

TADANO CARGO CRANE

MODEL : **TM-ZE294HRS**

CRANE SPECIFICATIONS

CRANE CAPACITY

3,030 kg at 1.5 m (4-part lines)

BOOM

Four-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction

Retracted length ----- 3.17 m

Extended length ----- 8.9 m

Extending speed ----- 5.73 m / 13 s

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

Elevating speed ----- 1° to 76° / 6 s

Boom point ----- 2 sheaves

WINCH

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

Single line pull ----- 7.45 kN {760 kgf}

Single line speed ----- 68 m/min.(at 4th layer)

Wire rope

Diameter x length ---- 8 mm x 56 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	3.17 m / 5.12 m Boom		Load Radius	7.01 m Boom	Load Radius	8.9 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.5 m and below	3,030	1,580	2.2 m and below	1,880	3.0 m and below	1,030
2.0 m	2,330	980	2.5 m	1,680	3.5 m	930
2.5 m	1,880	680	3.0 m	1,430	4.0 m	830
3.0 m	1,500	480	3.5 m	1,230	5.0 m	680
3.5 m	1,250	380	4.0 m	1,080	6.0 m	580
4.0 m	1,080	280	4.5 m	930	7.0 m	480
4.5 m	930	250	5.0 m	830	8.0 m	400
4.92m	850	230	5.5 m	730	8.7 m	350
			6.0 m	650		
			6.81m	580		

- NOTES : 1. The mass of hook block (30kg), slings and all similarly used load handling devices must be added to the mass of the 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	3.17 m / 5.12 m Boom		Load Radius	7.01 m Boom	Load Radius	8.9 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.5 m and below	3,030	1,580	2.2 m and below	1,880	3.0 m and below	980
2.0 m	2,280	980	2.5 m	1,630	3.5 m	830
2.5 m	1,730	680	3.0 m	1,150	4.0 m	680
3.0 m	1,180	480	3.5 m	880	5.0 m	450
3.5 m	880	380	4.0 m	680	6.0 m	350
4.0 m	680	280	4.5 m	580	7.0 m	280
4.5 m	580	250	5.0 m	480	8.0 m	230
4.92m	530	230	5.5 m	400	8.7 m	200
			6.0 m	350		
			6.81m	300		

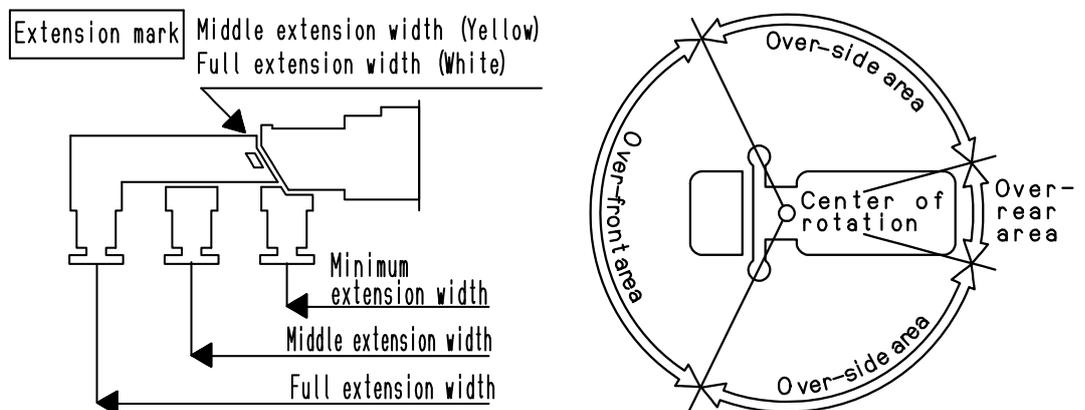
Table C

Load Radius	3.17 m / 5.12 m Boom		Load Radius	7.01 m Boom	Load Radius	8.9 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.5 m and below	3,030	1,580	2.2 m and below	1,880	3.0 m and below	980
2.0 m	2,280	980	2.5 m	1,630	3.5 m	880
2.5 m	1,830	680	3.0 m	1,330	4.0 m	780
3.0 m	1,380	480	3.5 m	1,030	5.0 m	550
3.5 m	1,030	380	4.0 m	800	6.0 m	430
4.0 m	830	280	4.5 m	680	7.0 m	330
4.5 m	680	250	5.0 m	580	8.0 m	280
4.92m	580	230	5.5 m	480	8.7 m	250
			6.0 m	430		
			6.81m	350		

