

TM-ZE290/260

For Small 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:

EXCELSIOR QUALITY, EASY OPERATION AND EASY MAINTENANCE.

The TM-ZE290/260 series,

with a lifting capacity of 3.03/2.63 tons,

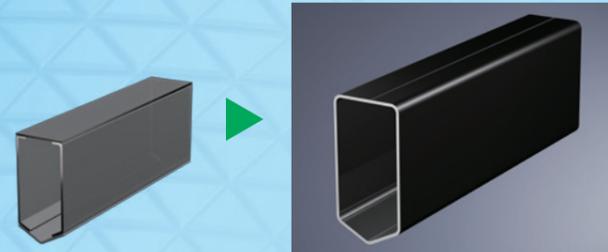
and a choice of 4 different lengths of the boom are available to meet your lifting requirements.



STRONGER AND LIGHTER BOOM

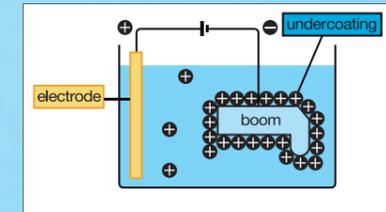
Tadano's unique pentagonal boom is made of high-tensile steel and the section of boom has a structure of bended one piece steel plate for lighter boom weight and powerful lifting capability.

Special valves enable smooth boom extension and retraction for smoother operation to reduce a shock when telescoping the boom.



CATIONIC ELECTRO-DEPOSITION COATING

The crane is undercoated by Cationic Electro-deposition method. The parts are dipped in cationic solution, and even the narrow inner booms and frames 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.



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 traveling.



CENTRALIZED CONTROL PANELS

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



LEFT-HAND SIDE

RIGHT-HAND SIDE

RESPONDING TO OPERATOR'S COMMAND

Equipped with optimally matched, high-performance control valves, the operating levers provide improved responsiveness and fine-tuned control. Operation is fast or slow in accordance with operator's command. The stainless rods between the left and right operation levers are provided as standard.



LOAD METER

QUICKER WORK WITH ADVANCED OUTRIGGER MECHANISM

The outrigger sliders can be easily operated, using a grip to lock/release and extend/retract them. The new lock system prevents the outriggers from swinging out during traveling.

A level gauge is provided as standard equipment.



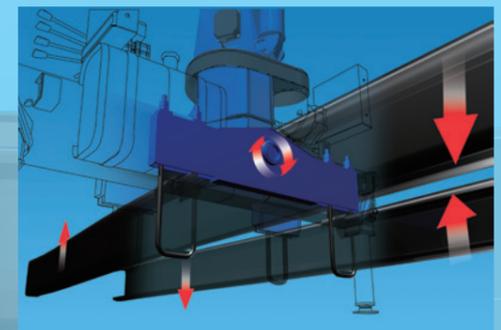
NEW LOCK SYSTEM



LEVEL GAUGE

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 the lifting operation and the vehicle travel to prevent excessive stress concentration at any one point.



TM-ZE290 series

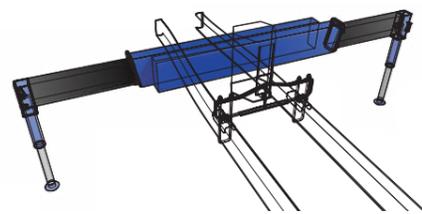


HOOK IN SYSTEM (TM-ZE290MH only)

The TM-ZE290MH features the "Hook-In" system to further enhance work efficiency.

A pull of a lever and the crane hook is stowed automatically.

No more manual fixing.

