

TADANO CARGO CRANE

MODEL : **TM-ZE553SLH**

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u>	5,050 kg at 2.5 m (5-part line)
<u>BOOM</u>	Three-sectioned, fully hydraulic telescoping boom of heptagonal box construction Retracted length ----- 3.47 m Extended length ----- 8.31 m Extending speed ----- 4.84 m / 18 s Elevation ----- Elevated by a double-acting hydraulic cylinder Elevating speed ----- 1° to 78° / 12 s Boom point ----- 3 sheaves
<u>WINCH</u>	Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake and cable follower Single line pull ----- 9.90 kN{1010 kgf} Single line speed ----- 66 m/min.(at 4th layer) Wire rope Diameter x length ---- 8 mm x 67 m Breaking strength ---- 50.1 kN{5.1 tf} Construction ----- 7 x 7 + 6 x WS(26) Hook block ----- 2 sheaves
<u>HOOK STOWING DEVICE</u>	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}

RATED LIFTING CAPACITIES IN KILOGRAMS

Crane Strength Rated Capacities

Load Radius	3.47m Boom	Load Radius	5.91m Boom	Load Radius	8.31m Boom
2.5m and below	5,050	2.6m and below	4,050	2.6m and below	3,130
2.95m	4,050	2.95m	4,050	3.0m	3,130
3.25m	3,700	3.8m	3,130	3.8m	3,130
		4.1m	2,930	4.1m	2,930
		4.5m	2,630	4.5m	2,630
		5.0m	2,380	5.0m	2,380
		5.5m	2,180	5.5m	2,180
		5.69m	2,080	6.0m	1,980
				6.5m	1,830
				7.0m	1,680
				7.5m	1,530
				8.09m	1,430

- NOTES :
1. The mass of hook block (45kg), slings and all similarly used load lifting 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.

Empty Chassis Rated Capacities

Table A

Load Radius	3.47m Boom		Load Radius	5.91m Boom		Load Radius	8.31m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5m and below	5,050	2,380	2.6m and below	4,050	2,380	2.6m and below	3,130	2,380
2.8m	4,050	2,130	2.8m	4,050	2,130	3.4m	3,080	1,530
3.25m	3,280	1,680	3.3m	3,180	1,630	3.8m	2,530	1,330
			3.6m	2,780	1,430	4.1m	2,180	1,180
			4.1m	2,180	1,180	4.5m	1,880	980
			4.5m	1,880	980	5.0m	1,580	880
			5.0m	1,580	880	5.5m	1,330	730
			5.5m	1,330	730	6.0m	1,180	630
			5.69m	1,280	680	6.5m	1,080	580
						7.0m	980	530
						7.5m	880	480
						8.09m	780	430

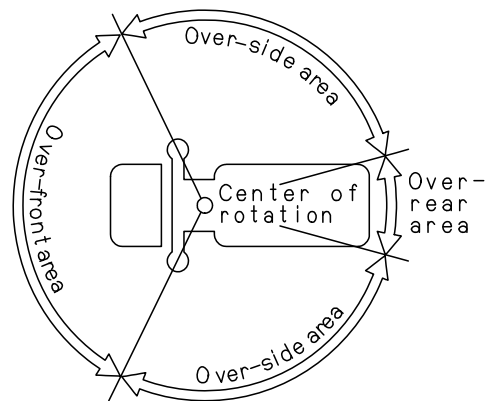
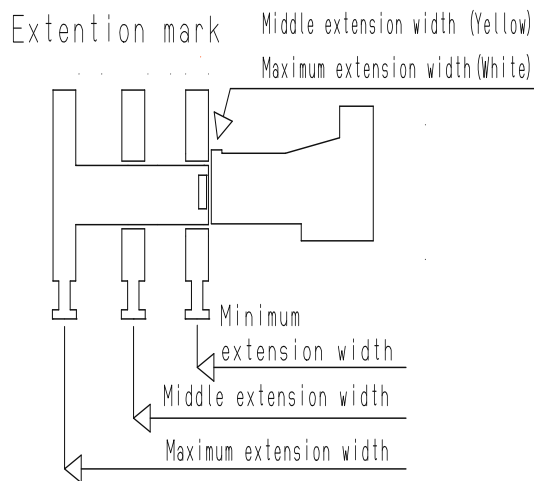
Table B

