

TM-ZE360/300HRS

For Medium Size Vehicles



CARGO CRANE



Note: Some specifications may be subject to change.



TADANO QUALITY: advanced safety and power in a single package

The TM-ZE360/300HRS is a more powerful crane that comes with the sophisticated, high-quality Safety Eyes system as standard equipment. It delivers greater safety and peace of mind.

TM-ZE360/300HRS



Safety Eyes See p. 3-4

Radio Controller with Color LCD* Display

*Liquid Crystal Display

A radio controller for remotely operating the crane is provided as standard. In addition to displaying the actual load, rated load, and moment load ratio, it also features a large-screen and power-saving color LCD display, has a feature that can customize speed adjustment for various operations, and has an emergency stop function. The "load weight" function makes it possible to check the work progress and the load weight on the vehicle, and also prevents overloading. These features contribute not only to the safety of crane work, but also to the safety of the vehicle when it is traveling.



**WATER-
PROOFNESS**
[IP66K**]

**The IP rating indicates waterproofness and dust protection as defined in IEC 60529. An IP66K rating indicates an exceptional level of waterproofness and dust protection ensuring peace of mind.

Emergency stop

AML (Automatic Moment Limiter)

An AML that monitors crane work safety is equipped as standard. It includes a strength monitoring function which prevents crane overloading, and a stability monitoring function which prevents the crane from falling over.

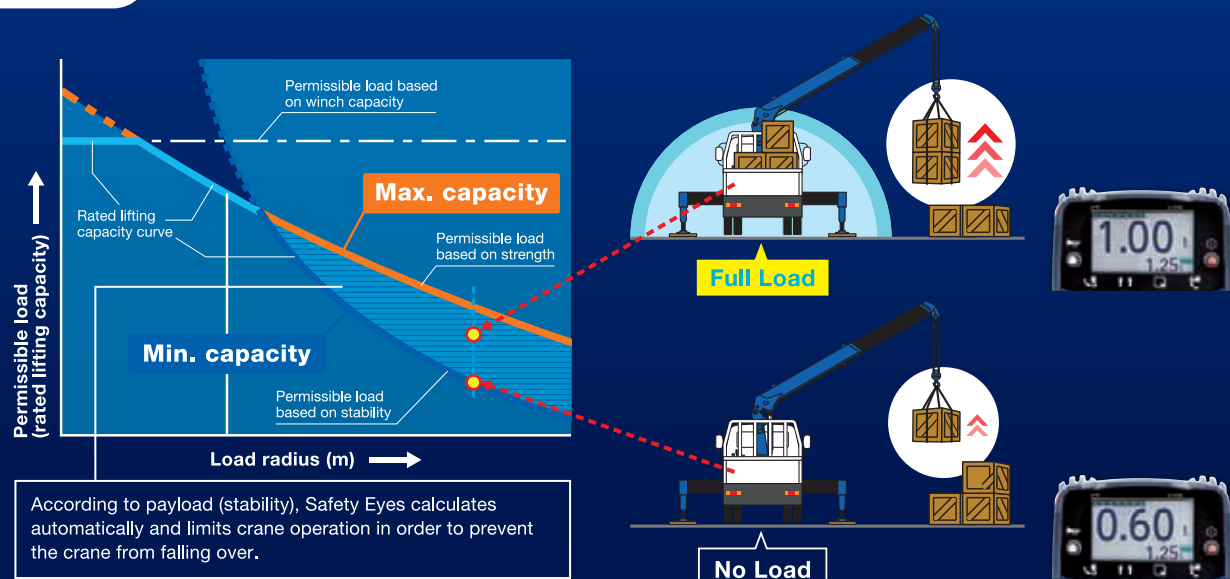
Manually entering the number of parts of line in use allows for fine-tuned controls. As the crane approaches rated performance, warning alarms and lamps are triggered. As an extra level of safety, operation is automatically stopped or warning alarms are triggered once critical parameters are reached.



Safety Eyes

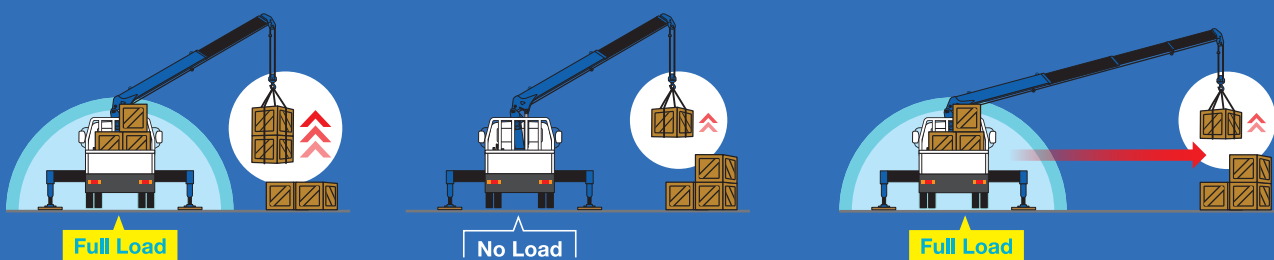


The Safety Eyes system consist of an Automatic Moment Limiter, a boom jack interlock system, a working height limiter, and other functions for monitoring operation. This system makes safe work possible.



Carry Heavier Loads When Close

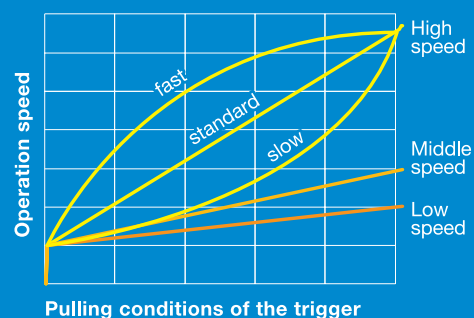
Carry Loads Farther When Light



Calculations are automatic and are based on loaded cargo (stability), allowing you to carry heavier loads farther when fully loaded.

