

TADANO CARGO CRANE

MODEL: TM-ZE266MH ----- with hook stowing device

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u> 2,630 kg at 1.5 m (4-part lines)

BOOM Six-sectioned, fully powered partly synchronized telescoping

boom of pentagonal box construction

Retracted length ----- 3.23 m Extended length ----- 12.8 m

Extending speed ----- 9.57 m / 17 s

Elevation ----- Elevated by a double-acting

hydraulic cylinder

Elevating speed ----- 1° to 76° / 6 s

Boom point ----- 2 sheaves

WINCH Hydraulic motor driven Spur gear speed reduction, provided

with mechanical brake and cable follower

Single line pull ----- 6.47 kN {660 kgf}

Single line speed ----- 68 m/min (at 4th layer)

Wire rope

Diameter x length ----- 8 mm x 75 m

Breaking strength ----- 43.1 kN {4.39 tf}

Construction ----- 7 x 7 + 6 x WS(26)

Hook block ----- 2 sheaves

HOOK STOWING DEVICE 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 extended sliders and hydraulically extended jacks

Integral with crane frame Power up and down

Extension width ----- Min. 1,720 mm

Mid. 2,400 mm Max. 3,000 mm

REAR OUTRIGGERS (Locally provided)

Maximum extension width ---- Not less than 2,400 mm

<u>HYDRAULICS</u> Hydraulic pump ----- Single gear pump

Hydraulic motors ----- Axial piston type for winch

Axial piston type for slewing

Control valves ----- Multiple control valves with integral

safety valve

Oil tank capacity ----- approx. 22 L

SAFETY DEVICES Load meter

Load indicator

Over-winding alarm Anti-two-block device P.T.O indicator lamp Hook safety latch

Hydraulic safety valves, check valves and holding valves

Level gauge

CRANE MASS Approx. 1,155 kg (with standardized mounting parts included)

NOTE: Operating speeds of the crane are guaranteed under the condition that the pump delivery is 53 L/min.

RATED LIFTING CAPACITIES IN KILOGRAMS

Crane Strength Rated Capacities

Load Radius	3.23 m / 5.17 m Boom	Load Radius	7.1 m Boom	Load Radius	9.0 m Boom	Load Radius	10.9 m Boom	Load Radius	12.8 m Boom
1.5 m and below	2,630	3.0 m and below	1,230	4.0 m and below	700	4.5 m and below	480	6.0 m and below	230
1.8 m	2,180	3.5 m	1,080	4.5 m	630	5.0 m	430	7.0 m	200
2.0 m	1,980	4.0 m	930	5.0 m	550	6.0 m	330	8.0 m	170
2.5 m	1,580	4.5 m	800	6.0 m	450	7.0 m	280	9.0 m	150
3.0 m	1,330	5.0 m	700	7.0 m	380	8.0 m	230	10.0m	130
3.5 m	1,130	5.5 m	630	8.0 m	330	9.0 m	200	11.0m	120
4.0 m	980	6.0 m	580	8.8 m	300	10.0 m	180	12.6m	100
4.97m	780	6.9 m	500			10.7 m	160		

- NOTES: 1. The mass of hook block (30kg), slings and all similarly used load lifting 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

Table C

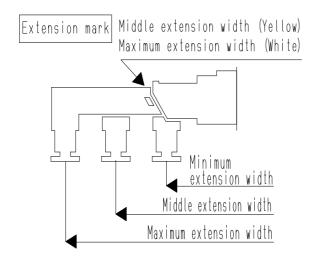
	0.00	/ - 47		7.4		0.0		400		400
	3.23 m /			7.1 m		9.0 m		10.9 m		12.8 m
l	Bo	om	l	Boom	l	Boom	l	Boom	l	Boom
Load	Extension	on width	Load	Extension	Load	Extension	Load	Extension	Load	Extension
Radius	of outriggers		Radius	width of outriggers						
	Maximum	Minimum		Maximum		Maximum		Maximum		Maximum
1.5 m			3.0 m		4.0 m		4.5 m		6.0 m	
and	2,630	1,580	and	1,230	and	680	and	380	and	220
below			below		below		below		below	
1.8 m	2,130	1,280	3.5 m	1,030	4.5 m	580	5.0 m	330	7.0 m	180
2.0 m	1,930	1,130	4.0 m	880	5.0 m	530	6.0 m	250	8.0 m	150
2.5 m	1,530	730	4.5 m	730	6.0 m	430	7.0 m	210	9.0 m	130
3.0 m	1,230	530	5.0 m	580	7.0 m	350	8.0 m	180	10.0m	120
3.5 m	1,030	380	5.5 m	530	8.0 m	300	9.0 m	150	11.0m	120
4.0 m	880	280	6.0 m	480	8.8 m	230	10.0 m	130	12.6m	100
4.97m	630	180	6.9 m	380			10.7 m	130		

