Tech Brief 01-05-016

Scanning a Cell Phone

Figure 1 – Original Cell Phone

Figure 2 – STL file from scan data

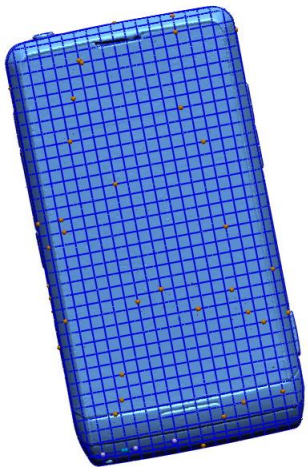

Figure 3 – section curves

Problem:

Cell phone accessory makers normally do not have access to manufacturer's CAD models. They also need an accurate method to ensure they can bring their products to market quickly with the least amount of iterations in the design process.

Traditional Method:

Purchasing costly cad models from manufacturers, or attempting to design around a physical phone and create cad data that may be sacrificing accuracy.

NeoMetrix Solution:

- Scanned using the Konica-Minolta Range 7 scanner. (accuracy of .0015")
- Scan Data is registered, merged, and aligned in Rapidform XOR.
- STL file is created from scan data. (Figure 2)
- Using the Stl file and the X,Y, and Z planes cross sectional curves are created in Rapidform XOR.

NeoMetrix Advantage:

- Rapidly capture part geometry through laser scanning
- Customer can use STL and section curves as a reference for design of accessories in Pro-Engineer.

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