

## TADANO AERIAL PLATFORM

**MODEL : AW-250TG**

## GENERAL DATA

MAXIMUM PLATFORM FLOOR HEIGHT 25.0 m

MAXIMUM PLATFORM LOADING CAPACITY 450 kg or two (2) persons

BOOM 3-section  
9.8 m - 24.2 m

DIMENSIONS

Overall length	approx.	11,510 mm
Overall width	approx.	2,490 mm (axles retracted)
	approx.	3,590 mm (axles extended)
Overall height	approx.	2,710 mm

MASS approx. 17,000 kg

TRAVEL PERFORMANCE

Max. traveling speed	approx.	4.5 km/h
Gradeability (tan $\theta$ )	computed	23%

Specifications are subject to change without notice.

## AERIAL PLATFORM SPECIFICATIONS

<u>MODEL</u>	AW-250TG
<u>MAX. PLATFORM FLOOR HEIGHT</u>	25.0 m
<u>MAX. PLATFORM WORKING RADIUS</u>	23.5 m (Load 150 kg)
<u>PLATFORM EQUIPMENT</u>	<p>Made of steel tube Platform inside dimensions (length x width x height) --- 1.5 x 0.75 x 1.1 m</p> <p>Platform swing By a hydraulic cylinder. 120 degrees swing range --- Left 60°, right 60°</p> <p>(OPTIONAL) By a hydraulic motor. 180 degrees swing range --- Left 90°, right 90°</p> <p>Automatic leveling Dual hydraulic cylinders</p>
<u>BOOM</u>	<p>Three-section, fully powered synchronized telescoping boom of box construction. The synchronization system consists of a double-acting hydraulic cylinder, extension and retraction cables.</p> <p>Fully retracted length ---- 9.8 m Fully extended length ---- 24.2 m Extension speed ----- Approx. 62s / 14.4 m</p>
<u>BOOM ELEVATION</u>	<p>By a double-acting hydraulic cylinder fitted with a holding valve.</p> <p>Elevation speed ----- From -12 to +70 degrees in approx. 50s</p>
<u>ROTATION</u>	<p>Rotation of superstructure made by a hydraulic piston motor through worm reduction gear. 360 degrees continuous rotation in either direction on ball bearing rotating ring.</p> <p>Rotation speed, Maximum -- Approx. 0.8 min<sup>-1</sup> Tail swing radius ----- Approx. 2.640 m</p>

## HYDRAULIC SYSTEM

System is powered by tandem pump driven by a diesel engine mounted on rotating frame.

Hydraulic pump ----- Gear type

Control valves ----- Multiple servo-control valves with integral relief valves. Mounted on rotating frame. Controlled electrically from platform operation console.

Hydraulic oil reservoir -----

Approx. 155 liters

Filter ----- Fitted in return line.

## CONTROLS AND MONITORS

Controls of the machine is made either on platform or on rotating frame (lower section).

On platform

Control levers for superstructure rotation, boom telescoping, boom elevation and traveling.

Switches for steering, platform swing, emergency pump, emergency stop, traveling speed mode select, engine throttle, engine start/stop and warning horn.

Monitor lamps for AMC indicator, emergency stop and engine revolution.

On rotating frame

Switches for superstructure rotation, boom telescoping, boom elevation, lower section control, engine throttle, emergency pump, emergency stop and starter switch.

Hour meter and fuel gauge for engine.

Valves for platform leveling adjustment.

Monitor lamps for AMC indicator, engine oil pressure/cooling water temperature/chassis inclination, axle retracted, emergency stop, battery charging and engine preheat.

At chassis

A lever for axle extension/retraction.

AUTOMATIC CONTROL SYSTEM

Gradual speed-up and gradual stop system  
Superstructure rotation speed regulator  
Elevating speed regulator  
Automatic accelerator

SAFETY DEVICES

AMC (Automatic Moment and Motion Controller)  
Emergency pump  
Emergency stop system  
Hydraulic cylinder lock valves  
Hydraulic safety valves  
Traveling warning buzzer  
Superstructure rotation warning buzzer  
Foot switch (in platform)  
Lower section control switch (on rotating frame)  
Automatic travel speed restriction system  
Superstructure rotation lock pin  
Chassis inclination warning  
Extended axle lock pins  
Hand guard  
Control lever guards  
Touch switch  
Safety belt attachment  
Warning device of engine cooling water temperature and engine oil pressure  
Remaining fuel warning device  
Hydraulic oil temperature warning device

EQUIPMENT

Elevating cylinder protector  
Lower leveling cylinder protector  
Platform guards (rubber)

ACCESSORIES

Standard tools  
Chocks

OPTIONAL

Platform vertical and horizontal movement control system  
Work light (On platform)  
Head guard  
Safety belt  
Head light  
Platform wide swing : 180° (left 90°, right 90°)  
By a hydraulic motor  
Jack up device for axle extension/retraction  
Grease pump

CHASSIS SPECIFICATIONS

CHASSIS

Welded box section construction, with 4 wheels. Two hydraulic cylinders and two hydraulic jack cylinders (Optional, float size 300mm dia.) provided for axle extension.

Drive ----- Rear two-wheel drive by hydraulic motors.

Steering ----- By front two wheels via hydraulic cylinder.

