

TADANO CARGO CRANE
MODEL : TM-1052

CRANE SPECIFICATIONS

CRANE CAPACITY 8,200 kg at 1.8 m (6-part lines)

BOOM 5-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction

Retracted length	-----	4.40 m
Extended length	-----	15.92 m
Extending speed	-----	11.52 m / 32 s
Elevation	-----	Elevated by a double-acting hydraulic cylinder
Elevating speed	-----	1° to 82° / 14 s
Boom point	-----	3 sheaves

WINCH Hydraulic motor driven Spur gear speed reduction, provided with automatic brake and cable follower

Single line pull	-----	14.7 kN{1,500 kgf}
Single line speed	-----	60 m/min (at 4th layer)
Wire rope		
diameter x length	---	10 mm x 95 m
breaking strength	---	73.5 kN{7.5 tf}
construction	-----	7 x 7 + 6 x Fi(29)
Hook block	-----	3 sheaves

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 Hydraulically extended sliders and hydraulically extended jacks
 Integral with crane frame Power up and down
 Extended width ----- Min. 2,250 mm
 Mid. 3,300 mm
 Max. 4,300 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. 90 L

ELECTRICAL SYSTEM Power supply ----- DC24V

SAFETY DEVICES Load meter
 Load indicator
 Hoisting limiter
 P.T.O. indicator lamp
 Hook safety latch
 Level gauge
 Hydraulic safety valves, check valves and holding valves

CRANE MASS Approx. 3,135 kg (except mounting parts)

NOTE : Operating speeds of the crane are guaranteed under the
 condition that the pump delivery is 80 L/min.

RATED LIFTING CAPACITIES IN KILOGRAMS

B \ A		4.4 m	B \ A		7.28 m	B \ A		10.16 m
1.8 m and below		8,200	2.4 m and below		6,000	4.6 m and below		3,000
2.4 m		6,000	2.9 m		5,000	5.0 m		2,700
2.9 m		5,000	3.5 m		4,200	6.0 m		2,200
3.5 m		4,200	4.0 m		3,700	7.0 m		1,800
4.15 m		3,550	4.5 m		3,300	8.0 m		1,400
			5.0 m		2,900	9.0 m		1,150
			6.0 m		2,200	9.91 m		1,000
			7.03 m		1,750			

B \ A		13.04 m	B \ A		15.92 m
4.5 m and below		3,000	5.0 m and below		2,600
5.0 m		2,600	6.0 m		2,000
6.0 m		2,000	7.0 m		1,650
7.0 m		1,700	8.0 m		1,400
8.0 m		1,400	9.0 m		1,150
9.0 m		1,150	11.0 m		900
11.0 m		900	13.0 m		650
12.7 m		650	15.67 m		450

