

## TADANO CARGO CRANE

MODEL : **TM-ZR603G(HS)**

## CRANE SPECIFICATIONS

MAXIMUM LIFTING CAPACITY    6,000 kg at 2.4 m (4-part lines)

CRANE CAPACITY                    4,840 kg at 3.1 m (4-part lines)

BOOM                                    Three-sectioned, fully hydraulic telescoping boom

Retracted length ----- 4.20 m  
Extended length ----- 9.50 m  
Extending speed ----- 5.3 m / 17 s  
Elevation ----- Elevated by a double-acting  
hydraulic cylinder  
Elevating speed ----- 1° to 82° / 24 s  
Boom point ----- 2 sheaves

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

Single line pull ----- 14.72 kN {1,500 kgf}  
Single line speed ----- 64 m/min (at 4th layer)  
Wire rope  
Diameter x length ----- 10 mm x 63 m  
Breaking strength ----- 73.5 kN {7.5 tf}  
Construction ----- 7 x 7 + 6 x Fi(29)  
Hook block ----- 2 sheaves

HOOK STOWING DEVICE    Mechanically stowed beneath boom top portion

Specifications are subject to change without notice.

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<sup>-1</sup>{rpm}

OUTRIGGERS

Hydraulically extended sliders and hydraulically extended jacks  
 Integral with crane frame Power up and down  
 Extended width ----- Min. 2.25 m  
 Mid. 3.10 m  
 Max.3.90 m

HYDRAULICS

Hydraulic pump ----- Tandem 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. 90 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 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. 2,453 kg (crane bare)

NOTE :Operating speeds of the crane are guaranteed under the condition that the pump delivery is 85 L/min.

## RATED LIFTING CAPACITIES IN KILOGRAMS

### Empty Chassis Rated Capacities

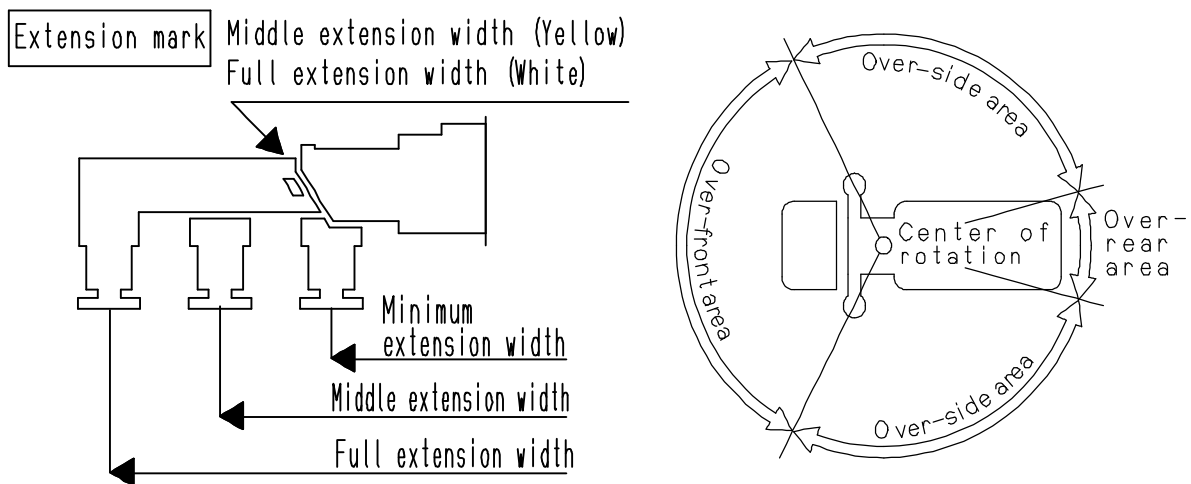
Table A

Load Radius	4.2m / 6.86m Boom		Load Radius	9.5m Boom	
	Outriggers Extended			Outriggers Extended	
	Full	Minimum		Full	Minimum
2.4 m and below	6,000	2,940	2.4 m and below	2,940	2,940
3.1 m	4,840	2,540	3.1 m	2,940	2,540
3.5 m	4,140	2,090	3.5 m	2,940	2,090
4.0 m	3,640	1,740	4.0 m	2,940	1,740
4.5 m	2,690	1,440	4.5 m	2,690	1,440
5.0 m	2,340	1,240	5.0 m	2,340	1,240
6.0 m	1,790	940	6.0 m	1,790	940
6.61 m	1,540	790	7.0 m	1,390	740
			8.0 m	1,140	590
			9.25 m	940	490

