



2501-MT



MAXIMUM LIFTING CAPACITY: 20,000 lbs  
EXTENDED LENGTH: 52.23'

**Non CDL Truck mount available**  
**Known World Wide, TADANO Quality in North America**



## TM-1052 (10 ton) crane specifications

### MAXIMUM LIFTING CAPACITY

20,000 lbs. @ 5' (6-part lines) / 14,000lbs@5' (6part lines : Derated chart)

13,200 lbs. @ 6' (4-part lines)

6,600 lbs. @ 16' (2-part lines)

### BOOM

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

Retracted length 14.44'

Extended length 52.23'

Extended speed 37.79' / approx. 43 s

Elevation Elevated by double-acting hydraulic cylinder

Elevation speed 1° to 82° / approx. 19 s

NOTE: Extended speed and elevation speed are calculated under the condition that the flow is 15.8 GPM

Boom point 3 sheaves

### WINCH

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

Single line pull 3,340 lbs.

Single line speed approx. 147FPM (@ 4th layer)

NOTE: Single line speed is calculated under the condition that the flow is 15.8 GPM

Wire rope

Diameter x length 13/32"(10mm) x 312'

Breaking strength 16,530 lbs.

Hook block 3 sheaves (For maximum lifting load)

### SWING

Hydraulic motor driven, Worm gear speed reduction, Continuous

360o full circle swing on ball bearing slew ring, Automatic swing lock

Swing speed approx. 2.5 rpm

### OUTRIGGERS

#### <CAB BACK MOUNTED>

Outriggers (Out & Down type)

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

Extend width Min. 7' 4-9/16"

Mid. 10' 9-29/32"

Max. 14' 1-9/32"

Rear stabilizers (Straight Down type)

Hydraulically extended jacks, integral with chassis frame

Span 7' 4-19/32"

#### <REAR MOUNTED>

Rear outriggers (Out & Down type)

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

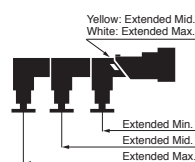
Extend width Min. 7' 4-9/16"

Mid. 10' 9-29/32"

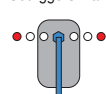
Max. 14' 1-9/32"

#### <CAB BACK MOUNTED>

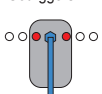
Extension Mark  
for Cab Back Mout



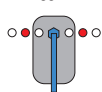
Outriggers Max.



Outriggers Min.

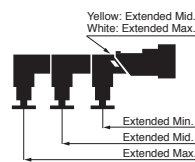


Outriggers Mid.

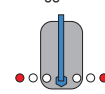


#### <REAR MOUNTED>

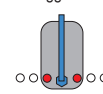
Extension Mark for Rear Mout



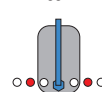
Outriggers Max.



Outriggers Min.



Outriggers Mid.





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## HYDRAULIC

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Hydraulic motor	Axial piston type for winch and swing
Control valves	Multiple control valves with integral safety valve
Recommended Hydraulic pump	Pressure : Max. 3,000 PSI capacity Delivery : Max. 15.8 GPM (60L/min)
Reserve tank	24 Gallons capacity *PTO/Mounting not included

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## ELECTRICAL SYSTEM

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Power supply	DC12V
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## SAFETY DEVICE

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Anti-two block with alarm
Hook safety latch
Level gauge
Hydraulic safety valves, check valves and holding valves
Over load alert with load indicator (TADANO's exclusive "AMA" system)
Load indication
Load moment ratio to rated load indication
Audible warning
External warning lamps

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## BOOM REST

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No required
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## LOCALLY PROVIDED EQUIPMENT

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Crane mounting parts (Include P.T.O, P.T.O Mounting, Pump )
Hydraulic pump

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## CRANE WEIGHT

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Approx. 6,900 lbs. (crane bare)
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## OPTIONS AND ACCESSORIES

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### +Radio Remote Controls

Model: RCS-F (Approved by FCC / IC)	
Control functions 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)
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+One person basket (Radio Remote Controls required, D & F chart only)



