Highest Quality Boom Trucks on the Planet

Continuing technical development requires Tadano to retain the right to make specifications, equipment and price changes without notice. *Some specifications are subject to change

**Features:**
- Exceptional Reach without a Jib: 33.5 m. Full Power 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 85 m/min 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

Introducing the TADANO TM-20110, the TADANO Straight Truck Mount is available in behind the cab as well as rear mounts. TADANO has over 50 years of experience in manufacturing high quality cranes featuring innovative ideas and leading edge technology. The TM-20110 answers a real need for a true Boom Truck for all over the world. 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-20110 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.

**HYDRAULIC**
- Hydraulic motor: For winch and swing
- Control valves: Multiple control valves with integral safety valve
- Hydraulic pump: 3-section gear pump
- Winch system: (20.6Mpa)
  - 121L/min@ 2,430rpm pump
  - 99.6L/min@ 2,000rpm pump
- Boom and outriggers system: (21.1 MPa)
  - 95 L/min@ 2,430rpm pump
  - 78.2L/min@ 2,000rpm pump
- Swing system: (12.1 MPa)
  - 25 L/min@ 2,430rpm pump
  - 20.6L/min@ 2,000rpm pump
- Reserve tank: 295 L capacity

**ELECTRICAL SYSTEM**
- Power supply: DC12V with a converter (Step down converter from 24V)

**SAFETY DEVICES**
- Pendant type over-winding cut out
- Hook safety latch
- Level gauge
- Hydraulic safety valves, check valves and holding valves
- Over load shutoff with load indicator (TADANO’s exclusive “AMA” system)
- Load / Boom angle indication
- Audible warning
- External warning lamps

**BOOM REST**
- Removable

**TORSION BOX**
- **CAB BACK MOUNTED**
  - The weight of 22ft (6.7m) standard torsion box is approx. 1,800kg.
- **REAR MOUNTED**
  - The weight of 14ft (3.6m) torsion box is approx. 1,400kg.

**CRANE WEIGHT**
- Approx. 6,900 kg (bare), approx. 8,400kg (include all items; crane, tank, oil, rear stabilizer, boom rest, etc.)

**OPTION**
- **Hook block**
  - 1) 3,200kg capacity (for single line use, 60kg)
  - 2) 6,000kg capacity (for two part lines use, 100kg)
  - 3) 12,000kg capacity (for four part lines line use, 160kg)
  - 4) 18,000kg capacity (for six part lines use, 220.5kg)

*Note
A crane does not come with a hook block as a standard item and shall be ordered out from the above.
**TM-20110 (18 ton) crane specifications**

### MAXIMUM LIFTING CAPACITY

| 18,000 kg | 1.5m (8-part line) |

### BOOM

- **Retracted length**: 8.3 m
- **Extended length**: 33.5 m
- ** Extended speed**: 25.2 m / 73s @ 2,430rpm pump or 88s @ 2,000rpm pump
- **Elevation**: Elevated by double-acting hydraulic cylinder
- **Elevation speed**: -5 to 80˚ / 23s @ 2,430rpm pump or 28s @ 2,000rpm pump

### SWING

- **Swing speed**: 375˚ / 38s @ 2,430rpm pump or 47s @ 2,000rpm pump
- **Diameter x length**: 14 mm x 96 m
- **Single line speed**: 85 m/min (9th layer) @ 2,430rpm pump or 70m/min @ 2,000rpm pump
- **Extended speed**: 25.2 m / 73s @ 2,430rpm pump or 89s @ 2,000rpm pump
- **Extended length**: 33.5 m

### WINCH

- **Hydraulic motor driven, Planetary gear speed reduction**, provided with automatic brake
  - **Single line pull**: 3,265 kg
  - **4,400 kg (9Wtch capacity of permissible line pull at 1st layer)
  - **Single line speed**: 85 m/min (9th layer) @ 2,430rpm pump or 70m/min @ 2,000rpm pump
  - **Wire rope**: 14 mm x 96 m
  - **Breaking strength**: 134 kN