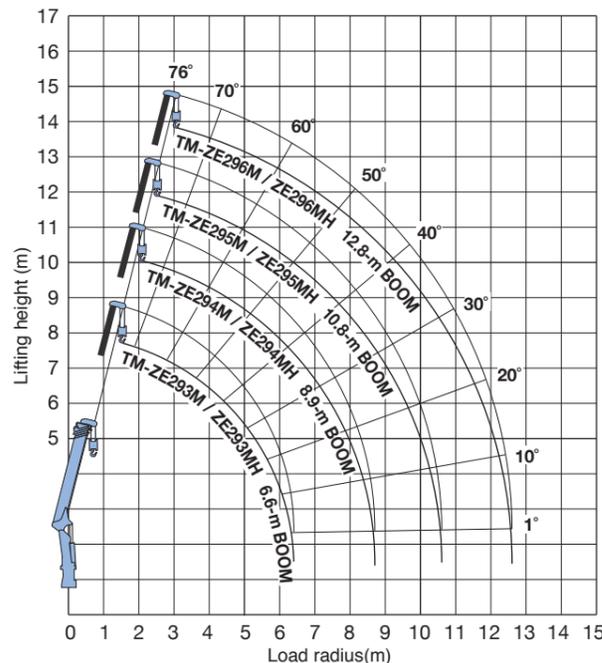


PARABOX OUTRIGGER (TM-ZE290 series)

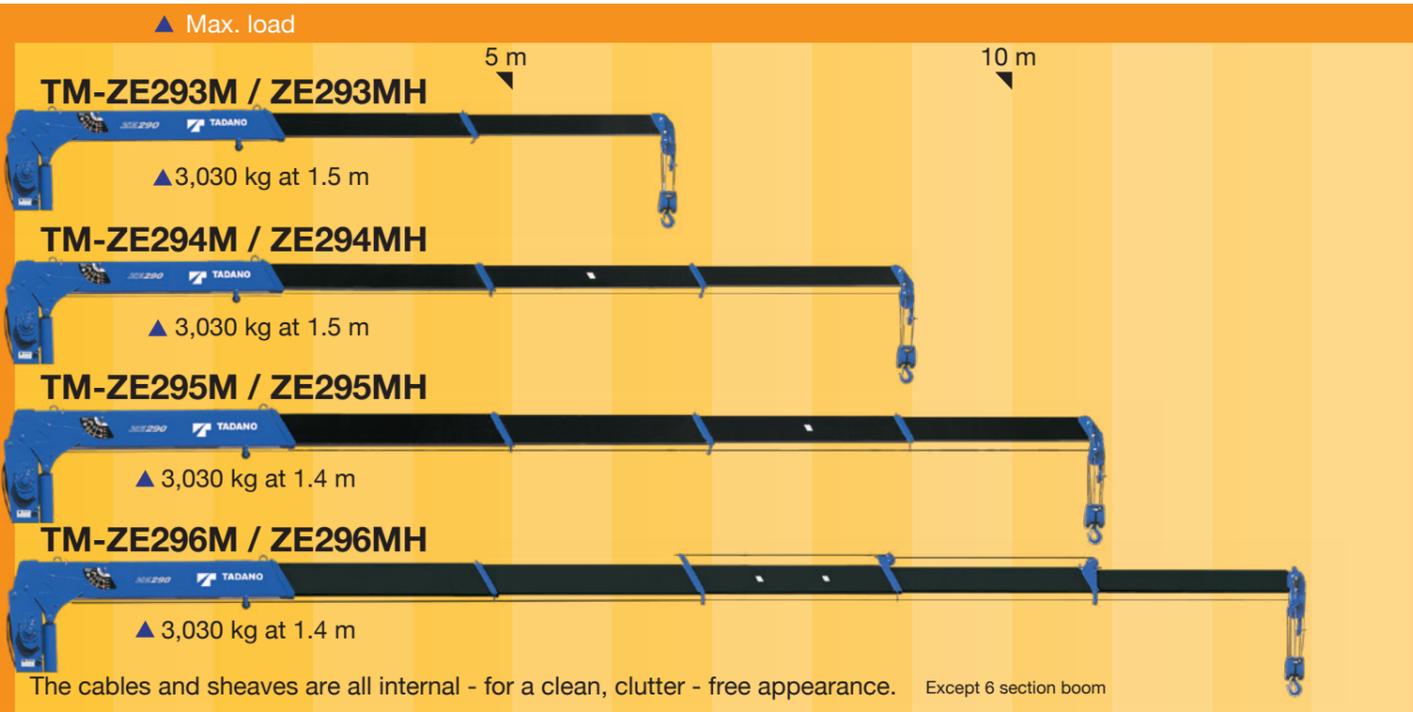


TM-ZE294MH

WORKING RANGE



NOTES FOR WORKING RANGE:
Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.



