

TADANO CARGO CRANE

MODEL : **TM-ZE303SLH**

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u>	3,030 kg at 2.6 m (4-part lines)
<u>BOOM</u>	Three-sectioned, fully hydraulic telescoping boom of pentagonal box construction Retracted length ----- 3.28 m Extended length ----- 7.71 m Extending speed ----- 4.42 m / 12 s Elevation ----- Elevated by a double-acting hydraulic cylinder Elevating speed ----- 1° to 78° / 7.5 s Boom point ----- 2 sheaves
<u>WINCH</u>	Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake Single line pull ----- 7.45 kN{760 kgf} Single line speed ----- 76 m/min (at 4th layer) Wire rope Diameter x length ----- 8 mm x 51 m Breaking strength ----- 43.1 kN{4.39 tf} Construction ----- 7 x 7 + 6 x WS(26) Hook block ----- 2 sheaves
<u>HOOK STOWING DEVICE</u>	Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

RATED LIFTING CAPACITIES IN KILOGRAMS

Crane Strength Rated Capacities

Load Radius	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.3 m and below	3,030	1,420	2.7 m and below	2,330
2.6 m	3,030	1,160	3.2 m	2,030
3.0 m	2,580	930	3.5 m	1,830
3.5 m	2,180	730	4.0 m	1,630
4.0 m	1,880	580	4.5 m	1,480
4.5 m	1,680	480	5.0 m	1,330
5.0 m	1,480	430	5.5 m	1,230
5.3 m	1,380	380	6.0 m	1,130
			6.5 m	1,050
			7.0 m	980
			7.5 m	930

- NOTES : 1. The mass of hook block (30kg), slings and all similarly used load handling devices must be added to the mass of load.
 2. 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.

Empty Chassis Rated Capacities

Table A

Load Radius	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.2 m and below	3,030	1,420	2.5 m and below	2,330
2.7 m	2,130	1,080	3.2 m	1,500
3.0 m	1,730	880	3.5 m	1,280
3.5 m	1,280	680	4.0 m	980
4.0 m	1,030	530	4.5 m	800
4.5 m	830	430	5.0 m	680
5.0 m	730	380	5.5 m	600
5.3 m	680	330	6.0 m	530
			6.5 m	480
			7.0 m	430
			7.5 m	380

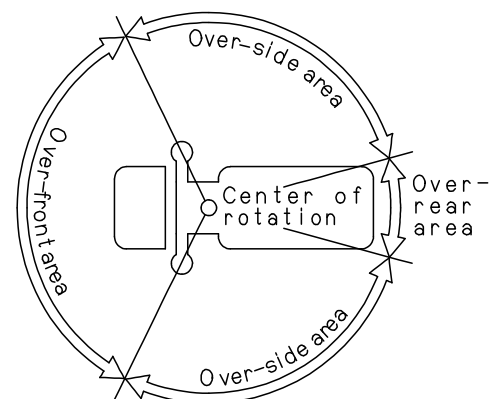
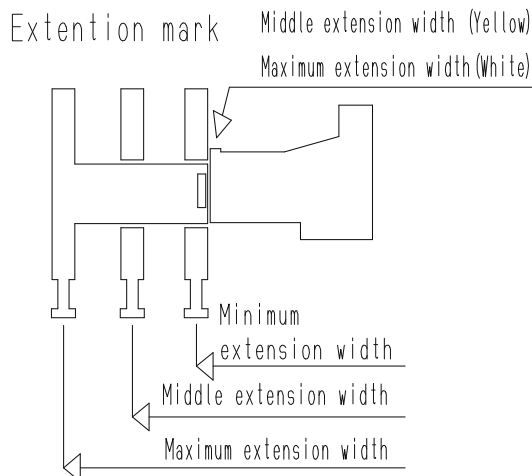
Table C

Load Radius	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.3 m and below	3,030	1,420	2.7 m and below	2,330
2.7 m	2,380	1,130	3.2 m	1,730
3.0 m	1,980	930	3.5 m	1,430
3.5 m	1,430	730	4.0 m	1,130
4.0 m	1,130	580	4.5 m	930
4.5 m	930	480	5.0 m	780
5.0 m	830	430	5.5 m	680
5.3 m	780	380	6.0 m	630
			6.5 m	530
			7.0 m	480
			7.5 m	430

