





MAXIMUM LIFTING CAPACITY: 36,000 lbs EXTENDED LENGTH: 82,3'

The first 6 sections boom on Boom Truck Known World Wide, TADANO Quality in North America

TM-1882 (18 ton) crane specifications

MAXIMUM LIFTING CAPACITY 36,000 lbs. @ 5' (5-part lines) BOOM 6-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction Retracted length 18.4 Extended length 82.4 Extended speed 64.0' / 59 s Elevation Elevated by double-acting hydraulic cylinder -7° to 80° / 20 s Elevation speed NOTE: Extended speed and elevation speed are calculated under the condition that the flow is 25 GPM Boom point 2 sheaves WINCH Hydraulic motor driven, planetary gear speed reduction, provided with automatic break Single line pull 7,200 lbs. *9,700lbs (Winch capacity of permissible line pull at 1st layer) Single line speed 280 FPM (@ 3rd layer) NOTE: Single line speed is calculated under the condition that the flow is 57 GPM Wire rope Diameter x length 9/16" x 279' Breaking strength 30,100 lbs. Hook block Swivel hook with safety latch for single line use -7,000 lbs. capacity (Standard) *Johnson Downhaul hook block weight; 162 lbs. with 7 tons capacity **SWING** Hydraulic motor driven, planetary gear speed reduction Non-Continuous 375° rotation on ball bearing slew ring (Standard) 375° / 38 s Swing speed Continuous 360° full circle swing (Optional) 360° / 37 s Swing speed **OUTRIGGERS** <TRACTOR MOUNTED> Outriggers (Out & Down type) Hydraulically extended sliders and hydraulically extended jacks, integral with crane frame Extend width Min. 7.15' Mid. 13.1' Max. 18.7' Rear stabilizers Hydraulically extended jacks, Integral with chassis frame Span 7.38'Single front stabilizer Hydraulic extended jack in front of bumper for 360° lifting operations <CAB BACK MOUNTED> Outriggers (Out & Down type) Hydraulically extended sliders and hydraulically extended jacks, integral with crane frame Extend width Min. 7.15' Mid. 13.1' Max. 18.7' Rear stabilizers Hydraulically extended jacks, Integral with chassis frame Span 7.38'Rear stabilizers (Out & Down type; Optional) Hydraulically extended sliders and hydraulically extended jacks, integral with chassis frame Extend width Min. 7.38' Max. 11.48' Single front stabilizer Hydraulic extended jack in front of bumper for 360° lifting operations <REAR MOUNTED> Rear outriggers (Out & Down type) Hydraulically extended sliders and hydraulically extended jacks, integral with crane frame Extend width Min. 7.15' Mid. 13.1' Max. 18.7' Front outriggers (Out & Down type)

Hydraulically extended sliders and hydraulically extended jacks, integral with chassis frame

Min. 7.15' Mid. 13.1' Max. 18.7'

Extend width

HYDRAULIC

Hydraulic motor For winch and swing

Control valves Multiple control valves with integral safety valve

Hydraulic pump 3-section gear pump

Winch system: 32GPM (3,000PSI)

Boom and outriggers system: 25GPM (3,060PSI)

Swing system: 6.6GPM (1,750PSI)

Reserve tank 78 Gallons capacity

*PTO/Mounting not included

ELECTRICAL SYSTEM

Power supply DC12V

SAFETY DEVICE

Anti-two block with alarm

Hook safety latch Level gauge

Hydraulic safety valves, check valves and holding valves

Overload shutoff with load indicator (TADANO's exclusive "AMA" system)

Load / Boom angle indication

Audible warning

External warning lamps

BOOM REST

Removable

TORSION BOX

<TRACTOR MOUNTED>

The weight of standard torsion box is approx. 650 lbs. (8.5" height)

<CAB BACK MOUNTED>

The weight of 22' flat bed torsion box is approx. 4,000 lbs. (Optional)

<REAR MOUNTED>

The weight of 12' flat bed torsion box is approx. 2,150 lbs. (Not included front outriggers weight of 2,800 lbs)

CRANE WEIGHT

Approx. 12,800 lbs. (bare)

OPTIONS AND ACCESSORIES

+Radio Remote Controls

Model: RCS-F (Approved by FCC/IC)