The cables and sheaves are all internal - for a clean, clutter - free appearance. Except 6 section boom

TECHNICAL SPECIFICATIONS

MODEL	TM-ZE293M	TM-ZE293MH*	TM-ZE294M	TM-ZE294MH*	TM-ZE295M	TM-ZE295MH*	TM-ZE296M	TM-ZE296MH*
CRANE CAPACITY	3,030 kg at 1.5 m (4-parts of line)		3,030 kg at 1.5 m (4-parts of line)		3,030 kg at 1.4 m (4-parts of line)		3,030 kg at 1.4 m (4-parts of line)	
BOOM	Fully powered telescoping boom of pentagonal box construction.							
Number of sections	3		4		5		6	
Length	2.85 m - 6.6 m		3.17 m - 8.9 m		3.13 m - 10.8 m		3.23 m - 12.8 m	
Extending speed	3.75 m / 10.5 s		5.73 m / 13 s		7.67 m / 15.5 s		9.57 m / 17 s	
Elevating range/speed	1° to 76° / 6 s							
Max. lifting height**	approx. 7.8 m**		approx. 10.0 m**		approx. 11.8 m**		approx. 13.8 m**	
Max. load radius**	6.4 m**		8.7 m**		10.6 m**		12.6 m**	
WINCH	Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake.							
Max. single line pull	7.45 kN {760 kgf}							
Max. single line speed	68 m/min. (at 4th layer)							
Wire rope (Diameter x length)	8 mm x 45 m		8 mm x 56 m		8 mm x 66 m		8 mm x 75 m	
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 extended sliders and hydraulically extended jacks Integral with crane frame							
Extension width	Max. : 3.4 m, Mid. : 2.9m / 2.4 m, Min. : 1.72 m							
HYDRAULIC SYSTEM	Multiple control valves with integral safety valves							
STANDARD SAFETY DEVICES	•Load meter •Load indicator •Anti-two-block alarm •Hoisting limiter •P.T.O. indicator lamp •Hook safety latch •Hydraulic safety valves •Level gauge							
SUITABLE TRUCKS	Gross vehicle mass 4,000 to 8,000 kg							

* WITH HOOK STOWING DEVICE. Mechanically stows hook beneath boom head.
** Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

RATED LIFTING CAPACITIES (With empty chassis)

Table A

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.5 and below	2.0	2.5	3.0	3.5	4.0	4.54
Rated lifting capacity (kg)	3,030	2,280	1,730	1,230	930	730	630

Table B

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	2.2 and below	2.5	3.0	3.5	4.0	4.5	6.4
Rated lifting capacity (kg)	1,880	1,630	1,230	930	730	580	350

Table C

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.5 and below	2.0	2.5	3.0	3.5	4.0	4.54
Rated lifting capacity (kg)	3,030	2,280	1,830	1,430	1,080	830	730

Table D

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.45 and below	2.0	2.5	3.0	3.5	4.0	4.97
Rated lifting capacity (kg)	3,030	2,180	1,730	1,430	1,230	1,080	830

Table E

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	2.2 and below	2.5	3.0	3.5	4.0	4.5	6.8
Rated lifting capacity (kg)	1,880	1,630	1,330	1,030	830	680	530

Table F

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	4.0 and below	4.5	5.0	6.0	7.0	8.0	10.6
Rated lifting capacity (kg)	480	430	380	300	260	230	150

Table G

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.4 and below	2.0	2.5	3.0	3.5	4.0	4.97
Rated lifting capacity (kg)	3,030	2,130	1,730	1,430	1,230	1,030	880

