



## **CASE STUDY 20060914S**

### **Rejections Reduced in Assembly Process**

#### *Spray Accuracy Prevents Scoring*

A manufacturer of rubber parts for the automotive industry cut their part rejections to about 5% by automating the spray process for their straight oil.

**Application:** Lubrication of rubber mounts to be fit onto metal part in assembly process.

**Problem:** Hand spraying of a water based coolant was not providing coverage required to prevent scoring of rubber mount as it was fit onto metal part. Since the tolerance was very tight, any surface that did not receive an adequate coating of fluid was easily damaged as the rubber mount was joined with the metal part. This scoring was unacceptable to the customer and caused a large amount of daily rejections.

**UNIST Solution:** A four outlet Serv-O-Spray was configured for the application. The four outlets allowed for all the required surfaces to receive uniform lubrication, each time a part was ready to be fitted. The spray cycled once for each part assembly. The fluid was changed from water based to the customer approved straight oil.

**Results:** Rejections are now less than 5%.