Control function of boom telescoping, hoisting up and down, boom elevating, swing, acceleration,

speed mode selection, emergency stop, engine start and vehicle horn

Frequency 40 frequencies in 429 MHz band

Operating power supply

Transmitter 6V DC, dry battery (AA) x 4
Control unit 12V DC, vehicle battery

Transmitter weight Approx. 1.26 lbs. (includes batteries)

+Continuous 360° full circle swing

Swing speed 360°/37 s

+Short outriggers

For low profile mounting

+36,000 lbs. capacity hook block

2 sheaves, swivel type hook with safety latch

+14,400 lbs. capacity hook block

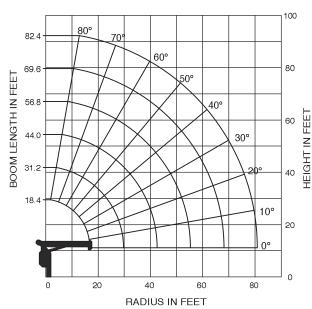
1 sheaves, swivel type hook with safety latch

+Boom angle alarm

+Two person basket



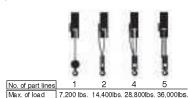
WORKING RANGE



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 condition.

NOTE:

- Rated lifting capacities on this chart show maximum allowable loads with outriggers properly extended
 on a firm surface and the crane leveled and mounted on a factory recommended truck. The rated lifting
 capacities in shaded areas are based on crane strength and others, on its stability (not to exceed 85% of tipping).
- The weight of handling devices such as hook block, slings, etc., must be considered part of the load and must be deducted from the rated lifting capacities.
- 3) Weights of any accessories attached to the boom or load line must be deducted from the rated lifting capacities.
- 4) The operator must reduce loads to allow for such factors as wind, ground conditions, operating speed and the effects of freely suspended loads such as boom deflection.
- 5) For full capacity 360° around the truck, the chassis requires the front stabilizer (ex. rear mounted) and additional counterweight in the underside of the bed.
- 6) For boom lengths or radius not shown, use the rated lifting capacity of next longer boom lengths or radius.
- L 7) For boom lengths longer than 31.2 ft., extend outriggers to max. or mid.
- 8) For boom lengths longer than 56.8 ft., extend outriggers to max
- 9) 56.8 ft. boom means 1st mark on 4th boom section side plate is half visible.
- 10) 69.6 ft. boom means 2nd mark on 4th boom section side plate is half visible.
- 11) Winch wire rope: diameter × length 9/16"× 279', breaking strength 30,100 lbs.
- 12) Keep at least 3 wraps of loadline on winch drum.
- 13) Maximum load for number of part lines is as shown below.
- 14) Part of lines are:

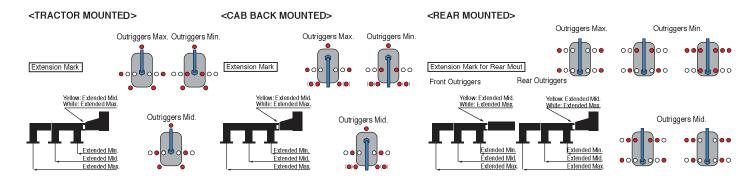


RATED LIFTING CAPACITY (IN POUNDS)

