

TADANO CARGO CRANE

MODEL : **TM-ZE294HS**

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u>	3,000 kg at 1.5 m (4-part lines)
<u>BOOM</u>	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
<u>WINCH</u>	Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake Single line pull ----- 7.35 kN {750 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
<u>HOOK STOWING DEVICE</u>	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	3,000	1,550	2.2 m and below	1,850	3.0 m and below	1,000
2.0 m	2,300	950	2.5 m	1,650	3.5 m	900
2.5 m	1,850	650	3.0 m	1,400	4.0 m	800
3.0 m	1,470	450	3.5 m	1,200	5.0 m	650
3.5 m	1,220	350	4.0 m	1,050	6.0 m	550
4.0 m	1,050	250	4.5 m	900	7.0 m	450
4.5 m	900	220	5.0 m	800	8.0 m	370
4.92m	820	200	5.5 m	700	8.7 m	320
			6.0 m	620		
			6.81m	550		

- NOTES :
1. Capacities in above 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)
 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	3,000	1,550	2.2 m and below	1,850	3.0 m and below	950
2.0 m	2,250	950	2.5 m	1,600	3.5 m	800
2.5 m	1,700	650	3.0 m	1,120	4.0 m	650
3.0 m	1,150	450	3.5 m	850	5.0 m	420
3.5 m	850	350	4.0 m	650	6.0 m	320
4.0 m	650	250	4.5 m	550	7.0 m	250
4.5 m	550	220	5.0 m	450	8.0 m	200
4.92m	500	200	5.5 m	370	8.7 m	170
			6.0 m	320		
			6.81m	270		

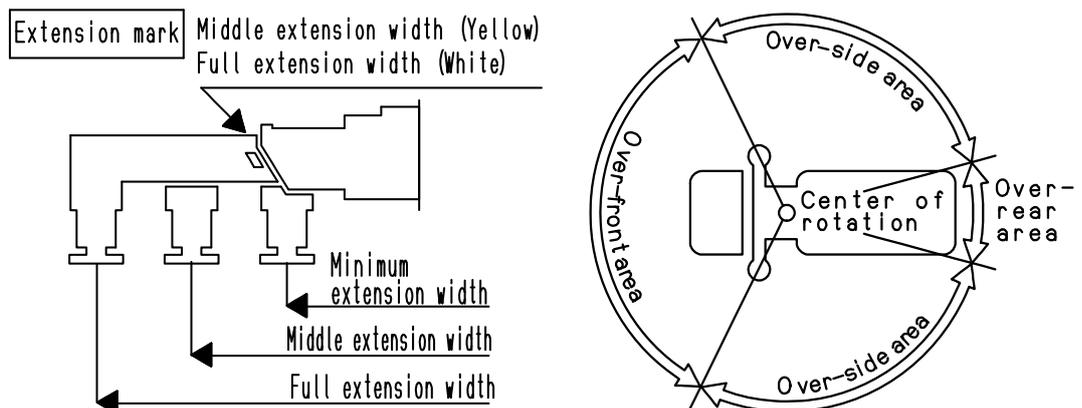
Table C

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	3,000	1,550	2.2 m and below	1,850	3.0 m and below	950
2.0 m	2,250	950	2.5 m	1,600	3.5 m	850
2.5 m	1,800	650	3.0 m	1,300	4.0 m	750
3.0 m	1,350	450	3.5 m	1,000	5.0 m	520
3.5 m	1,000	350	4.0 m	770	6.0 m	400
4.0 m	800	250	4.5 m	650	7.0 m	300
4.5 m	650	220	5.0 m	550	8.0 m	250
4.92m	550	200	5.5 m	450	8.7 m	220
			6.0 m	400		
			6.81m	320		

