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TADANO CARGO CRANE

# MODEL : TM-ZE305M TM-ZE305MH ----- with hook stowing device

## CRANE SPECIFICATIONS

CRANE CAPACITY	3,030 kg at 2.3 m (4-part lines)
BOOM	Five-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction Retracted length 3.52 m Extended length 12.3 m Extending speed 8.78 m / 18 s Elevation Elevated by a double-acting hydraulic cylinder Elevating speed 1° to 78° / 7.5 s Boom point 2 sheaves
<u>WINCH</u>	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 74 m Breaking strength43.1 kN{4.39 tf} Construction 7 x 7 + 6 x WS(26) Hook block 2 sheaves
HOOK STOWING DEVICE [TM-ZE305MH only]	Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

<u>SWING</u>	Hydraulic motor driven Worm gear speed reduction Continuous 360° full circle swing on ball bearing slew ring Automatic swing lock Swing speed 2.5 min <sup>-1</sup> {rpm}
<u>OUTRIGGERS</u>	Manually extended sliders and hydraulically extended jacks Integral with crane frame Power up and down Extension width Min. 2,000 mm Mid. 2,700 mm Full 3,400 mm
<u>HYDRAULICS</u>	Hydraulic pumpSingle gear pumpHydraulic motorsAxial piston type for winch Axial piston type for swingControl valvesMultiple control valves with integral safety valveOil tank capacityapprox. 31 L
SAFETY DEVICES	Load meter Load indicator Over-winding alarm Hoisting limiter P.T.O indicator lamp Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge
CRANE MASS	Approx. 1,375 kg (includes standardized mounting parts)

NOTE : Operating speeds of the crane are guaranteed under the condition that the pump delivery is 60 L /min.

# RATED LIFTING CAPACITIES IN KILOGRAMS Crane Strength Rated Capacities

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	3.52 m / 5.75 m Boom			7.95 m Boom		10.1 m Boom		12.3 m Boom
Load Radius		n width of ggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full		Full
2.3 m and below	3,030	1,380	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	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	380	5.5 m	1,150	9.92m	480	10.0m	330
5.55m	1,150	280	6.0 m	1,050			11.0m	300
			6.5 m	950			12.1m	280
			7.0 m	850				
			7 75m	730				

 7.75m
 730

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

<b>Empty Chassis Rated Capacities</b>
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Table A		L11		s Natou Oap				
	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
Load Radius	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
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	1,850	5.0 m	650	5.0 m	630
3.0 m	1,880	780	3.5 m	1,330	6.0 m	480	6.0 m	480
3.5 m	1,330	630	4.0 m	1,030	7.0 m	380	7.0 m	380
4.0 m	1,030	480	4.5 m	830	8.0 m	300	8.0 m	300
4.5 m	830	380	5.0 m	680	9.0 m	230	9.0 m	230
5.0 m	680	330	5.5 m	580	9.92m	200	10.0m	200
5.55m	580	280	6.0 m	480			11.0m	180
			6.5 m	430			12.1m	130
			7.0 m	380				
			7.75m	330				

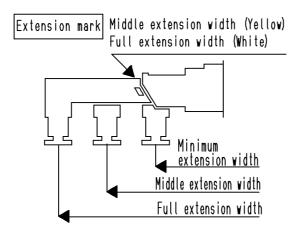
Table C

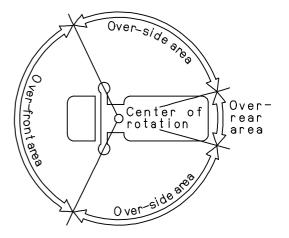
	3.52 m / 5.75 m Boom			7.95 m Boom		10.1 m Boom		12.3 m Boom
Load Radius	outri	n width of ggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full		Full
2.3 m and below	3,030	1,380	2.7 m and below	2,230	4.0 m and below	1,030	4.5 m and below	760
2.5 m	2,780	1,230	3.0 m	2,030	5.0 m	780	5.0 m	630
3.0 m	2,080	880	3.5 m	1,530	6.0 m	580	6.0 m	480
3.5 m	1,530	680	4.0 m	1,180	7.0 m	430	7.0 m	400
4.0 m	1,180	530	4.5 m	980	8.0 m	350	8.0 m	350
4.5 m	980	430	5.0 m	780	9.0 m	300	9.0 m	280
5.0 m	830	380	5.5 m	680	9.92m	280	10.0m	250
5.55m	680	280	6.0 m	580			11.0m	230
-	•	•	6.5 m	480			12.1m	200
			7.0 m	430			-	
			7.75m	380				

