

TADANO CARGO CRANE

MODEL : **TM-ZE303HS**

CRANE SPECIFICATIONS

CRANE CAPACITY 3,000 kg at 2.7 m (4-part lines)

BOOM Three-sectioned, fully hydraulic telescoping boom of heptagonal box construction

Retracted length ----- 3.28 m

Extended length ----- 7.71 m

Extending speed ----- 4.43 m / 12 s

Elevation ----- Elevated by a double-acting hydraulic cylinder

Elevating speed ----- 1° to 78° / 7.5 s

Boom point ----- 2 sheaves

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

Single line pull ----- 7.35 kN{750 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

HOOK STOWING DEVICE Mechanically stowed beneath boom top portion

RATED LIFTING CAPACITIES IN KILOGRAMS

Crane Strength Rated Capacities

Load Radius	3.28 m / 5.51 m Boom	Load Radius	7.71 m Boom
2.4 m and below	3,000	2.7 m and below	2,370
2.7 m	3,000	3.2 m	2,050
3.0 m	2,550	3.5 m	1,900
3.5 m	2,150	4.0 m	1,650
4.0 m	1,850	4.5 m	1,500
4.5 m	1,650	5.0 m	1,350
5.0 m	1,450	5.5 m	1,250
5.31 m	1,350	6.0 m	1,150
		6.5 m	1,050
		7.0 m	970
		7.51 m	900

- NOTES :
- Capacities in above tables include slings and similarly used load lifting devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30kg)
 - 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, the types of the chassis and extension width of outriggers.

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
2.4 m and below	3,000	1,350	2.7 m and below	2,370
2.7 m	2,570	1,100	3.2 m	1,870
3.0 m	2,070	900	3.5 m	1,550
3.5 m	1,550	700	4.0 m	1,220
4.0 m	1,220	550	4.5 m	1,000
4.5 m	1,000	450	5.0 m	850
5.0 m	850	400	5.5 m	750
5.31 m	770	350	6.0 m	650
			6.5 m	570
			7.0 m	500
			7.51 m	450

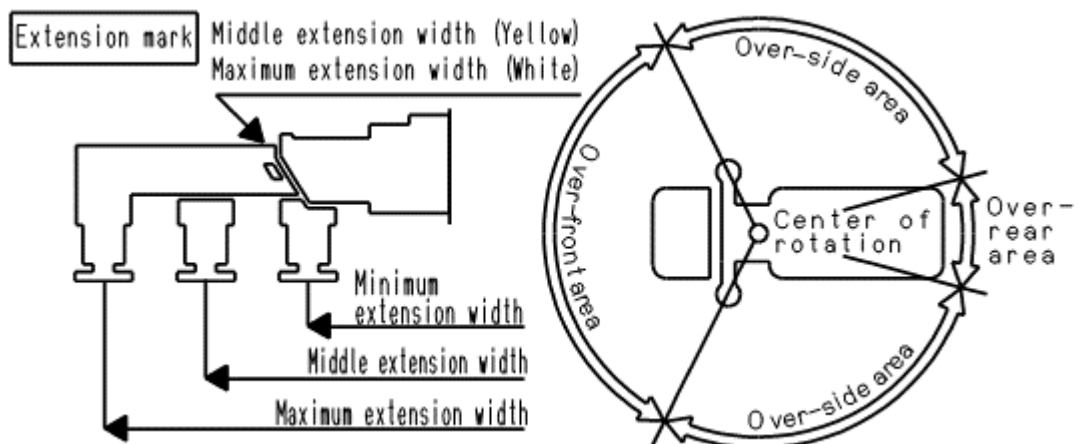
Table C

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
2.4 m and below	3,000	1,600	2.7 m and below	2,370
2.7 m	3,000	1,300	3.2 m	2,050
3.0 m	2,550	1,070	3.5 m	1,870
3.5 m	1,950	850	4.0 m	1,520
4.0 m	1,520	670	4.5 m	1,220
4.5 m	1,220	550	5.0 m	1,020
5.0 m	1,020	450	5.5 m	920
5.31 m	920	400	6.0 m	770
			6.5 m	700
			7.0 m	620
			7.51 m	550

