TADANO CARGO CRANE

MODEL : TM-ZE264HS

CRANE SPECIFICATIONS

CRANE CAPACITY — 2,600 kg at 1.6 m (4-part lines)

BOOM — Four-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction

- Retracted length -------- 2.87 m
- Extended length -------- 8.6 m
- Extending speed ------- 5.73 m / 12 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 ---------- 6.37 kN {650 kgf}
- Single line speed ------- 68 m/min.(at 4th layer)
- Wire rope
  - Diameter x length ---- 8 mm x 54 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

SWING

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}

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
Full 3,000 mm

HYDRAULICS

Hydraulic pump --------- Single gear pump
Hydraulic motors ------- Axial piston type for winch
Axial piston type for swing
Control valves ---------- Multiple control valves with
Integral safety valve
Oil tank capacity -------- approx. 22 L

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
Over-unwinding prevention
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. 975 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	2.87 m / 4.82 m Boom		Load Radius	6.71 m Boom	Load Radius	8.6 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m and below	2,600	1,550	2.8 m and below	1,250	4.0 m and below	670
1.8 m	2,200	1,200	3.0 m	1,200	4.5 m	600
2.0 m	2,000	950	3.5 m	1,050	5.0 m	520
2.5 m	1,600	600	4.0 m	900	6.0 m	420
3.0 m	1,300	450	4.5 m	750	7.0 m	350
3.5 m	1,100	350	5.0 m	670	8.0 m	300
4.0 m	950	250	5.5 m	600	8.4 m	280
4.62m	800	200	6.0 m	550		
			6.51m	500		

NOTES : 1. Capacities in above tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30kg)

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	2.87 m / 4.82 m Boom		Load Radius	6.71 m Boom	Load Radius	8.6 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m and below	2,600	1,550	2.6 m and below	1,200	3.8 m and below	650
1.8 m	2,200	1,200	2.8 m	1,100	4.0 m	600
2.0 m	2,000	950	3.0 m	1,000	4.5 m	500
2.5 m	1,450	600	3.5 m	750	5.0 m	400
3.0 m	1,000	450	4.0 m	600	6.0 m	300
3.5 m	750	350	4.5 m	500	7.0 m	220
4.0 m	600	250	5.0 m	400	8.0 m	170
4.62m	450	200	5.5 m	350	8.4 m	150
			6.0 m	320		
			6.51m	270		

Table C

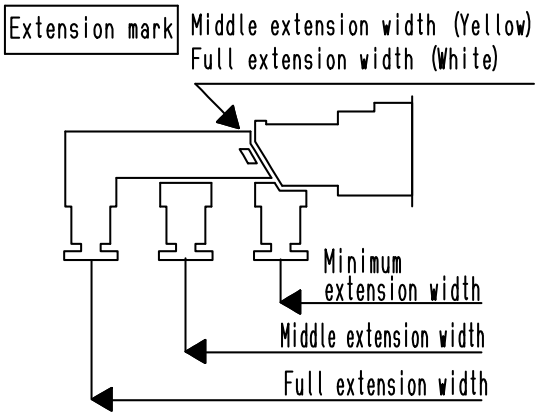
Load Radius	2.87 m / 4.82 m Boom		Load Radius	6.71 m Boom	Load Radius	8.6 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m and below	2,600	1,550	2.8 m and below	1,200	4.0 m and below	650
1.8 m	2,200	1,200	3.0 m	1,100	4.5 m	550
2.0 m	2,000	950	3.5 m	850	5.0 m	450
2.5 m	1,500	600	4.0 m	650	6.0 m	350
3.0 m	1,100	450	4.5 m	550	7.0 m	250
3.5 m	850	350	5.0 m	450	8.0 m	200
4.0 m	650	250	5.5 m	370	8.4 m	170
4.62m	500	200	6.0 m	350		
			6.51m	300		