Table H

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.5 and below	2.0	2.5	3.0	3.5	4.0	4.54
Rated lifting capacity (kg)	3,030	2,330	1,880	1,500	1,250	1,080	980

Table I

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	2.2 and below	2.5	3.0	3.5	4.0	4.5	6.4
Rated lifting capacity (kg)	1,880	1,680	1,430	1,230	1,080	950	580

Table J

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.45 and below	2.0	2.5	3.0	3.5	4.0	4.87
Rated lifting capacity (kg)	3,030	2,180	1,730	1,430	1,230	1,080	830

Table K

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	3.0 and below	3.5	4.0	5.0	6.0	7.0	8.7
Rated lifting capacity (kg)	980	830	680	450	350	280	200

Table L

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	4.0 and below	4.5	5.0	6.0	7.0	8.0	10.6
Rated lifting capacity (kg)	580	530	480	400	330	280	210

Table M

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	1.45 and below	2.0	2.5	3.0	3.5	4.0	4.97
Rated lifting capacity (kg)	3,030	2,180	1,730	1,430	1,230	1,050	800

Table N

TM-ZE293M / ZE293MH		TM-ZE294M / ZE294MH		TM-ZE295M / ZE295MH		TM-ZE296M / ZE296MH	
Load radius (m)	2.2 and below	2.5	3.0	3.5	4.0	4.5	6.9
Rated lifting capacity (kg)	1,880	1,680	1,430	1,180	1,030	880	500

NOTES FOR TECHNICAL SPECIFICATIONS:
Operating speeds of the crane are guaranteed under the conditions that the pump delivery is 53 L/min.

NOTES FOR RATED LIFTING CAPACITIES:
The mass of hook (30 kg), slings and all other lifting devices must be added to the mass of the load.

TM-ZE260 series



HOOK IN SYSTEM (TM-ZE260MH only)

The TM-ZE260MH features the "Hook-In" system to further enhance work efficiency.

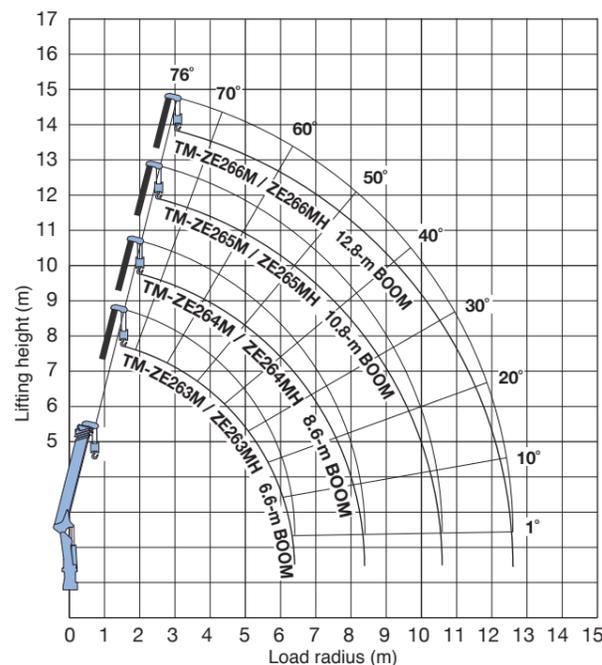
A pull of a lever and the crane hook is stowed automatically.

No more manual fixing.