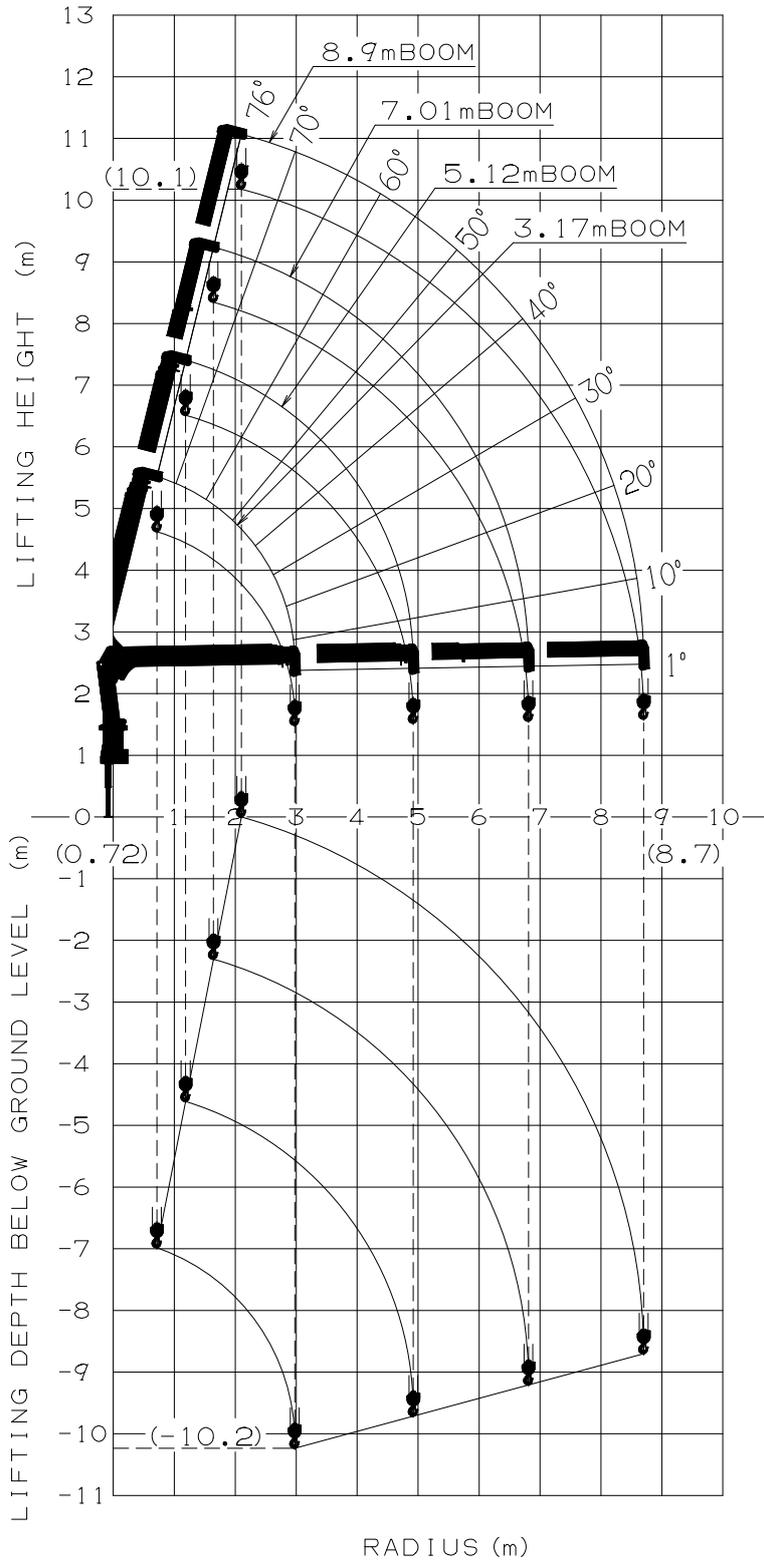
Table D

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	3,000	1,550	2.2 m and below	1,850	3.0 m and below	1,000
2.0 m	2,300	950	2.5 m	1,650	3.5 m	900
2.5 m	1,850	650	3.0 m	1,400	4.0 m	800
3.0 m	1,470	450	3.5 m	1,200	5.0 m	650
3.5 m	1,220	350	4.0 m	1,050	6.0 m	550
4.0 m	1,050	250	4.5 m	900	7.0 m	450
4.5 m	900	220	5.0 m	800	8.0 m	370
4.92m	820	200	5.5 m	700	8.7 m	320
			6.0 m	620		
			6.81m	550		

- 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 (30 kg).
 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.



