

SPEC. SHEET No.TM-50ZT-2-00014/T-02 DATE June, 2016

TADANO CARGO CRANE

# MODEL : TM-ZT504H

## CRANE SPECIFICATIONS

CRANE CAPACITY	5,050 kg at 2.5 m (5-part line)
BOOM	Four-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction Retracted length 3.55 m Extended length 10.8 m Extending speed 7.25 m / 21 s Elevation Flevated by a double-acting Hydraulic cylinder Elevating speed 1° to 78° / 12 s Boom point3 sheaves
<u>WINCH</u>	Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower Single line pull9.90 kN{1,010 kgf} Single line speed66 m/min.(at 4th layer) Wire rope Diameter x length8 mm x 82 m Breaking strength8 mm x 82 m Construction7 x 7 + 6 x WS(26) Hook block2 sheaves
HOOK STOWING DEVICE	Mechanically stowed beneath boom top portion

<u>SLEWING</u>	Hydraulic motor driven Worm gear speed reduction Continuous 360° full circle slewing on ball bearing slew ring Automatic slewing lock Slewing 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 Extended width Min. 2,200 mm Mid. 3,000 mm Max.3,800 mm			
<u>HYDRAULICS</u>	Hydraulic pumpSingle gear pump Hydraulic motorsAxial piston type for winch Axial piston type for slewing Control valvesMultiple control valves with integral safety valve Oil tank capacityApprox. 90 L			
SAFETY DEVICES	Load meter Load indicator Over-winding alarm Anti-two-block device Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge			
CRANE MASS	Approx. 1,730 kg (except mounting parts)			

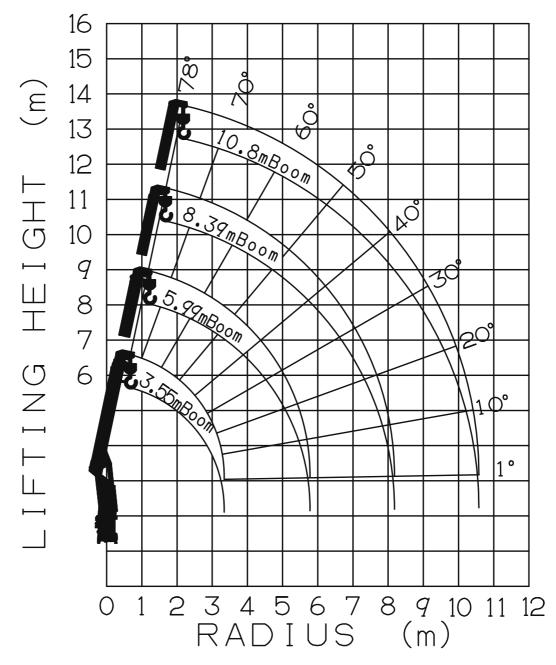
NOTE : Operating speeds of the crane are guaranteed under the condition that the pump delivery is 60 L/min.

### RATED LIFTING CAPACITIES IN KILOGRAMS

Load Radius	3.55 m Boom	Load Radius	5.99 m Boom	Load Radius	8.39 m Boom	Load Radius	10.8 m Boom
2.5 m and below	5,050	2.95 m and below	4,050	3.8 m and below	3,130	4.5 m and below	2,030
2.95 m	4,050	3.8 m	3,130	4.1 m	2,930	5.0 m	1,830
3.33 m	3,630	4.1 m	2,930	4.5 m	2,580	6.0 m	1,480
		4.5 m	2,580	5.0 m	2,280	7.0 m	1,230
		5.0 m	2,280	5.5 m	2,030	8.0 m	1,080
		5.77 m	1,900	6.0 m	1,830	9.0 m	980
				6.5 m	1,680	10.0 m	880
				7.0 m	1,550	10.58 m	830
				7.5 m	1,430		
				8.17m	1,280	]	

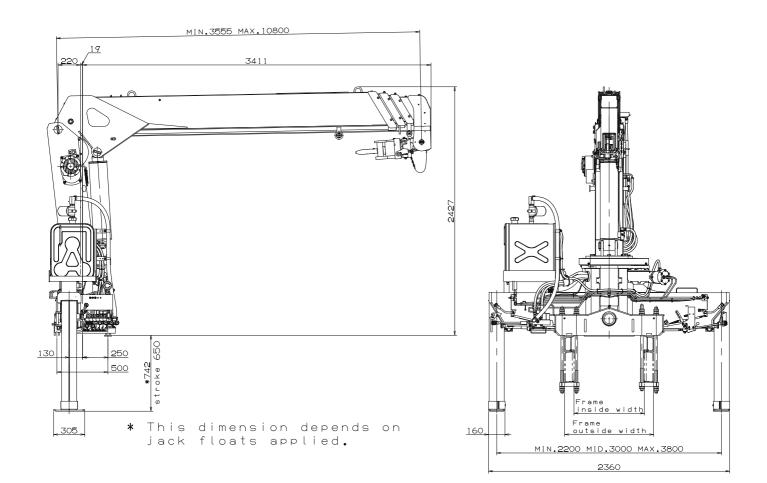
#### Crane Strength Rated Capacities

- 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 (50 kg), slings and all similarly used load lifting 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. 8.39m boom means *a* mark on 3rd 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) 15,000 kg or more					
P.T.O. torque180 N·m{18.4	kgf∙m} min.				
P.T.O. revolution Approx. 1,200	min <sup>-1</sup> {rpm} max.				
Width for crane mounting Approx. 750 m	m min.				
FrameWeight distribution	tion and frame strength				
should be calc	ulated for each truck				
Frame width range (inside to outside) Approx. 610 to 940 mm					
Frame height (ground to frame top)Approx. 1,290 mm max.					
(Height of cran	e mounting base can be changed				
by combination	on of jack floats and crane bases)				