



## Orchard Sprayer

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# Introduction

With more than 25 years of experience in Agricultural Spraying industry, we as Timsan Tarım Inc. realized a necessity for high quality, long lasting agricultural sprayers; which come with good design and reasonable price.

TIMSPRAYER® founded with the responsibility to create high quality, reliable, tough and competitively priced sprayers which are easy to operate.

In order to comply above TIMSPRAYER® standards we are working with world leaders for supplying the necessary parts:

Annovi&Reverberi for pumps,  
Bondioli&Pavesi for gearboxes and shafts,  
Arag for plastic components  
Braglia for brass components  
Albuz for ceramic nozzle tips

Our main office is at the heart of Turkey, Istanbul; and our assembly lines are located in Manisa and Isparta with a total of 12.500m<sup>2</sup>.

# Orchard Sprayers

*Timsprayer Orchard Sprayers equipped with latest technology, which ensures long lasting, high performance fruitful spraying.*



**MOS 400**



**TOS 1600**

**MOS 600**



**TOS 1200**



**TOS 2000**



**TOS 3000**



## Chassis

The chassis is produced from certified iron with a robot welding system that creates resistant chassis. Electrostatic coat painting with high corrosion protection provides solidity to our chassis.



## Tank

UV protected polyethylene main tank comes with acid proof treatment. Hand washing tank and clean water tank is equipped with the main tank. Good weight distribution of the machine, favorable centre of gravity. Smooth tank walls prevent any residual inside. Clean water tank helps to flushing and diluting residual quantities. TIMSPRAYER® compact tank design sustains easy operation at high density orchards and low trees. Tank can be equipped and designed with various options to meet the needs of the operator.



## Draw Bar or Quick Coupler System

Drawbar designed to allow the sprayers wheel to follow tractors' path. 80° Bondioli Pavesi shafts are used at TIMSPRAYER® TOS series to satisfy long lasting and perfect operation. 3-point quick coupler system enables safe and easy attachment to the tractor.



## Agitators

Arag Hydraulic agitator with polypropylene body equipped with double Venturi circuit to increase efficiency and reduce water consumption. Nicely operates at low pressure (nozzles 5-7-9 mm) or at high pressure (nozzles 2-3mm)



## Diaphragm Pumps

Sustain perfect long lasting operation for use in agriculture for heavy duty orchard spraying.

With years of experience in spraying our supplier Annovi Reverberi ensures with its engineering design smooth operation and even delivery at all times. Diaphragms are in NBR, H.P.D.S., Desmopan or Viton. Seals are in NBR or Viton. New design diaphragm cut-out system to prevent contact tearing even in heavy-duty operating conditions. The pumps are available for requested flow rates



## Filters

TIMSPRAYER® orchard sprayers are equipped with brass pressure filters that prevent the clogging of the nozzles and Arag suction filters to operate the diaphragm safely and sustainably. Basket Filter on the tank lid helps to make filtration prevents the spray agent from dirt while filling into the spray cocktail tank via tank access lid.



## Fans

TIMSPRAYER® fans are equipped with latest technology made in Italy impellers to improve airflow, and Bondioli Pavesi dual speed gearboxes which ensures long lasting operation.

Our impellers external diameters vary from 800 to 1250 mm, fixed in 7 precise standard angles (15°-20°-25°-30°-35°-40°-45°)

It is possible to use the impellers in heavy-duty conditions with low and high temperatures and speeds and even in chemically aggressive environments.

Aluminum and Plastic options are available upon request.

It is possible to choose from our wide range of fan types which would best suit your application:

- Rear Suction Fan**
- Reverse Suction Fan**
- Double Impeller Fan**
- Tower Type Fan**



## Nozzle Holders & Nozzle Tips

TIMSPRAYER® orchard sprayers are equipped with Braglia Brass Nozzles for durability and perfect spraying. TIMSPRAYER® nozzles are two sided; the adjustable side allows spray pattern variation for high three coverage. Nozzles are fitted with check valve that assures efficient and long lasting operations in a wide range of pressures. Wide range of Albus ceramic tips can be chosen from anti-drift models to simple ceramic tips. Please contact our sales team to choose the best nozzle tip that will suit your application.





## Control Units

TIMSPRAYER® uses wide range of control units for different operations from simple manual control units to electrically and electronically driven control units:

### BY MATIC 50

Control unit with working pressure-regulating valve, single lever for partial or total closure and discharge, glycerin bath pressure gauge with colored dial. Easy to operate.