Feeling Operation

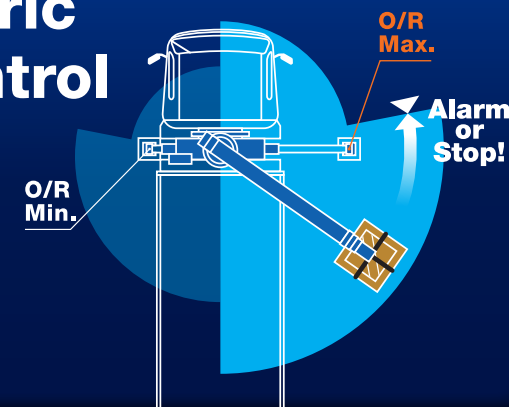
The operation speed of the machine when the trigger is pulled can be increased or decreased from the standard speed.



Outriggers Asymmetric Extension Width Control

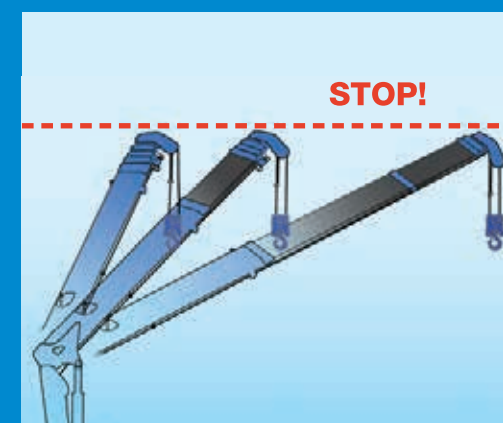
Optimum Lifting Performance at Any Outrigger Width

Constantly monitors the slewing angle and difference in outrigger extension widths. Crane motion is controlled according to the extension width of each outrigger.



Working Height Limit Function

This function presets the upper limit of the boom height (stop position). This is highly effective in work sites where attention is required to the boom height, such as under power lines and indoors.



Jack Interlock

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



Centralized Control Panel Equipped with Safety Lamp

The lifting chart and switches for crane operation are grouped on both sides of the control panel, and warning lights are installed at the top of the panel.

Limit Warning Lamps

The warning lights on the control panel, moment indicator in the radio controller, three-color limit warning lamp on the crane post, and warning alarm function interlinked with one another.

Limit warning lamp

Outrigger extension state

Indicator lamp displays the outrigger extension width.

Mode indicator

Displays the actual load, height limit value, error code, etc.



Hook-in/out System

TADANO's hook-in system is equipped as standard and enhances work efficiency. During hook-out, the boom raises automatically to avoid hitting cargo.



Anti-two-block Function

This function stops crane operation (hoisting up, boom elevation, and boom extension) when the hook block touches the weight, and warns the operator with an alarm, to prevent the hook block from hitting the boom head.

Powerful Heptagonal Boom

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



Emergency Stop

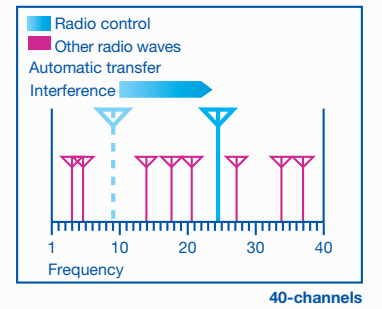
Use this switch to stop machine movement if the machine cannot be controlled during crane operation, or in an emergency. (Outrigger operation does not stop.)



On radio controller

High-powered Radio Controller

Radio Controller with powerful transmitting output automatically selects a frequency free of interference out of as many as 40 channels to avoid trouble caused by interference.



Automatic Slewing Lock System

This system prevents accidental boom slewing when no slewing operation takes place.

Cable Follower

The cable follower prevents disorderly cable (wire rope) winding by always pressing the cable onto the winch drum, and keeps the wire rope in the right position.

TM-ZE360/300HRS

Cargo Crane for Medium Size Vehicles

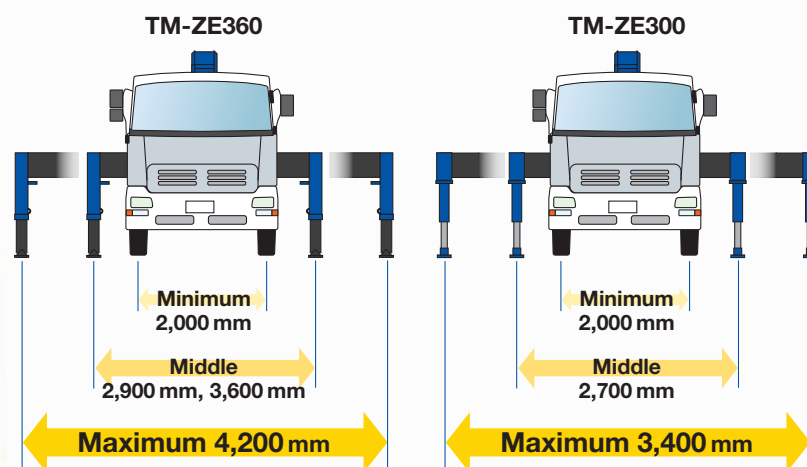
Broader Outrigger Width

The employment of a parabox-type outriggers enables the outriggers to secure a four-stage extension width up to a maximum of 4.2 m for TM-ZE360HRS and a monobox-type outriggers enable the outriggers to secure a three-stage extension width up to a maximum of 3.4 m for TM-ZE300HRS, substantially enhancing crane performance.