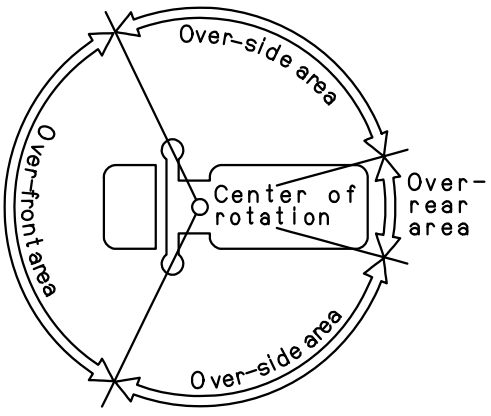
Table D

Load Radius	2.87 m / 4.82 m Boom		Load Radius	6.71 m Boom	Load Radius	8.6 m Boom
	Extension width of outriggers			Extension width of outriggers		Extension width of outriggers
	Full	Minimum		Full		Full
1.6 m and below	2,600	1,550	2.8 m and below	1,250	4.0 m and below	670
1.8 m	2,200	1,200	3.0 m	1,200	4.5 m	600
2.0 m	2,000	950	3.5 m	1,050	5.0 m	520
2.5 m	1,600	600	4.0 m	900	6.0 m	420
3.0 m	1,300	450	4.5 m	750	7.0 m	350
3.5 m	1,100	350	5.0 m	670	8.0 m	300
4.0 m	950	250	5.5 m	600	8.4 m	280
4.62m	800	200	6.0 m	550		
			6.51m	500		

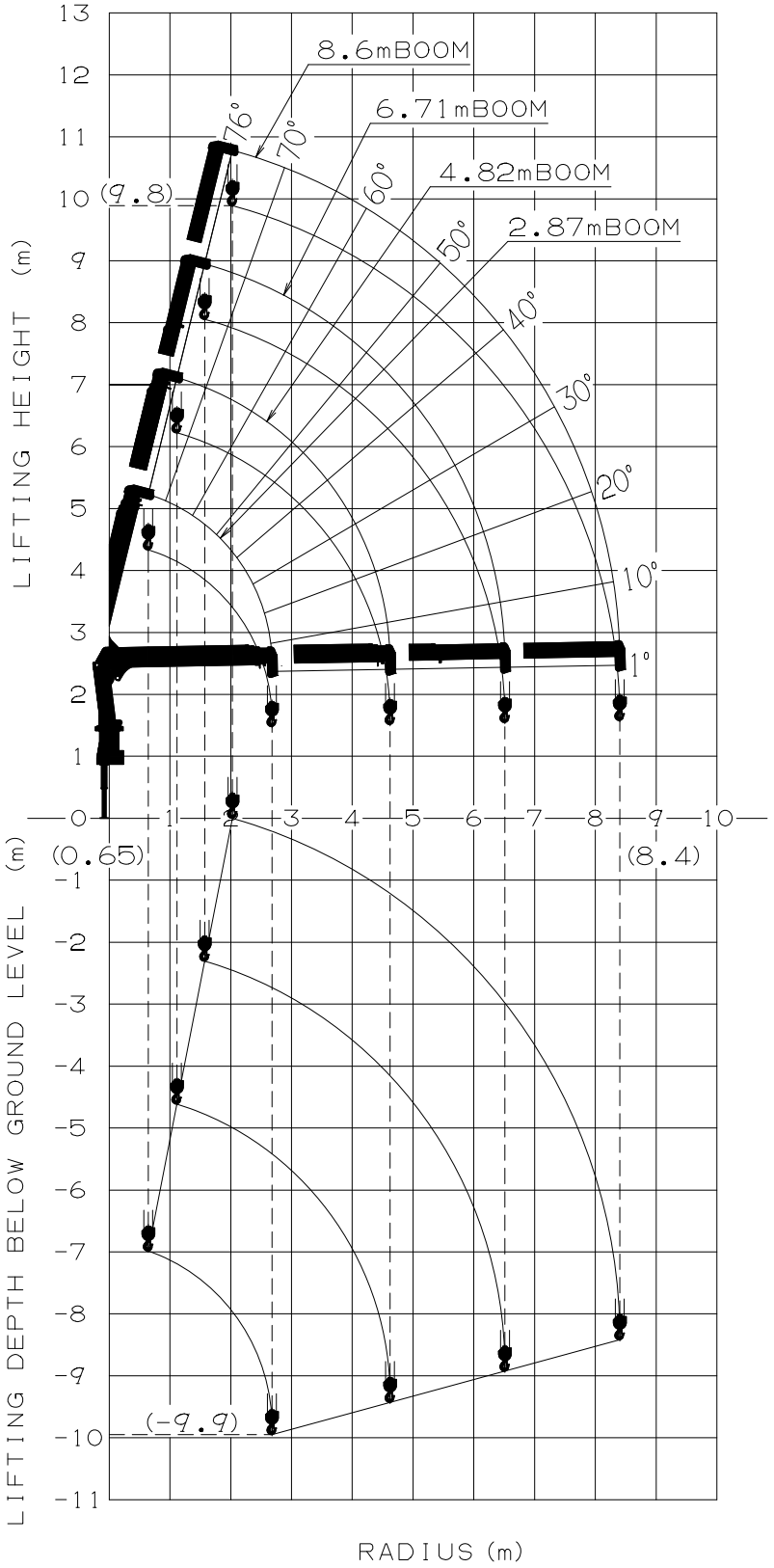
NOTES : 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.

