

TADANO CARGO CRANE

MODEL : **TM-ZE554SLH**

CRANE SPECIFICATIONS

<u>CRANE CAPACITY</u>	5,050 kg at 2.5 m (5-part lines)
<u>BOOM</u>	Four-sectioned, fully powered partly synchronized telescoping boom of heptagonal box construction. Retracted length ----- 3.55 m Extended length ----- 10.8 m Extending speed ----- 7.25 m / 21 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{1,010 kgf} Single line speed ----- 66 m/min (at 4th layer) Wire rope Diameter x length ----- 8 mm x 82 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}

Specifications are subject to change without notice.

RATED LIFTING CAPACITIES IN KILOGRAMS

Crane Strength Rated Capacities

Load Radius	3.55 m Boom	Load Radius	5.99 m Boom	Load Radius	8.39 m Boom	Load Radius	10.8 m Boom
2.5 m and below	5,050	2.5 m and below	4,050	2.5 m and below	3,130	3.5 m and below	2,130
2.9 m	4,050	2.9 m	4,050	3.0 m	3,130	4.5 m	2,130
3.33 m	3,550	3.7 m	3,130	3.7 m	3,130	5.0 m	2,030
		4.0 m	2,930	4.0 m	2,930	6.0 m	1,780
		4.5 m	2,580	4.5 m	2,580	7.0 m	1,530
		5.0 m	2,330	5.0 m	2,330	8.0 m	1,380
		5.77 m	2,030	5.5 m	2,080	9.0 m	1,200
				6.0 m	1,930	10.0 m	1,050
				6.5 m	1,780	10.58m	1,000
				7.0 m	1,630		
				7.5 m	1,480		
				8.17m	1,380		

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

Load Radius	3.55 m Boom		Load Radius	5.99 m Boom		Load Radius	8.39 m Boom		Load Radius	10.8 m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5 m and below	5,050	2,480	2.6 m and below	4,050	2,480	2.6m and below	3,130	2,480	3.5 m and below	2,130	1,480
2.8 m	4,050	2,130	2.8 m	4,050	2,130	3.0 m	3,130	1,880	4.0 m	2,130	1,180
3.33m	3,150	1,630	3.6 m	2,730	1,430	3.6 m	2,730	1,430	4.5 m	1,830	930
			4.0 m	2,130	1,180	4.0 m	2,130	1,180	5.0 m	1,530	780
			4.5 m	1,830	930	4.5 m	1,830	930	6.0 m	1,130	580
			5.0 m	1,530	830	5.0 m	1,530	830	7.0 m	930	450
			5.77m	1,230	630	5.5 m	1,330	680	8.0 m	730	380
						6.0 m	1,130	580	9.0 m	630	330
						6.5 m	1,080	550	10.0 m	530	280
						7.0 m	930	480	10.58m	480	250
						7.5 m	830	430			
						8.17m	730	380			

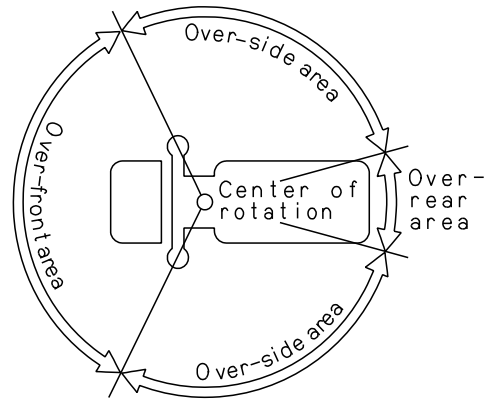
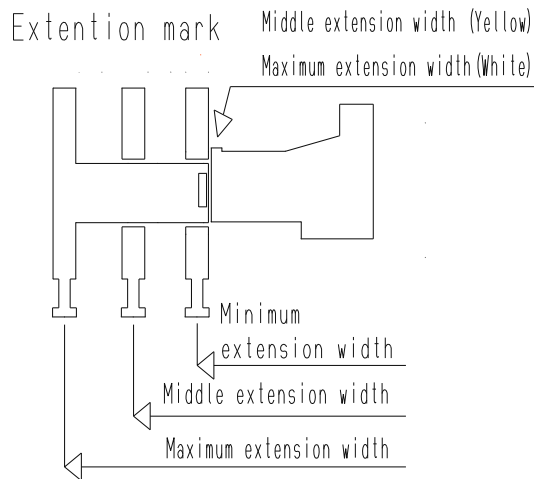
Table B