Load Radius	3.47m Boom		Load Radius	5.91m Boom		Load Radius	8.31m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5m and below	5,050	2,980	2.6m and below	4,050	2,730	2.6m and below	3,130	2,730
2.95m	4,050	2,330	2.95m	4,050	2,330	3.5m	3,130	1,730
3.25m	3,650	1,980	3.5m	3,330	1,730	3.8m	2,980	1,580
			4.1m	2,650	1,430	4.1m	2,650	1,430
			4.5m	2,230	1,230	4.5m	2,230	1,230
			5.0m	1,930	1,030	5.0m	1,930	1,030
			5.5m	1,630	930	5.5m	1,630	930
			5.69m	1,580	830	6.0m	1,480	780
						6.5m	1,330	730
						7.0m	1,180	650
						7.5m	1,080	580
						8.09m	930	530

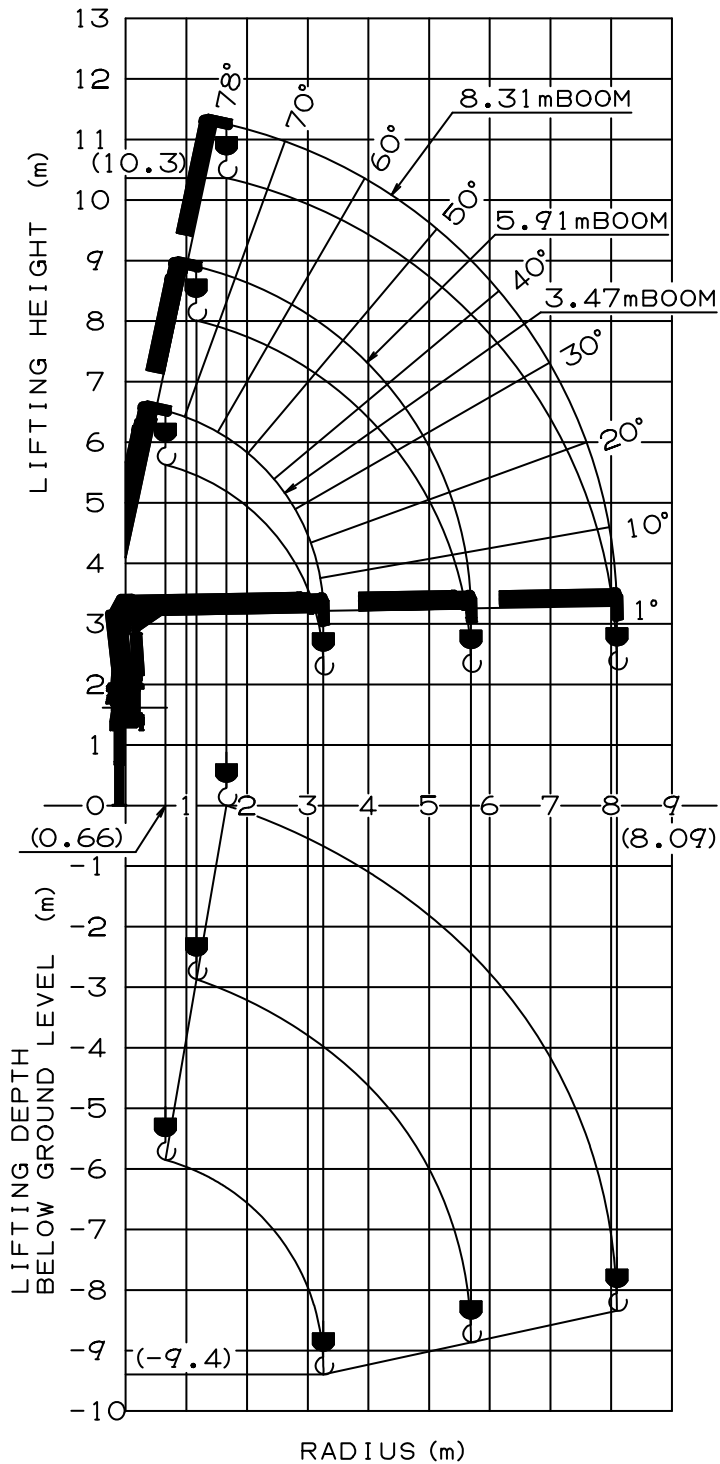
Table D

Load Radius	3.47m Boom		Load Radius	5.91m Boom		Load Radius	8.31m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5m and below	5,050	3,280	2.6m and below	4,050	3,280	2.6m and below	3,130	3,130
2.95m	4,050	2,730	2.95m	4,050	2,730	3.0m	3,130	2,680
3.25m	3,700	2,380	3.8m	3,130	1,830	3.8m	3,130	1,830
			4.1m	2,930	1,630	4.1m	2,930	1,630
			4.5m	2,630	1,430	4.5m	2,630	1,430
			5.0m	2,380	1,180	5.0m	2,380	1,180
			5.5m	2,180	1,030	5.5m	2,180	1,030
			5.69m	2,080	980	6.0m	1,980	930
						6.5m	1,830	850
						7.0m	1,680	780
						7.5m	1,530	700
						8.09m	1,430	600