2. Capacities in these tables include slings and similarly used load handling devices, and they must be added to the mass of the load. They don't, however, include the mass of hook block (30 kg).
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 4.82 m, extend outriggers to full extension width.
6. When the boom length is 6.71 m, a half of the ▱ mark on lateral face of the 3rd boom section is exposed out of the 2nd boom section.
7. Empty Chassis Rated Capacities table A ,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.





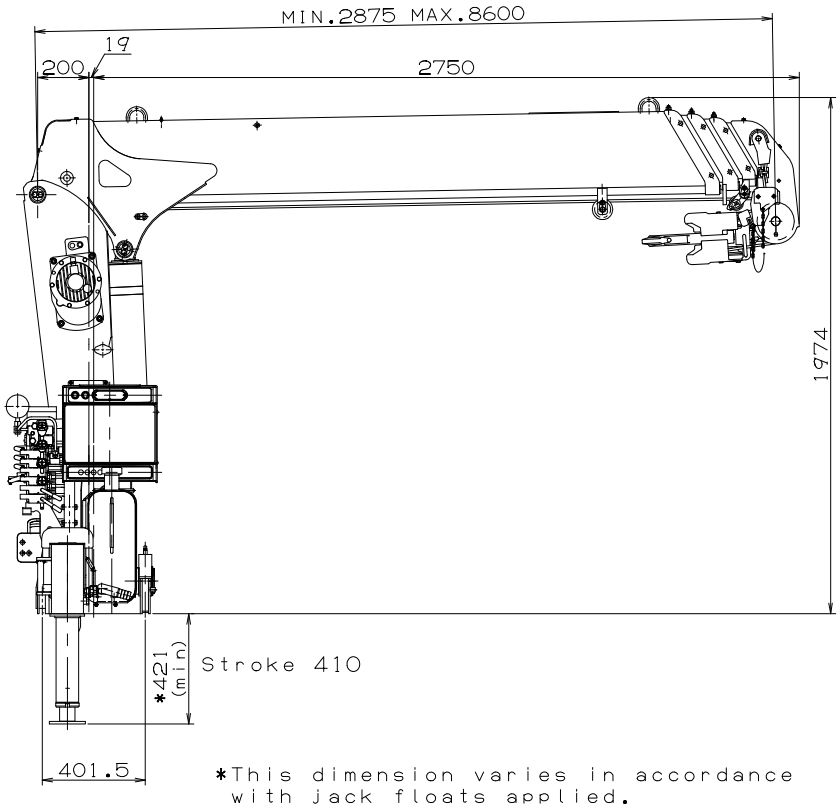
WORKING RANGE

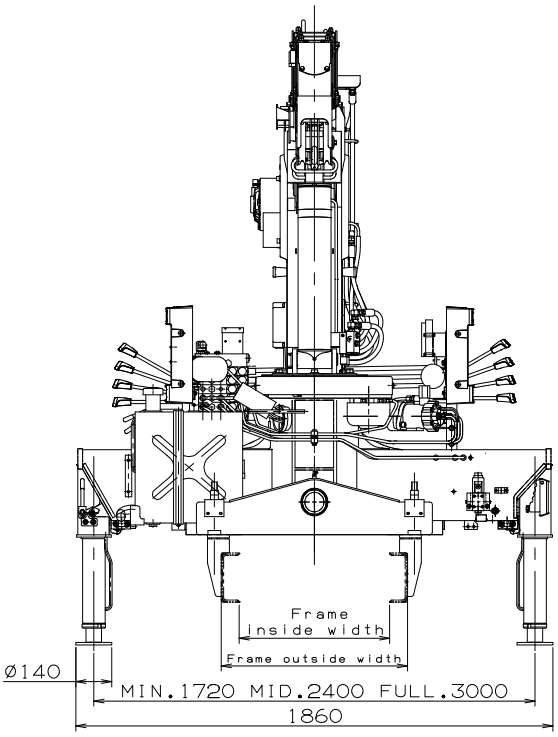


NOTE:

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)