**TM-1052 (10 ton) crane capacity****RATED LIFTING CAPACITY (IN POUNDS)****CAPACITY CHART; A**

Load radius (ft.)	14.4 ft. Boom			23.9 ft. Boom			33.3 ft. Boom		42.8 ft. Boom		52.2 ft. Boom	
	Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended
		Max.	Min.		Max.	Min.		Max.		Max.		Max.
5	72°	20,000	8,800	80°	13,200	8,800						
6	68°	17,800	8,650	78°	13,200	8,600	82°	6,600				
8	58°	13,000	5,450	73°	12,950	5,100	79°	6,600	82°	6,600		
10	47°	9,650	3,650	68°	9,250	3,350	75°	6,600	80°	6,600	82°	5,700
12	33°	7,000	2,650	62°	6,650	2,350	72°	6,200	77°	6,200	80°	5,700
16				50°	3,900	1,250	64°	3,900	72°	3,900	76°	3,900
20				34°	2,650	700	56°	2,650	65°	2,650	71°	2,650
25							44°	1,700	57°	1,700	65°	1,700
30							27°	1,150	48°	1,150	58°	1,150
35									38°	900	51°	900
40									22°	700	43°	700
45											33°	550
	1°	5,600	2,050	1°	1,950	400	1°	950	1°	650	1°	400
		(13.6ft.)			(23.1ft.)			(32.5ft.)		(42.0ft.)		(51.4ft.)

**CAPACITY CHART; D (Bigger stability)**

Load radius (ft.)	14.4 ft. Boom			23.9 ft. Boom			33.3 ft. Boom		42.8 ft. Boom		52.2 ft. Boom	
	Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended
		Max.	Min.		Max.	Min.		Max.		Max.		Max.
5	72°	20,000	8,800	80°	13,200	8,800						
6	68°	17,800	8,800	78°	13,200	8,800	82°	6,600	6,350			
8	58°	13,000	7,850	73°	13,000	7,850	79°	6,600	6,350	82°	6,600	
10	47°	10,550	5,700	68°	10,550	5,700	75°	6,600	5,700	80°	6,600	82°
12	33°	8,900	4,250	62°	8,900	4,200	72°	6,600	4,200	77°	6,600	80°
16				50°	6,600	2,550	64°	6,150	2,550	72°	5,900	76°
20				34°	4,750	1,700	56°	4,750	1,700	65°	4,300	71°
25							44°	3,400	1,100	57°	3,300	65°
30							27°	2,450	600	48°	2,450	58°
35										38°	2,050	51°
40										22°	1,550	43°
45											33°	1,300
	1°	7,800	3,500	1°	3,850	1,250	1°	2,200	500	1°	1,450	1°
		(13.6ft.)			(23.1ft.)			(32.5ft.)			(42.0ft.)	(51.4ft.)

**CAPACITY CHART; C (Derated)**

Load radius (ft.)	14.4 ft. Boom			23.9 ft. Boom			33.3 ft. Boom		42.8 ft. Boom		52.2 ft. Boom	
	Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended
		Max.	Min.		Max.	Min.		Max.		Max.		Max.
5	72°	14,000	8,800	80°	13,200	8,800						
6	68°	14,000	8,650	78°	13,200	8,600	82°	6,600				
8	58°	13,000	5,450	73°	12,950	5,100	79°	6,600	82°	6,600		
10	47°	9,650	3,650	68°	9,250	3,350	75°	6,600	80°	6,600	82°	5,700
12	33°	7,000	2,650	62°	6,650	2,350	72°	6,200	77°	6,200	80°	5,700
16				50°	3,900	1,250	64°	3,900	72°	3,900	76°	3,900
20				34°	2,650	700	56°	2,650	65°	2,650	71°	2,650
25							44°	1,700	57°	1,700	65°	1,700
30							27°	1,150	48°	1,150	58°	1,150
35									38°	900	51°	900
40									22°	700	43°	700
45											33°	550
	1°	5,600	2,050	1°	1,950	400	1°	950	1°	650	1°	400
		(13.6ft.)			(23.1ft.)			(32.5ft.)		(42.0ft.)		(51.4ft.)