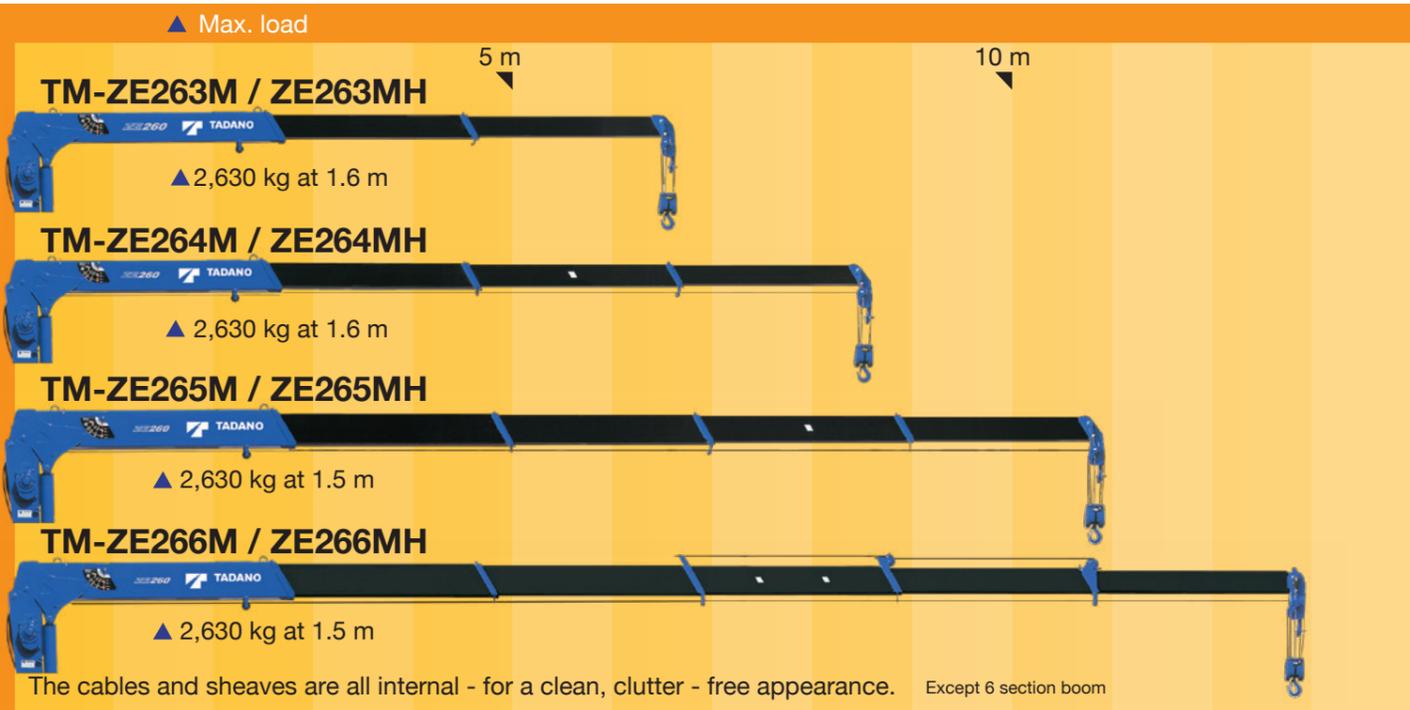


TM-ZE264MH

WORKING RANGE



NOTES FOR WORKING RANGE:
Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.



The cables and sheaves are all internal - for a clean, clutter - free appearance. Except 6 section boom