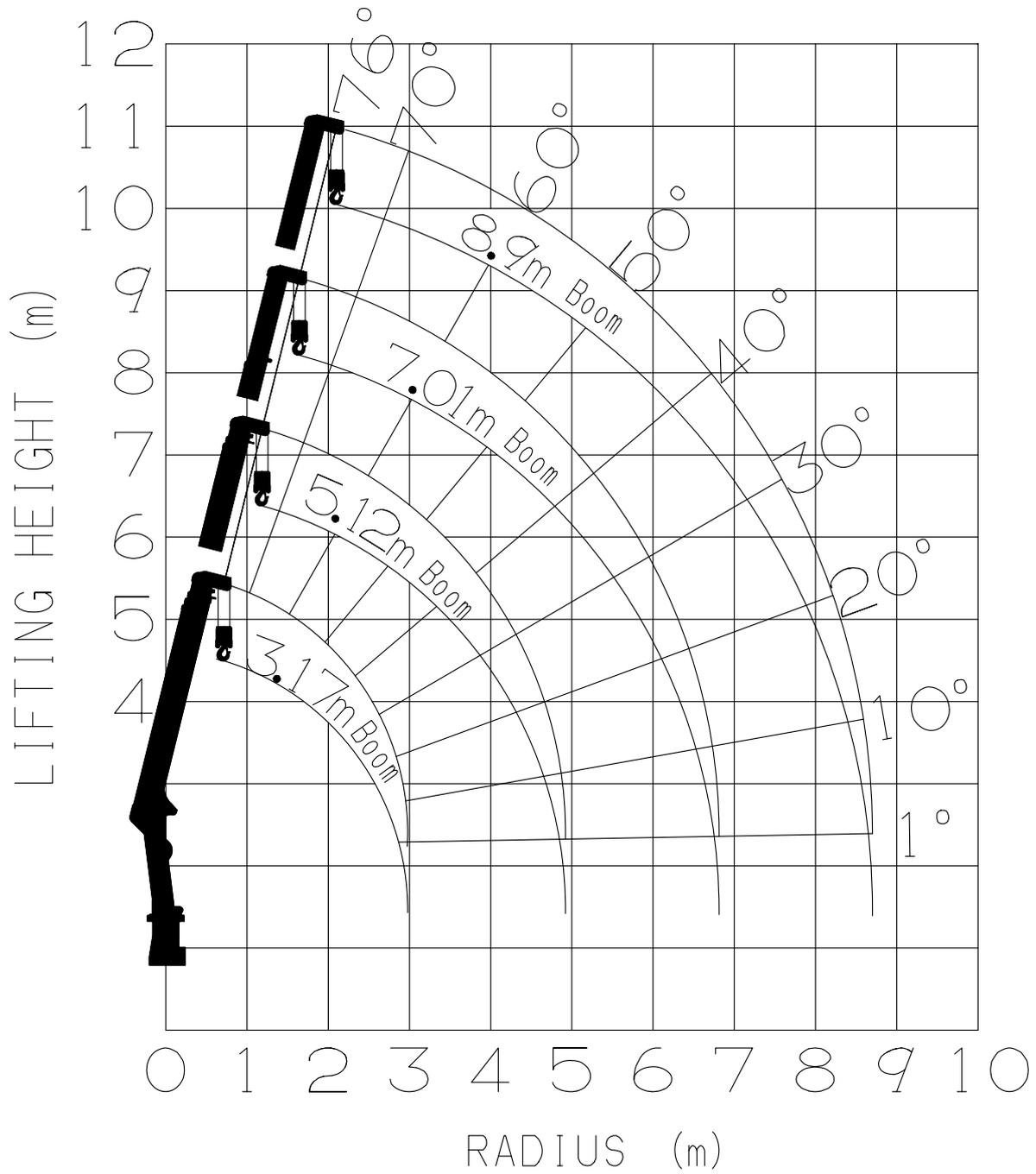
Table D

Load Radius	3.17 m / 5.12 m Boom		Load Radius	7.01 m Boom	Load Radius	8.9 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.5 m and below	3,030	1,580	2.2 m and below	1,880	3.0 m and below	1,030
2.0 m	2,330	980	2.5 m	1,680	3.5 m	930
2.5 m	1,880	680	3.0 m	1,430	4.0 m	830
3.0 m	1,500	480	3.5 m	1,230	5.0 m	680
3.5 m	1,250	380	4.0 m	1,080	6.0 m	580
4.0 m	1,080	280	4.5 m	930	7.0 m	480
4.5 m	930	250	5.0 m	830	8.0 m	400
4.92m	850	230	5.5 m	730	8.7 m	350
			6.0 m	650		
			6.81m	580		

- 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 handling 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 5.12m, extend outriggers to full extension width.
 6. When the boom length is 7.01 m, a half of the \sphericalangle mark on lateral face of the 3rd boom section is exposed out of the 2nd boom section.
 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 be lowered depending on the types of chassis.