**CAPACITY CHART; F (Derated, Bigger stability)**

Load radius (ft.)	14.4 ft. Boom			23.9 ft. Boom			33.3 ft. Boom		42.8 ft. Boom		52.2 ft. Boom	
	Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended		Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended	Loaded Boom Angle	Outriggers Extended
		Max.	Min.		Max.	Min.		Max.		Max.		Max.
5	72°	14,000	8,800	80°	13,200	8,800						
6	68°	14,000	8,800	78°	13,200	8,800	82°	6,600	6,350			
8	58°	13,000	7,850	73°	13,000	7,850	79°	6,600	6,350	82°	6,600	
10	47°	10,550	5,700	68°	10,550	5,700	75°	6,600	5,700	80°	6,600	82°
12	33°	8,900	4,250	62°	8,900	4,200	72°	6,600	4,200	77°	6,600	80°
16				50°	6,600	2,550	64°	6,150	2,550	72°	5,900	76°
20				34°	4,750	1,700	56°	4,750	1,700	65°	4,300	71°
25							44°	3,400	1,100	57°	3,300	65°
30							27°	2,450	600	48°	2,450	58°
35										38°	2,050	51°
40										22°	1,550	43°
45											33°	1,300
	1°	7,800	3,500	1°	3,850	1,250	1°	2,200	500	1°	1,450	1°
		(13.6ft.)			(23.1ft.)			(32.5ft.)			(42.0ft.)	(51.4ft.)

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

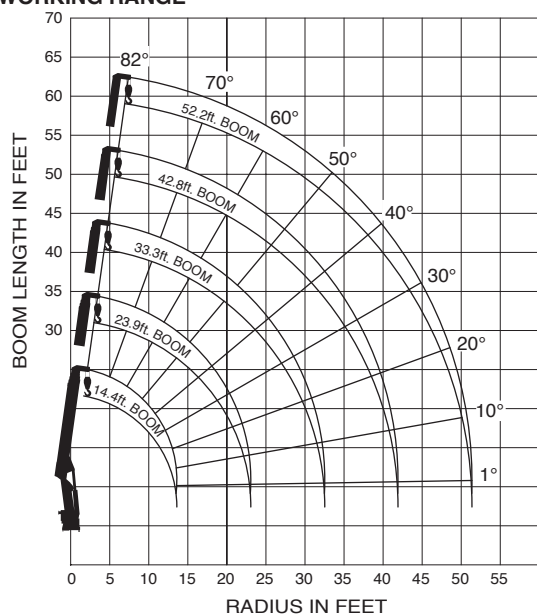
Maintain a clearances at least 10 feet between any part of the crane, load line or load and any electrical line carrying up to 50,000 volts.

One- foot additional clearance is required for every additional 30,000 volts or less.



## TM-1052 (10 ton) crane capacity

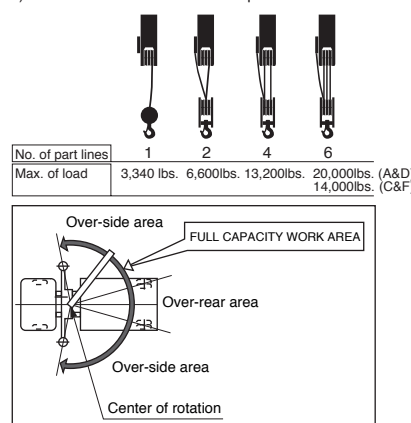
### WORKING RANGE



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.

