

TADANO CARGO CRANE

MODEL: TM-ZE295HS

CRANE SPECIFICATIONS

CRANE CAPACITY	3,000 kg at 1.4 m (4-part lines)
BOOM	Five-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction Retracted length 3.13 m Extended length 10.8 m Extending speed 7.67 m / 15.5 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 and cable follower 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 66 m Breaking strength43.1 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

Specifications are subject to change without notice.

<u>SWING</u>	Hydraulic motor driven Worm gear speed reduction Continuous 360° full circle swing on ball bearing slew ring Automatic swing lock Swing speed 2.5 min ⁻¹ {rpm}
<u>OUTRIGGERS</u>	Manually extended sliders and hydraulically extended jacks Integral with crane frame Power up and down Extension width Min. 1,720 mm Mid. 2,400 mm, 2,900 mm Full 3,400 mm
<u>HYDRAULICS</u>	Hydraulic pumpSingle gear pumpHydraulic motorsAxial piston type for winch Axial piston type for swingControl valvesMultiple control valves with integral safety valveOil tank capacityapprox. 22 L
SAFETY DEVICES	AML(Automatic Moment Limiter) Load indication Load moment ratio to rated load indication Warning alarm Over load limiter WHL(Working Height Limiter) Load meter Load indicator Over-unwinding prevention Terminal for emergency stop switch Over-winding alarm Hoisting limiter P.T.O indicator lamp Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge

<u>CRANE MASS</u> Approx. 1,135 kg (includes standardized mounting parts)

NOTE : Operating speeds of the crane are guaranteed under the condition that the pump delivery is 53 L /min.

RATED LIFTING CAPACITIES IN KILOGRAMS

	3.13 m / 5.07 m Boom			7.0 m Boom		8.9 m Boom		10.8 m Boom
Load Radius	Extension width of outriggers		Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full		Full
1.45m and below	3,000	1,550	2.2 m and below	1,850	3.0 m and below	950	4.0 m and below	550
2.0 m	2,150	950	2.5 m	1,650	3.5 m	870	4.5 m	500
2.5 m	1,700	600	3.0 m	1,400	4.0 m	800	5.0 m	450
3.0 m	1,400	450	3.5 m	1,150	5.0 m	650	6.0 m	370
3.5 m	1,200	300	4.0 m	1,000	6.0 m	550	7.0 m	300
4.0 m	1,050	250	4.5 m	850	7.0 m	450	8.0 m	250
4.5 m	900	200	5.0 m	750	8.0 m	350	9.0 m	220
4.87m	800	170	5.5 m	650	8.7 m	320	10.0 m	200
			6.0 m	600			10.6 m	180
			6.8 m	500				

Crane Strength Rated Capacities

- 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.

Table C	T							
Load Radius	3.13 m / 5.07 m Boom		Load Radius	7.0 m Boom	oom Insion Load Ith of Radius	8.9 m Boom	Load Radius	10.8 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
1.4 m and below	3,000	1,550	2.2 m and below	1,700	3.0 m and below	900	4.0 m and below	450
2.0 m	2,100	950	2.5 m	1,500	3.5 m	800	4.5 m	400
2.5 m	1,700	600	3.0 m	1,250	4.0 m	700	5.0 m	350
3.0 m	1,300	450	3.5 m	950	5.0 m	450	6.0 m	270
3.5 m	950	300	4.0 m	750	6.0 m	350	7.0 m	230
4.0 m	750	250	4.5 m	600	7.0 m	250	8.0 m	200
4.5 m	600	200	5.0 m	450	8.0 m	200	9.0 m	170
4.87m	520	170	5.5 m	400	8.7 m	170	10.0 m	150
			6.0 m	350			10.6 m	120
			6.8 m	270				