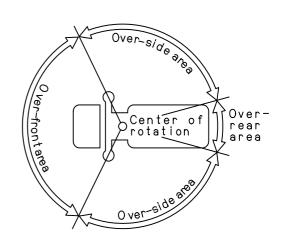
Table D

		3.23 m / 5.17 m Boom			7.1 m Boom		9.0 m Boom	10.9 m Boom		12.8 m Boom	
Load Radius		Extension width of outriggers		Radius wi	Extension width of outriggers	Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
		Maximum	Minimum		Maximum		Maximum		Maximum		Maximum
	1.5 m and below	2,630	1,580	3.0 m and below	1,230	4.0 m and below	700	4.5 m and below	480	6.0 m and below	230
	1.8 m	2,180	1,280	3.5 m	1,080	4.5 m	630	5.0 m	430	7.0 m	200
	2.0 m	1,980	1,130	4.0 m	930	5.0 m	550	6.0 m	330	8.0 m	170
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	4.0 m	980	280	6.0 m	580	8.8 m	300	10.0 m	180	12.6m	100
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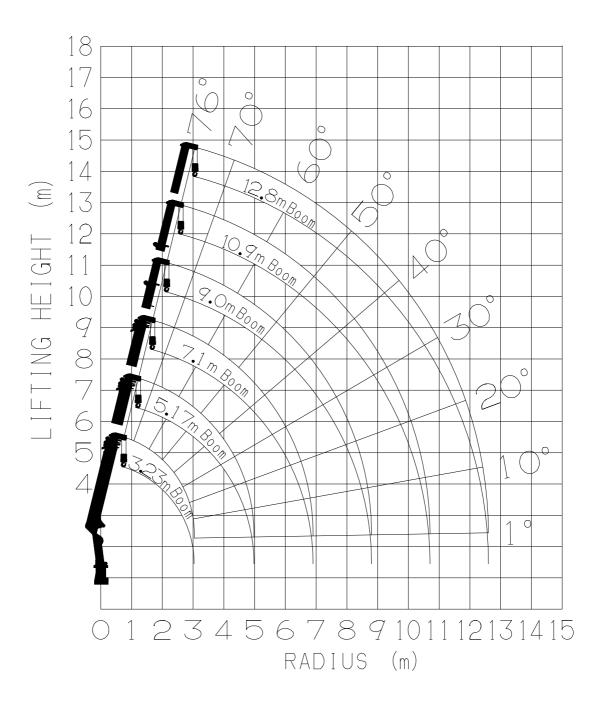
- NOTES: 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 - 2. The mass of hook block (30 kg), slings and all similarly used load lifting devices must be added to the mass of load.
 - 3. For boom lengths not shown, use the rated lifting 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 5.17m, extend front outriggers and rear outriggers to maximum extension width.

 - 7. When the boom length is 10.9 m, a half of the second \Box mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
 - 8. Empty Chassis Rated Capacities table C and D depend on the types of chassis.
 - Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. These capacities for over-front area may be lowered depending on the types of chassis.



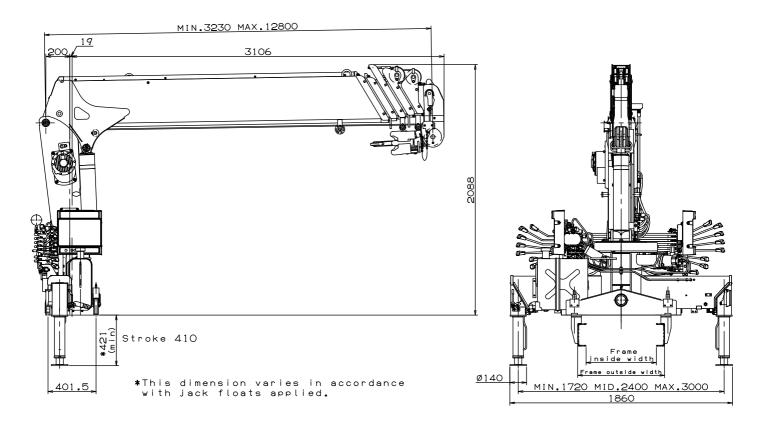


WORKING RANGE



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) 4,500 to	8,000 kg
P.T.O. torque140 N-m	ո {14.3 kgf-m} min.
P.T.O. revolution Approx.	300 to 1,700 min ⁻¹ {rpm}
Width for crane mounting Approx.	605 mm min.
Frame Weight	distribution and frame strength
should I	be calculated for each truck
Frame width range (inside to outside) Approx.	680 to 790 mm
Frame height (ground to frame top) Approx.	1,010 mm max.
(Height o	of crane mounting base can be
changed	by combination of jack floats and
crane ba	ises)