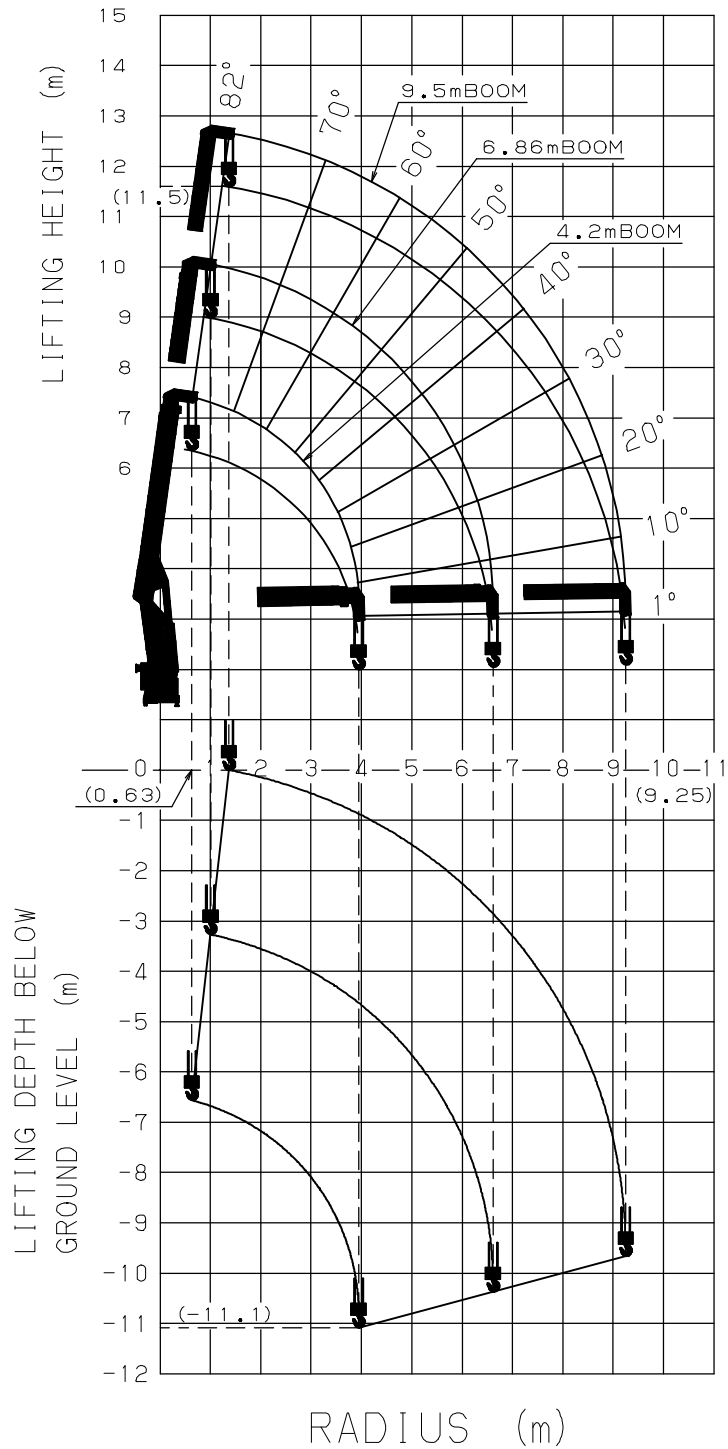
Table D

Load Radius	4.2m / 6.86m Boom		Load Radius	9.5m Boom	
	Outriggers Extended			Outriggers Extended	
	Full	Minimum		Full	Minimum
2.4 m and below	6,000	2,940	2.4 m and below	2,940	2,940
3.1 m	4,840	2,540	3.1 m	2,940	2,540
3.5 m	4,140	2,090	3.5 m	2,940	2,090
4.0 m	3,640	1,740	4.0 m	2,940	1,740
4.5 m	3,240	1,440	4.5 m	2,940	1,440
5.0 m	2,840	1,240	5.0 m	2,840	1,240
6.0 m	2,190	940	6.0 m	2,190	940
6.61 m	1,940	790	7.0 m	1,790	740
			8.0 m	1,490	590
			9.25 m	1,240	490

- 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 (60kg).
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 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.

