

# ATOM 3500 - 2000 AUSTRALIA

## Engine

FPT  
N45 - 4 cylinders - 4500 cc - diesel  
93 kW @ 2200 rpm  
525 Nm @ 1250 rpm

## Fuel tank

Stainless steel, 160 litres capacity

## Chassis

AHSS steel, laser cut, hot galvanized

## Cab

Stainless steel, laser cut, powder painting

## Transmission

4 wheel drive and steer  
Heavy-duty hydrostatic continuous transmission  
Variable displacement hydraulic motor, bent axis, with automatic displacement adjustment  
Heavy-duty mechanical axles with integrated Limited Slip system

## Speed

I gear: 0 - 11 km/h  
II gear: 0 - 36 km/h  
@ 2000 diesel rpm

## Suspensions

CAB: independent airbags with dampers  
CHASSIS: hydraulic suspensions with nitrogen accumulators and hydraulic dampers, pivoting front axle

## Brakes

Hydrostatic brake, oil immersed discs brakes, negative hydraulic park brake

## Spray equipment

Chemicals diaphragm pump with brass heads and manifolds  
160 - 180 - 220 l/min - 50 bar

Tank mixture agitation:

Triple flow agitator+ double flow high pressure agitator > 1000 l/min total flow

Pump suction filter with 3-ways-valve: suction, off, rinse

Solenoid valves for nozzles sections, electric pressure regulator, motorized dump valves

## Tank

Fibreglass with acid-proof treatment  
Clean water tank for quick rinse, hand washing tank  
Capacity  
ATOM 3500: 3550 litres  
ATOM 2000 AUSTRALIA: 2100 litres

## Blower

VAC 896 fully stainless steel, ø896 axial fan, 12 blades, double air outlet, front suction  
VAC 896 TARGET fully stainless steel, tower shaped, ø896 axial fan, 12 blades, double air outlet, front suction  
VAC 997 fully stainless steel, ø997 axial fan, 16 blades, double air outlet, front suction

## Nozzles

Double or triple no-drip nozzles with two, four or more nozzles sections.  
Low, medium and high application rates, from 100 up to 3000 litres/ha.

## Controls

Nozzles sections ON/OFF + Dump ON/OFF  
Automatic spray rates controller  
Electronic tank level + working pressure display  
Automatic cab climate controls  
Hydraulic suspensions controls  
GPS guidance system + GPS spraying assistance with spray controller interface

## Optional

Stainless steel hose reel, 15 metres hose, hand gun  
Stainless steel boxes

## Tyres

425 - 55 R17 Radial type

## Vehicle weight

Unloaded: 4780 kg

## Dimensions

ATOM	3500	2000 AUSTRALIA
Overall length	5.77 [m]	5.77 [m]
Overall height	2.25 (cab) - 2.12 (tank) [m]	2.15 (cab) - 1.9 (tank) [m]
Overall width	2.16 (wheels) - 1.9 (body) [m]	2.16 (wheels) - 1.76 (body) [m]
Turning radius (out of wheels)	3.7 [m]	3.7 [m]

## ANDREOLI ENGINEERING

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# ATOM



# 3500



professional sprayers

# 2000 AUSTRALIA



Ci riserviamo il diritto di modificare i nostri modelli e le loro caratteristiche senza preavviso / Characteristics and descriptions are indicative and not binding / Nous nous reservons le droit de modifier nos modeles et leur caracteristiques sans preavis

# ANDREOLI ENGINEERING

# ATOM 3500 2000 AUSTRALIA

designed for professional  
large fruit tree growers

New top class ATOM self-propelled sprayer for chemicals application gives maximum comfort and safety and an unparalleled spray delivery system. Due to its unique power, manoeuvrability, ventilation efficiency, ATOM enables significant reduction of spraying time.



Strong and reliable 130 HP diesel engine.  
Heavy-duty axles with integrated Limited Slip system.  
Heavy-duty hydrostatic transmission.



Cabin airbag suspension system over chassis hydraulic suspension system giving the machine a dream like ride. Machine height and ground clearance can be adjusted instantly and are electronically controlled.



3 modes hydraulic steer: 2 wheel steer, 4 wheel steer, 4 wheel steer crab.



Fully stainless steel **VAC** blower main benefits:  
- air flow pattern perfectly matching geometry of vegetation at any height  
- air flow pattern symmetric and even  
- increased total air flow  
- reduced fuel consumption  
**VAC** intakes from a wide front area, thus fan suction is clean and avoids chemicals and leaves intake. In the **VAC** system the 100% of the airflow generated by the fan reaches the vegetation with best power and accuracy.



**VAC TARGET** tower shaped blower has been design for espalier orchards. **VAC TARGET** nozzles position perfectly matches the shape of vegetation, ensuring best efficiency, minimizing chemicals waste and giving best resistance against drift. Extra adjustable top flaps allow regulation of air pattern according to geometry of vegetation.

**VAC 997 AVOCADO** blower has been designed for very high trees, taking maximum advantage of its 997 mm diameter high efficiency axial fan.



**VAC** ventilation system has been developed using the most advanced 3D CFD fluid-dynamics simulation systems, enabling a detailed analysis of the air velocity field and a perfect optimization of all blower components.



Large roomy cab, fully stainless steel, giving top level of comfort. Superb visibility. Large pneumatic seat with automatic weight adjustment. Wide adjustable passenger seat. High power air conditioning and heating.



Joystick with nozzles remote control switches.  
All remote controls.  
Automatic climate control.  
Hydraulic suspensions controls.  
Fully electronic tank level and pressure display.  
Automatic spray rates controller.  
GPS guidance system.

Pressurized cab.  
Air filtering system, chemicals and dust proof.  
Cab compliant with European Class 4 protection level.



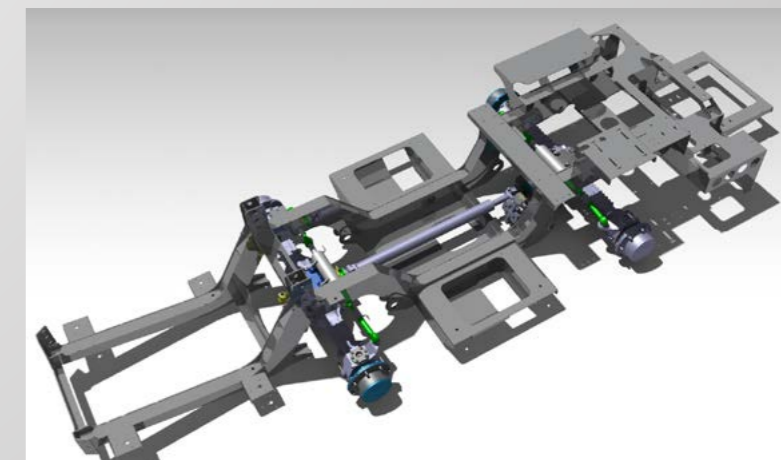
Low tank fill-up points.  
Venturi chemicals suction system.



Foldable ladder for easy and safe top tank access.



Back hose reel with hand gun. Front and rear auxiliary LED work lights.



Advanced High Strength Steel chassis, laser cut, hot galvanized.