

## TADANO CARGO CRANE

MODEL : **TM-ZT505**

## CRANE SPECIFICATIONS

CRANE CAPACITY

5,050 kg at 2.5 m (5-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 ----- 3 sheaves

WINCH

Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower

Single line pull ----- 9.90 kN{1,010 kgf}

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

Wire rope

Diameter x length ----- 8 mm x 97 m

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

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

Hook block ----- 2 sheaves



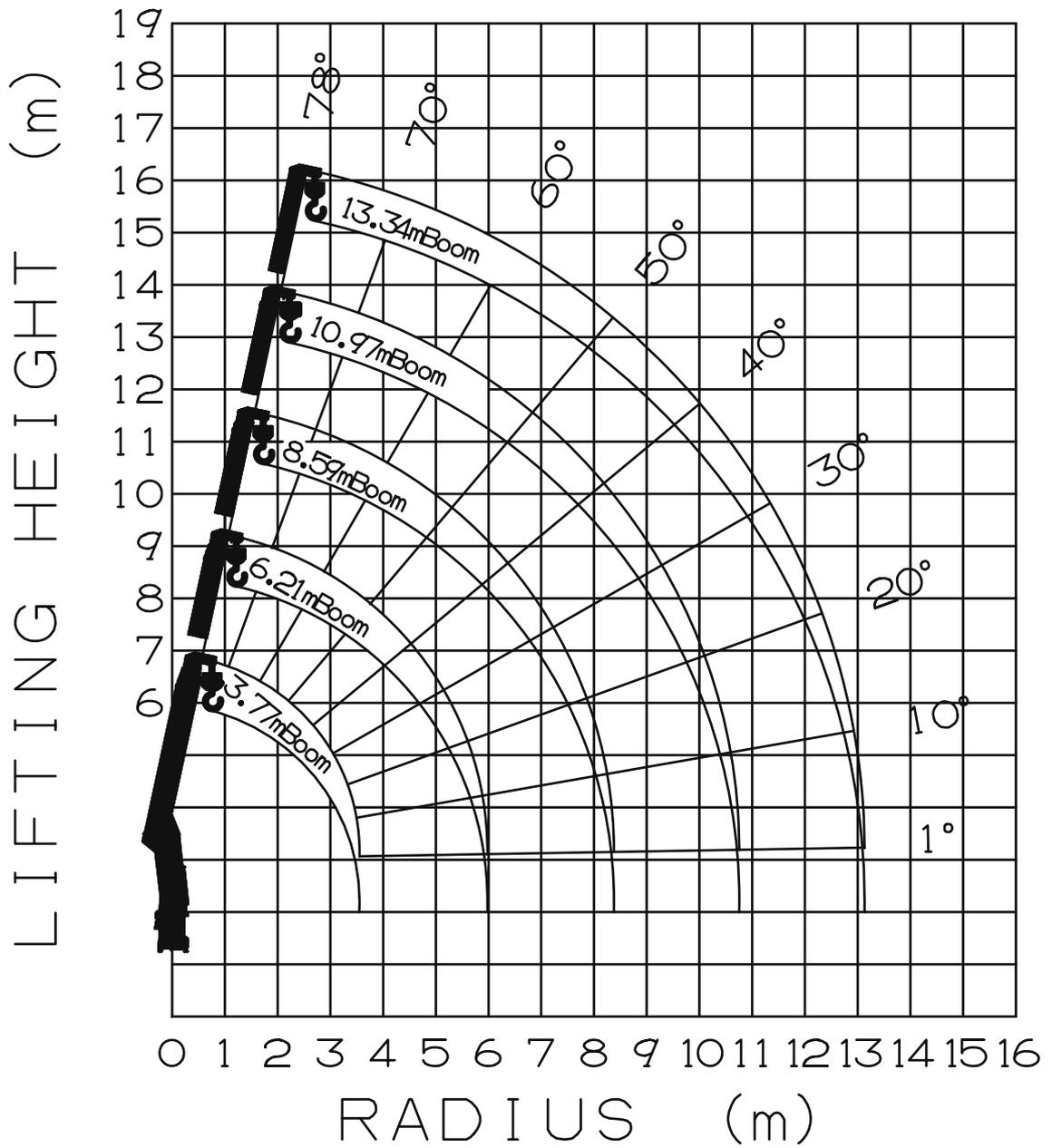
## RATED LIFTING CAPACITIES IN KILOGRAMS

### Crane Strength Rated Capacities

Load Radius	3.77 m Boom	Load Radius	6.21 m Boom	Load Radius	8.59 m Boom	Load Radius	10.97 m Boom	Load Radius	13.34 m Boom
2.5 m and below	5,050	2.85 m and below	4,050	3.6 m and below	3,130	4.5 m and below	2,030	5.0 m and below	1,330
2.85 m	4,050	3.6 m	3,180	3.9 m	2,930	5.0 m	1,830	6.0 m	1,100
3.55 m	3,230	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				