	18.4 ft. Boom				31.2 ft. Boom				44 ft. Boom			56.8 ft. Boom			69.6 ft. Boom		82.4 ft. Boom		
Load radius	Q				Q				4					(<u>) </u>		⟨ <u>} </u>		Load radius	
(ft.)	Loaded Boom	Extended			Loaded Boom	n Extended			Loaded Boom	oom Extended		Loaded Boom	Extended		Boom	Outriggers Extended	Boom	Outriggers Extended	(ft.)
	Angle	Max.	Mid.	Min.	Angle	Max.	Mid.	Min.	Angle	Max.	Mid.	Angle	Max.	Mid.	Angle	Max.	Angle	Max.	
5	75°	36,000	30,000	22,000															5
8	64°	23,000	23,000	15,200		17,450	17,450	13,200											8
10	57°	19,350	19,350	10,100		17,450	,	-	79°	,	17,450								10
12	48°	16,550	16,550	7,400	69°	15,600	15,600	6,350	76°		14,650	80°		9,050					12
14	38°	14,550	14,550	5,650		13,650	13,650	4,800	73°	12,750	-	78°	9,050	9,050					14
16	24°	13,000	12,700	4,500	60°	12,300	11,600	3,750	70°	11,500	11,000	76°	9,050	9,050	80°	9,050			16
20					51°	10,000	7,700	2,350	65°	9,400	7,700	72°	8,450	7,700	77°	7,300	79°	4,200	20
25					36°	8,100	4,950	1,300	57°	7,600	4,950	66°	6,900	4,950	72°	6,000	76°	4,200	25
30									48°	6,250	3,350	61°	5,650	3,350	68°	5,100	73°	4,200	30
35									38°	5,050	2,400	54°	4,800	2,400	63°	4,300	69°	3,800	35
40									23°	3,800	1,650	47°	3,800	1,650	58°	3,700	65°	3,300	40
45												39°	3,400	1,150	53°	3,150	61°	2,900	45
50												29°	2,700	900	47°	2,750	57°	2,500	50
55															41°	2,300	52°	2,150	55
60															33°	2,000	47°	1,900	60
65															22°	1,600	42°	1,600	65
70																	35°	1,350	70
75																	28°	1,200	75
80																	14°	850	80
	0°	8,400	8,400	4,050	0°	3,950	3,400	600	0°	1,850	1,300	0°	1,100	700	0°	600	0°	350	
		(16.89ft.)			(29.69ft.)			(42.4	l8ft.)		(55.	28ft.)		(68.07ft.)		(81.33ft.)	

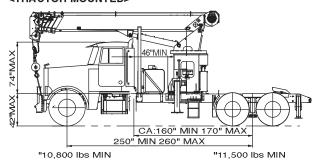
Notice: The chart is only for reference and should not be used for operation.

Maintain a clearances at least 10 feet between any part of the crane, load line or load and any electrical line carrying up to 50,000 volts. One- foot additional clearance is required for every additional 30,000 volts or less.





<TRACTOR MOUNTED>



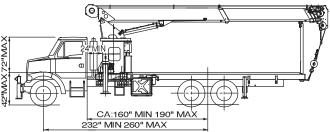
This mount requires front stabilizer, rear stabilizers, and additional counterweight in the underside of the tractor frame for full capacity 360° around the truck. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements for variety of trucks.

TRACTOR MOUNTED product can not convert to REAR MOUNTED configuration.

approx. 20,000 lbs. Gross Axle Weight Rating (GAWR), front Gross Axle Weight Rating (GAWR), rear approx. 34,000 lbs. approx. 54,000 lbs. Gross Vehicle Weight Rating Wheelbase (WB) 250" to 260' 160" to 170" Cab to axle (CA) Stability weight, front * 10,800 lbs. Min. 11,500 lbs. Min. Stability weight, rear Frame Section Module (SM) under crane, 30 in3 Min. per rail 110,000PSI steel 2 in3 Min. per rail Frame Section Module (SM) at the front stabilizer attachment point, 110,000PSI steel Frame Section Module (SM) 26 in3 Min. per rail over rear stabilizers, 110,000PSI steel approx. 290 ft-lbs Min. PTO torque PTO revolution approx. 550 to 2,400 rpm approx. 4' 7" Min. Width for crane mounting Frame width (outside) approx. 3' Max. Frame height (ground to frame top) approx. 3' 6" Max

Estimated axle scale weights prior to installation of crane and stabilizers for 85% stability. Include fifth wheel and counterweight.

<CAB BACK MOUNTED>



"8,500 lbs MIN "10,000 lbs MIN

This mount requires front stabilizer, rear stabilizers torsion resisting box and additional counterweight in the underside of the bed for full capacity 360° around the truck.

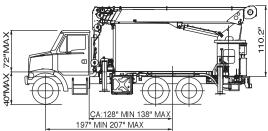
The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements for variety of trucks.

CAB BACK MOUNTED product can not convert to REAR MOUNTED configuration.

