the left or right jack is not in contact with the ground.

Full Circle, Continuous Slewing

The newly designed compact slewing post improves performance providing Full circle, continuous rotation for more efficient operations.

Automatic slewing lock: The boom is mechanically locked at the slewing post base which prevents boom rotation during vehicle travel.



Three-point Support System (Equalizer Crane Support)

The equalizer crane support system protects the chassis frame by evenly distributing the load applied to the frame during vehicle traveling to prevent excessive stress from concentrating at any one point.



TM-ZE550HRS Series



Outrigger Mechanism for Quicker Work

The outrigger beams can be easily operated, using a grip to lock or release and extend or retract. To further ensure safety, the lock

system prevents the outrigger beams from extending during traveling. A level gauge is provided as

standard equipment.





Notes for Working Range:

The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection under laden conditions



Technical Specifications

MODEL	TM-ZE553HRS	TM-ZE554HRS	TM-ZE555HRS	
CRANE CAPACITY	5,050 kg at 2.5 m (5 parts of lines)			
BOOM	Fully hydraulic telescoping boom	Fully powered partly synchronized telescoping boom		
	of heptagonal box construction	ptagonal box construction of heptagonal box construction		
Sections	3	4	5	
Length	3.47 m-8.31 m	3.55 m-10.8 m	3.77 m–13.34 m	
Extending Speed	4.84 m / 18 s	7.25 m / 21 s	9.57 m / 25 s	
Elevation Range/Speed	1° to 78° /12 s			
Max. Hook Height*	Approx. 10.3 m*	Approx. 12.7 m*	Approx. 15.2 m*	
Max. Load Radius*	8.09 m*	10.58 m*	13.12 m*	
WINCH	Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake.			
Max. Single Line Pull	9.90 kN {1,010 kgf}			
Max. Single Line Speed	66 m/min. (at 4th layer)			
Wire rope (Diameter x length)	8 mm x 67 m	8 mm x 82 m	8 mm x 97 m	
SLEWING	Hydraulic motor driven. Worm gear speed reduction.			
	Continuous 360° full circle slewing on ball bearing slew ring. Automatic slewing lock.			
Speed	2.5 min ⁻¹ {rpm}			
OUTRIGGERS	Manually extended sliders and hydraulically extended jacks			
	Integral with crane frame.			
Extended Width	Max.: 3.8 m, Mid.: 3.0 m, Min.: 2.2 m			
HYDRAULIC SYSTEM				
Control Valves	Multiple control valves with integral safety valve			
STANDARD SAFETY EQUIPMENT	•AML (Automatic Moment Limiter) <load indication,="" indication,<="" load="" moment="" rated="" ratio="" td="" to=""></load>			
	Warning alarm, Over load limiter> •WHL (Working Height Limiter) •Load indicator			
	•Emergency stop switch on radio controller •Terminal for emergency stop switch •Over-winding alarm			
	Over-unwinding prevention •Anti-two-block device •Jack interlock •Hook safety latch			
	Hydraulic safety valves, check valves and holding valves Level gauge			
OPTIONAL EQUIPMENT	•Limit warning lamp (three-color) •Boom outrigger stowed warning •Radius indicator			
	 Tiltable jack float Emergency stop switch Rear outrigger extension width detection 			
SUITABLE TRUCKS	Gross vehicle mass 15,000 to 25,000 kg			

Rated Lifting Capacities (With empty chassis)