Wheel base ----- 3,500 mm

Tread(track)- front ----- 2,215 mm (axles retracted)  
 3,315 mm (axles extended)

- rear ----- 2,215 mm (axles retracted)  
 3,315 mm (axles extended)

Minimum ground clearance -----  
 Approx. 240 mm

Minimum turning radius -----  
 Approx. 6.8 m at center of extreme outer tire (axles retracted)  
 Approx. 7.5 m at center of extreme outer tire (axles extended)

ENGINE

Make and model ----- MITSUBISHI S6S-T

Type ----- 4 cycle, water cooled diesel engine

Piston displacement ----- 4.996 L

Max. output (JIS) ----- 64 kW {87 PS} at 2,300 min<sup>-1</sup>

Max. torque (JIS) ----- 293 N-m {29.9 kgf-m} at 1,700 min<sup>-1</sup>

TRAVELING SYSTEM

Hydraulic motors drive wheels through planetary reduction gears.

Parking brake ----- Disc type, spring applied hydraulically released, automatic brake with mechanical release.

STEERING SYSTEM

Power steering by means of a double-acting hydraulic cylinder, electrically controlled from platform.

ELECTRIC SYSTEM

24 V DC

FUEL TANK CAPACITY

190 liters

TIRES

Puncture-free tires

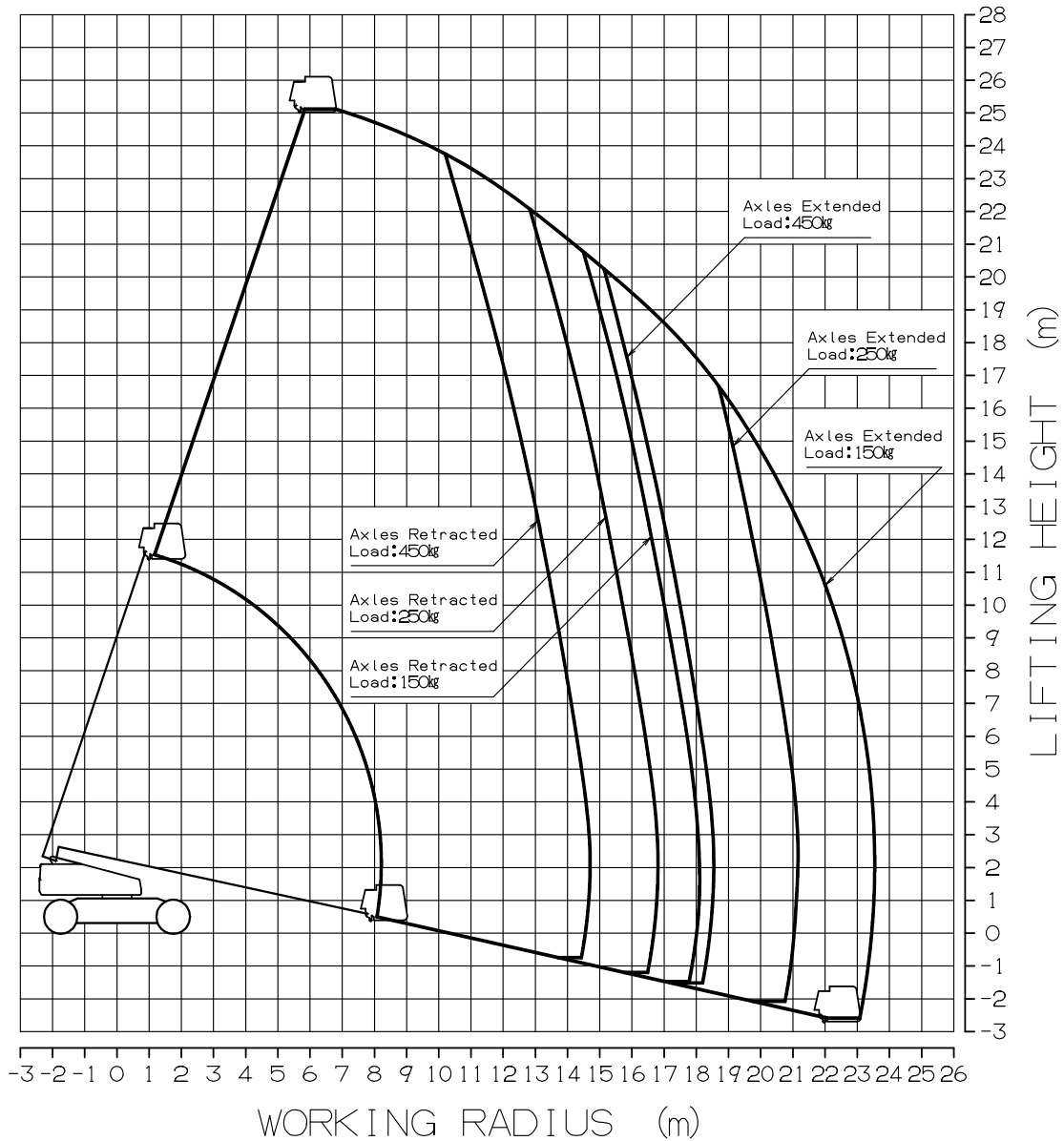
Front ----- 10.00 - 20, Single x 2

Rear ----- 10.00 - 20, Single x 2

WORKING RANGE

Platform loading capacity :

AMC (Automatic Moment and Motion Controller) makes stepless control for loads up to 450 kg maximum.



NOTES:

1. The above working range depends on the condition that the machine is working on firm, level ground surface.
2. The above figure does not include the deflection of the boom and the sink of the tires when loaded.
3. The machine can serve with the same performance in all directions.

EXTERNAL VIEWS

