





TADANO CARGO CRANE

MODEL: TM-ZE295HS

CRANE SPECIFICATIONS

CRANE CAPACITY 3,000 kg at 1.5 m (4-part lines)

BOOM Five-sectioned, fully powered partly synchronized telescoping

boom of heptagonal 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 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

Specifications are subject to change without notice.

<u>SLEWING</u> Hydraulic motor driven Worm gear speed reduction Continuous

360° full circle slewing on ball bearing slew ring

Automatic slewing lock

Slewing speed ----- 2.5 min⁻¹ {rpm}

OUTRIGGERS 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

Max.3,400 mm

<u>HYDRAULICS</u> Hydraulic pump ----- Single gear pump

Hydraulic motors ----- Axial piston type for winch

Axial piston type for slewing

Control valves ----- Multiple control valves with integral

safety valve

Oil tank capacity ----- approx. 22 L

<u>SAFETY DEVICES</u> AML(Automatic Moment Limiter)

Load indication

Load moment ratio to rated load indication

Warning alarm

Over load limiter(stop)

WHL(Working Height Limiter)

Load meter

Load indicator

Over-unwinding prevention

Terminal for emergency stop switch

Over-winding alarm

Anti-two-block device

Hook safety latch

Hydraulic safety valves, check valves and holding valves

Level gauge

CRANE MASS Approx. 1,145 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

Crane Strength Rated Capacities

Load Radius	3.13 m / 5.07 m Boom	Load Radius	7.0 m Boom	Load Radius	8.9 m Boom	Load Radius	10.8 m Boom
1.5 m and below	3,000	2.2 m and below	1,850	3.0 m and below	1,000	4.0 m and below	650
2.0 m	2,150	2.5 m	1,650	3.5 m	920	4.5 m	600
2.5 m	1,700	3.0 m	1,400	4.0 m	800	5.0 m	550
3.0 m	1,400	3.5 m	1,150	5.0 m	650	6.0 m	450
3.5 m	1,200	4.0 m	1,000	6.0 m	550	7.0 m	370
4.0 m	1,050	4.5 m	850	7.0 m	470	8.0 m	320
4.5 m	900	5.0 m	750	8.0 m	400	9.0 m	270
4.87m	800	5.5 m	650	8.7 m	370	10.0 m	220
		6.0 m	600			10.6 m	200
		6.8 m	500		'		

- NOTES: 1. 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)
 - 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, the types of the chassis and extension width of outriggers.

Empty Chassis Rated Capacities

Table C

Table C								
Load Radius	3.13 m / 5.07 m Boom			7.0 m Boom		8.9 m Boom		10.8 m Boom
	Extension width of outriggers		Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Maximum	Minimum		Maximum		Maximum		Maximum
1.5 m and below	3,000	1,550	2.2 m and below	1,850	3.0 m and below	1,000	4.0 m and below	650
2.0 m	2,150	950	2.5 m	1,650	3.5 m	870	4.5 m	570
2.5 m	1,700	600	3.0 m	1,370	4.0 m	750	5.0 m	500
3.0 m	1,400	450	3.5 m	1,100	5.0 m	520	6.0 m	370
3.5 m	1,100	350	4.0 m	820	6.0 m	370	7.0 m	270
4.0 m	820	250	4.5 m	650	7.0 m	270	8.0 m	200
4.5 m	650	200	5.0 m	520	8.0 m	200	9.0 m	170
4.87m	550	170	5.5 m	420	8.7 m	170	10.0 m	150
			6.0 m	370			10.6 m	120

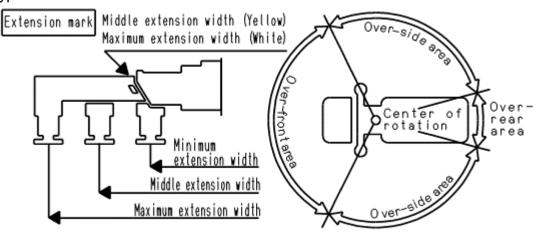
270

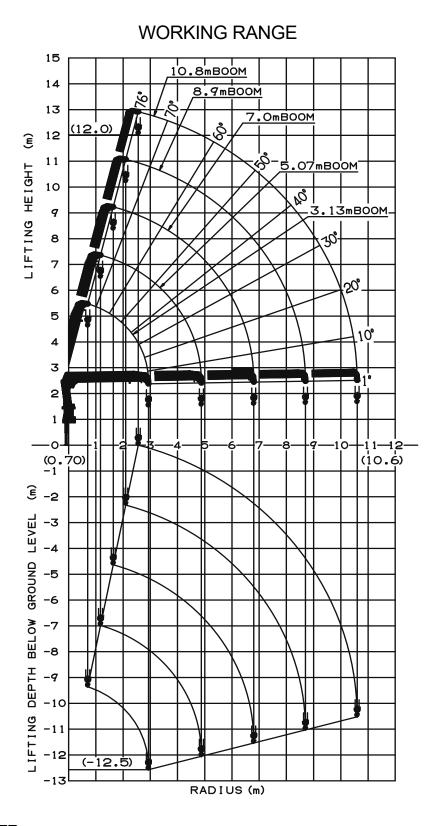
6.8 m

Table D

abic b								
	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
	Maximum	Minimum		Maximum		Maximum		Maximum
1.5 m and below	3,000	1,550	2.2 m and below	1,850	3.0 m and below	1,000	4.0 m and below	650
2.0 m	2,150	950	2.5 m	1,650	3.5 m	920	4.5 m	600
2.5 m	1,700	600	3.0 m	1,400	4.0 m	800	5.0 m	550
3.0 m	1,400	450	3.5 m	1,150	5.0 m	650	6.0 m	450
3.5 m	1,200	350	4.0 m	1,000	6.0 m	550	7.0 m	370
4.0 m	1,050	250	4.5 m	850	7.0 m	470	8.0 m	320
4.5 m	900	200	5.0 m	750	8.0 m	400	9.0 m	270
4.87m	800	170	5.5 m	650	8.7 m	370	10.0 m	220
			6.0 m	600			10.6 m	200
			68 m	500				

- 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 5.07m, extend outriggers to maximum extension width.
 - 7. When the boom length is 8.9 m, a half of the \Box mark on lateral face of the 4th boom section is exposed out of the 3rd boom section.
 - 8. Empty Chassis Rated Capacities table C and D depend on the types of chassis.
 - 9. 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.

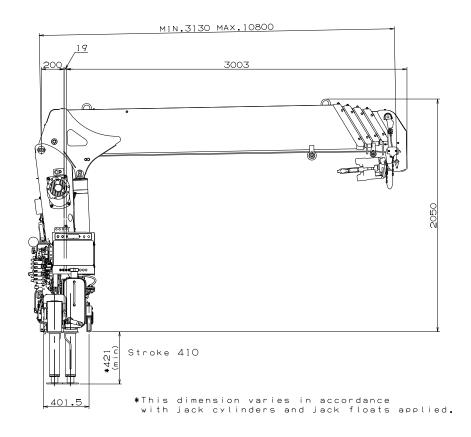


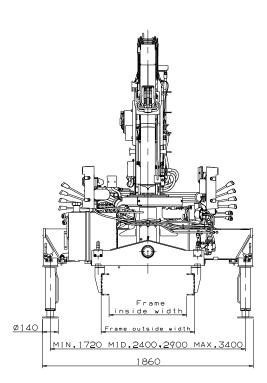


NOTE:

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