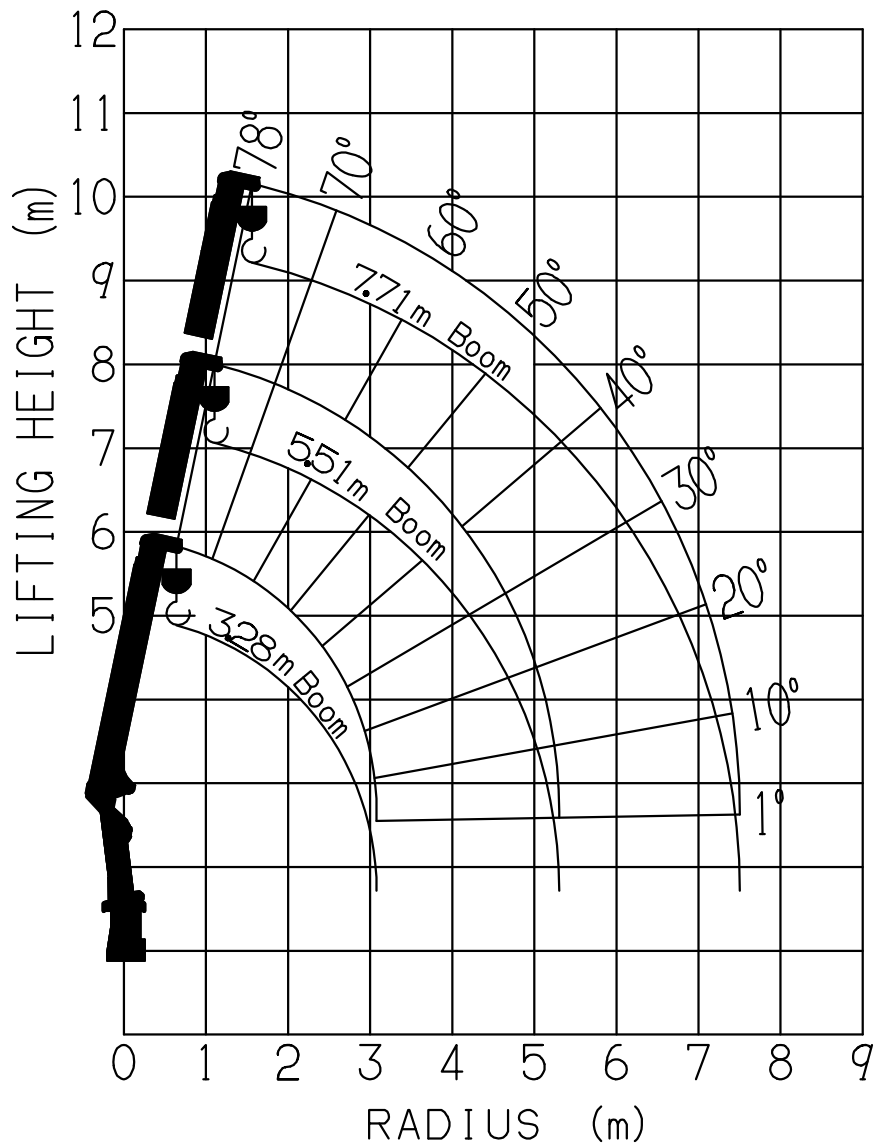
Table D

Load Radius	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.3 m and below	3,030	1,420	2.7 m and below	2,330
2.6 m	3,030	1,160	3.2 m	2,030
3.0 m	2,580	930	3.5 m	1,830
3.5 m	2,180	730	4.0 m	1,630
4.0 m	1,880	580	4.5 m	1,480
4.5 m	1,680	480	5.0 m	1,330
5.0 m	1,480	430	5.5 m	1,230
5.3 m	1,380	380	6.0 m	1,130
			6.5 m	1,050
			7.0 m	980
			7.5 m	930

- NOTES :
1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 2. The mass of hook block (30 kg), slings and all similarly used load lifting devices must be added to the mass of load.
 3. For boom lengths not shown, use the rated lifting capacity of next longer boom.
 4. When outriggers are extended to middle extension width, use the rated lifting capacities for outriggers are extended to minimum extension width.
 5. For boom lengths longer than 5.51m, extend outriggers to maximum extension width.
 6. Empty Chassis Rated Capacities table A , C and D depend on the types of chassis.
 7. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. These capacities for over-front area may lowered depending on the types of chassis.
 8. Never operate the crane and set up the outriggers, if the carrier inclines.

