

TADANO CARGO CRANE

MODEL : TM-ZT405

CRANE SPECIFICATIONS

CRANE CAPACITY

4,050 kg at 2.85 m (4-part line)

WINCH

Five-sectioned, fully powered partly synchronized telescoping boom				
of pentagonal box construction				
Retracted length 3.77 m				
Extended length 13.34 m				
Extending speed 9.57 m / 25 s				
Elevation Elevated by a double-acting				
Hydraulic cylinder				
Elevating speed 1° to 78° / 12 s				
Boom point 2 sheaves				
Hydraulic motor driven Spur gear speed reduction, provided with				
mechanical brake and cable follower				
Single line pull 9.92 kN{1,012 kgf}				
Single line speed 66 m/min.(at 4th layer)				
Wire rope				
Diameter x length 8 mm x 81 m				
Diameter x length 8 mm x 81 m Breaking strength 50.1 kN{5,100 kgf}				
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<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 ⁻¹ {rpm}				
<u>OUTRIGGERS</u>	Manually extended sliders and hydraulically extended jacks Integral with crane frame Power up and down Extended width Min. 2,200 mm Mid. 3,000 mm Max.3,800 mm				
<u>HYDRAULICS</u>	Hydraulic pump Single gear pump Hydraulic motors Axial piston type for winch Axial piston type for swing Control valves Multiple control valves with integral safety valve Oil tank capacity approx. 90 L				
SAFETY DEVICES	Load meter Load indicator Over-winding alarm Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge				
CRANE MASS	Approx. 1,855 kg (except mounting parts)				

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

Load Radius	3.77m/ 6.21 m Boom	Load Radius	8.59 m Boom	Load Radius	10.97 m Boom	Load Radius	13.34 m Boom
2.85 m andbelow	4,050	3.6 m and below	3,130	4.5 m and below	2,030	5.0 m and below	1,330
3.6 m	3,180	3.9 m	2,930	5.0 m	1,830	6.0 m	1,100
3.9 m	2,930	4.5 m	2,430	6.0 m	1,480	7.0 m	950
4.5 m	2,430	5.0 m	2,130	7.0 m	1,230	8.0 m	830
5.0 m	2,130	5.5 m	1,880	8.0 m	1,030	9.0 m	730
5.5 m	1,880	6.0 m	1,650	9.0 m	880	10.0 m	650
5.99 m	1,650	6.5 m	1,480	10.0 m	780	11.0 m	600
		7.0 m	1,350	10.75 m	730	12.0 m	550
		7.5 m	1,230			13.12 m	500
		8.37 m	1,080				

RATED LIFTING CAPACITIES IN KILOGRAMS Crane Strength Rated Capacities

NOTES : 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. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
- 3. The mass of the hook (30 kg), slings and all similarly used load handling devices must be added to the mass of the load.
- 4. For boom lengths not shown, use the rated lifting capacity of next longer boom.
- 5. 10.97m boom means *r* mark on 4th boom section side plate is half seen.



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) 1	2,000 kg or more			
P.T.O. torque 10	66 N⋅m{17 kgf⋅m} min.			
P.T.O. revolution A	pprox. 1,200 min ⁻¹ {rpm} max.			
Width for crane mounting A	.pprox. 870 mm min.			
Frame W	leight distribution and frame strength			
st	hould be calculated for each truck			
Frame width range (inside to outside) A	pprox. 610 to 960 mm			
Frame height (ground to frame top) Approx. 1,235 mm max.				
()	Height of crane mounting base can be changed			
	by combination of jack floats and crane bases)			