

TADANO CARGO CRANE

MODEL: TM-ZE365MH

CRANE SPECIFICATIONS

CRANE CAPACITY	3,030 kg at 2.3 m (4-part lines)	
BOOM	Five-sectioned, fully powered part boom of pentagonal box construct Fully retracted length Fully extended length Extending speed Elevation Raising speed	tion 3.52 m 12.3 m 8.78 m in 18 s Elevated by a double-acting hydraulic cylinder 1º to 78º in 7.5 s
<u>WINCH</u>	Hydraulic motor driven Spur gea with mechanical brake and cable to Single line pull Single line speed Wire rope Diameter x length Breaking strength Construction	follower 7.45 kN {760 kgf} - 76 m/min (at 4th layer) 8 mm x 74 m 43.1 kN {4.39 tf} 7 x 7 + 6 x WS (26)
HOOK BLOCK STOWING DE	/ <u>ICE</u> Hook-in (Mechanically stowed ber	neath boom top portion)
<u>SLEWING</u>	Hydraulic motor driven Worm gea Continuous 360° full circle slewing Automatic slewing lock	•

Slewing speed ----- 2.5 min⁻¹ {rpm}

<u>OUTRIGGERS</u>	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	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. 41.1 L					
SAFETY DEVICES	Anti-two-block device						
	Boom angle indicator						
	Load indicator						
	Load meter						
	Hook safety latch						
	Spirit level						
	Hydraulic safety valves, check v	valves and holding valves					
OPTIONAL EQUIPMENT	Emergency hydraulic pump						
	Outrigger pads						
	Oil cooler						
	Rear outriggers (outrigger beam extension type)						
CRANE MASS	Approx. 1,370 kg						

- 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)

RATED LIFTING CAPACITIES (kg)

LOAD RADIUS	3.52 m / 5.75 m BOOM	LOAD RADIUS	7.95 m BOOM	LOAD RADIUS	10.1 m BOOM	LOAD RADIUS	12.3 m BOOM
2.3 m and below	3,030	2.7 m and below	2,330	4.0 m and below	1,030	4.5 m and below	760
2.5 m	2,830	3.0 m	2,130	5.0 m	880	5.0 m	700
3.0 m	2,430	3.5 m	1,830	6.0 m	730	6.0 m	580
3.5 m	2,030	4.0 m	1,630	7.0 m	630	7.0 m	500
4.0 m	1,730	4.5 m	1,480	8.0 m	580	8.0 m	430
4.5 m	1,480	5.0 m	1,330	9.0 m	510	9.0 m	380
5.0 m	1,330	5.5 m	1,150	9.92 m	480	10.0 m	330
5.55 m	1,150	6.0 m	1,050			11.0 m	300
		6.5 m	950			12.1 m	280
		7.0 m	850				
		7.75 m	730				

Crane Strength Rated Capacities

- NOTE: 1. 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.
 - 2. This value includes the mass of lifting devices such as hook block (30kg).
 - 3. This load radius shows actual load radius which includes boom deflection.
 - 4. If the boom length exceeds the table value even a little, the performance is limited to the performance of the next boom length.
 - 5. When the boom length is 10.1 m, a half of the *r* mark on lateral face of the 4th boom section is exposed out of 3rd boom section.

Empty Chassis Rated Capacities

Table A

	LOAD 3.52 m / 5.75 m BOOM		LOAD	7.95 m BOOM	LOAD	10.1 m BOOM		12.3 m BOOM
RADIUS	extension of outr	on width	RADIUS	extension width of outriggers	RADIUS	extension width of outriggers	LOAD RADIUS	extension width of outriggers
	MAX.	MIN.		MAX.		MAX.		MAX.
2.3 m and below	3,030	1,280	2.7 m and below	2,230	4.0 m and below	1,030	4.5 m and below	760
2.5 m	2,780	1,180	3.0 m	2,030	5.0 m	830	5.0 m	630
3.0 m	2,280	780	3.5 m	1,680	6.0 m	730	6.0 m	480
3.5 m	1,880	630	4.0 m	1,380	7.0 m	550	7.0 m	400
4.0 m	1,430	480	4.5 m	1,180	8.0 m	450	8.0 m	350
4.5 m	1,180	380	5.0 m	980	9.0 m	380	9.0 m	310
5.0 m	980	330	5.5 m	830	9.92 m	330	10.0 m	280
5.55 m	850	280	6.0 m	730			11.0 m	250
			6.5 m	630			12.1 m	230
			7.0 m	550				
			7.75 m	480				

Table C

					-			
		/ 5.75 m OM		7.95 m BOOM		10.1 m BOOM		12.3 m BOOM
LOAD RADIUS		on width	LOAD RADIUS	extension width	LOAD RADIUS	extension width	LOAD RADIUS	extension width
	of outr	iggers	I ADIOO	of outriggers	I ADIOO	of outriggers	IVADI00	of outriggers
	MAX.	MIN.		MAX.		MAX.		MAX.
2.3 m	2 0 2 0	1 200	2.7 m	2 220	4.0 m	1 020	4.5 m	760
and below	3,030	1,380	and below	2,230	and below	1,030	and below	760
2.5 m	2,780	1,230	3.0 m	2,030	5.0 m	830	5.0 m	630
3.0 m	2,280	880	3.5 m	1,680	6.0 m	730	6.0 m	480
3.5 m	1,930	680	4.0 m	1,380	7.0 m	630	7.0 m	400
4.0 m	1,630	530	4.5 m	1,180	8.0 m	500	8.0 m	350
4.5 m	1,330	430	5.0 m	1,050	9.0 m	430	9.0 m	310
5.0 m	1,080	330	5.5 m	930	9.92 m	380	10.0 m	280
5.55 m	930	280	6.0 m	800			11.0 m	250
			6.5 m	700			12.1 m	250
			7.0 m	630			_	
			7.75 m	550				