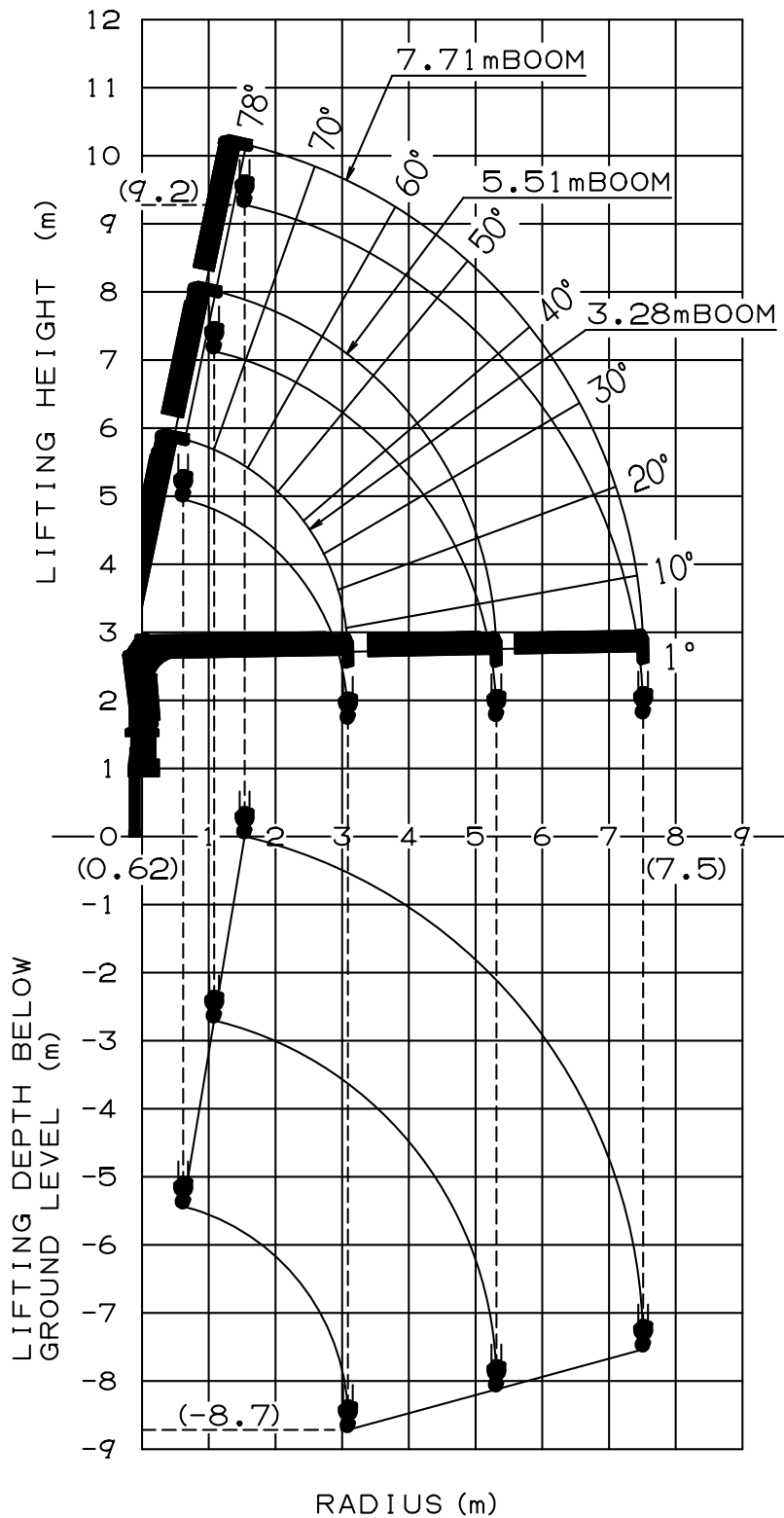
Table D

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
2.4 m and below	3,000	1,600	2.7 m and below	2,370
2.7 m	3,000	1,300	3.2 m	2,050
3.0 m	2,550	1,070	3.5 m	1,900
3.5 m	2,150	850	4.0 m	1,650
4.0 m	1,850	670	4.5 m	1,500
4.5 m	1,650	550	5.0 m	1,350
5.0 m	1,450	450	5.5 m	1,250
5.31 m	1,350	400	6.0 m	1,150
			6.5 m	1,050
			7.0 m	970
			7.51 m	900

- NOTES :
1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.
 2. Capacities in these tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block(30kg).
 3. When the outriggers are extended to the middle extension width, read the capacities rated for the minimum extension width.
 4. This load radius shows actual load radius which includes boom deflection.
 5. If the boom length exceeds the table value even a little, the performance is limited to the performance of the next boom length.
 6. For boom lengths longer than 5.51m, extend outriggers to maximum extension width.
 7. Empty Chassis Rated Capacities table A , C and D depend on the types of chassis.
 8. 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.

