

SPEC. SHEET No. TM-60Z-4-543/R-01 DATE December, 2011

TADANO CARGO CRANE

MODEL: TM-ZR604G(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 Fo	our-sectioned, fully powered partly synchronized telescoping boom
	Retracted length 4.31 m Extended length 12.91m Extending speed 8.6 m / 23 s Elevation Elevated by a double-acting hydraulic cylinder Elevating speed 1° to 82° / 24 s Boom point 2 sheaves
	draulic motor driven Spur gear speed reduction, provided with schanical 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 80 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

<u>SWING</u>	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}
<u>OUTRIGGERS</u>	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
<u>HYDRAULICS</u>	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. 2,647 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

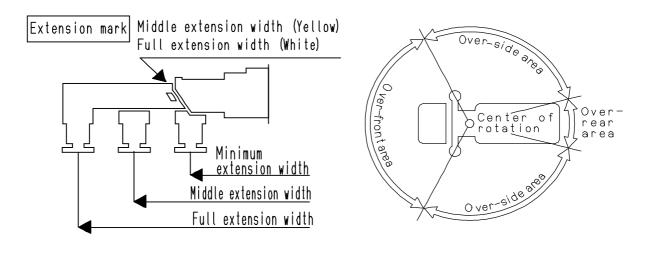
Table A								
Load Radius	4.31m / 7.19m Boom		Load Radius	10.05m Boom		Load Radius	12.91 m Boom	
	Outriggers Extended			Outriggers Extended			Outriggers Extended	
	Full	Minimum	Radius	Full	Minimum	radius	Full	Minimum
2.4 m and below	6,000	2,940	2.4 m and below	2,940	2,940	2.4 m and below	2,940	2,940
3.1 m	4,840	2,490	3.1 m	2,940	2,490	3.1 m	2,940	2,490
3.5 m	4,140	2,040	3.5 m	2,940	2,040	3.5 m	2,940	2,040
4.0 m	3,640	1,690	4.1 m	2,940	1,640	4.1 m	2,940	1,640
4.5 m	2,640	1,390	5.0 m	2,290	1,190	5.0 m	2,290	1,190
5.0 m	2,290	1,190	6.0 m	1,740	890	6.0 m	1,740	890
6.0 m	1,740	890	7.0 m	1,340	690	7.0 m	1,340	690
6.94 m	1,390	690	8.0 m	1,090	540	8.0 m	1,090	540
	•		9.0 m	940	440	9.0 m	940	440
			9.8 m	790	390	10.0 m	790	390
						11.0 m	690	340
						12.66 m	540	190

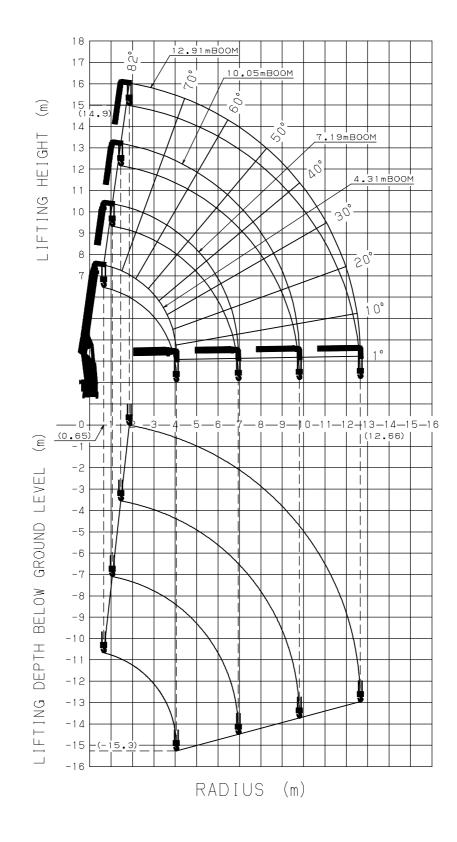
Empty Chassis Rated Capacities

Table D

	4.24 m / 7 /	10m Boom		10.05~	Poom		12.01 m	n Boom
Load Radius	4.31m / 7.19m Boom		Load Radius	10.05m Boom		Load Radius	12.91 m Boom	
	Outriggers Extended			Outriggers Extended			Outriggers Extended	
	Full	Minimum		Full	Minimum		Full	Minimum
2.4 m and below	6,000	2,940	2.4 m and below	2,940	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	3.1 m	2,940	2,540
3.5 m	4,140	2,090	3.5 m	2,940	2,090	3.5 m	2,940	2,090
4.0 m	3,640	1,740	4.1 m	2,940	1,640	4.1 m	2,940	1,640
4.5 m	3,240	1,440	4.5 m	2,940	1,440	4.5 m	2,940	1,440
5.0 m	2,840	1,190	5.0 m	2,840	1,190	5.0 m	2,590	1,190
6.0 m	2,140	890	6.0 m	2,140	890	6.0 m	2,140	890
6.94 m	1,740	690	7.0 m	1,740	690	7.0 m	1,740	690
			8.0 m	1,490	540	8.0 m	1,440	540
			9.0 m	1,290	440	9.0 m	1,240	440
			9.8 m	1,140	390	10.0 m	1,040	390
						11.0 m	890	340
						12.66m	640	190

- 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. 10.05m boom means \square mark on 3rd boom section side plate is half seen.
 - 6. Empty Chassis Rated Capacities table A 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.

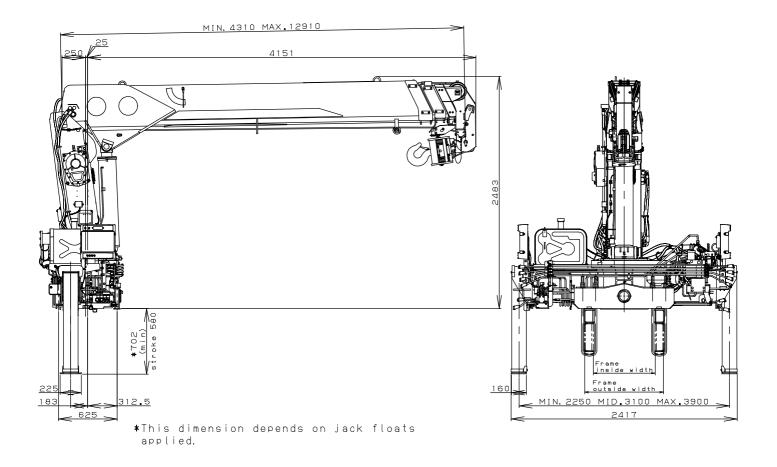




WORKING RANGE

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)	- 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 ⁻¹ {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)