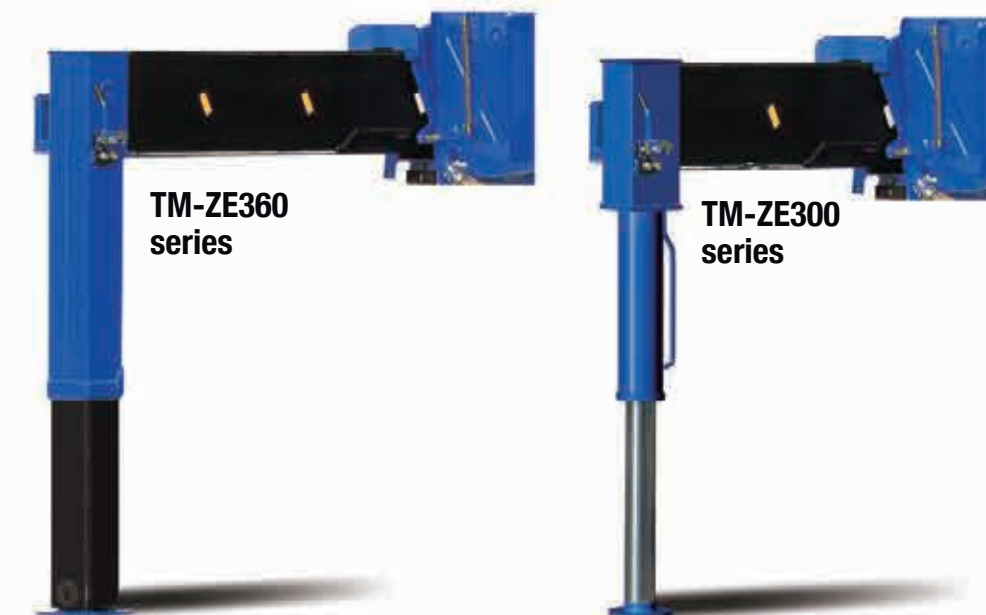
Lock System

Spirit Level



Outrigger Mechanism for Quicker Work

The outrigger sliders can be easily operated, using a grip to lock or release and extend or retract them. To further ensure safety, A lock system also prevents the outriggers from extending during driving vehicle travel.



