

APPLICATION NOTE

Sonic Welding - Cooling the Gun

Meech Air Technology - Vortex Tube

Problem

A company uses Sonic Welding to join two plastic materials together. When Sonic Welding is used for prolonged periods the following problems occur:

1. The heat generated from the Sonic Welding process would cause the gun to overheat.
2. This meant the operator would be forced to stop working, wasting time and money.

Solution

The basic Meech Air Technology Vortex Tube was mounted onto the hand held Sonic Welding Gun with the outlet directed onto the tip of the gun. By operating the Vortex Tube and the Sonic Gun simultaneously the tip of the Sonic Gun was cooled sufficiently to prevent overheating and stop unnecessary downtime.

Fig.



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