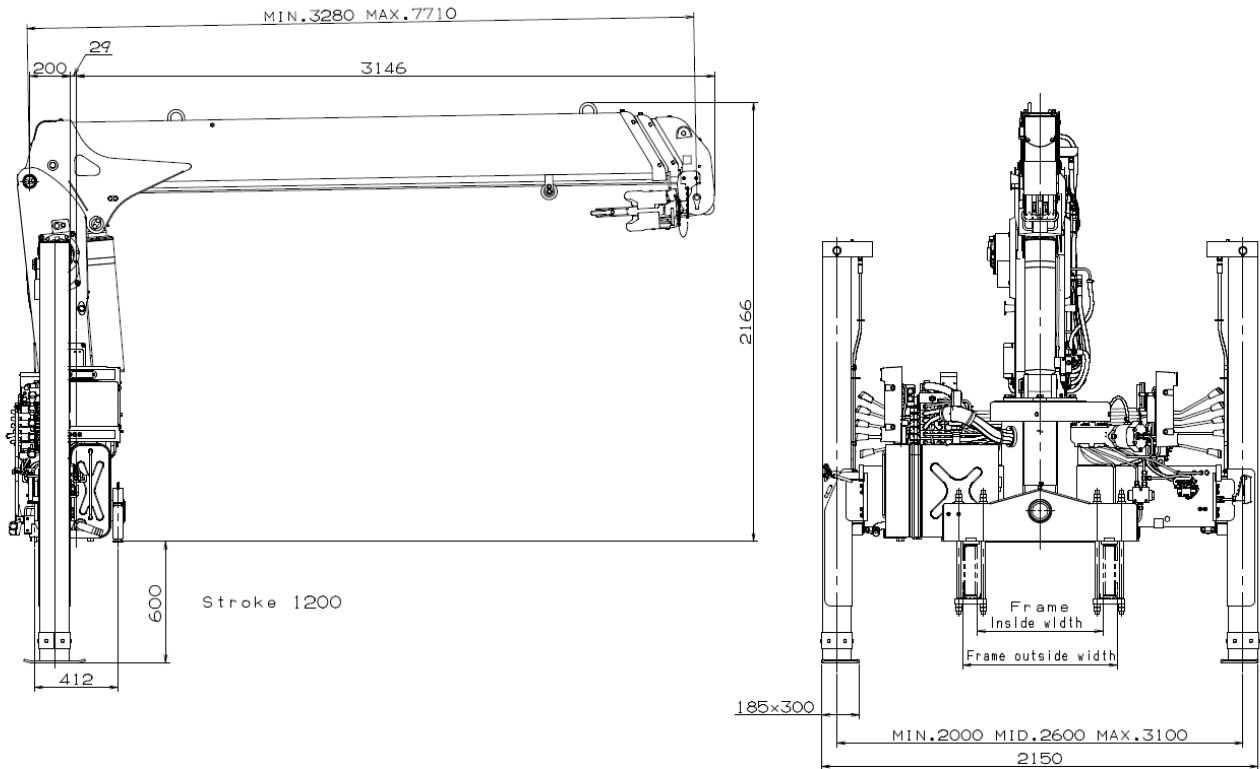


WORKING RANGE



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) ----- 8,000 to 17,000 kg

P.T.O. torque ----- 190 N-m{19.4 kgf-m} min.

P.T.O. revolution ----- Approx. 300 to 1,900 min^{-1} {rpm}

Width for crane mounting ----- Approx. 640 mm min.

Frame ----- Weight distribution and frame strength
should be calculated for each truck

Frame width range (inside to outside) ----- Approx. 610 to 860 mm

Frame height (ground to frame top) ----- Approx. 1,070 mm max.

(Height of crane mounting base can be
changed by combination of jack floats and
crane bases)