TADANO AERIAL PLATFORM

MODEL : AW-370TG

GENERAL DATA

MAXIMUM PLATFORM FLOOR HEIGHT	37.4 m	
MAXIMUM PLATFORM LOADING CAPACITY	450 kg or two (2) persons	
BOOM	4-section 11.7 m - 37.2 m	
DIMENSIONS		
Overall length	approx.	13,670 mm
Overall width	approx.	2,490 mm (axles retracted)
	approx.	3,590 mm (axles extended)
Overall height	approx.	3,000 mm
MASS	approx.	20,000 kg
TRAVEL PERFORMANCE		
Max. traveling speed	approx.	4.5 km/h
Gradeability (tan θ)	computed	19%

Specifications are subject to change without notice.

AERIAL PLATFORM SPECIFICATIONS

MODEL	AW-370TG
MAX. PLATFORM FLOOR HEIGHT	37.4 m
MAX. PLATFORM WORKING RADIUS	18.8 m (Load 150 kg)
PLATFORM EQUIPMENT	Made of steel tube Platform inside dimensions (length x width x height) --- 1.5 x 0.75 x 1.1 m Platform swing By a hydraulic cylinder. 120 degrees swing range --- Left 60°, right 60° (OPTIONAL) By a hydraulic motor. 180 degrees swing range --- Left 90°, right 90° Automatic leveling Dual hydraulic cylinders
BOOM	Four-section, fully powered synchronized telescoping boom of box construction. The synchronization system consists of a double-acting hydraulic cylinder, extension and retraction cables. Fully retracted length ---- 11.7 m Fully extended length ---- 37.2 m Extension speed ---------- Approx. 93s / 25.5 m
BOOM ELEVATION	By a double-acting hydraulic cylinder fitted with a holding valve. Elevation speed ---------- From -10 to +72 degrees in approx. 52s
ROTATION	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. Rotation speed, Maximum -- Approx. 0.8 min^{-1} Tail swing radius ---------- Approx. 2.790 m

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	TADANO Automatic Moment Limiter (AMC) 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 Boom angle limiter (axles retracted) 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 Jack up device for axle extension/retraction Lower leveling cylinder protector Platform guards (rubber)
ACCESSORIES	Standard tools Grease pump Chocks
OPTIONAL	Platform vertical and horizontal movement control system Work light (On platform) Head guard Safety belt Head light Platform wide swing : 180^{o} (left 90^{o}, right 90^{o}) By a hydraulic motor

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^{-1}
Max. torque (JIS)	293 N-m {29.9 kgf-m} at 1,700 min^{-1}

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

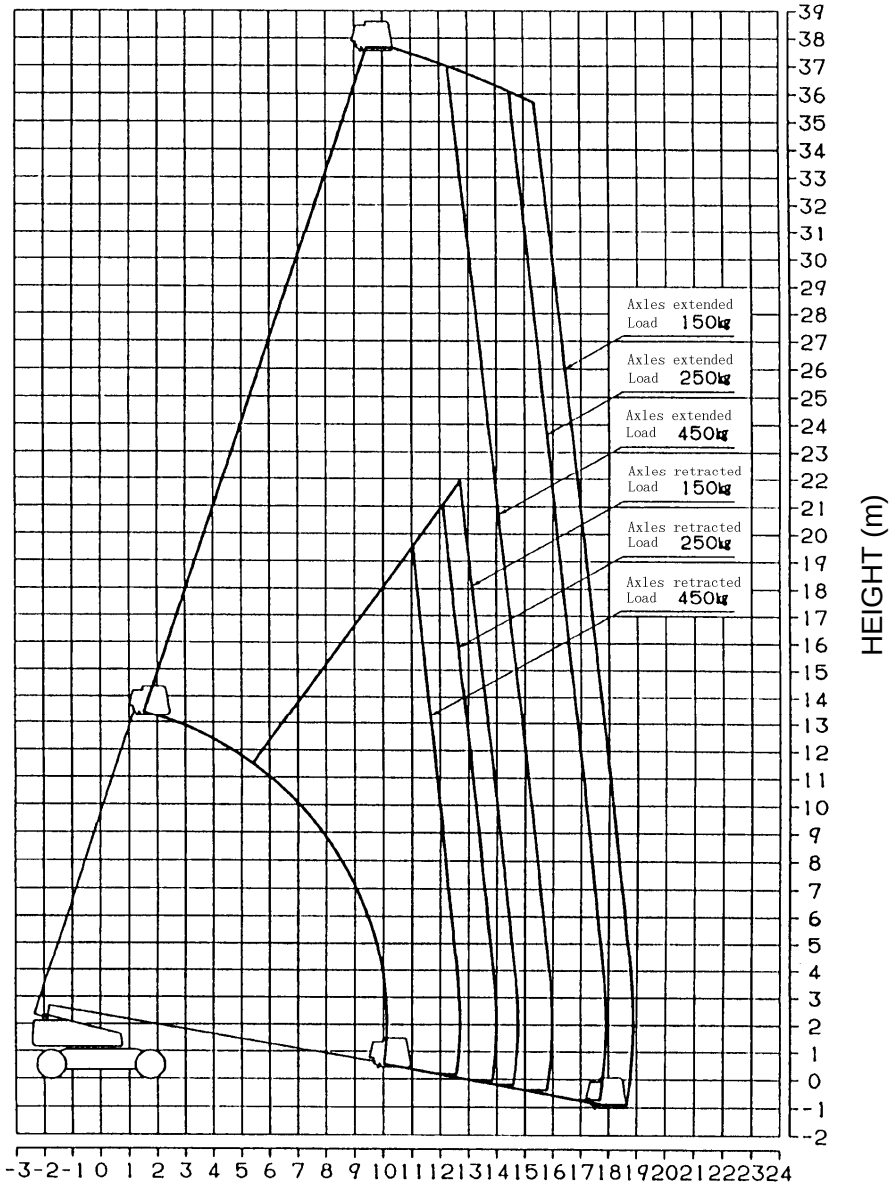
Puncture-free tires

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

WORKING RANGE

Platform loading capacity :

TADANO automatic moment limiter (AMC) makes stepless control for loads up to 450 kg maximum.



WORKING RADIUS (m)

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