TM-ZE360 series

TM-ZE300 series

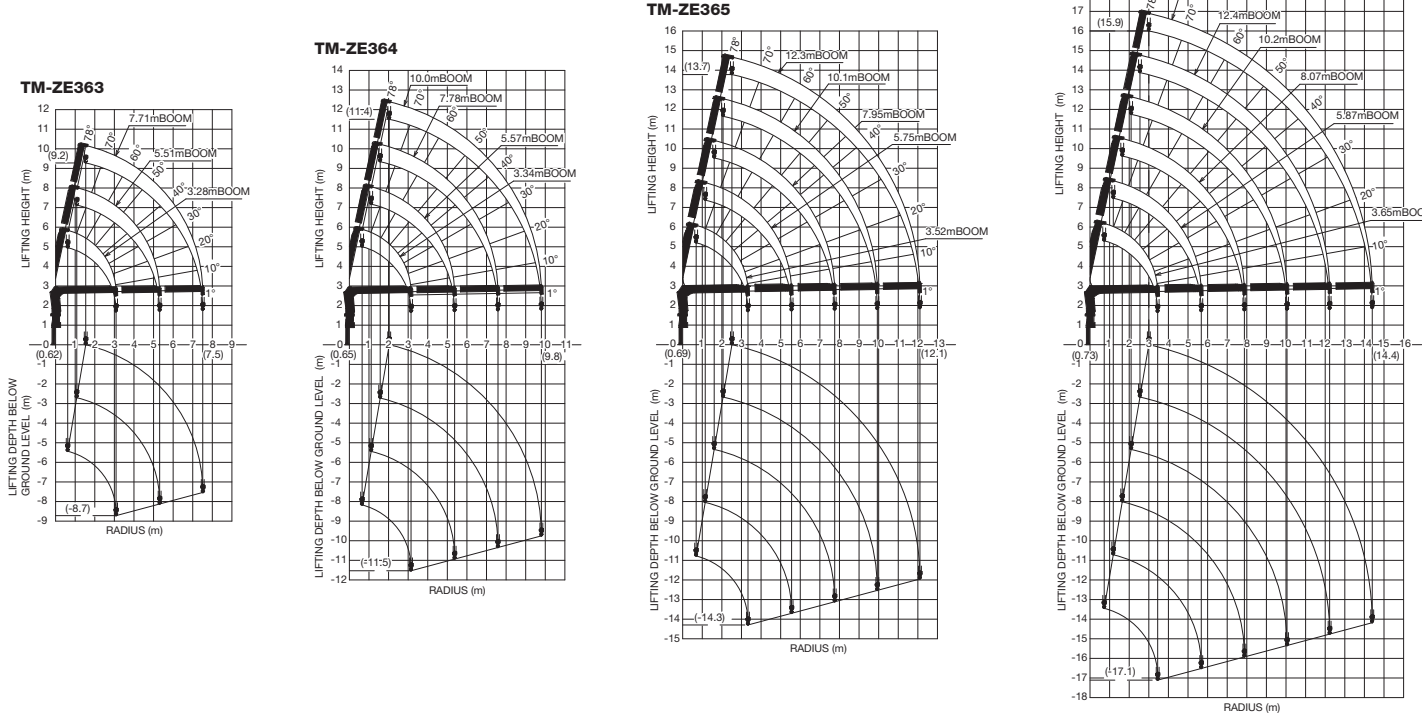
TM-ZE360HRS series

Technical Specifications

Model	TM-ZE363HRS	TM-ZE364HRS	TM-ZE365HRS	TM-ZE366HRS
CRANE CAPACITY	3,030 kg at 2.7 m (4-part lines)	3,030 kg at 2.6 m (4-part lines)	3,030 kg at 2.4 m (4-part lines)	3,030 kg at 2.4 m (4-part lines)
BOOM	Three-sectioned, fully hydraulic telescoping boom of heptagonal box construction	Four-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction	Five-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction	Six-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction
Retracted length	3.28 m	3.34 m	3.52 m	3.65 m
Extended length	7.71 m	10.0 m	12.3 m	14.6 m
Extending speed	4.43 m in 12 s	6.66 m in 14 s	8.78 m in 18 s	10.95 m in 19 s
Elevation	Elevated by a double-acting hydraulic cylinder			
Raising speed	1° to 78° in 7.5 s			
Boom point	2 sheaves			
WINCH	Hydraulic motor driven. Spur gear 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 51 m	8 mm x 63 m	8 mm x 74 m	8 mm x 85 m
Wire rope (Breaking strength)	43.1 kN (4.39 tf)			
Wire rope (Construction)	7 x 7 + 6 x WS (26)			
Hook block	2 sheaves			
HOOK STOWING DEVICE	Hook-in (Mechanically stowed beneath boom top portion)			
SLEWING	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.			
Extension width	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	Single gear pump			
Hydraulic pump	Axial piston type for winch. Axial piston type for slewing.			
Hydraulic motors	Multiple control valves with integral safety valve			
Control valves	Approx. 41.1 L			
Oil tank capacity	Model : RCS-F (with colored display), Control functions of telescoping, hoisting up and down, elevating, slewing, acceleration, Hook-in, Hook-out, horn, stop operation, outrigger operation and working height limit.			
RADIO CONTROLLER	40 frequencies in 433 MHz band			
Operating power supply	6V DC, Dry battery R6P (SUM-3) x 4			
Control unit	24V DC, Vehicle battery			
Transmitter mass	Approx. 670 g (includes batteries)			
SAFETY DEVICES	<ul style="list-style-type: none"> •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> •WHL (Working Height Limiter) •Boom angle indicator •Load indicator •Load meter •Over-unwinding prevention •Hook safety latch •Spiral level •Jack interlock •Stop switch on radio controller •Hydraulic safety valves, check valves and holding valves •Limit warning lamp (three-color) •Emergency stop switch •Boom outrigger stowed warning 			
OPTIONAL EQUIPMENT	<ul style="list-style-type: none"> •Emergency hydraulic pump •Outrigger pads •Oil cooler •Tiltable jack float •Rear outriggers (outrigger beam extension type)** 			
CRANE MASS	Approx. 1,160 kg (Except crane options and mounting parts.)	Approx. 1,250 kg (Except crane options and mounting parts.)	Approx. 1,370 kg (Except crane options and mounting parts.)	Approx. 1,440 kg (Except crane options and mounting parts.)

**TM-ZX366HRS only
 Note: 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)

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.

