

Application example

Filter with pointed corners

PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SCREENING



Task

The ventilation opening in an electronic component has to be protected against the ingress of dust, using a fine fleece filter. The square filters measuring 25x25 mm require a sealed edge zone and pointed corners.

Solution

The ultrasonic Cut&Seal technology is used to produce this filter pad with a sealed edge zone and pointed corners. With this process, cutting and sealing functions can be carried out simultaneously. Due to the small size of these filters, several parts can be produced simultaneously in one working cycle. The cutting forms are designed for multiple use and special attention must be given to the design of the anvil with regard to the pointed corners.

Configuration advantages

The ultrasonic cutting process is an economically efficient production method, which meets all the requirements for the required edge zone design. The process is reliable, easy to automate and offers various options for quality control. The use of multicavities allows a high production output.



The application was produced on a USP3000 welding machine, or with components and a cutting form for multiple use, integrated into a production line.