### OUTRIGGERS

- **CAB BACK MOUNTED**
  - Outriggers (Out & Down type)
    - Hydraulically extended sliders and hydraulically extended jacks, integral with crane frame
    - **Extend width**:
      - Min: 2.180m
      - Max: 4,000mm
      - Max: 5,700mm
  - Rear stabilizers (Out & Down type)
    - Hydraulically extended sliders and hydraulically extended jacks, integral with chassis frame
    - **Extend width**:
      - Min: 2.250m
      - Max: 3,500mm
  - 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: 2.180m
      - Max: 4,000mm
      - Max: 5,700mm
  - Front outriggers (Out & Down type)
    - Hydraulically extended sliders and hydraulically extended jacks, integral with chassis frame
    - **Extend width**:
      - Min: 2.180m
      - Max: 4,000mm
      - Max: 5,700mm

### WORKING RANGE

The above lifting heights and boom angles are based on a straight (unladen) boom, 8.3m additional clearance is required for every additional 30,000 volts or less. Maintain a clearances at least 3m between any part of the crane, load line or load and any electrical line carrying up to 50,000 volts.

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

### Boom Angle

<table>
<thead>
<tr>
<th>Boom Angle</th>
<th>60˚</th>
<th>73˚</th>
<th>0˚ (7.88m)</th>
<th>(13.57m)</th>
<th>(18.44m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load</td>
<td>24.0</td>
<td>250</td>
<td>2,900</td>
<td>2,100</td>
<td></td>
</tr>
</tbody>
</table>
| 11,300     | 18.0 | 8,3 | 8.0 | 5.0 | 2.5 | 0.3m additional clearance is required for every additional 30,000 volts or less. Maintain a clearances at least 3m between any part of the crane, load line or load and any electrical line carrying up to 50,000 volts.

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- 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 85 m/min increase productivity
- Shear Plate Mounting: more secure "no creep mount"
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- Operator Friendly: dual control stations with exceptional job site viewing
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**HYDRAULIC**
- Hydraulic motor
- Control valves
- Hydraulic pump
- Multiple control valves with integral safety valve
- 3-section gear pump
  - Winch system: (20 MPa)
    - 12L/min 2,430rpm pump
    - 99L/min 2,000rpm pump
  - Boom and outriggers system: (21.1 MPa)
    - 5L/min 2,430rpm pump
    - 78L/min 2,000rpm pump
  - Swing system: (12.1 MPa)
    - 25L/min 2,430rpm pump
    - 20L/min 2,000rpm pump
- Reserve tank: 295 L capacity

**ELECTRICAL SYSTEM**
- Power supply: DC12V with a converter (Step down converter from 24V)

**SAFETY DEVICES**
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- Hook safety latch
- Level gauge
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- Rear mounted:
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**CRANE WEIGHT**
- Approx. 6,000 kg (3axle, approx. 6,400kg include all items, crane, tank, cit, rear stabilizer, boom rest, etc.)

**OPTION**
- Swivel hook with safety latch
  - 1) 3,200kg capacity (for single line use, 60kg)
  - 2) 6,000kg capacity (for two part lines use, 100kg)
  - 3) 12,000kg capacity (for four part lines use, 160kg)
  - 4) 18,000kg capacity (for six part lines use, 220.5kg)
- Note: A crane does not come with a hook block as a standard item and shall be ordered out from the above.
This manual requires front stabilizers, rear stabilizers, boom center, front spring buffers and additional counterweight in the area of the crane. You must select a front luff base according to the height of the loaded and front outrigger configuration.

You must select a front luff base according to the height of the loaded and front outrigger configuration. The weight of the crane is shown for 272 flat bed length. The complete unit must be selected according to factory requirements and a test performed to determine actual stability and counterweight requirements for variety of trucks. The complete unit must be tested to determine actual stability and counterweight requirements for variety of trucks.

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**Specifications:**

- **Maximum Lifting Capacity:** 18TON

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**Hydraulic System:**
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- **Control valves** with integral safety valve
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- **Reserve tank**:
  - 295 L capacity

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**Electrical System:**
- **Power supply**:
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**Safety Devices:**
- **Pendant type over-winding cut out**
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