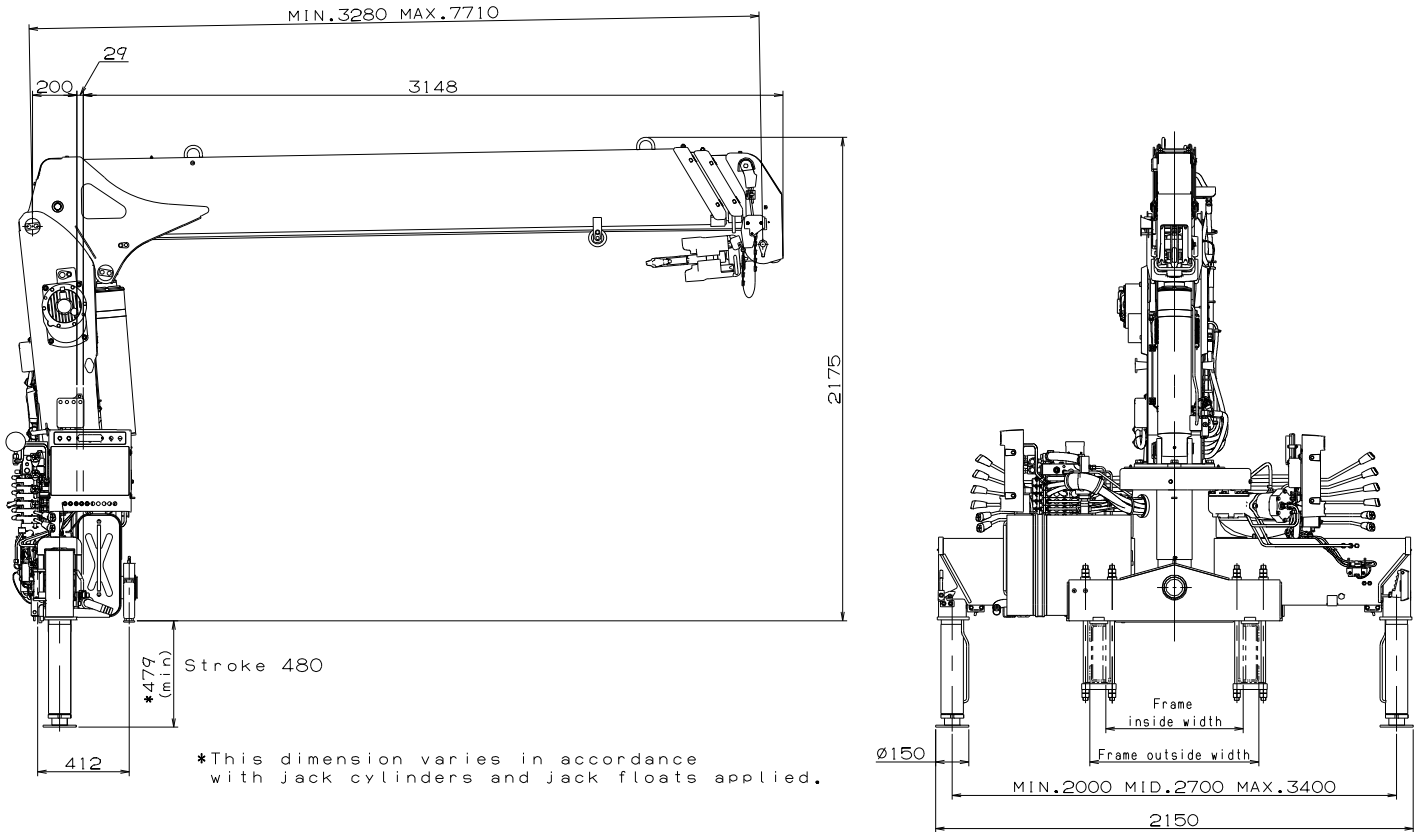


WORKING RANGE



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 14,500 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. 1,015 mm max.
(Height of crane mounting base can be changed by combination of jack floats and crane bases)