### Arag Bravo 180

Bravo 180S is the smallest computer belonging to precision farming range, but still offering high performance. A compact and cost-effective tool that is extraordinarily efficient and precise to meet all requirements of small-medium farming machine operations.



BY MATIC 50



Arag Bravo 180



## Service

### **TIMSPRAYER® aims for the highest customer satisfaction.**

Our sales partners and technicians have continuous training in our headquarters about our products. They would be able to answer all of the questions our farmers and contractors have about the products.

Farmers can be in direct contact with our sales partners for the original spare parts inquiries.



### **Choose Original Spare Parts for your machine**

By using original spare parts you would be able to continue to have the best performance, increase the durability, and long lasting operation from your sprayers.



### TECHNICAL SPECIFICATIONS

Type Of MOS Sprayers	400 L	600 L	1200 L	1600 L	2000 L	3000 L
Empty Weight (kg)	260	295	580	620	740	810
Length (m)	1.05	1.1	3	3.1	3.2	3.5
Height (m)	1.2	1.25	1.70	1.75	1.75	1.84
Transport Width (m)	1.36	1.42	1.6	1.66	1.70	1.95
Filters	Arag	Arag	Arag	Arag	Arag	Arag
Tank Agitator	Arag	Arag	Arag	Arag	Arag	Arag
Clean Water Tank	-	✓	✓	✓	✓	✓
Hand Washing Tank	Option	Option	✓	✓	✓	✓
Cleaning Mixing Rollers	-	-	✓	✓	✓	✓
Fill Level Indicator	Ball Level Gauge	Ball Level Gauge	Ball Level Gauge	Ball Level Gauge	Ball Level Gauge	Ball Level Gauge
Nozzle	Braglia M82 10 Unit	Braglia M82 12 Unit	Braglia M82 16 Unit	Braglia M82 12 Unit	Braglia M82 12 Unit	Braglia M82 12 Unit
Nozzle Tips	Albuz Ceramic	Albuz Ceramic	Albuz Ceramic	Albuz Ceramic	Albuz Ceramic	Albuz Ceramic
Annovi Reverberi AR 713 Pump	✓	-	-	-	-	-
Annovi Reverberi AR 903 Pump	Option	-	-	-	-	-
Annovi Reverberi AR 1064 Pump	-	✓	-	-	-	-
Annovi Reverberi AR 1203 Pump	-	Option	✓	-	-	-
Annovi Reverberi AR 1604 Pump	-	-	Option	✓	✓	-
Annovi Reverberi BHA 170 Pump	-	-	-	-	Option	✓
Annovi Reverberi BHS 170 Pump	-	-	-	-	Option	Option
Annovi Reverberi BHA 200 Pump	-	-	-	-	Option	Option
Annovi Reverberi VDR 50 Control Unit	-	Option	-	-	-	-
Annovi Reverberi By-Matic	Option	Option	✓	✓	✓	✓

### TECHNICAL SPECIFICATIONS

Type Of Orchard Sprayers	400 L	600 L	1200 L	1600 L	2000 L	3000 L
Braglia Pressure-Mate	-	-	Option	Option	Option	Option
Arag Bravo 180 Control Unit	-	-	Option	Option	Option	Option
Braglia Electric M 200	-	Option	Option	Option	Option	Option
Pulley System Gearbox	✓	-	-	-	-	-
Bondioli Pavesi Bima M30 Gearbox	Option	✓	✓	✓	-	-
Bondioli Pavesi Bima M47 Gearbox	-	-	-	Option	✓	✓
Bondioli Pavesi Bima M60 Gearbox	-	-	-	-	-	Option
Impeller Ellettrouno 28 inch	✓	-	-	-	-	-
Impeller Ellettrouno 32 inch	Option	✓	✓	✓	✓	-
Impeller Ellettrouno 36 inch	-	-	-	-	Option	✓
Impeller Aluminum with Clutch	Option	Option	Option	Option	Option	Option
Internal / External Cleaning	Option	Option	Option	Option	Option	Option
Road Lighting	✓	✓	✓	✓	✓	✓
Eco-Sonar Kit	Option	Option	Option	Option	Option	Option
Handgun (Arag/Braglia)	Option	Option	Option	Option	Option	Option
Tower Type Fan	-	Option	Option	Option	Option	Option
Reverse Suction Fan	-	-	Option	Option	Option	Option
Double Impeller Fan	-	-	Option	Option	Option	Option
Leaf-Protection Screen	-	-	Option	Option	Option	Option
Storage Compartment	Option	Option	Option	Option	Option	Option
Müller Elektronik Tank Meter	Option	Option	Option	Option	Option	Option





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