Rated Lifting Capacities

Table A	Table C	Table D
TM-ZE363HRS • 3.28 m / 5.51 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.7 3.0 3.5 4.0 4.5 5.0 5.3 CRANE STRENGTH 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 EMPTY CHASSIS Extension width of outriggers MAX 3,030 3,030 2,580 2,080 1,600 1,330 1,100 1,000 MIN. 1,380 1,130 930 730 580 480 430 380	TM-ZE363HRS • 3.28 m / 5.51 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.7 3.0 3.5 4.0 4.5 5.0 5.3 CRANE STRENGTH 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 EMPTY CHASSIS Extension width of outriggers MAX 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,350 MIN. 1,630 1,330 1,100 880 700 580 480 430	TM-ZE363HRS • 3.28 m / 5.51 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.7 3.0 3.5 4.0 4.5 5.0 5.3 CRANE STRENGTH 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 EMPTY CHASSIS Extension width of outriggers MAX 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 MIN. 1,630 1,330 1,100 880 700 580 480 430
• 7.71 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 CRANE STRENGTH 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 EMPTY CHASSIS Extension width of outriggers MAX 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 900 MIN. 1,380 1,180 930 680 530 450 380 330	• 7.71 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 CRANE STRENGTH 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 EMPTY CHASSIS Extension width of outriggers MAX 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,150 1,000 900 800	• 7.71 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 CRANE STRENGTH 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 EMPTY CHASSIS Extension width of outriggers MAX 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930
TM-ZE364HRS • 3.34 m / 5.57 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.6 3.0 3.5 4.0 4.5 5.0 5.37 CRANE STRENGTH 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 EMPTY CHASSIS Extension width of outriggers MAX 3,030 3,030 2,480 2,050 1,580 1,250 1,050 900 MIN. 1,380 1,180 930 680 530 450 380 330	TM-ZE364HRS • 3.34 m / 5.57 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.6 3.0 3.5 4.0 4.5 5.0 5.37 CRANE STRENGTH 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 EMPTY CHASSIS Extension width of outriggers MAX 3,030 3,030 2,480 2,080 1,780 1,580 1,350 1,200 MIN. 1,630 1,400 1,080 830 650 530 430 380	TM-ZE364HRS • 3.34 m / 5.57 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.6 3.0 3.5 4.0 4.5 5.0 5.37 CRANE STRENGTH 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 EMPTY CHASSIS Extension width of outriggers MAX 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 MIN. 1,630 1,400 1,080 830 650 530 430 380
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• 10.0 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 1,330 1,100 930 800 700 630 580 EMPTY CHASSIS Extension width of outriggers MAX 1,330 1,050 800 600 500 400 350	• 10.0 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 1,330 1,100 930 800 700 630 580 EMPTY CHASSIS Extension width of outriggers MAX 1,330 1,100 930 800 650 550 480	• 10.0 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 1,330 1,100 930 800 700 630 580 EMPTY CHASSIS Extension width of outriggers MAX 1,330 1,100 930 800 700 630 580
TM-ZE365HRS • 3.52 m / 5.75 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.55 CRANE STRENGTH 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 EMPTY CHASSIS Extension width of outriggers MAX 3,030 2,780 2,330 1,980 1,600 1,280 1,050 850 MIN. 1,330 1,230 880 680 530 430 330 280	TM-ZE365HRS • 3.52 m / 5.75 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.55 CRANE STRENGTH 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 EMPTY CHASSIS Extension width of outriggers MAX 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 MIN. 1,580 1,480 1,080 830 650 530 430 350	TM-ZE365HRS • 3.52 m / 5.75 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.55 CRANE STRENGTH 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 EMPTY CHASSIS Extension width of outriggers MAX 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 MIN. 1,580 1,480 1,080 830 650 530 430 350
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TM-ZE366HRS • 3.65 m / 5.87 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.67 CRANE STRENGTH 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 EMPTY CHASSIS Extension width of outriggers MAX 3,030 2,780 2,330 1,980 1,650 1,330 1,100 900 MIN. 1,330 1,230 880 680 530 430 330 250	TM-ZE366HRS • 3.65 m / 5.87 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.67 CRANE STRENGTH 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 EMPTY CHASSIS Extension width of outriggers MAX 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 MIN. 1,580 1,480 1,050 780 600 480 380 280	TM-ZE366HRS • 3.65 m / 5.87 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.67 CRANE STRENGTH 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 EMPTY CHASSIS Extension width of outriggers MAX 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 MIN. 1,580 1,480 1,050 780 600 480 380 280
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• 10.25 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.05 CRANE STRENGTH 1,130 1,050 880 750 650 600 500 EMPTY CHASSIS Extension width of outriggers MAX 1,130 1,050 880 750 600 500 430	• 10.25 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.05 CRANE STRENGTH 1,130 1,050 880 750 650 600 500 EMPTY CHASSIS Extension width of outriggers MAX 1,130 1,050 880 750 600 500 430	• 10.25 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.05 CRANE STRENGTH 1,130 1,050 880 750 650 600 500 EMPTY CHASSIS Extension width of outriggers MAX 1,130 1,050 880 750 650 600 500
• 12.4 m Boom LOAD RADIUS (m) 5.0 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.2 CRANE STRENGTH 880 730 630 530 480 400 380 330 EMPTY CHASSIS Extension width of outriggers MAX 880 730 630 530 450 400 350 300	• 12.4 m Boom LOAD RADIUS (m) 5.0 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.2 CRANE STRENGTH 880 730 630 530 480 400 380 330 EMPTY CHASSIS Extension width of outriggers MAX 880 730 630 530 450 400 350 300	• 12.4 m Boom LOAD RADIUS (m) 5.0 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.2 CRANE STRENGTH 880 730 630 530 480 400 380 330 EMPTY CHASSIS Extension width of outriggers MAX 880 730 630 530 480 400 380 330
• 14.6 m Boom LOAD RADIUS (m) 4.9 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.4 CRANE STRENGTH 430 380 330 300 280 260 240 220 200 180 EMPTY CHASSIS Extension width of outriggers MAX 430 380 330 300 280 260 240 220 200 180	• 14.6 m Boom LOAD RADIUS (m) 4.9 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.4 CRANE STRENGTH 430 380 330 300 280 260 240 220 200 180 EMPTY CHASSIS Extension width of outriggers MAX 430 380 330 300 280 260 240 220 200 180	• 14.6 m Boom LOAD RADIUS (m) 4.9 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.4 CRANE STRENGTH 430 380 330 300 280 260 240 220 200 180 EMPTY CHASSIS Extension width of outriggers MAX 430 380 330 300 280 260 240 220 200 180

Notes:

- Rated capacity indicator issues warning with the limit warning lamp and the buzzer when the working state approaches limit or the strength limit.
- When the AML is equipped with the rated capacity limiter, an operation stops automatically if the rated lifting capacity is exceeded.
- When the crane is front mounted, set up the front and rear outriggers so that the front and rear wheels are slightly in contact with the ground. (If tire deformation is large, AML may activate earlier.)
- Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
- This value includes the mass of lifting devices such as hook block (30kg).
- When the front outriggers are extended to the middle width, read the capacities rated for the minimum extension width.
- This load radius shows actual load radius which includes boom deflection.
- 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.
- If the boom length exceeds the table value even a little, the performance is limited to the performance of the next boom length.
- Empty chassis rated lifting capacity varies according to the working area.
 - Front mounting <over-side, over-rear area>: 100% <over-front area>; 25% (*) or 60% (*) or 100% (*)
 - Rear mounting <over-front, over-rear area>: 100% <over-side area>; 30%
- *1: Depend on the types of chassis.
- 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 table A and C for vehicles. Be sure to carry out a stability inspection to determine which performance to apply.)

A	8.0 t ≤ GW < 17.0 t
C	11.0 t ≤ GW < 17.0 t, 4,200 mm ≤ WB (*2)

TM-ZE366HRS only

A	8.0 t ≤ GW < 17.0 t (Must be set up the rear outrigger.)
C	11.0 t ≤ GW < 17.0 t, 4,200 mm ≤ WB (*2) (Must be set up the rear outrigger.)