Load Radius	3.55 m Boom		Load Radius	5.99 m Boom		Load Radius	8.39 m Boom		Load Radius	10.8 m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5 m and below	5,050	2,730	2.3 m and below	4,050	3,130	2.3m and below	3,130	3,130	3.5 m and below	2,130	1,730
2.9 m	4,050	2,380	2.9 m	4,050	2,380	3.0 m	3,130	2,280	4.0 m	2,130	1,430
3.33m	3,550	1,930	3.7 m	3,130	1,580	3.7 m	2,930	1,580	4.5 m	2,130	1,180
			4.0 m	2,680	1,430	4.0 m	2,680	1,430	5.0 m	1,780	930
			4.5 m	2,230	1,180	4.5 m	2,230	1,180	6.0 m	1,380	730
			5.0 m	1,880	930	5.0 m	1,880	980	7.0 m	1,130	580
			5.77m	1,480	780	5.5 m	1,580	830	8.0 m	900	480
						6.0 m	1,430	730	9.0 m	780	430
						6.5 m	1,280	680	10.0 m	680	350
						7.0 m	1,130	630	10.58m	630	330
						7.5 m	1,030	530			
						8.17m	880	480			

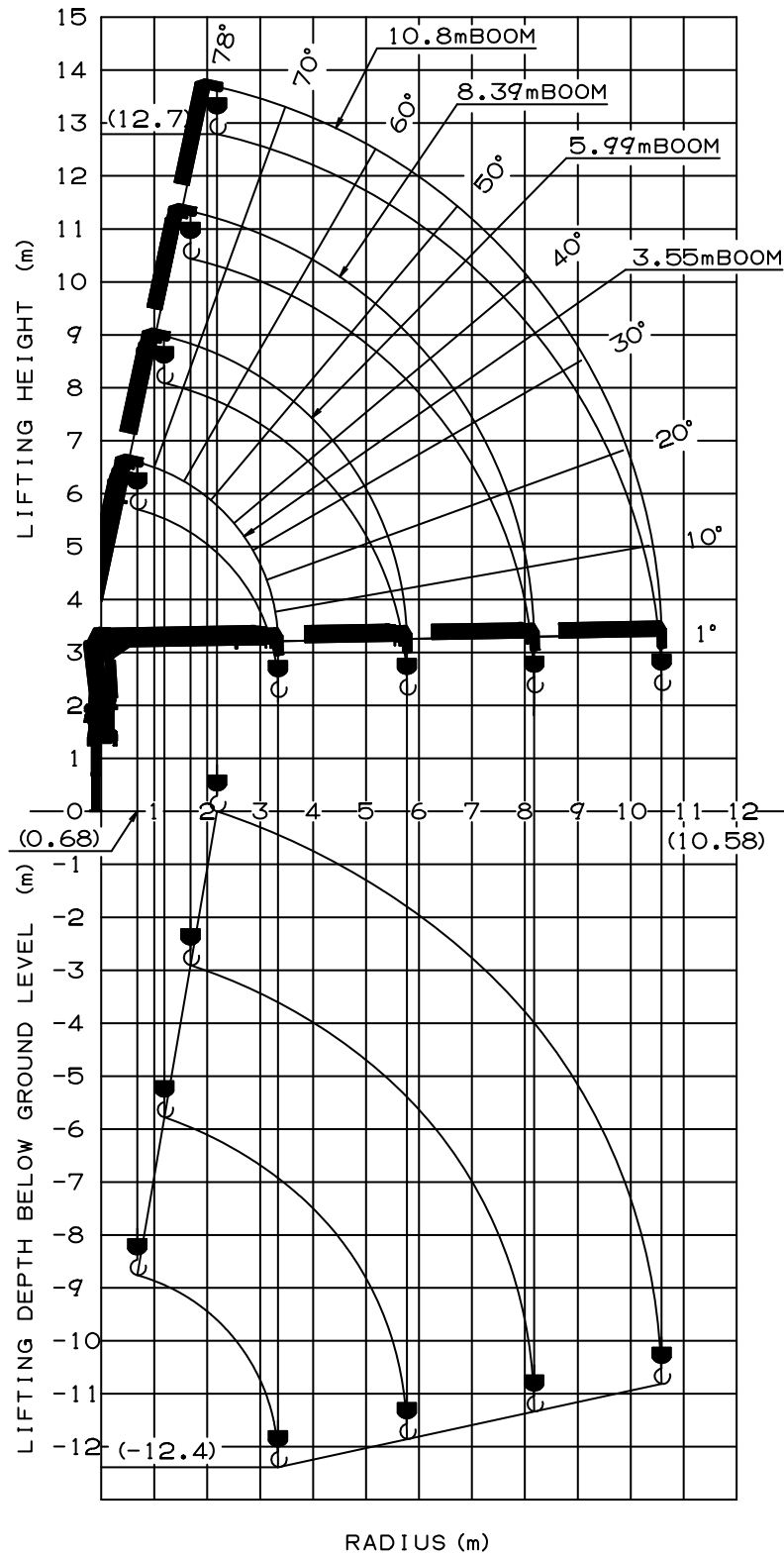
Table D

Load Radius	3.55 m Boom		Load Radius	5.99 m Boom		Load Radius	8.39 m Boom		Load Radius	10.8 m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5 m and below	5,050	3,380	2.5 m and below	4,050	3,380	2.5m and below	3,130	3,130	3.5 m and below	2,130	1,930
