

#### TADANO CARGO CRANE

# MODEL: TM-ZT634

### CRANE SPECIFICATIONS

CRANE CAPACITY 6,350 kg at 1.85 m (6-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 ----- Elevated by a double-acting

Hydraulic cylinder

Elevating speed -----  $1^{\circ}$  to  $78^{\circ}$  / 12 s

Boom point ----- 3 sheaves

<u>WINCH</u> Hydraulic motor driven Spur gear speed reduction, provided with

mechanical brake

Single line pull ----- 10.37 kN{1,058 kgf}

Single line speed ----- 66 m/min.(at 4th layer)

Wire rope

Diameter x length ----- 8 mm x 69 m

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

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

Hook block ----- 3 sheaves

SWING 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}

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

<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. 1,715 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

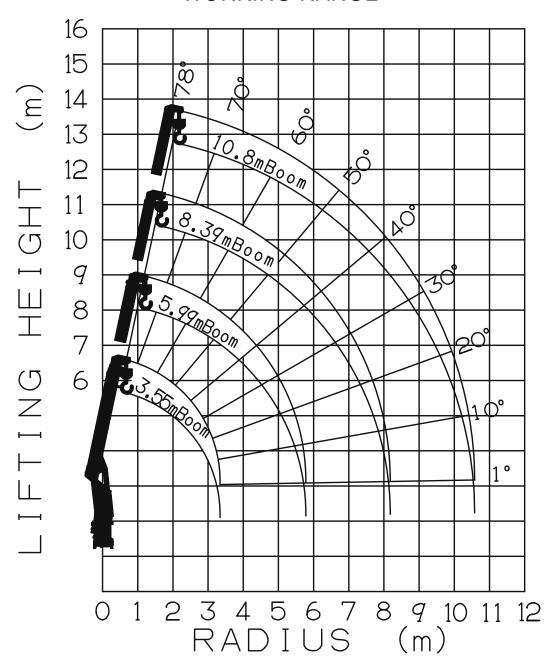
#### **Crane Strength Rated Capacities**

Load Radius	3.55 m Boom	Load Radius	5.99 m Boom	Load Radius	8.39 m Boom	Load Radius	10.8 m Boom
1.85 m and below	6,350	2.95 m and below	4,050	3.8 m and below	3,130	4.5 m and below	2,030
2.35 m	5,050	3.8 m	3,130	4.1 m	2,930	5.0 m	1,830
2.95 m	4,050	4.1 m	2,930	4.5 m	2,580	6.0 m	1,480
3.33 m	3,630	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		

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

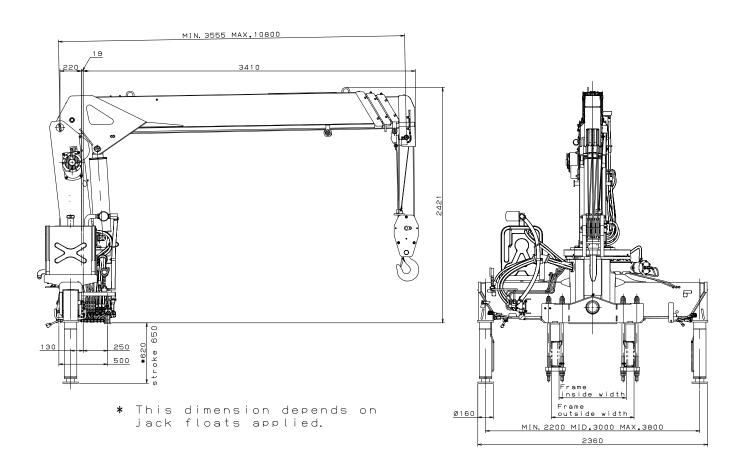
  The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
  - 2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
  - 3. The mass of the hook (90 kg), slings 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. 8.39m boom means  $\square$  mark on 3rd boom section side plate is half seen.
  - 6. When the lifting load is heavier than 4,000kg, number of part lines must be 6. In case of 4,000kg or less, number of part lines must be 4. Load per line must not surpass 10.4kN{1,060kgf}.

# **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) 12,000 kg or more
P.T.O. torque 166 N·m{17 kgf·m} min.
P.T.O. revolution Approx. 1,200 min <sup>-1</sup> {rpm} max.
Width for crane mounting Approx. 870 mm min.
Frame Weight distribution and frame strength
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)