TADANO CARGO CRANE

MODEL : TM-ZE263MH ----- with hook stowing device

CRANE SPECIFICATIONS

CRANE CAPACITY 2,630 kg at 1.6 m (4-part lines)

BOOM Three-sectioned, fully hydraulic telescoping boom of pentagonal box construction

- Retracted length ---------- 2.85 m
- Extended length ---------- 6.6 m
- Extending speed ---------- 3.75 m / 10 s
- Elevation ---------- Elevated by a double-acting hydraulic cylinder
- Elevating speed ---------- 1^{o} to 76^{o} / 6 s
- Boom point ---------- 2 sheaves

WINCH Hydraulic motor driven Spur gear speed reduction, provided with mechanical brake

- 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 45 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.

SLEWING	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
	Max. 3,000 mm
HYDRAULICS	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
SAFETY DEVICES	Load meter
	Load indicator
	Over-winding alarm
	Anti-two-block device
	P.T.O indicator lamp
	Hook safety latch
	Hydraulic safety valves, check valves and holding valves
	Level gauge
CRANE MASS	Approx. 880 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	2.85 m / 4.74 m Boom	Load Radius	6.6 m Boom
1.6 m and below	2,630	2.8 m and below	1,280
1.8 m	2,230	3.0 m	1,230
2.0 m	2,030	3.5 m	1,080
2.5 m	1,630	4.0 m	930
3.0 m	1,330	4.5 m	800
3.5 m	1,130	5.0 m	700
4.0 m	980	5.5 m	630
4.54m	880	6.0 m	580
		6.4 m	550

NOTES : 1. The mass of hook block (30kg), 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	2.85 m / 4.74 m Boom		Load Radius	6.6 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
1.6 m and below	2,630	1,580	2.6 m and below	1,230
1.8 m	2,230	1,230	2.8 m	1,130
2.0 m	2,030	1,030	3.0 m	1,030
2.5 m	1,480	630	3.5 m	780
3.0 m	1,030	480	4.0 m	630
3.5 m	780	380	4.5 m	530
4.0 m	630	330	5.0 m	430
4.54m	530	280	5.5 m	380
			6.0 m	350
			6.4 m	330

Table C

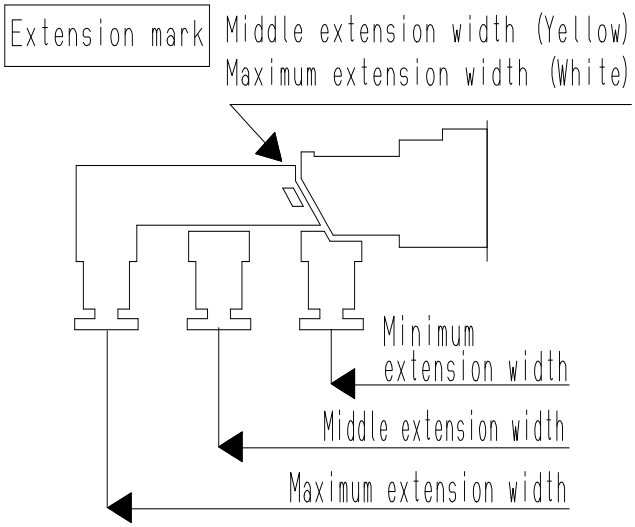
Load Radius	2.85 m / 4.74 m Boom		Load Radius	6.6 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
1.6 m and below	2,630	1,580	2.8 m and below	1,230
1.8 m	2,230	1,230	3.0 m	1,130
2.0 m	2,030	1,030	3.5 m	880
2.5 m	1,530	630	4.0 m	680
3.0 m	1,180	480	4.5 m	580
3.5 m	880	380	5.0 m	480
4.0 m	730	330	5.5 m	430
4.54 m	580	280	6.0 m	380
			6.4 m	350