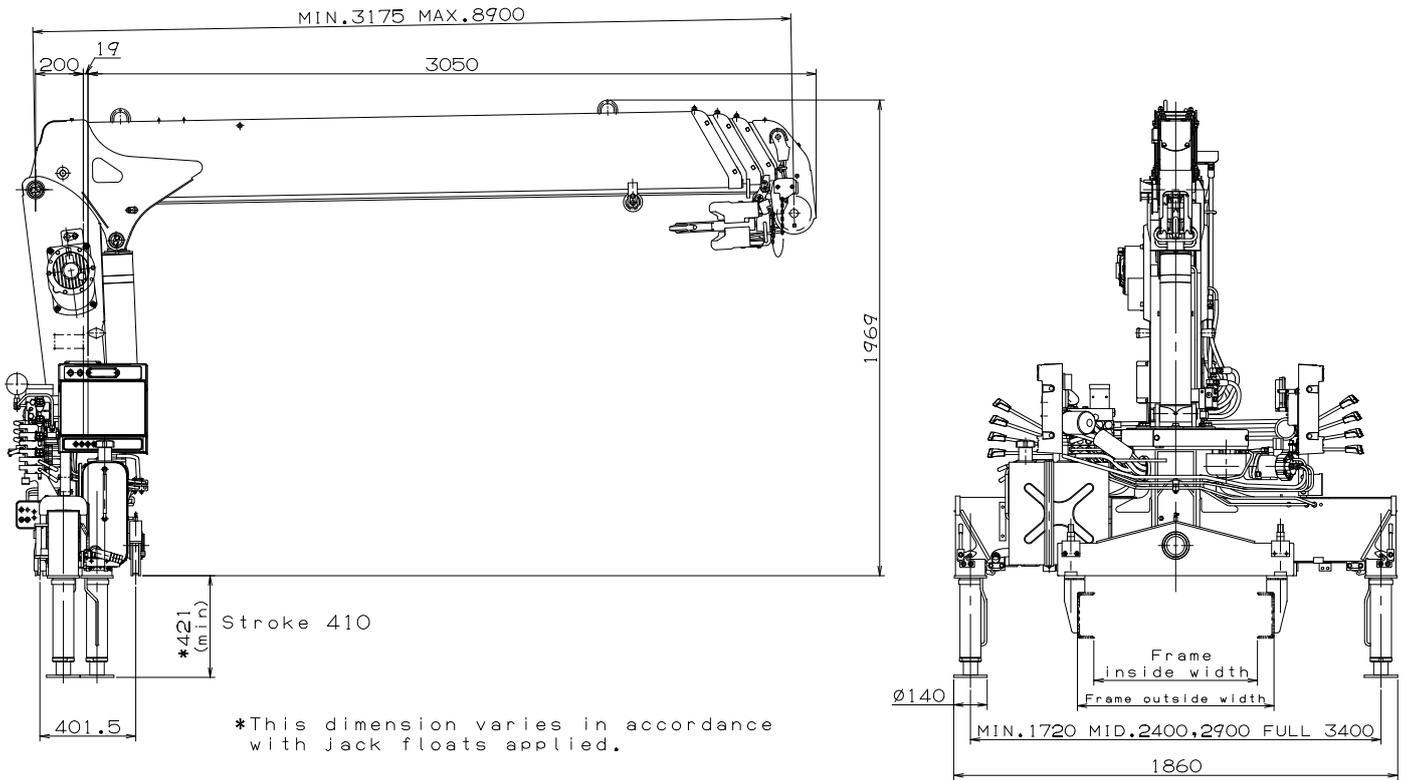
WORKING RANGE



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) ----- 4,500 to 8,000 kg
- P.T.O. torque -----140 N-m {14.3 kgf-m} min.
- P.T.O. revolution ----- Approx. 300 to 1,700 min⁻¹ {rpm}
- Width for crane mounting ----- Approx. 605 mm min.
- Frame ----- Weight distribution and frame strength
should be calculated for each truck
- Frame width range (inside to outside) ----- Approx. 680 to 860 mm
- Frame height (ground to frame top) ----- Approx. 1,010 mm max.
(Height of crane mounting base can be
changed by combination of jack floats and
crane bases)