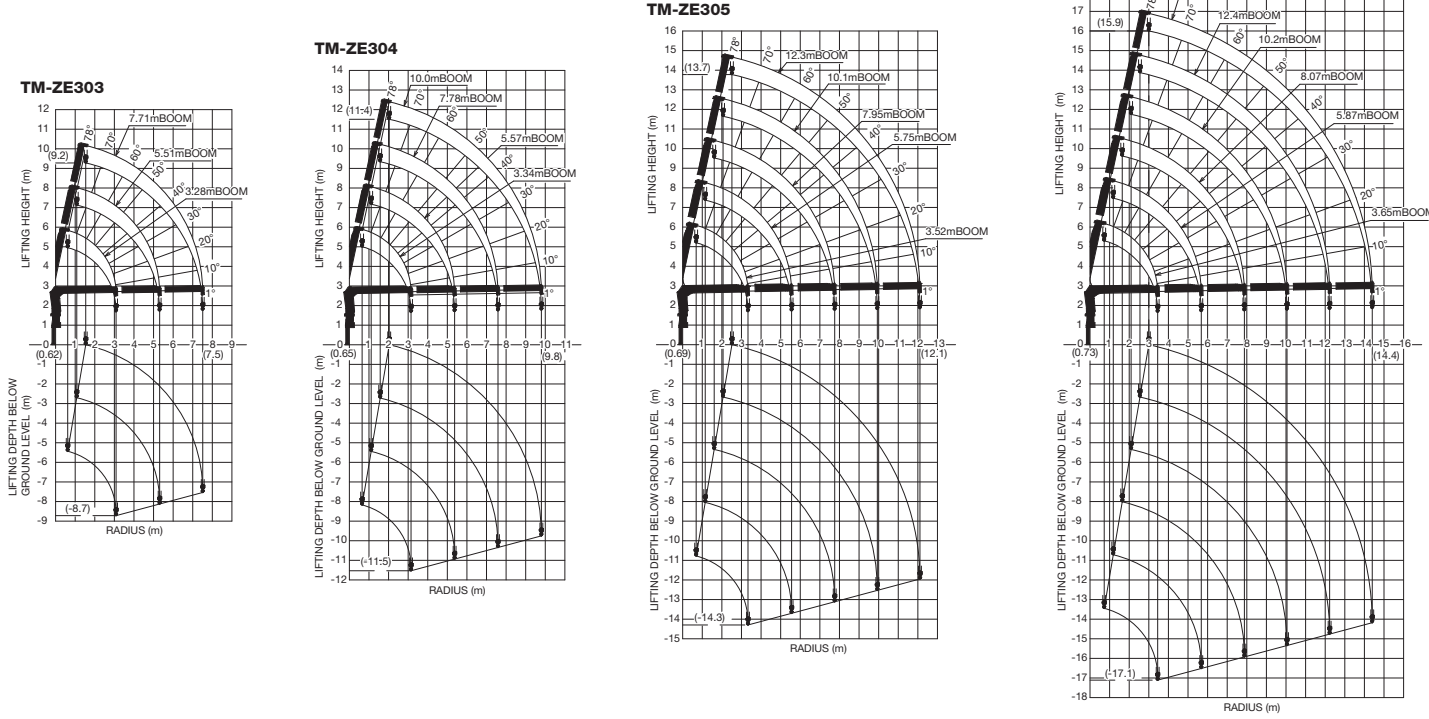
TM-ZE300HRS series

Technical Specifications

Model	TM-ZE303HRS	TM-ZE304HRS	TM-ZE305HRS	TM-ZE306HRS
CRANE CAPACITY	3,030 kg at 2.7 m (4-part lines)	3,030 kg at 2.6 m (4-part lines)	3,030 kg at 2.4 m (4-part lines)	3,030 kg at 2.4 m (4-part lines)
BOOM	Three-sectioned, fully hydraulic telescoping boom of heptagonal box construction	Four-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction	Five-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction	Six-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction
Retracted length	3.28 m	3.34 m	3.52 m	3.65 m
Extended length	7.71 m	10.0 m	12.3 m	14.6 m
Extending speed	4.43 m in 12 s	6.66 m in 14 s	8.78 m in 18 s	10.95 m in 19 s
Elevation	Elevated by a double-acting hydraulic cylinder			
Raising speed	1" to 78" in 7.5 s			
Boom point	2 sheaves			
WINCH	Hydraulic motor driven. Spur gear 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 51 m	8 mm x 63 m	8 mm x 74 m	8 mm x 85 m
Wire rope (Breaking strength)	43.1 kN (4.39 tf)			
Wire rope (Construction)	7 x 7 + 6 x WS (26)			
Hook block	2 sheaves			
HOOK STOWING DEVICE	Hook-in (Mechanically stowed beneath boom top portion)			
SLEWING	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.			
Extension width	Min. 2,000 mm center to center (2,150 mm outer to outer), Mid. 2,700 mm center to center (2,850 mm outer to outer), Max. 3,400 mm center to center (3,550 mm outer to outer)			
HYDRAULIC SYSTEM	Single gear pump			
Hydraulic pump	Axial piston type for winch. Axial piston type for slewing.			
Hydraulic motors	Multiple control valves with integral safety valve			
Control valves	Approx. 43.0 L			
Oil tank capacity	Model : RCS-F (with colored display), Control functions of telescoping, hoisting up and down, elevating, slewing, acceleration, Hook-in, Hook-out, horn, stop operation, outrigger operation and working height limit.			
RADIO CONTROLLER	40 frequencies in 433 MHz band			
Operating power supply	6V DC, Dry battery R6P (SUM-3) x 4			
Control unit	24V DC, Vehicle battery			
Transmitter mass	Approx. 670 g (includes batteries)			
SAFETY DEVICES	<ul style="list-style-type: none"> •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> •WHL (Working Height Limiter) •Boom angle indicator •Load indicator •Load meter •Over-unwinding prevention •Hook safety latch •Spiral level •Jack interlock •Stop switch on radio controller •Hydraulic safety valves, check valves and holding valves •Limit warning lamp (three-color) •Emergency stop switch •Boom outrigger stowed warning 			
OPTIONAL EQUIPMENT	•Emergency hydraulic pump •Outrigger pads •Oil cooler •Tiltable jack float •Rear outriggers (outrigger beam extension type)**			
CRANE MASS	Approx. 1,080 kg (Except crane options and mounting parts.)	Approx. 1,170 kg	Approx. 1,290 kg	Approx. 1,360 kg (Except crane options and mounting parts.)

**TM-ZX306HRS only
 Note: 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)

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.