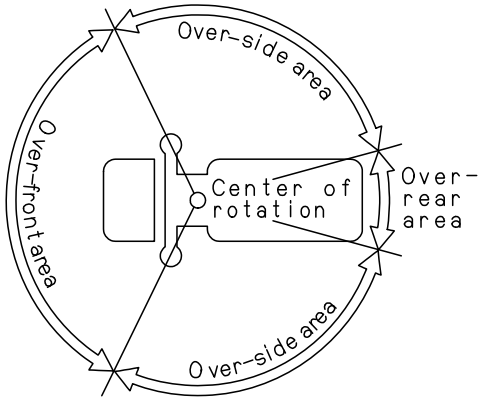
Table D

Load Radius	2.85 m / 4.74 m Boom		Load Radius	6.6 m Boom
	Extension width of outriggers			Extension width of outriggers
	Maximum	Minimum		Maximum
1.6 m and below	2,630	1,580	2.8 m and below	1,280
1.8 m	2,230	1,230	3.0 m	1,230
2.0 m	2,030	1,030	3.5 m	1,080
2.5 m	1,630	630	4.0 m	930
3.0 m	1,330	480	4.5 m	800
3.5 m	1,130	380	5.0 m	700
4.0 m	980	330	5.5 m	630
4.54m	880	280	6.0 m	580
			6.4 m	550

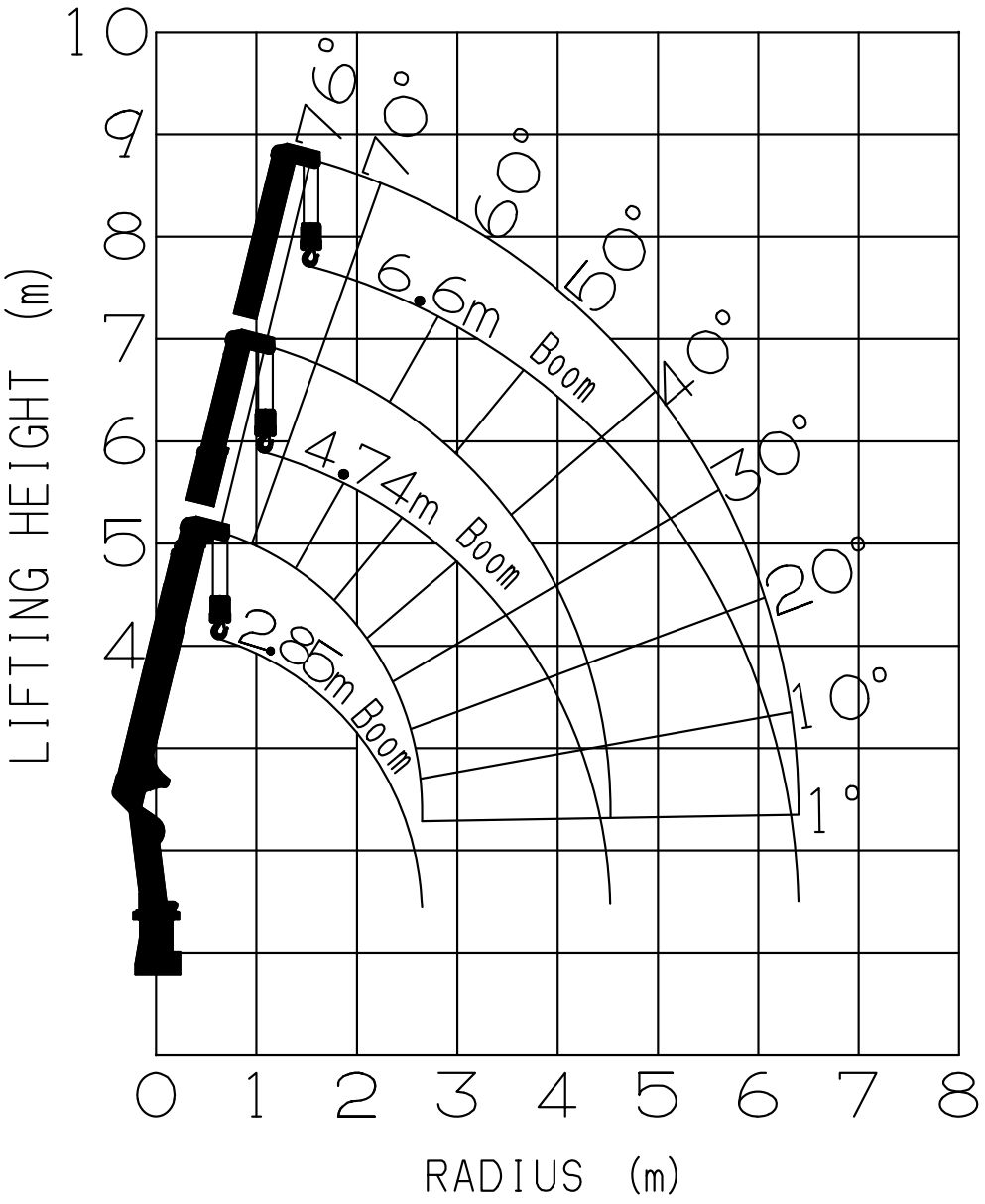
NOTES : 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.

