

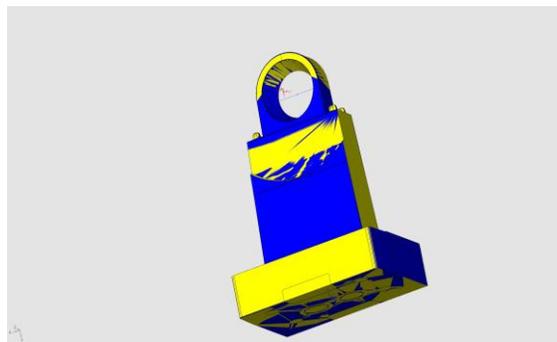


## **Case Study – Reverse Engineering**

### **Challenge**

Our Customer A Tier 1 Automotive supplier has the problem with receiving Data for tooling built off-shore. As components wear out or become damaged replacing or repairing become a challenge to say the least. Without 3-D data to tool-path from you are limited to creating or repairing components that might not meet specs. In some cases “Hand Work” by trial and error has been done to fix components without data.

Knowing this problem Maximum Mold set out to find a solution.



### **Solution**

Maximum Mold worked with our customer to nail down our reverse engineering process. Our customer supplied us with a new slide core from a Die Cast Die, and a good 3-D model of the slide core for reference. With this new slide core we set out to create reliable, accurate data. We had this slide core Laser scanned without any data supplied, with this data we were able to create a new 3-D model of the slide core.

### **Results**

After we completed our new model from the scanned data we over-laid the new model to the model provided for a comparison. What we found was deviations of .013mm-.038mm (.0005”-.0015”). These dimensions put us well within our customer’s tolerance goals for this part.

### **Conclusion**

With this process you can hand over the Headache of not having data, letting us handle this for you saves you valuable time, and money!