TECHNICAL SPECIFICATIONS

MODEL	TM-ZE263M	TM-ZE263MH*	TM-ZE264M	TM-ZE264MH*	TM-ZE265M	TM-ZE265MH*	TM-ZE266M	TM-ZE266MH*
CRANE CAPACITY	2,630 kg at 1.6 m (4-parts of line)		2,630 kg at 1.6 m (4-parts of line)		2,630 kg at 1.5 m (4-parts of line)		2,630 kg at 1.5 m (4-parts of line)	
BOOM	Fully powered telescoping boom of pentagonal box construction.							
Number of sections	3		4		5		6	
Length	2.85 m - 6.6 m		2.87 m - 8.6 m		3.13 m - 10.8 m		3.23 m - 12.8 m	
Extending speed	3.75 m / 10 s		5.73 m / 12 s		7.67 m / 15.5 s		9.57 m / 17 s	
Elevating range/speed	1° to 76° / 6 s							
Max. lifting height**	Approx. 7.8 m**		Approx. 9.7 m**		Approx. 11.8 m**		Approx. 13.8 m**	
Max. load radius**	6.4 m**		8.4 m**		10.6 m**		12.6 m**	
WINCH	Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake.							
Max. single line pull	6.47 kN {660 kgf}							
Max. single line speed	68 m/min. (at 4th layer)							
Wire rope (Diameter x length)	8 mm x 45 m		8 mm x 54 m		8 mm x 66 m		8 mm x 75 m	
SLEWING	Hydraulic motor driven. Worm gear speed reduction. Continuous 360° full circle slewing on ball bearing slewing ring. Automatic slewing lock.							
Slewing speed	2.5 min ⁻¹ {rpm}							
OUTRIGGERS	Manually extended sliders and hydraulically extended jacks Integral with crane frame							
Extension width	Max. : 3.0 m, Mid. : 2.4 m, Min. : 1.72 m							
HYDRAULIC SYSTEM	Multiple control valves with integral safety valves							
STANDARD SAFETY DEVICE	<ul style="list-style-type: none"> •Load meter •Load indicator •Anti-two-block alarm •Hoisting limiter •P.T.O. indicator lamp •Hook safety latch •Hydraulic safety valves •Level gauge 							
SUITABLE TRUCKS	Gross vehicle mass 4,000 to 8,000 kg							

* WITH HOOK STOWING DEVICE. Mechanically stows hook beneath boom head.
** Boom deflection, and subsequent radius and boom angle change must be accounted for when applying load to hook.

RATED LIFTING CAPACITIES (With empty chassis)

Table A
TM-ZE263M / ZE263MH

Load radius (m)	1.6 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.54
Rated lifting capacity (kg)	2,630	2,230	2,030	1,480	1,030	780	630	530

• 2.85-m/4.74-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.4
Rated lifting capacity (kg)	1,230	1,130	1,030	780	630	530	430	380	350

• 6.6-m boom

TM-ZE264M / ZE264MH

Load radius (m)	1.6 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.62
Rated lifting capacity (kg)	2,630	2,230	2,030	1,480	1,030	780	630	480

• 6.71-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.51
Rated lifting capacity (kg)	1,230	1,130	1,030	780	630	530	430	380	300

• 8.6-m boom

Load radius (m)	3.8 and below	4.0	4.5	5.0	6.0	7.0	8.0	8.4
Rated lifting capacity (kg)	680	630	530	430	330	250	200	180

Table C
TM-ZE263M / ZE263MH

Load radius (m)	1.6 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.54
Rated lifting capacity (kg)	2,630	2,230	2,030	1,530	1,180	880	730	580

• 2.85-m/4.74-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.4
Rated lifting capacity (kg)	1,230	1,130	880	680	580	480	430	380	350

• 6.6-m boom

TM-ZE264M / ZE264MH

Load radius (m)	1.6 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.62
Rated lifting capacity (kg)	2,630	2,230	2,030	1,530	1,130	880	680	530

• 6.71-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.51
Rated lifting capacity (kg)	1,230	1,130	880	680	580	480	400	380	330

• 8.6-m boom

Load radius (m)	4.0 and below	4.5	5.0	6.0	7.0	8.0	8.4
Rated lifting capacity (kg)	680	580	480	380	280	230	200

TM-ZE265M / ZE265MH

Load radius (m)	1.5 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.87
Rated lifting capacity (kg)	2,630	2,130	1,930	1,530	1,030	730	580	430

• 7.0-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.8
Rated lifting capacity (kg)	1,230	1,030	730	580	480	400	330	280	230

• 8.9-m boom

Load radius (m)	3.7 and below	4.0	5.0	6.0	7.0	8.0	8.7
Rated lifting capacity (kg)	680	580	380	280	230	180	150

• 10.8-m boom

Load radius (m)	4.5 and below	5.0	6.0	7.0	8.0	9.0	10.0	10.6
Rated lifting capacity (kg)	380	330	250	210	180	150	130	100