2. The mass of 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 4.74m, 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 be lowered depending on the types of chassis.



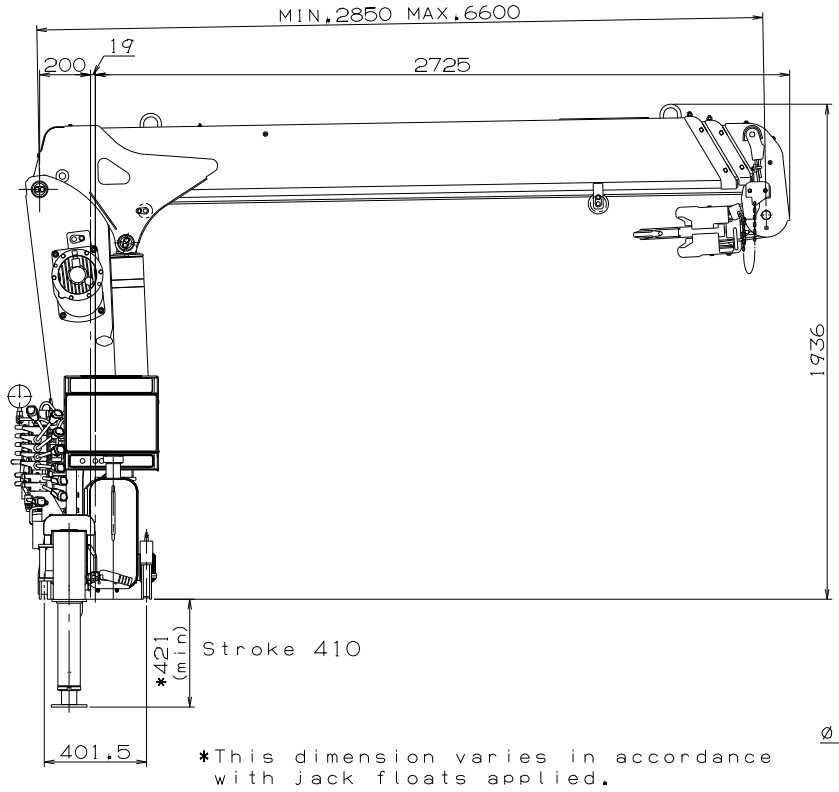


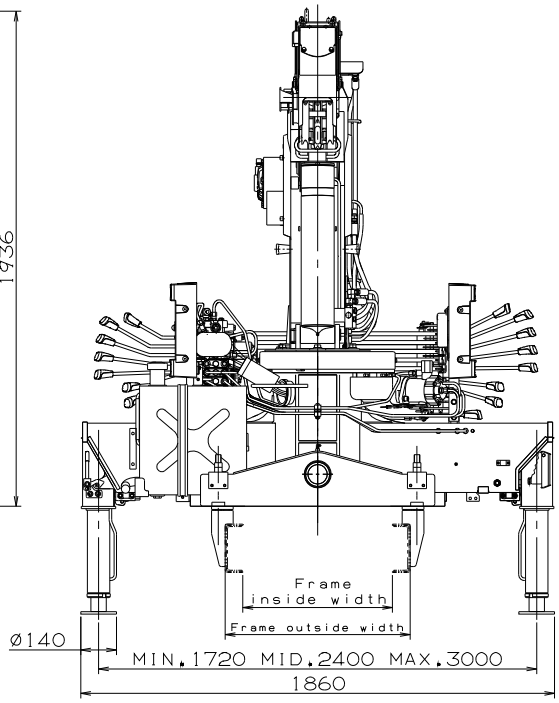
WORKING RANGE



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)