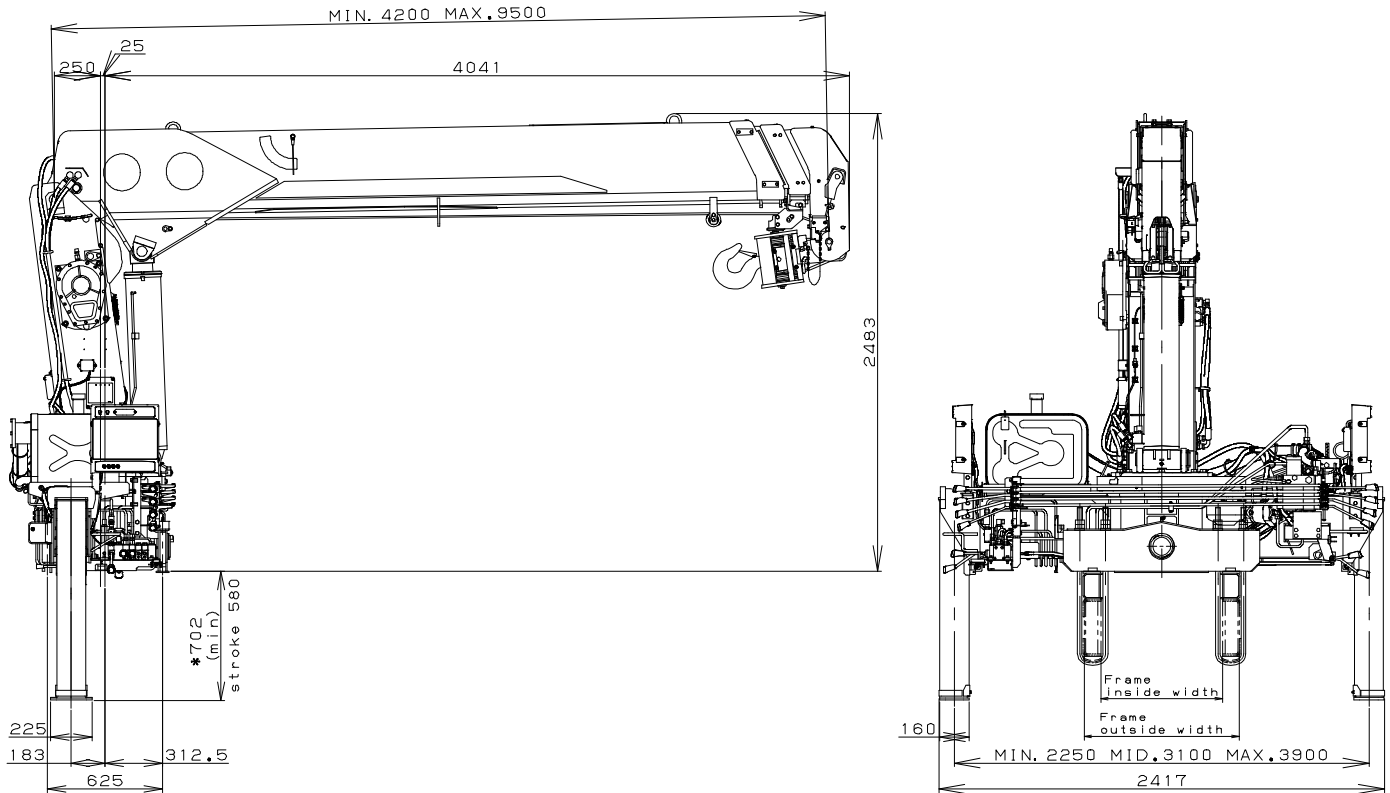


### WORKING RANGE



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



\*This dimension depends on jack floats applied.

## GENERAL DATA FOR SUITABLE TRUCKS

- Gross vehicle mass (including crane mass) ----- 20,000 to 25,000 kg
- P.T.O. torque ----- 245 N-m{25 kgf-m} min.
- P.T.O. revolution ----- Approx. 270 to 2,800 min<sup>-1</sup>{rpm}
- Width for crane mounting ----- Approx. 1,000 mm min.
- Frame ----- Weight distribution and frame strength should be calculated for each truck
- Frame width range (inside to outside) ----- Approx. 576 to 953 mm
- Frame height (ground to frame top) ----- Approx. 1,055 mm max.  
(Height of crane mounting base can be changed by combination of jack floats and crane bases)