- 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 (45kg)、slings and all similarly used load lifting devices must be added to the mass of the 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. Empty Chassis Rated Capacities table A, B and D depend on the types of chassis.
 6. 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.
 7. Never operate the crane and set up the outriggers, if the carrier inclines.

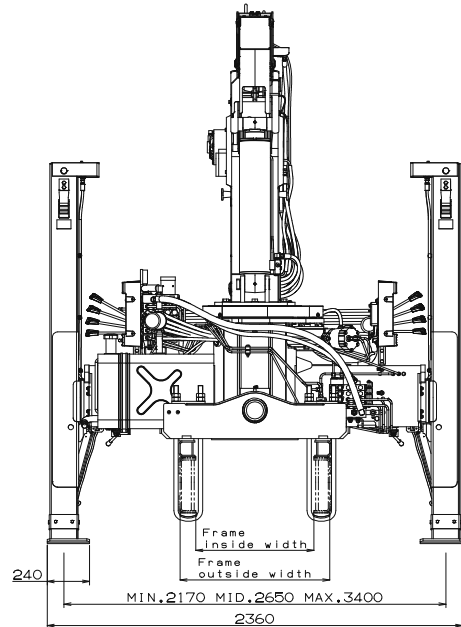
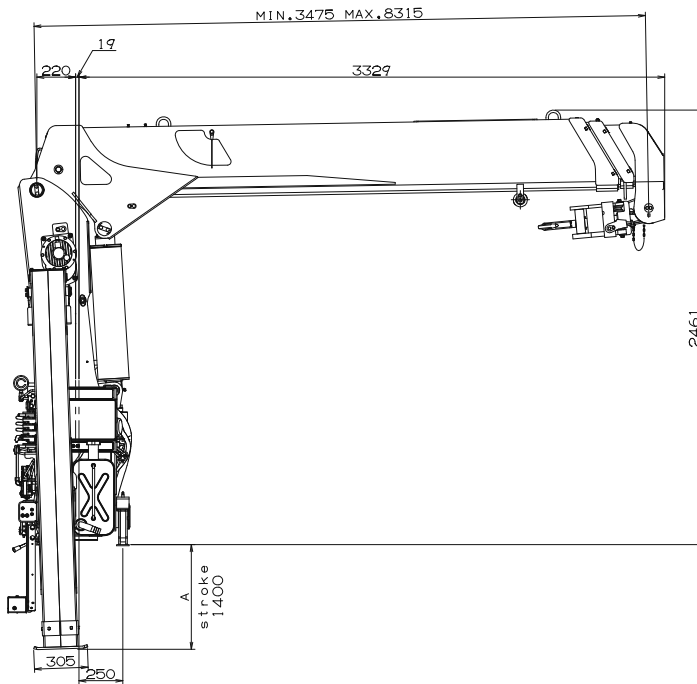


WORKING RANGE



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 [TM-ZE553SLH]



A= 590mm or 750mm
(This dimension depends on jack floats applied.)

GENERAL DATA FOR SUITABLE TRUCKS

- Gross vehicle mass (including crane mass) --- 15,000 to 25,000 kg
- P.T.O. torque ----- 157 N·m{16 kgf·m} min.
- P.T.O. revolution ----- Approx. 270 to 2,800 min⁻¹{rpm}
- Width for crane mounting ----- Approx. 750 mm min.
- Frame ----- Weight distribution and frame strength
should be calculated for each truck
- Frame width range (inside to outside) ----- Approx. 610 to 960 mm
- Frame height (ground to frame top) ----- Approx. 1,235 mm max.
(Height of crane mounting base can be changed
by combination of jack floats and crane bases)