

 SPEC. SHEET No. TM-26Z-4-03115/TA-02

 DATE
 June, 2010

TADANO CARGO CRANE

MODEL: TM-ZE265HRS

CRANE SPECIFICATIONS

CRANE CAPACITY	2,630 kg at 1.5 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 6.47 kN {660 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 Full 3,000 mm
<u>HYDRAULICS</u>	Hydraulic pumpSingle gear pumpHydraulic motorsAxial piston type for winchAxial piston type for swingControl valvesMultiple control valves with integral
	Safety valve Oil tank capacity approx. 22 L
RADIO CONTROLLER	Model : RCS-F (Approved by NCC LP0002) Control functions of boom telescoping, hoisting up and down, boom elevating, swing, acceleration, speed mode selection, Hook-in, Hook-out, horn and emergency stop Frequency 5 frequencies in 433 MHz band Operating power supply Transmitter 6V DC, Dry battery R6P(SUM-3) x 4 Control unit 24V DC, Vehicle battery Transmitter mass Approx. 569 g (includes batteries)
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 Emergency stop switch on radio controller 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
CRANE MASS	Approx. 1,095 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		n width of ggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full		Full
1.5 m and below	2,630	1,580	2.8 m and below	1,280	3.7 m and below	700	4.5 m and below	480
1.8 m	2,180	1,130	3.0 m	1,230	4.0 m	700	5.0 m	430
2.0 m	1,980	880	3.5 m	1,080	5.0 m	550	6.0 m	330
2.5 m	1,580	580	4.0 m	930	6.0 m	450	7.0 m	280
3.0 m	1,330	430	4.5 m	800	7.0 m	380	8.0 m	230
3.5 m	1,130	280	5.0 m	700	8.0 m	350	9.0 m	200
4.0 m	980	230	5.5 m	630	8.7 m	330	10.0m	180
4.87m	830	150	6.0 m	580			10.6m	160
			6.8 m	530				

Crane Strength Rated Capacities

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.

	3.13 m / 5.07 m Boom		Load Radius	7.0 m Boom	Load Radius	8.9 m Boom		10.8 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers		width of		Extension width of outriggers
	Full	Minimum		Full		Full		Full
1.5 m and below	2,630	1,580	2.8 m and below	1,230	3.7 m and below	680	4.5 m and below	380
1.8 m	2,130	1,130	3.0 m	1,030	4.0 m	580	5.0 m	330
2.0 m	1,930	880	3.5 m	730	5.0 m	380	6.0 m	250
2.5 m	1,530	580	4.0 m	580	6.0 m	280	7.0 m	210
3.0 m	1,030	430	4.5 m	480	7.0 m	230	8.0 m	180
3.5 m	730	280	5.0 m	400	8.0 m	180	9.0 m	150
4.0 m	580	230	5.5 m	330	8.7 m	150	10.0m	130
4.87m	430	150	6.0 m	280			10.6m	100
			6.8 m	230				

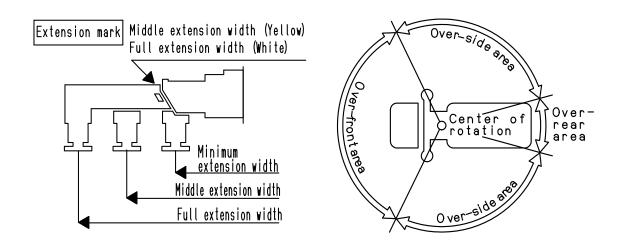
Empty Chassis Rated Capacities

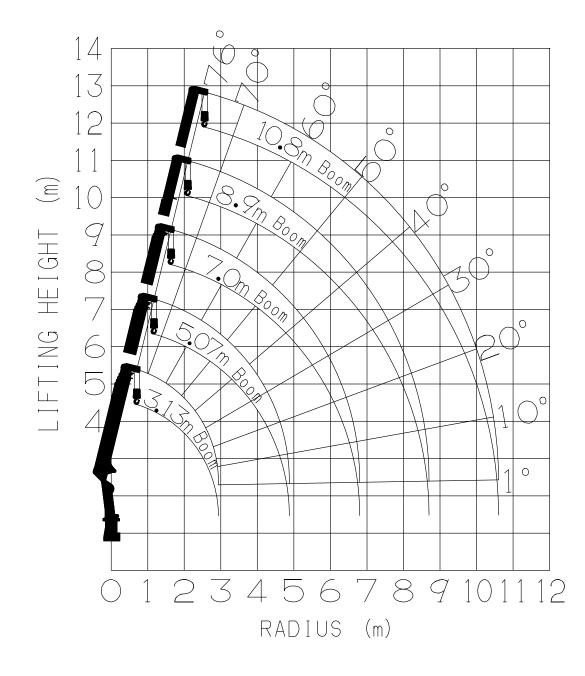
Table C

	3.13 m / 5.07 m Boom			7.0 m Boom		8.9 m Boom		10.8 m Boom
Load Radius		n width of ggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers	Load Radius	Extension width of outriggers
	Full	Minimum		Full		Full		Full
1.5 m and below	2,630	1,580	2.8 m and below	1,280	3.7 m and below	700	4.5 m and below	480
1.8 m	2,180	1,130	3.0 m	1,230	4.0 m	700	5.0 m	430
2.0 m	1,980	880	3.5 m	1,080	5.0 m	550	6.0 m	330
2.5 m	1,580	580	4.0 m	930	6.0 m	450	7.0 m	280
3.0 m	1,330	430	4.5 m	800	7.0 m	380	8.0 m	230
3.5 m	1,130	280	5.0 m	700	8.0 m	350	9.0 m	200
4.0 m	980	230	5.5 m	630	8.7 m	330	10.0m	180
4.87m	830	150	6.0 m	580			10.6m	160
			6.8 m	530				

Table D

- 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 5.07m, extend outriggers to full extension width.
 - 6. When the boom length is 8.9 m, a half of the *r* 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.



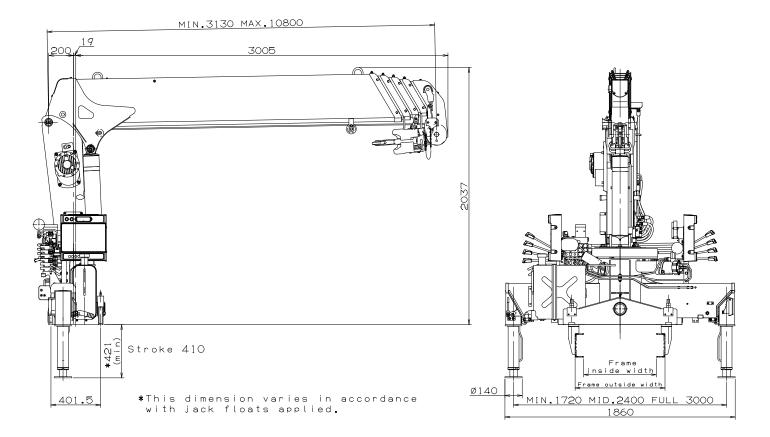


WORKING RANGE

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 width range (inside to outside)	Approx. 680 to 790 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)