TM-ZE266M / ZE266MH

Load radius (m)	1.5 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.97
Rated lifting capacity (kg)	2,630	2,130	1,930	1,530	1,230	1,030	880	630

• 7.1-m boom

Load radius (m)	3.0 and below	3.5	4.0	4.5	5.0	5.5	6.0	6.9
Rated lifting capacity (kg)	1,230	1,030	880	730	580	530	480	380

• 9.0-m boom

Load radius (m)	4.0 and below	4.5	5.0	6.0	7.0	8.0	8.8
Rated lifting capacity (kg)	680	580	530	430	350	300	230

• 10.9-m boom

Load radius (m)	4.5 and below	5.0	6.0	7.0	8.0	9.0	10.0	10.7
Rated lifting capacity (kg)	380	330	250	210	180	150	130	100

• 12.8-m boom

Load radius (m)	6.0 and below	7.0	8.0	9.0	10.0	11.0	12.6
Rated lifting capacity (kg)	220	180	150	130	120	120	100

Table D
TM-ZE263M / ZE263MH

Load radius (m)	1.6 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.54
Rated lifting capacity (kg)	2,630	2,230	2,030	1,630	1,330	1,130	980	880

• 6.6-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.4
Rated lifting capacity (kg)	1,280	1,230	1,080	930	800	700	630	580	550

TM-ZE264M / ZE264MH

Load radius (m)	1.6 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.62
Rated lifting capacity (kg)	2,630	2,230	2,030	1,630	1,330	1,130	980	830

• 6.71-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.51
Rated lifting capacity (kg)	1,280	1,230	1,080	930	780	700	630	580	530

• 8.6-m boom

Load radius (m)	4.0 and below	4.5	5.0	6.0	7.0	8.0	8.4
Rated lifting capacity (kg)	700	630	550	450	380	330	310

TM-ZE265M / ZE265MH

Load radius (m)	1.5 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.87
Rated lifting capacity (kg)	2,630	2,180	1,980	1,580	1,330	1,130	980	830

• 7.0-m boom

Load radius (m)	2.8 and below	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.8
Rated lifting capacity (kg)	1,280	1,230	1,080	930	800	700	630	580	530

• 8.9-m boom

Load radius (m)	3.7 and below	4.0	5.0	6.0	7.0	8.0	8.7
Rated lifting capacity (kg)	700	700	550	450	380	350	330

• 10.8-m boom

Load radius (m)	4.5 and below	5.0	6.0	7.0	8.0	9.0	10.0	10.6
Rated lifting capacity (kg)	480	430	330	280	230	200	180	160

TM-ZE266M / ZE266MH

Load radius (m)	1.5 and below	1.8	2.0	2.5	3.0	3.5	4.0	4.97
Rated lifting capacity (kg)	2,630	2,180	1,980	1,580	1,330	1,130	980	780

• 7.1-m boom

Load radius (m)	3.0 and below	3.5	4.0	4.5	5.0	5.5	6.0	6.9
Rated lifting capacity (kg)	1,230	1,080	930	800	700	630	580	500

• 9.0-m boom

Load radius (m)	4.0 and below	4.5	5.0	6.0	7.0	8.0	8.8
Rated lifting capacity (kg)	700	630	550	450	380	330	300

• 10.9-m boom

Load radius (m)	4.5 and below	5.0	6.0	7.0	8.0	9.0	10.0	10.7
Rated lifting capacity (kg)	480	430	330	280	230	200	180	160

• 12.8-m boom

Load radius (m)	6.0 and below	7.0	8.0	9.0	10.0	11.0	12.6
Rated lifting capacity (kg)	230	200	170	150	130	120	100

NOTES FOR TECHNICAL SPECIFICATIONS:
Operating speeds of the crane are guaranteed under the conditions that the pump delivery is 53 L/min.

NOTES FOR RATED LIFTING CAPACITIES:
The mass of hook (30 kg), slings and all other lifting devices must be added to the mass of the load.