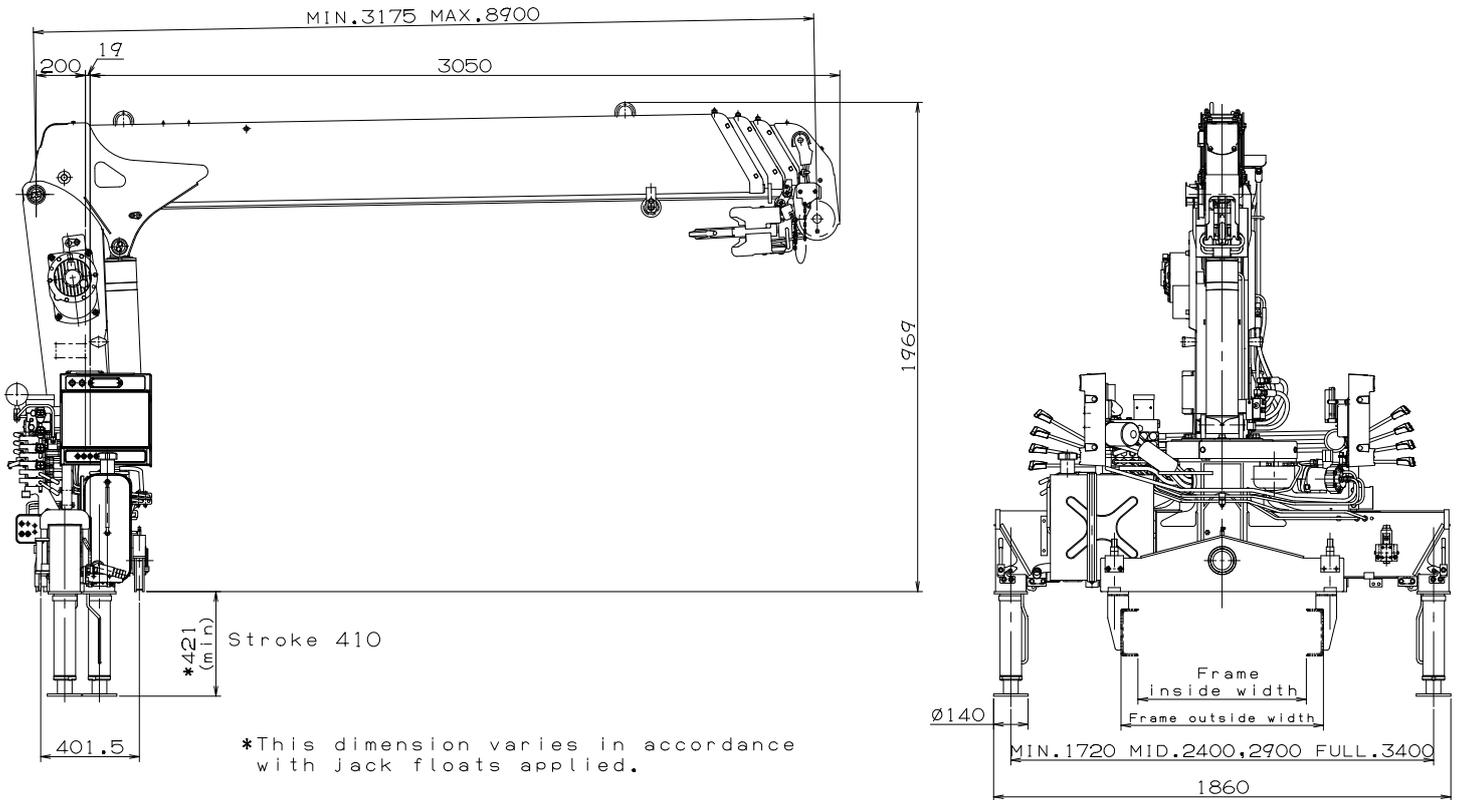
WORKING RANGE



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)