



TADANO CARGO CRANE

MODEL: TM-ZT405

CRANE SPECIFICATIONS

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

BOOM 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

<u>WINCH</u> 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

Breaking strength ----- 50.1 kN{5,100 kgf}

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

Hook block ----- 2 sheaves

<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}

OUTRIGGERS 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

HYDRAULICS 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

<u>CRANE MASS</u> 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.

RATED LIFTING CAPACITIES IN KILOGRAMS

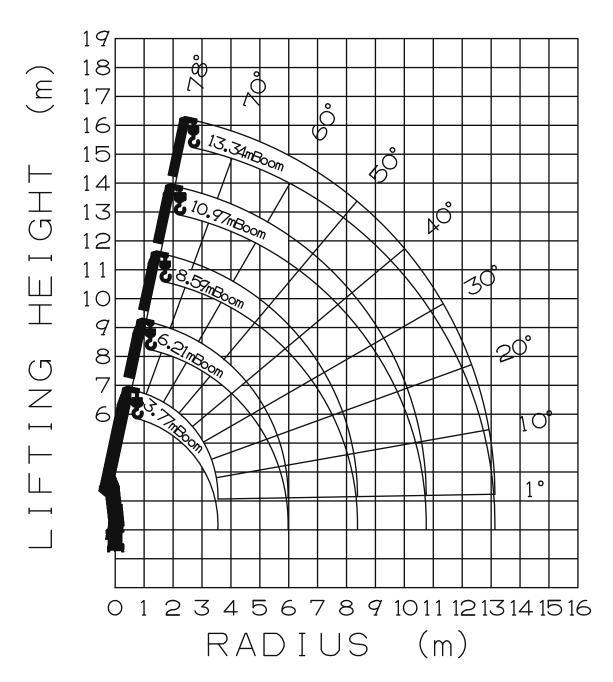
Crane Strength Rated Capacities

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				

- NOTES: 1. The above numerical values of total rated loads are based on crane strength only.

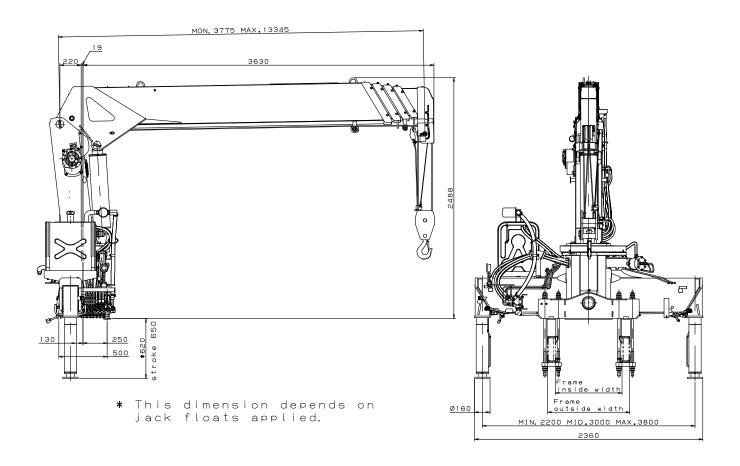
 The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
 - 2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
 - 3. The mass of the hook (30 kg), slings 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.

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	12,000 kg or more			
P.T.O. torque 1	l 66 N·m{17 kgf·m} min.			
P.T.O. revolution A	Approx. 1,200 min ⁻¹ {rpm} max.			
Width for crane mounting	Approx. 870 mm min.			
Frame V	Veight distribution and frame strength			
s	should be calculated for each truck			
Frame width range (inside to outside) Approx. 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)			