

TADANO CARGO CRANE

MODEL: TM-ZT824H

CRANE SPECIFICATIONS

MAXIMUM LIFTING CAPACI	TY 8,200 kg at 1.8 m (6-part line)
CRANE CAPACITY	4,900 kg at 3.1 m (4-part line)
BOOM	Four-sectioned, fully powered partly synchronized telescoping boom Retracted length 4.31m Extended length 12.91m Extending speed 8.6 m / 23 s Elevation Elevated by a double-acting Hydraulic cylinder Elevating speed 1° to 82° / 13 s Boom point 3 sheaves
<u>WINCH</u>	Hydraulic motor drivenSpur gear speed reduction, provided with mechanical brakeSingle line pull14.72 kN {1,500 kgf}Single line speed64 m/min (at 4th layer)Wire ropeDiameter x length10 mm x 80 m Breaking strength73.5 kN {7,500 kgf} Construction7 x 7 + 6 x Fi(29)Hook block3 sheaves
HOOK STOWING DEVICE	Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

<u>SLEWING</u>	Continuous 360° full circle Automatic slewing lock	Worm gear speed reduction e slewing on ball bearing slew ring 2.5 min ⁻¹ {rpm}				
OUTRIGGERS	Manually extended sliders and hydraulically extended jacks					
	Integral with crane frame Power up and down Extended width Min. 2,250 mm					
	Extended width					
		Mid. 3,100 mm				
		Max.3,900 mm				
HYDRAULICS	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. 90 L				
SAFETY DEVICES	Load meter					
	Load indicator					
	Over-winding alarm					
	Hoisting limiter					
	Hook safety latch					
	Hydraulic safety valves, check valves and holding valves					
	Level gauge					
CRANE MASS	Approx. 2,515 kg (except mounting parts)					

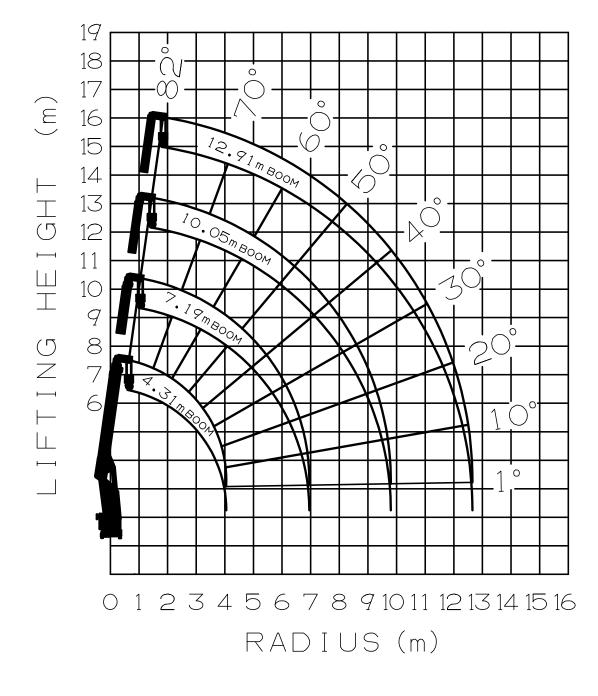
NOTE : Operating speeds of the crane are guaranteed under the condition that the pump delivery is 85 L/min.

RATED LIFTING CAPACITIES IN KILOGRAMS

Load Radius	4.31 m Boom	Load Radius	7.19 m Boom	Load Radius	10.05 m Boom	Load Radius	12.91 m Boom
1.8 m and below	8,200	2.25 m and below	6,000	4.5 m and below	3,000	4.5 m and below	3,000
2.25 m	6,000	3.1 m	4,900	5.0 m	2,900	5.0 m	2,650
3.1 m	4,900	3.5 m	4,200	6.0 m	2,200	6.0 m	2,200
3.5 m	4,200	4.0 m	3,700	7.0 m	1,800	7.0 m	1,800
4.06 m	3,650	4.5 m	3,300	8.0 m	1,550	8.0 m	1,500
		5.0 m	2,900	9.0 m	1,350	9.0 m	1,300
		6.0 m	2,200	9.8 m	1,200	10.0 m	1,100
		6.94 m	1,800			11.0 m	950
				- -		12.66 m	700

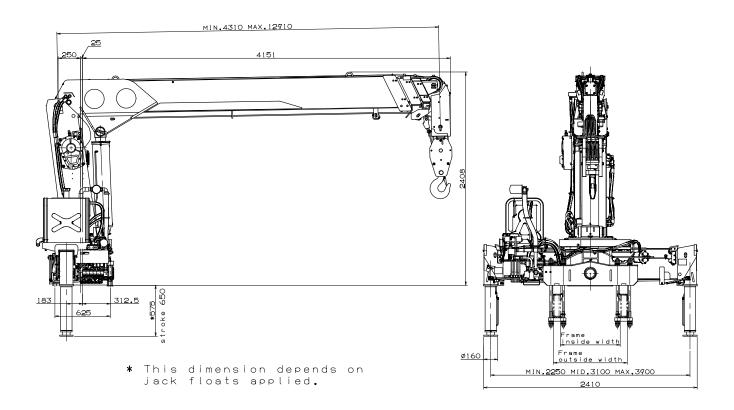
Crane Strength Rated Capacities

- 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 (90 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. 10.05 m boom means *a* mark on 3rd boom section side plate is half seen.
 - 6. When the lifting load is heavier than 6,000kg, number of part lines must be 6. In case of 6,000kg or less, number of part lines must be 4. Load per line must not surpass 14.7kN{1,500kgf}.



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)	20,000 kg or more
P.T.O. torque	167 N-m{17 kgf-m} min.
P.T.O. revolution	Approx. 1,700 min ⁻¹ {rpm} max.
Width for crane mounting	Approx. 920 mm min.
Frame	Weight distribution and frame strength
	should be calculated for each truck
Frame width range (inside to outside)	Approx. 576 to 953 mm
Frame height (ground to frame top)	Approx. 1,055 mm max.
	(Height of crane mounting base can be changed
	by combination of jack floats and crane bases)