

Automotive Nozzle Burner

Description

The Aerogen Automotive Nozzle burner is specifically engineered for use in the Flame Plasma Treatment of plastic materials with complex shapes. It is ideally suited to flame treating grooves strips and rims. The conical shape of the flame allows for accurate treatment in recessed areas of a 3 dimensionally contoured substrates such as head lamps, body mouldings and seats.

Designed to work in conjunction with the Aerogen automotive combustions systems, the Nozzle burner is designed to be robot handled.



Features:

- Unique proprietary design
- Extended flame plasma height 40 –200 m
- High levels of flame plasma stability with no flame lift
- Regular, uniform conical flame.
- Flame diameter to 50mm

Applications:

- Multi axis & Gantry robotic systems
- Suitable for integral vehicle mouldings

The Nozzle burner comes complete with integral ignition electrode. The single probe in the centre of the burner to ensures reliable ignition and detection; thus contributing to the strong robust design of the burner.

The burner is designed to give a wide range of outputs so the flame size can be appropriately tuned to the process. The burner is generally designed to be used with the Aerogen range of automotive flame treatment systems. This ensures reliable and repeatable combustion conditions are always achieved giving the highest levels of adhesion consistency in the products treated.