Rated Lifting Capacities

Table A	Table C	Table D
TM-ZE303HRS • 3.28 m / 5.51 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.7 3.0 3.5 4.0 4.5 5.0 5.3 CRANE STRENGTH 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,600 2,100 1,580 1,250 1,030 880 800 MIN. 1,380 1,130 930 730 580 480 430 380	TM-ZE303HRS • 3.28 m / 5.51 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.7 3.0 3.5 4.0 4.5 5.0 5.3 CRANE STRENGTH 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 3,030 2,580 1,980 1,550 1,250 1,050 950 MIN. 1,630 1,330 1,100 880 700 580 480 430	TM-ZE303HRS • 3.28 m / 5.51 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.7 3.0 3.5 4.0 4.5 5.0 5.3 CRANE STRENGTH 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 3,030 2,580 2,180 1,880 1,680 1,480 1,380 MIN. 1,630 1,330 1,100 880 700 580 480 430
• 7.71 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 CRANE STRENGTH 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 EMPTY CHASSIS Extension width of outriggers MAX. 2,400 1,900 1,580 1,250 1,030 880 780 680 600 530 480 MIN. 1,380 1,180 930 730 580 480 380 330	• 7.71 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 CRANE STRENGTH 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 EMPTY CHASSIS Extension width of outriggers MAX. 2,400 2,080 1,900 1,550 1,250 1,050 900 800 730 650 580 MIN. 1,630 1,400 1,080 830 650 530 430 380	• 7.71 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 CRANE STRENGTH 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 EMPTY CHASSIS Extension width of outriggers MAX. 2,400 2,080 1,930 1,680 1,530 1,380 1,280 1,180 1,080 1,000 930 MIN. 1,630 1,400 1,080 830 650 530 430 380
TM-ZE304HRS • 3.34 m / 5.57 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.6 3.0 3.5 4.0 4.5 5.0 5.37 CRANE STRENGTH 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,850 2,100 1,550 1,230 1,000 800 730 MIN. 1,380 1,180 930 680 530 450 380 330	TM-ZE304HRS • 3.34 m / 5.57 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.6 3.0 3.5 4.0 4.5 5.0 5.37 CRANE STRENGTH 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 3,030 2,480 2,000 1,580 1,280 1,050 930 MIN. 1,630 1,400 1,080 830 650 530 430 380	TM-ZE304HRS • 3.34 m / 5.57 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.6 3.0 3.5 4.0 4.5 5.0 5.37 CRANE STRENGTH 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 3,030 2,480 2,080 1,780 1,580 1,380 1,280 MIN. 1,630 1,400 1,080 830 650 530 430 380
• 7.78 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.58 CRANE STRENGTH 2,330 2,030 1,830 1,630 1,480 1,330 1,230 1,130 1,030 950 880 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 1,900 1,550 1,230 1,000 800 730 630 550 500 430 MIN. 1,380 1,180 930 730 580 480 380 330	• 7.78 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.58 CRANE STRENGTH 2,330 2,030 1,830 1,630 1,480 1,330 1,230 1,130 1,030 950 880 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,030 1,830 1,580 1,280 1,050 930 800 700 630 550 MIN. 1,630 1,400 1,080 830 650 530 430 380	• 7.78 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.2 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.58 CRANE STRENGTH 2,330 2,030 1,830 1,630 1,480 1,330 1,230 1,130 1,030 950 880 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,030 1,830 1,630 1,480 1,330 1,230 1,130 1,030 950 880 MIN. 1,630 1,400 1,080 830 650 530 430 380
• 10.0 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 1,330 1,100 930 800 700 630 580 EMPTY CHASSIS Extension width of outriggers MAX. 1,230 800 630 500 400 330 280 MIN. 1,330 1,050 800 630 530 430 350	• 10.0 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 1,330 1,100 930 800 700 630 580 EMPTY CHASSIS Extension width of outriggers MAX. 1,330 1,050 800 630 530 430 350 MIN. 1,580 1,480 1,080 830 650 530 430 350	• 10.0 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.8 CRANE STRENGTH 1,330 1,100 930 800 700 630 580 EMPTY CHASSIS Extension width of outriggers MAX. 1,330 1,100 930 800 700 630 580 MIN. 1,580 1,480 1,080 830 650 530 430 350
TM-ZE305HRS • 3.52 m / 5.75 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.55 CRANE STRENGTH 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,780 2,150 1,550 1,200 950 780 630 MIN. 1,330 1,230 880 680 530 430 330 280	TM-ZE305HRS • 3.52 m / 5.75 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.55 CRANE STRENGTH 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 MIN. 1,580 1,480 1,080 830 650 530 430 350	TM-ZE305HRS • 3.52 m / 5.75 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.55 CRANE STRENGTH 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,830 2,430 2,030 1,730 1,480 1,330 1,150 MIN. 1,580 1,480 1,080 830 650 530 430 350
• 7.95 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.75 CRANE STRENGTH 2,330 2,130 1,830 1,630 1,480 1,330 1,150 1,080 980 880 750 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,130 1,830 1,630 1,480 1,330 1,150 1,080 980 880 750 MIN. 1,380 1,180 930 730 580 480 400 330	• 7.95 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.75 CRANE STRENGTH 2,330 2,130 1,830 1,630 1,480 1,330 1,150 1,080 980 880 750 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,130 1,830 1,530 1,280 1,080 900 800 680 600 480 MIN. 1,630 1,480 1,080 830 650 530 430 350	• 7.95 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.75 CRANE STRENGTH 2,330 2,130 1,830 1,630 1,480 1,330 1,150 1,080 980 880 750 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,130 1,830 1,630 1,480 1,330 1,150 1,080 980 880 750 MIN. 1,630 1,480 1,080 830 650 530 430 350
