

TADANO CARGO CRANE

MODEL: TM-ZE303SLH

CRANE SPECIFICATIONS

CRANE CAPACITY 3,030 kg at 2.6 m (4-part lines)

BOOM Three-sectioned, fully hydraulic telescoping boom of pentagonal

box construction

Retracted length ----- 3.28 m Extended length ----- 7.71 m

Extending speed ----- 4.42 m / 12 s

Elevation ----- Elevated by a double-acting

hydraulic cylinder

Elevating speed ----- 1° to $78^{\circ}/7.5$ s

Boom point ----- 2 sheaves

<u>WINCH</u> Hydraulic motor driven Spur gear speed reduction, provided with

mechanical brake

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

Single line speed ----- 76 m/min (at 4th layer)

Wire rope

Diameter x length ----- 8 mm x 51 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

<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. 2,000 mm

Mid. 2,600 mm Max. 3,100 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. 31 L

SAFETY DEVICES Load meter

Load indicator

Over-winding alarm Anti-two-block device

Boom interlock P.T.O indicator lamp Hook safety latch

Hydraulic safety valves, check valves and holding valves

Level gauge

Outrigger float lowering preventer

Outrigger extention coordinator for leveling

CRANE MASS Approx. 1,375 kg (includes standardized mounting parts)

NOTE: Operating speeds of the crane are guaranteed under the condition that the pump delivery is 60 L/min.

RATED LIFTING CAPACITIES IN KILOGRAMS

Crane Strength Rated Capacities

	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.3 m and below	3,030	1,420	2.7 m and below	2,330
2.6 m	3,030	1,160	3.2 m	2,030
3.0 m	2,580	930	3.5 m	1,830
3.5 m	2,180	730	4.0 m	1,630
4.0 m	1,880	580	4.5 m	1,480
4.5 m	1,680	480	5.0 m	1,330
5.0 m	1,480	430	5.5 m	1,230
5.3 m	1,380	380	6.0 m	1,130
			6.5 m	1,050
			7.0 m	980
			7.5 m	930

NOTES: 1. The mass of hook block (30kg), slings and all similarly used load handling devices must be added to the mass of 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

	Empty Onassi	is inaleu Capac	11100	
	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.2 m and below	3,030	1,420	2.5 m and below	2,330
2.7 m	2,130	1,080	3.2 m	1,500
3.0 m	1,730	880	3.5 m	1,280
3.5 m	1,280	680	4.0 m	980
4.0 m	1,030	530	4.5 m	800
4.5 m	830	430	5.0 m	680
5.0 m	730	380	5.5 m	600
5.3 m	680	330	6.0 m	530
			6.5 m	480
			7.0 m	430
			7.5 m	380

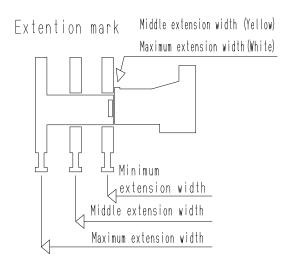
Table C

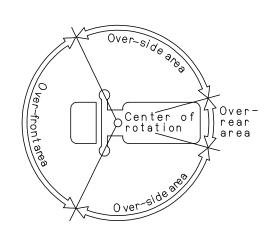
	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum	1	Maximum
2.3 m and below	3,030	1,420	2.7 m and below	2,330
2.7 m	2,380	1,130	3.2 m	1,730
3.0 m	1,980	930	3.5 m	1,430
3.5 m	1,430	730	4.0 m	1,130
4.0 m	1,130	580	4.5 m	930
4.5 m	930	480	5.0 m	780
5.0 m	830	430	5.5 m	680
5.3 m	780	380	6.0 m	630
			6.5 m	530
			7.0 m	480
			7.5 m	430

Table D

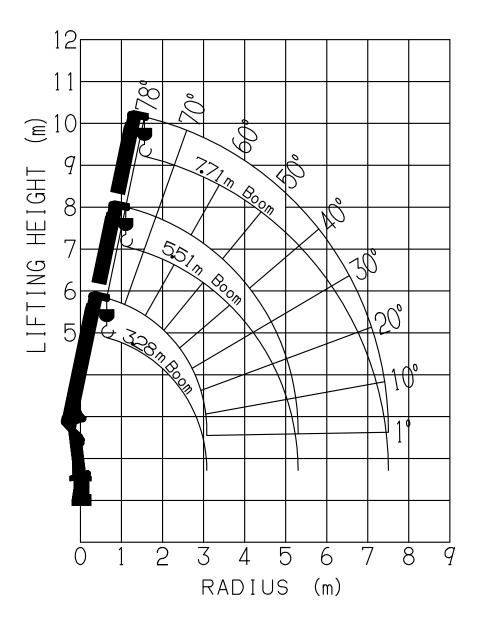
	3.28 m / 5.51 m Boom		Load Radius	7.71 m Boom
Load Radius	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
2.3 m and below	3,030	1,420	2.7 m and below	2,330
2.6 m	3,030	1,160	3.2 m	2,030
3.0 m	2,580	930	3.5 m	1,830
3.5 m	2,180	730	4.0 m	1,630
4.0 m	1,880	580	4.5 m	1,480
4.5 m	1,680	480	5.0 m	1,330
5.0 m	1,480	430	5.5 m	1,230
5.3 m	1,380	380	6.0 m	1,130
			6.5 m	1,050
			7.0 m	980
			7.5 m	930

- 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 lifting 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 5.51m, extend outriggers to maximum extension width.
 - 6. Empty Chassis Rated Capacities table A, C and D depend on the types of chassis.
 - 7. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area. These capacities for over-front area may lowered depending on the types of chassis.
 - 8. Never operate the crane and set up the outriggers, if the carrier inclines.



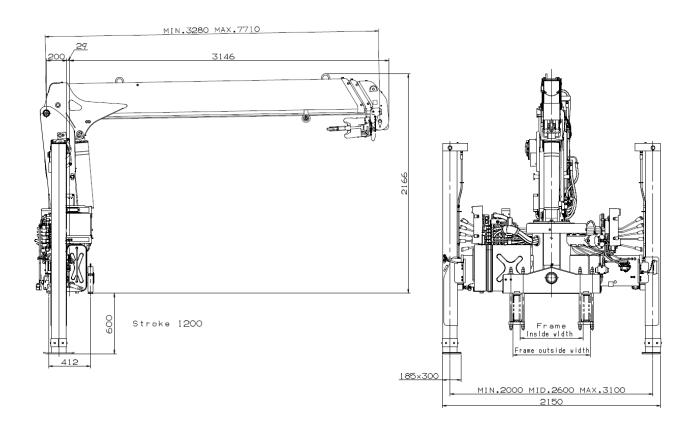


WORKING RANGE



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 mas	ss) 8,000 to 17,000 kg
P.T.O. torque	190 N-m{19.4 kgf-m} min.
P.T.O. revolution	Approx. 300 to 1,900 min ⁻¹ {rpm}
Width for crane mounting	Approx. 640 mm min.
Frame	Weight distribution and frame strength
	should be calculated for each truck
Frame width range (inside to outside)	Approx. 610 to 860 mm
Frame height (ground to frame top)	Approx. 1,070 mm max.
	(Height of crane mounting base can be
	changed by combination of jack floats and
	crane bases)