

The Atlantic RSA 500 Shotcrete Spraying System is ideal for working on large and medium section tunnels, mines, caverns and high slopes. It offers the flexibility of spraying pre-mixed wet shotcrete and dry gunite, with steel fibre concrete and polypropylene fibre concrete.

With sophisticated engineering, the equipment has a compact design, small turning radius, rigid chassis, heavy duty off-highway axles, four wheel drive and four wheel steering, thus making it flexible to work in narrow tunnels and meet the toughest conditions on any jobsite.

Product Features:

- ✓ Suitable for working in tunnels and open slopes with a vertical spraying reach of 17 m.
- ✓ Rigid chassis with heavy duty off-road axles.
- ✓ Diesel engine for transport mode and electric motor for pumping and spraying.
- ✓ Power cable drum with 60 m long cable (100 m Optional).
- ✓ 4-wheel drive and 4-wheel steering with crab mode for easy maneuverability.
- ✓ Bi-directional travel with 180° swivel for the driver's seat and steering wheel to face either direction of travel.
- ✓ Onboard Air Compressor for fully automated spraying operation.
- ✓ Built-in Dosing System, suitable for all liquid additives with automatic synchronization between the concrete pump and dosing unit.
- ✓ Built-in High Pressure Water Pump and Water Tank for easy cleaning of the equipment.



Technical Specifications

ATLANTIC RSA 500	
4-WHEEL DRIVE CHASSIS	
Axle	DANA Spicer off-road axles
Engine	75 kW / 2300 rpm, Deutz Water Cooled, 4 Cylinder
Transmission & Gearbox	Hydrostatic, 2-speed in both directions
Steering	Four-wheel steering (4WS), crab mode
Speed	Max. 18 km/hr
Braking system	Hydraulic Assisted brakes Disc brakes in oil bath for each wheel Parking brake
Lights	2 x 220 W LED lights 6 x 24 V auxiliary halogen beam lights
Driver Cabin	180° swivel cabin
Diesel tank	133 litre
Dimensions (L x B x H)	7800 x 2400 x 3000 mm
Weight	16,000 kg including Air Compressor
SPRAYING ARM	
Spraying Height (Max. / Min.)	17 m / 4 m
Spraying Width (Max. / Min.)	30 m / 7.7 m
Number of arm extensions	2 telescopic
Maximum arm angle	+60° / +30° -23° / -62°
SPRAY HEAD	
Rotation	360°
Inclination	+120° / -120°
Spraying head	8° nutation / 60 rpm / 360° rotation

CONCRETE PUMP

Type	Double-piston, hydraulic drive
Max. Flow (theor.)	4 - 30 m ³ /hr
Concrete Pressure	75 bar
Max. Aggregate Size	16 mm
Hopper Capacity	350 litre
Filling Height	1440 mm

DOSING UNIT

Adjustment Range	30 - 700 litre/hr
Max. Working Pressure	10.5 bar
Additive Tank Capacity	1000 litre
Control System	PLC, Synchronized with Concrete Pump

AIR COMPRESSOR

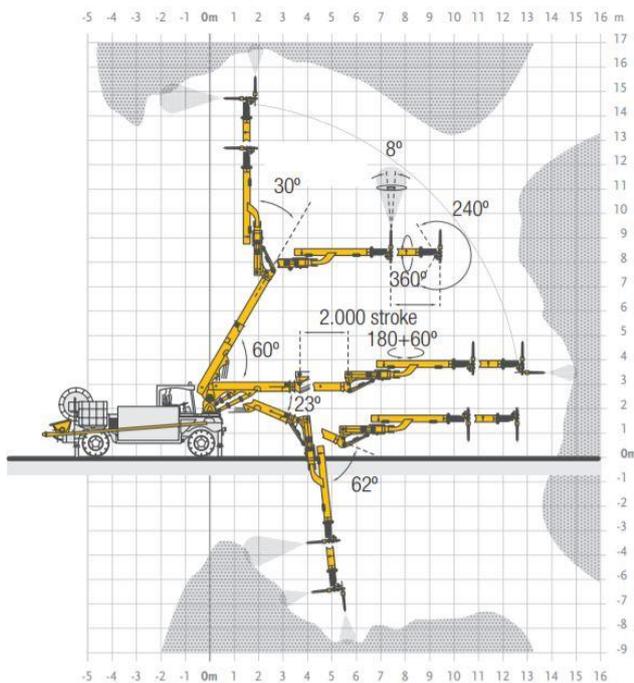
Max. Air Flow	11 m ³ /min
Max. Working Pressure	7.5 bar

HIGH PRESSURE WATER PUMP

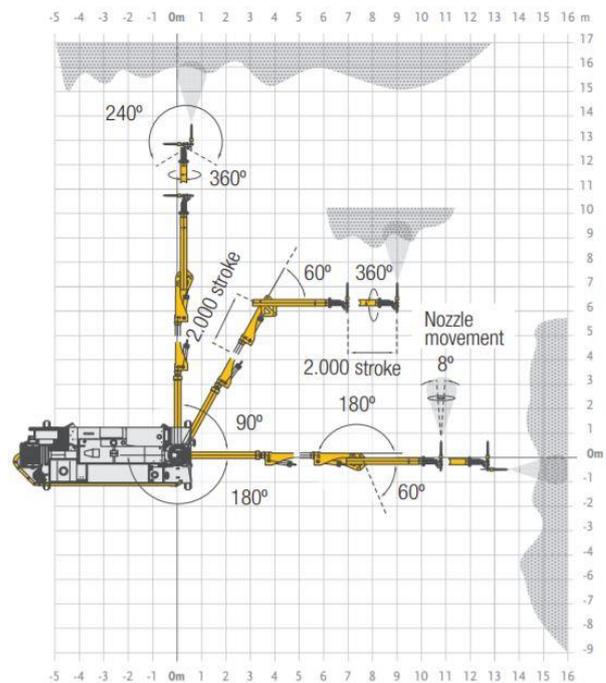
Motor Output	5.5 kW
Max. Flow Rate	15 litre/min
Max. Output Pressure	150 bar

CABLE REEL

Drive	Hydraulic
Cable Length	60 m
Voltage	3 x 400 V / 50 Hz



Vertical spraying reach



Horizontal spraying reach



Components



DELIVERING MORE EFFICIENCY, FLEXIBILITY AND POWER



Operation Panel



Hydraulic Pump



Air Filter



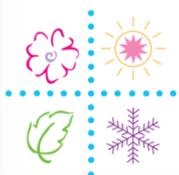
Chassis



Hopper



Dosing Unit



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