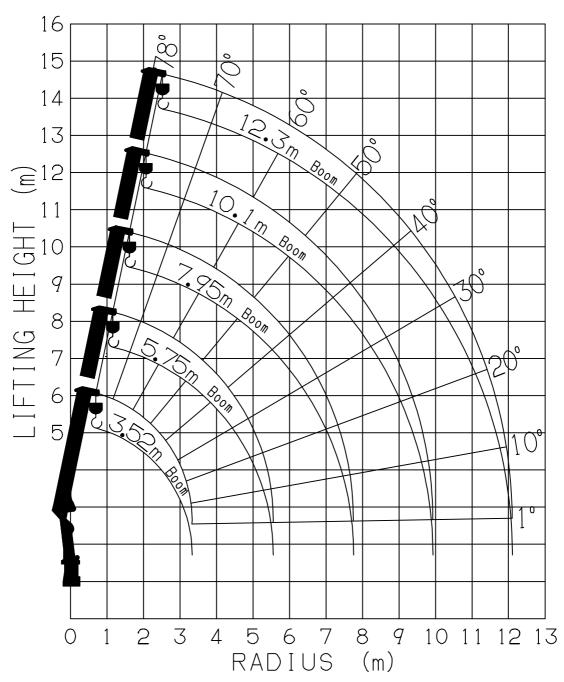
#### SPEC. SHEET No. TM-30Z-5-03005/EX-02[TM-ZE305M] TM-30Z-5-03065/EX-02[TM-ZE305MH]

	3.52 m / 5.75 m Boom			7.95 m Boom		10.1 m Boom		12.3 m Boom
Load Radius		n width of ggers Minimum	Load Radius	Extension width of outriggers Full	Load Radius	Extension width of outriggers Full	Load Radius	Extension width of outriggers Full
2.3 m and below	3,030	1,380	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	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	380	5.5 m	1,150	9.92m	480	10.0m	330
5.55m	1,150	280	6.0 m	1,050			11.0m	300
	•	•	6.5 m	950			12.1m	280
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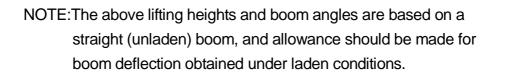
- NOTES : 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
  - 2. The mass of hook block (30 kg), slings and all similarly used load handling devices must be added to the mass of load.
  - 3. For boom lengths not shown, use the rated 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 5.75m, extend outriggers to full extension width.
  - 6. When the boom length is 10.1 m, a half of the *□* mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
  - 7. Empty Chassis Rated Capacities table A ,C and D depend on the types of chassis.
  - 8. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. These capacities for over-front area may lowered depending on the types of chassis.



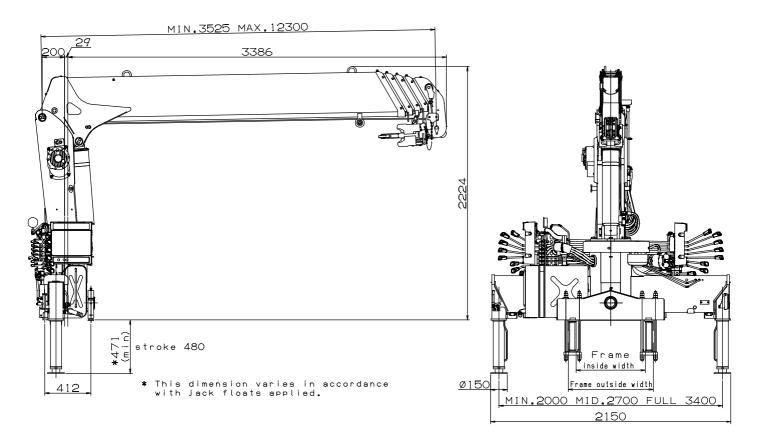




WORKING RANGE



DIMENSIONS [TM-ZE305MH]



## GENERAL DATA FOR SUITABLE TRUCKS

Gross vehicle mass (including crane mass)	- 8,000 to 11,000 kg
P.T.O. torque	-190 N-m{19.4 kgf-m} min.
P.T.O. revolution	- Approx. 300 to 1,900 min <sup>-1</sup> {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 frame top)	- Approx. 1,070 mm max.
	(Height of crane mounting base can be
	changed by combination of jack floats and
	crane bases)