Precision Placement of Small Conductive Washer

CUSTOMER
Automotive Electronics Manufacturer

PART
Electrically Conductive Washer

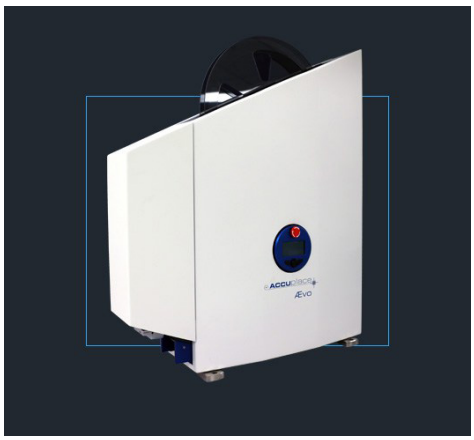
MATERIAL
Chomerics S6305 electrically conductive silicone rubber, 0.32” thick, with PSA on one side

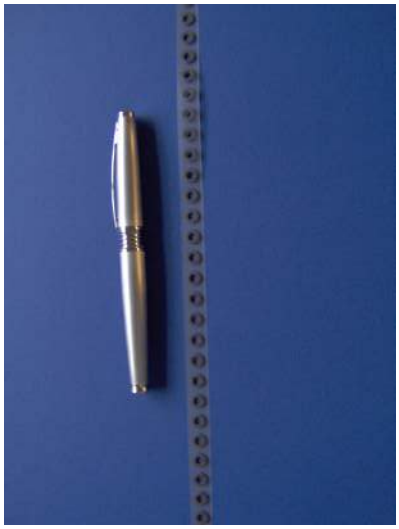
APPLICATION
Electrically conductive washer acts as an EMI shielding gasket where the two metal cast halves attached on a standoff.

CHALLENGE
The customer needed a precisely cut washer that would act as a gasket on the standoff where two metal cast halves of an engine controller (EC) were attached. The gasket also needed to shield the EC from electromagnetic interference (EMI) with other “under-the-hood” electronics. The customer also required an efficient and cost-effective solution because the washer was a high-volume small part (4,000,000 anually). Rapid and accurate placement of the part was required to meet production efficiency and quality metrics.

SOLUTION
Marian offered to supply the customer with a part that could be placed accurately and automatically using the AccuPlace system. Though the die-cut part was extremely small (.256” x .157”), Marian was able to cut them precisely. In fact, Marian developed a specialized process to ensure that the small center slugs were removed uniformely.

CUSTOMER BENEFITS
- The conductive silicone material combined with the precise cut of the washer ensured EMI control.
- The reliable material dimensions of the washer assured good height and width accuracy on the standoff surface.
- Marian developed a process to remove the center slugs of the washer, ensuring a high level quality with every component.
- The AccuPlace system automatically placed parts at high volumes meeting the customer’s productivity metrics.





(Left) Accuplace automated placement machine

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