• 10.12 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.92 CRANE STRENGTH 1,230 980 830 730 650 580 530 EMPTY CHASSIS Extension width of outriggers MAX. 1,200 780 550 400 330 250 200 MIN. 1,230 980 780 600 480 400 330	• 10.12 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.92 CRANE STRENGTH 1,230 980 830 730 650 580 530 EMPTY CHASSIS Extension width of outriggers MAX. 1,230 980 780 600 480 400 330 MIN. 1,580 1,480 1,080 830 650 530 430 350	• 10.12 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 9.92 CRANE STRENGTH 1,230 980 830 730 650 580 530 EMPTY CHASSIS Extension width of outriggers MAX. 1,230 980 830 730 650 580 530 MIN. 1,580 1,480 1,080 830 650 530 430 350
• 12.3 m Boom LOAD RADIUS (m) 4.5 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.1 CRANE STRENGTH 930 830 700 600 500 450 400 350 330 EMPTY CHASSIS Extension width of outriggers MAX. 930 780 550 400 330 250 200 180 150 MIN. 1,330 1,130 930 730 580 480 400 330	• 12.3 m Boom LOAD RADIUS (m) 4.5 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.1 CRANE STRENGTH 930 830 700 600 500 450 400 350 330 EMPTY CHASSIS Extension width of outriggers MAX. 930 830 700 580 480 400 330 300 250 MIN. 1,580 1,480 1,050 780 600 480 380 280	• 12.3 m Boom LOAD RADIUS (m) 4.5 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.1 CRANE STRENGTH 930 830 700 600 500 450 400 350 330 EMPTY CHASSIS Extension width of outriggers MAX. 930 830 700 600 500 450 400 350 330 MIN. 1,580 1,480 1,050 780 600 480 380 280
TM-ZE306HRS • 3.65 m / 5.87 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.67 CRANE STRENGTH 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,780 2,180 1,730 1,350 1,080 880 680 MIN. 1,330 1,230 880 680 530 430 330 250	TM-ZE306HRS • 3.65 m / 5.87 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.67 CRANE STRENGTH 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,830 2,380 1,980 1,650 1,380 1,130 930 MIN. 1,580 1,480 1,050 780 600 480 380 280	TM-ZE306HRS • 3.65 m / 5.87 m Boom LOAD RADIUS (m) 2.4 ^{2nd} 2.5 3.0 3.5 4.0 4.5 5.0 5.67 CRANE STRENGTH 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 EMPTY CHASSIS Extension width of outriggers MAX. 3,030 2,830 2,380 1,980 1,700 1,480 1,300 1,100 MIN. 1,580 1,480 1,050 780 600 480 380 280
• 8.07 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.87 CRANE STRENGTH 2,330 2,200 1,930 1,700 1,480 1,300 1,150 1,030 930 830 700 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,200 1,930 1,700 1,480 1,300 1,150 1,030 930 830 700 MIN. 1,380 1,180 930 730 580 480 400 330	• 8.07 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.87 CRANE STRENGTH 2,330 2,200 1,930 1,700 1,480 1,300 1,150 1,030 930 830 700 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,200 1,930 1,530 1,280 1,080 930 800 700 630 530 MIN. 1,630 1,480 1,050 780 600 480 380 280	• 8.07 m Boom LOAD RADIUS (m) 2.7 ^{2nd} 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.87 CRANE STRENGTH 2,330 2,200 1,930 1,700 1,480 1,300 1,150 1,030 930 830 700 EMPTY CHASSIS Extension width of outriggers MAX. 2,330 2,200 1,930 1,700 1,480 1,300 1,150 1,030 930 830 700 MIN. 1,630 1,480 1,050 780 600 480 380 280
• 10.25 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.05 CRANE STRENGTH 1,130 1,050 880 750 650 600 500 EMPTY CHASSIS Extension width of outriggers MAX. 1,130 930 780 630 480 400 330 MIN. 1,130 1,050 880 750 650 600 500	• 10.25 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.05 CRANE STRENGTH 1,130 1,050 880 750 650 600 500 EMPTY CHASSIS Extension width of outriggers MAX. 1,130 930 780 630 480 400 330 MIN. 1,580 1,480 1,050 780 600 480 380 280	• 10.25 m Boom LOAD RADIUS (m) 4.0 ^{2nd} 5.0 6.0 7.0 8.0 9.0 10.05 CRANE STRENGTH 1,130 1,050 880 750 650 600 500 EMPTY CHASSIS Extension width of outriggers MAX. 1,130 1,050 880 750 650 600 500 MIN. 1,580 1,480 1,050 780 600 480 380 280
• 12.4 m Boom LOAD RADIUS (m) 5.0 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.2 CRANE STRENGTH 880 730 630 530 480 400 380 330 EMPTY CHASSIS Extension width of outriggers MAX. 880 730 580 430 330 280 240 200 180 MIN. 880 730 580 430 330 280 240 200 180	• 12.4 m Boom LOAD RADIUS (m) 5.0 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.2 CRANE STRENGTH 880 730 630 530 480 400 380 330 EMPTY CHASSIS Extension width of outriggers MAX. 880 730 580 480 380 300 250 230 MIN. 1,580 1,480 1,050 780 600 480 380 280	• 12.4 m Boom LOAD RADIUS (m) 5.0 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.2 CRANE STRENGTH 880 730 630 530 480 400 380 330 EMPTY CHASSIS Extension width of outriggers MAX. 880 730 630 530 480 400 380 330 MIN. 1,580 1,480 1,050 780 600 480 380 280
• 14.6 m Boom LOAD RADIUS (m) 4.9 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.4 CRANE STRENGTH 430 380 330 300 280 260 240 220 200 180 EMPTY CHASSIS Extension width of outriggers MAX. 430 380 330 300 280 260 240 220 200 180 MIN. 430 380 330 300 280 260 240 220 200 180	• 14.6 m Boom LOAD RADIUS (m) 4.9 ^{2nd} 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.4 CRANE STRENGTH 430 380 330 300 280 260 240 220 200 180 EMPTY CHASSIS Extension width of outriggers MAX. 43	