Table D

LOAD 3.52 m / 5.75 m BOOM		LOAD	7.95 m BOOM		10.1 m BOOM		12.3 m BOOM	
RADIUS		on width	RADIUS	extension width	LOAD RADIUS	extension width	LOAD RADIUS	extension width
	of outr	00		of outriggers		of outriggers		of outriggers
	MAX.	MIN.		MAX.		MAX.		MAX.
2.3 m	3,030	1,380	2.7 m	2,330	4.0 m	1,030	4.5 m	760
and below	3,030	1,500	and below	2,000	and below	1,030	and below	700
2.5 m	2,830	1,230	3.0 m	2,130	5.0 m	880	5.0 m	700
3.0 m	2,430	880	3.5 m	1,830	6.0 m	730	6.0 m	580
3.5 m	2,030	680	4.0 m	1,630	7.0 m	630	7.0 m	500
4.0 m	1,730	530	4.5 m	1,480	8.0 m	580	8.0 m	430
4.5 m	1,480	430	5.0 m	1,330	9.0 m	510	9.0 m	380
5.0 m	1,330	330	5.5 m	1,150	9.92 m	480	10.0 m	330
5.55 m	1,150	280	6.0 m	1,050			11.0 m	300
			6.5 m	950			12.1 m	280
			7.0 m	850				
			7.75 m	730				

- NOTE : 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 - 2. This value includes the mass of lifting devices such as hook block (30kg).
 - 3. When the outriggers are extended to the middle width, read the capacities rated for the minimum extension width.
 - 4. This load radius shows actual load radius which includes boom deflection.
 - 5. If the boom length exceeds the table value even a little, the performance is limited to the performance of the next boom length.
 - 6. When the boom length is 10.1 m, a half of the *P* mark on lateral face of the 4th boom section is exposed out of 3rd boom section.
 - 7. Empty chassis rated lifting capacity varies according to the working area.

<over-side, over-rear area> : 100%

<over-front area> : 25%

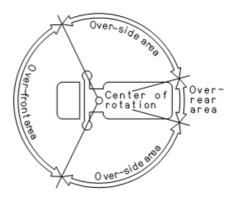
8. Empty Chassis Rated Capacities table A, C and D depend on the types of chassis. (The following table shows guidelines for bodywork vehicles that can achieve the rated

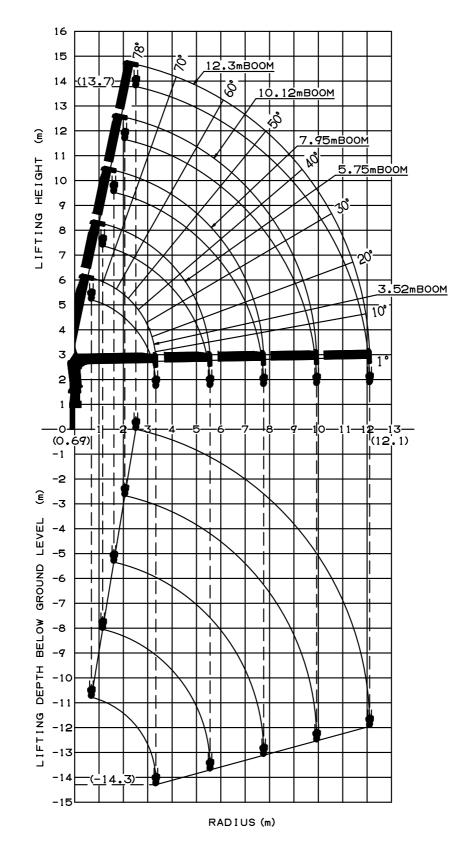
lifting capacity table A and C for vehicles. Be sure to carry out a stability inspection to determine which performance to apply.)

Α	8.0 t ≤ GVW < 17.0 t	
С	11.0 t ≤ GVW < 17.0 t,	4200 mm ≤ WB (*1)

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

Extension mark Middle extension width (Yellow) Maximum extension width (White) Minimum extension width Middle extension width Middle extension width

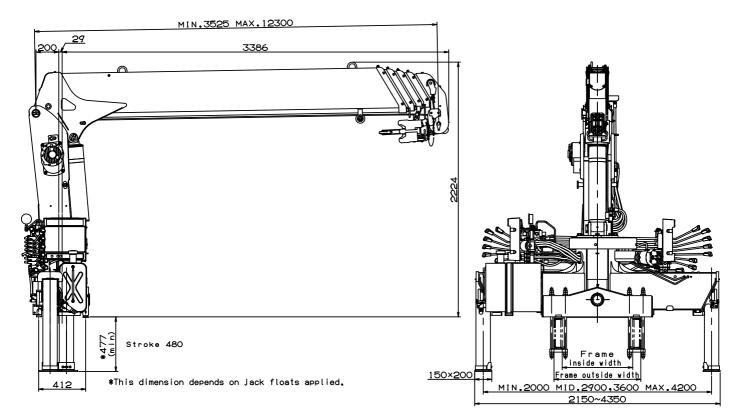




WORKING RANGE

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. 560 to 1,090 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