2.9 m	4,050	2,680	2.9 m	4,050	2,680	3.0 m	3,130	2,630	4.5 m	2,130	1,330
3.33m	3,550	2,230	3.7 m	3,130	1,870	3.7 m	3,130	1,870	5.0 m	2,030	1,080
			4.0 m	2,930	1,630	4.0 m	2,930	1,630	6.0 m	1,780	780
			4.5 m	2,580	1,380	4.5 m	2,580	1,380	7.0 m	1,530	730
			5.0 m	2,330	1,130	5.0 m	2,330	1,130	8.0 m	1,380	550
			5.77m	2,030	930	5.5 m	2,080	930	9.0 m	1,200	500
						6.0 m	1,930	830	10.0m	1,050	430
						6.5 m	1,780	780	10.58m	1,000	380
						7.0 m	1,630	730			
						7.5 m	1,480	650			
						8.17m	1,380	550			

- 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 the hook (45 kg), 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. 8.39m boom means \sphericalangle mark on 3rd boom section side plate is half seen.
 6. Empty Chassis Rated Capacities table A , B 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.



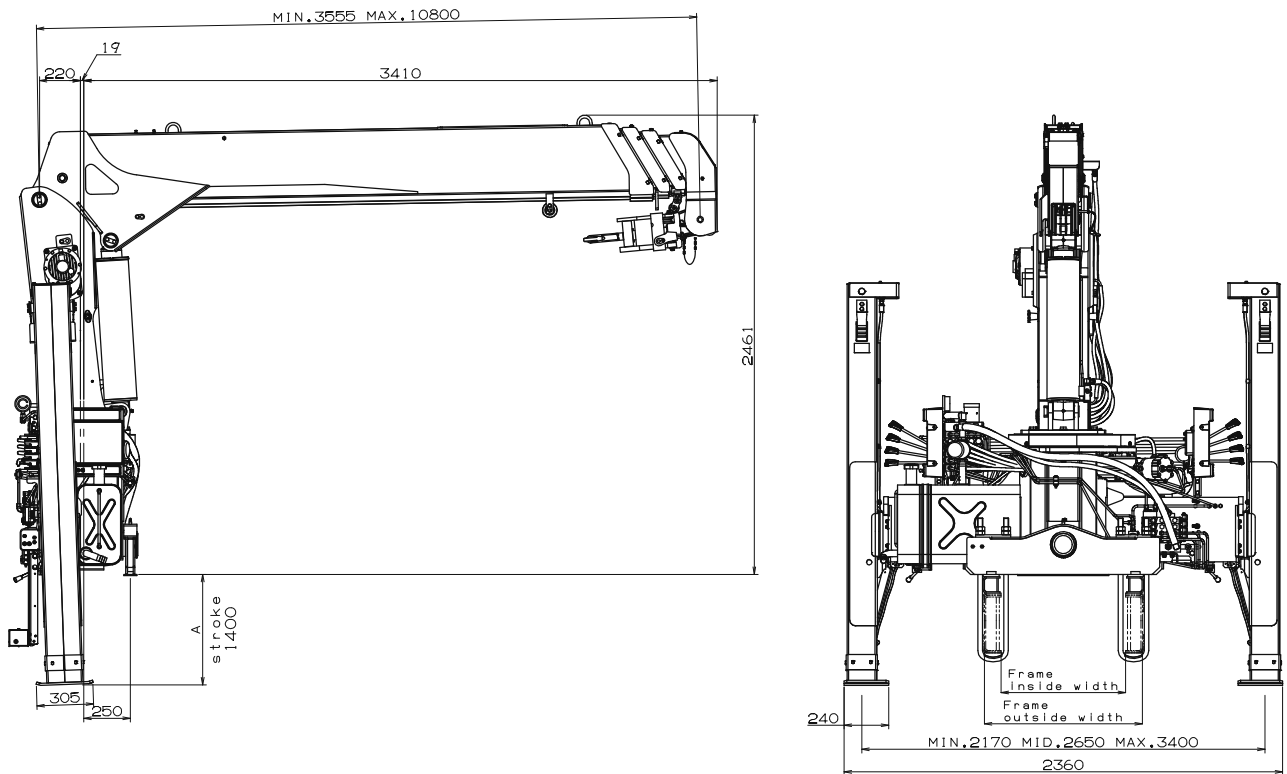
WORKING RANGE



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

[TM-ZE554SLH]



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)