Gross Axle Weight Rating (GAWR), front	approx. 16,000 lbs.						
Gross Axle Weight Rating (GAWR), rear	approx. 34,000 lbs.						
Gross Vehicle Weight Rating	approx. 50,000 lbs.						
Wheelbase (WB)	232" to 260"						
Cab to axle	160' to 190"						
Stability weight, front	* 8,500 lbs. Min.						
Stability weight, rear	* 10,000 lbs. Min.						
Frame Section Module (SM) under crane,	20 in ³ Min. per rail (30 in_ Min.						
110,000PSI steel	per rail for low profile)						
Frame Section Module (SM)	2 in ³ Min. per rail						
at the front stabilizer attachment point, 110,000PSI steel							
Frame Section Module (SM)	13 in ³ Min. per rail						
over rear stabilizers, 110,000PSI steel							
PTO torque	approx. 290 ft-lbs Min.						
PTO revolution	approx. 550 to 2,400 rpm						
Width for crane mounting	approx. 4' 7" Min.						
Frame width (outside)	approx. 3' Max.						
Frame height (ground to frame top)	approx. 3' 6" Max.						
* Cating at all and a real contribute or installation of a real contribution and the size best few OCO							

Estimated axle scale weights prior to installation of crane, stabilizers and torsion box for 85% stability. Include counterweight.

<REAR MOUNTED>



"8,000 lbs MIN

"10,000 lbs MIN

This mount requires front outriggers, torsion resisting box and additional counterweight in the underside of the bed for full capacity 360° around the truck. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements since individual truck chassis vary.

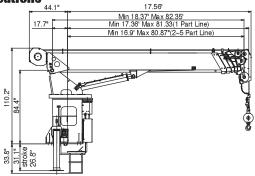
REAR MOUNTED product can not convert to CAB BACK MOUNTED configuration.

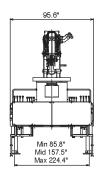
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Gross Axle Weight Rating (GAWR), front	approx. 14,000 lbs.
Gross Axle Weight Rating (GAWR), rear	approx. 34,000 lbs.
Gross Vehicle Weight Rating	approx. 48,000 lbs.
Wheelbase (WB)	197" to 207"
Cab to axle	128" to 138"
Stability weight, front	* 8,000 lbs. Min.
Stability weight, rear	* 10,000 lbs. Min.
Frame Section Module (SM) under crane,	30 in ³ Min. per rail
110,000PSI steel	
Frame Section Module (SM)	30 in ³ Min. per rail
over rear outriggers, 110,000PSI steel	
PTO torque	approx. 290 ft-lbs Min.
PTO revolution	approx. 550 to 2,400 rpm
Width for crane mounting	approx. 4' 7" Min.
Frame width (outside)	approx. 3' Max.
Frame height (ground to frame top)	approx. 3' 4" Max.
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^{*} Estimated axle scale weights prior to installation of crane, stabilizers and torsion box for 85% stability Include counterweight.

TM-1882 (18 ton) crane dimensional specifications





Introducing the TADANO TM-1882, the TADANO TM-1882 tractor mounted crane is also available in a straight truck mount behind the cab as well as rear mounted. TADANO has over 50 years of experience in manufacturing high quality cranes featuring innovative ideas and leading edge technology. The TM-1882 answers a real need for a true Boom Truck in North America. This is the crane that everyone has been looking for and we have delivered a crane packed with great features and superior performance.

With its long reach and high lift, we believe the TM-1882 is one of our most desirable cranes. TADANO builds a vast range of cranes from 0.5 ton to 600 tons. No matter what your reach or lift requirements are, TADANO can provide you with a great solution. Put one to work for you now. Call today or visit our web site for more information.

Features:

Exceptional Reach without a Jib: 82.4 ft. Full powered partly synchronized Boom

Self-Aligning Pentagonal Shaped Boom: reducing maintenance cost

Light Weight: increases payload

Out & Down Mainframe Outriggers: complete level ability Multiple Outrigger Span: easy to set up in various job sites

Faster Function Speeds: increase productivity

Superior Winch Performance: up to 280 FPM increase productivity

Shear Plate Mounting: more secure "no creep mount" **Large Hydraulic Reservoir:** superior cooling capabilities

Operator Friendly: dual control stations with exceptional job site viewing

Complete Load Monitoring: TADANO's exclusive "AMA" system



Highest Quality Boom Trucks on the Planet



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