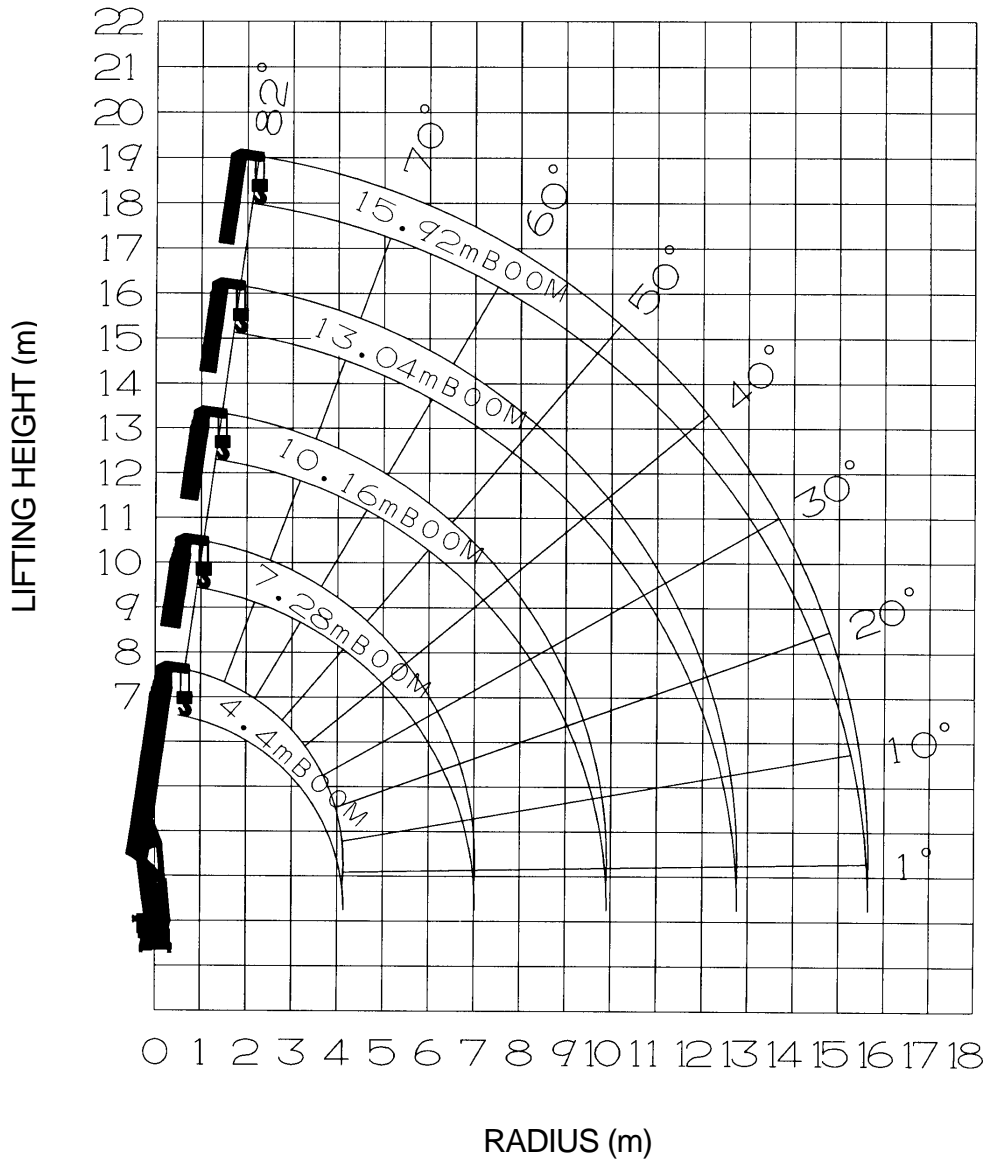
A : Boom length
B : Load radius

NOTES :

1. The mass of the hook (90 kg), slings and all similarly used load handling devices must be added to the mass of the load.
2. The above numerical values of rated lifting capacities are based on crane strength only.
The rated lifting capacities based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
3. Standard number of part lines for boom length is as shown below.

Boom Length	4.4 m	7.28 m	10.16 m	13.04 m	15.92 m
No. of part lines	6	4	4	4	4

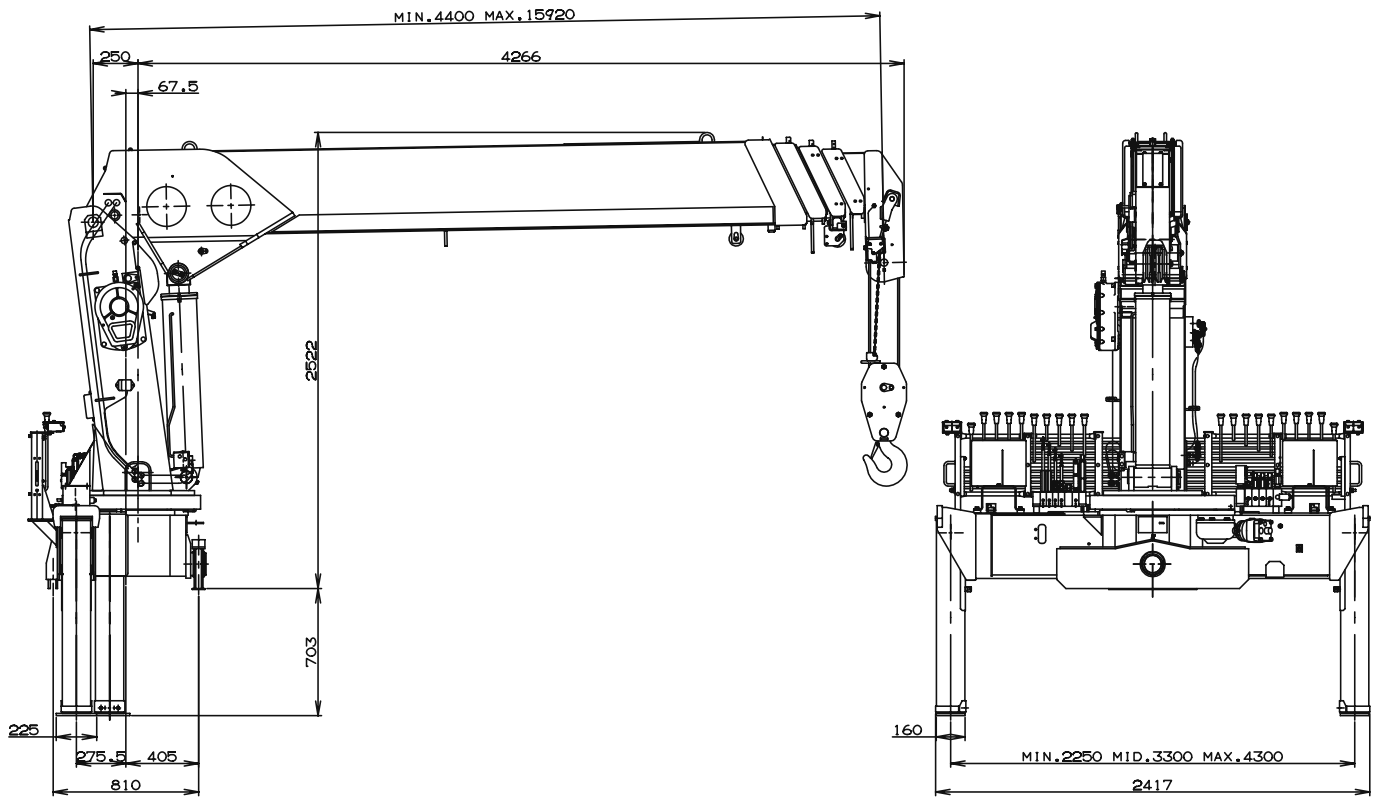
WORKING RANGE



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 ----- 205 N·m{20.9 kgf·m} min.
- P.T.O. revolution ----- Approx. 350 to 1,700 min⁻¹{rpm}
- Width for crane mounting --- Approx. 1,115 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)