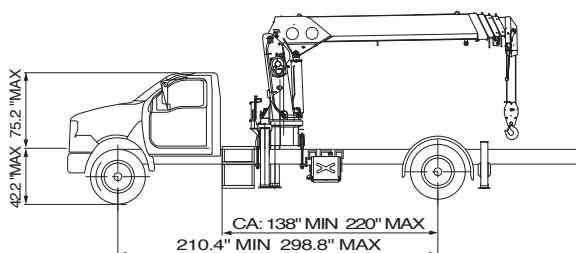
#### NOTE:

- 1) Rated lifting capacities on this chart show maximum allowable loads with the outriggers properly extended on a firm surface and the crane leveled and mounted on a factory recommended truck. The rated lifting capacities in shade area are based on crane strength and others, on its stability(not to exceed 85% of tipping).
- 2) 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) 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.
- 4) For boom length or radius not shown, use the rated lifting capacity of next longer boom length or radius.
- 5) When outriggers are extended to mid. position, use the rated lifting capacities for outriggers extended to min. position.
- 6) For boom lengths longer than 33.3ft., extend outriggers to max. position. (in capacity chart A & C)
- 7) For boom lengths longer than 42.8ft., extend outriggers to max. position. (in capacity chart D & F)
- 8) 42.8 ft. boom means mark on 4th boom section side plate is half visible.
- 9) Maximum load for number of part lines is as shown below.



## TM-1052 (10 ton) crane configurations

### <CAB BACK MOUNTED>

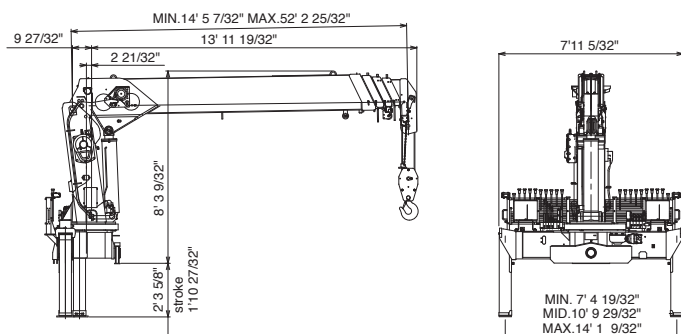


This mount requires, rear stabilizers, and additional counterweight in the underside of the truck. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements for variety of trucks.

	CAPACITY; A,C	CAPACITY; D,F
Gross axle weight rating(GAWR),front	9,000 lbs. or more	12,000 lbs. or more
Gross axle weight rating(GAWR),rear	17,000 lbs. or more	21,000 lbs. or more
Gross vehicle weight	26,000 to 55,100 lbs.	33,000 to 55,100 lbs.
Cab to Axle(CA)	138 to 220"	
Frame Section Modulus(SM) under crane; (per rail)	15 cu. inch	110,000psi
Frame Section Modulus(SM) over rear spring hanger; (per rail)	33 cu. inch	50,000psi
P.T.O. torque	10 cu. inch	110,000psi
P.T.O. revolution	22 cu. inch	50,000psi
Width for crane mounting	158 ft.-lbs. Min.	
Frame width range (inside to outside)	Approx. 350 to 1,750 rpm	
Frame height (ground to frame top)	Approx. 3' 7-7/8" min.	
	Approx. 2' to 3' 1-1/2"	
	Approx. 3' 6" max.	
	(Height of crane mounting base can be changed by combination of jack floats and crane bases)	

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

## TM-1052 (10ton) crane dimensional specifications



(This dimension depends on jack floats applied.)



The TADANO TM-1052 is the only true 10 ton telescopic crane offered today. With a tip height of 62 feet, this crane answers the demand for a compact, continuous rotation hydraulic crane that can be mounted in a number of configurations. With options of a work basket and radio remotes, this crane becomes an aerial work platform as well as a crane.

If you are in the market for a true 10 ton crane, the TADANO TM-1052 has the features everyone is asking for in a versatile crane package.

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:** 52.23 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 147 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*



#### **TADANO AMERICA CORPORATION**

333 NORTH PARK CENTRAL DRIVE, SUITE Z,  
HOUSTON, TEXAS 77073 U.S.A.

PHONE: (281) 869-0030

FAX: (281) 869-0040

E-mail: [sales@tadano-cranes.com](mailto:sales@tadano-cranes.com)

<http://www.tadanoamerica.com>