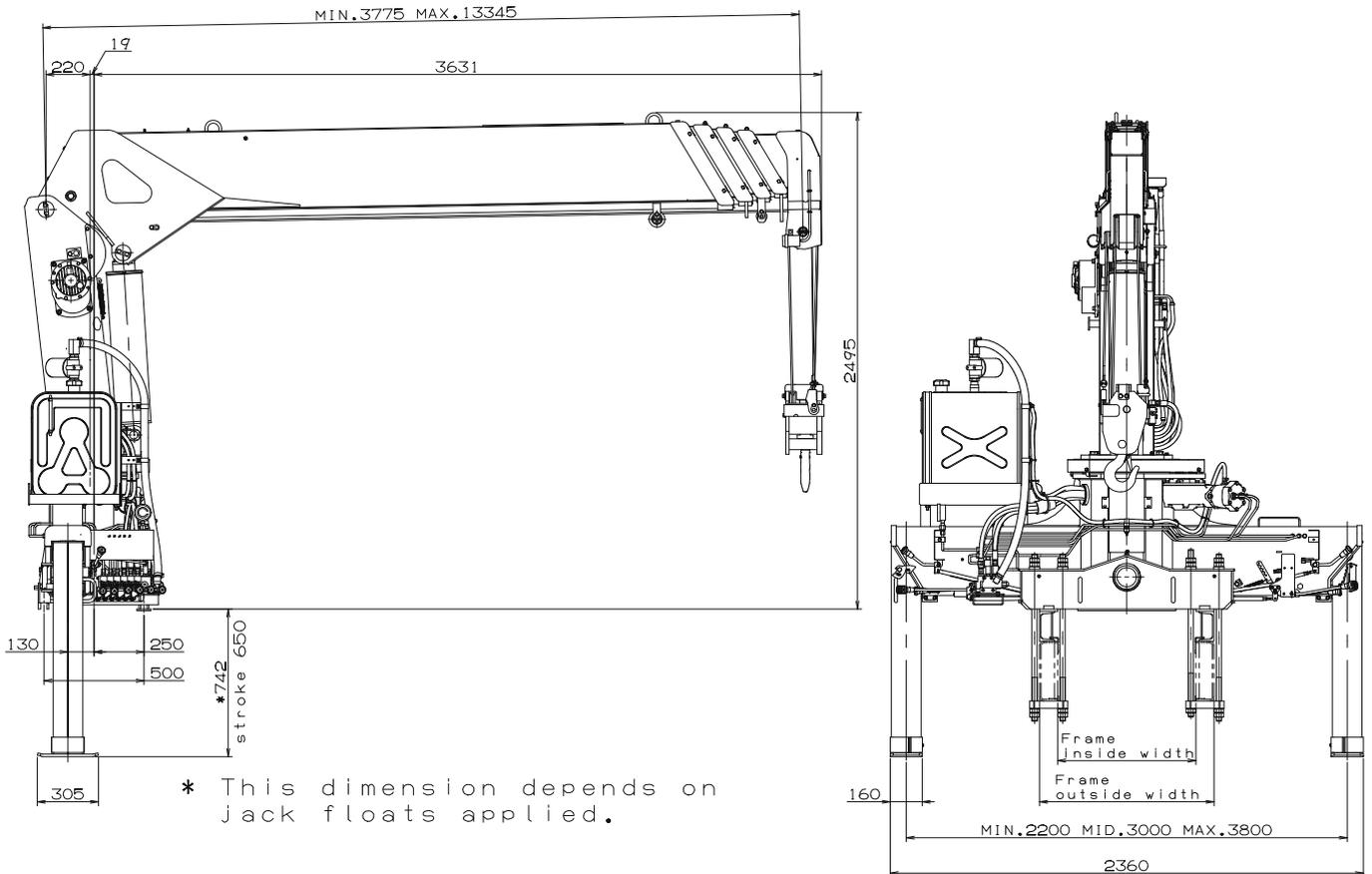
- NOTES : 1. The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
3. The mass of the hook (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. 10.97m boom means  $\sphericalangle$  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) --- 15,000 kg or more
- P.T.O. torque ----- 170 N·m{17.4 kgf·m} min.
- P.T.O. revolution ----- Approx. 1,200 min<sup>-1</sup>{rpm} max.
- Width for crane mounting ----- Approx. 750 mm min.
- Frame ----- Weight distribution and frame strength should be calculated 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 crane mounting base can be changed by combination of jack floats and crane bases)