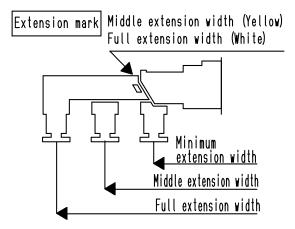
Empty Chassis Rated Capacities

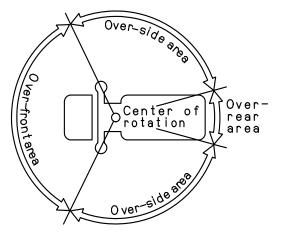
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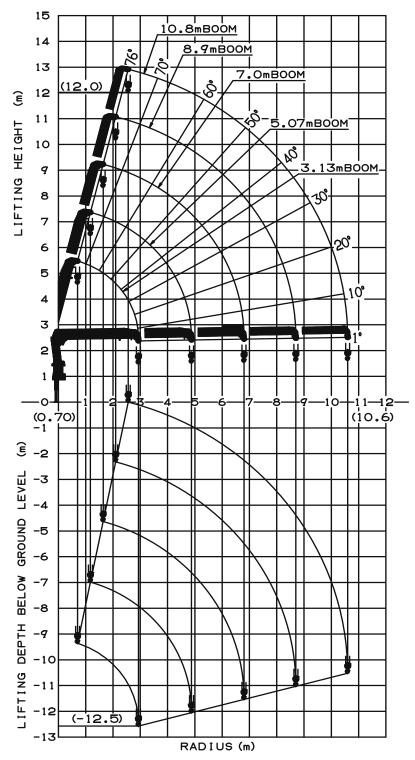
				7.0 m		8.9 m		10.8 m
Load Radius	3.13 m / 5.07 m Boom		Load Radius	Boom		Boom	Load Radius	Boom
	Extension width of outriggers				Load Radius	Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full		Full
1.45m and below	3,000	1,550	2.2 m and below	1,850	3.0 m and below	950	4.0 m and below	550
2.0 m	2,150	950	2.5 m	1,650	3.5 m	870	4.5 m	500
2.5 m	1,700	600	3.0 m	1,400	4.0 m	800	5.0 m	450
3.0 m	1,400	450	3.5 m	1,150	5.0 m	650	6.0 m	370
3.5 m	1,200	300	4.0 m	1,000	6.0 m	550	7.0 m	300
4.0 m	1,050	250	4.5 m	850	7.0 m	450	8.0 m	250
4.5 m	900	200	5.0 m	750	8.0 m	350	9.0 m	220
4.87m	800	170	5.5 m	650	8.7 m	320	10.0 m	200
			6.0 m	600			10.6 m	180
			6.8 m	500				

Table D

- 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. 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 5.07m, extend outriggers to full extension width.
 - 6. When the boom length is 8.9 m, a half of the *□* mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
 - 7. Empty Chassis Rated Capacities table 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.





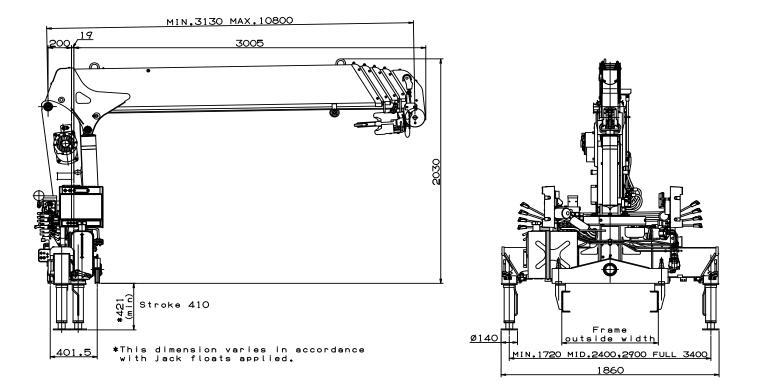


WORKING RANGE

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 outside width range	Approx. 680 to 860 mm
Frame height (ground to frame top)	- Approx. 1010 mm max.
	(Height of crane mounting base can be
	changed by combination of jack floats and
	crane bases)