Table A	Table D			
TM-ZE553HRS	TM-ZE553HRS			
• 3.47-m boom	• 3.47-m boom			
Load radius (m) 2.5 ^{and} below 2.8 3.25	Load radius (m) 2.5 and 2.95 3.25			
Rated lifting capacity (kg) 5,050 4,050 3,280	Rated lifting capacity (kg) 5,050 4,050 3,700			
• 5.91-m boom	• 5.91-m boom			
Load radius (m) 2.6 below 2.8 3.3 3.6 4.1 4.5 5.0 5.5 5.69	Load radius (m) 2.6 and 2.95 3.8 4.1 4.5 5.0 5.5 5.69			
Rated lifting capacity (kg) 4,050 4,050 3,280 2,930 2,430 2,030 1,730 1,430 1,380	Rated lifting capacity (kg) 4,050 4,050 3,130 2,930 2,630 2,380 2,180 2,080			
• 8.31-m boom	• 8.31-m boom			
Load radius (m) 2.6 and 3.4 3.8 4.1 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.09	Load radius (m) 2.6 ^{and} below 3.0 3.8 4.1 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.09			
Rated lifting capacity (kg) 3,130 3,130 2,680 2,430 2,030 1,730 1,430 1,330 1,180 1,030 930 830	Rated lifting capacity (kg) 3,130 3,130 3,130 2,930 2,630 2,380 2,180 1,980 1,830 1,680 1,530 1,430			
IM-ZE554HRS	IM-ZE554HRS			
• 3.55-m boom	• 3.55-m boom			
Load radius (m) 2.5 Below 2.8 3.33	Load radius (m) 2.5 below 2.9 3.33			
Rated lifting capacity (kg) 5,050 4,050 3,250	Rated lifting capacity (kg) 5,050 4,050 3,550			
• 5.99-m boom	• 5.99-m boom			
Load radius (m) 2.6 ^{din} _{below} 2.8 3.6 4.0 4.5 5.0 5.77	Load radius (m) 2.5 below 2.9 3.7 4.0 4.5 5.0 5.77			
Rated lifting capacity (kg) 4,050 4,050 2,930 2,430 1,980 1,680 1,330	Rated lifting capacity (kg) 4,050 3,130 2,930 2,580 2,330 2,030			
• 8.39-m boom	• 8.39-m boom			
Load radius (m) 2.6 below 3.0 3.6 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.17	Load radius (m) 2.5 below 3.0 3.7 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.17			
Rated lifting capacity (kg) 3,130 3,130 2,930 2,430 1,980 1,680 1,430 1,180 1,130 1,000 900 780	Rated lifting capacity (kg) 3,130 3,130 3,130 2,930 2,580 2,330 2,080 1,930 1,780 1,630 1,480 1,380			
• 10.8-m boom	• 10.8-m boom			
Load radius (m) 3.5 ^{and} below 4.0 4.5 5.0 6.0 7.0 8.0 9.0 10.0 10.58	Load radius (m) 3.5 ^{and} _{below} 4.5 5.0 6.0 7.0 8.0 9.0 10.0 10.58			
Rated lifting capacity (kg) 2,130 2,130 1,980 1,630 1,180 1,000 800 680 580 550	Rated lifting capacity (kg) 2,130 2,130 2,030 1,780 1,530 1,380 1,200 1,050 1,000			
TM-ZE555HRS TM-ZE555HRS				
• 3.77-m boom	• 3.77-m boom			
Load radius (m) 2.5 ^{and} 2.8 3.55	Load radius (m) 2.5 and 2.8 3.55			
Rated lifting capacity (kg) 5,050 4,050 2,950	Rated lifting capacity (kg) 5,050 4,050 3,150			
• 6.21-m boom	• 6.21-m boom			
Load radius (m) 2.6 ^{and} _{below} 2.8 3.6 3.9 4.5 5.0 5.5 5.99	Load radius (m) 2.5 and 2.8 3.6 3.9 4.5 5.0 5.5 5.99			
Rated lifting capacity (kg) 4,050 2,930 2,530 1,930 1,630 1,380 1,130	Rated lifting capacity (kg) 4,050 4,050 3,130 2,930 2,530 2,230 1,980 1,780			
• 8.59-m boom	• 8.59-m boom			
Load radius (m) 2.6 ^{and} _{below} 3.4 3.6 3.9 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.37	Load radius (m) 2.5 below 3.0 3.6 3.9 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.37			
Rated lifting capacity (kg) 3,130 3,130 2,930 2,530 1,930 1,630 1,380 1,130 1,050 930 830 650	Rated lifting capacity (kg) 3,130 3,130 3,130 2,930 2,530 2,230 1,980 1,780 1,630 1,480 1,380 1,180			
• 10.97-m boom • 10.97-m boom				
Load radius (m) 4.0 ^{and} 4.5 5.0 6.0 7.0 8.0 9.0 10.0 10.75	Load radius (m) 4.0 ^{and} 4.5 5.0 6.0 7.0 8.0 9.0 10.0 10.75			
Rated lifting capacity (kg) 2,230 1,930 1,580 1,130 900 700 550 500 450	Rated lifting capacity (kg) 2,230 2,180 2,030 1,730 1,430 1,230 1,080 980 900			
• 13.34-m boom • 13.34-m boom				
Load radius (m) 5.0 and below 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.12	Load radius (m) 5.0 and 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.12			
Rated lifting capacity (kg) 1,430 1,130 900 700 550 500 430 400 350	Rated lifting capacity (kg) 1,430 1,330 1,230 1,080 980 880 800 730 650			

Notes for Technical Specifications:

Operating speeds of the crane are guaranteed under the condition that the pump delivery is 60 L/min. * Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook

Notes for Rated Lifting Capacities

The mass of hook (45 kg), slings and all other lifting devices must be added to the mass of the load.



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NOTE: Some specifications are subject to change.