

Lund 3D Scans in the Tightest Spaces

Lund International designs and manufactures many after-market products for cars and trucks to include grills, window vents, floor and cargo mats and much more. This market is very competitive and to stay ahead of the competition you must employ the latest technology to get to market fast as new automobile designs are released at a rapid pace.

The Problem

Lund had been using a tripod mounted 3D scanner to scan the interiors and exteriors of automobiles to aid in the design of their products. Because automobiles are so complex in shape 3D scanning is a necessity. This proved extremely difficult with their current scanner, especially in the tight space of a vehicles interior. Many times it just wasn't possible to collect the data needed for an accurate design. To further complicate this, most automobile manufacturers will not release their CAD data to aftermarket suppliers. They needed a better solution.

The Solution

Lund contacted EMS for a demonstration of the Z Scanner hand held laser scanner. Lund was so impressed they purchased a Z Scanner and went to work immediately. "The Z Scanner 700 is far and away our most cost-effective data capture alternative," said Brent Rose, mechanical engineer of Lund International. "Nothing else has the mobility to get into interiors and other tight places. Z Scanning has opened up some exciting possibilities for new product lines in the near and long term."

Lund captures the data with their Z Scanner and then imports the raw scan data into GeoMagic where it is edited and then exported to CATIA. Lund then uses CATIA to do their product design and manufacturing from the Z Scanner scan data.

"With the Z Scanner and Geomagic and CATIA software, we can quickly create a true-to-life data model that is far more precise than a manufacturer's CAD model," said Rose. "As a result, we're working faster, more cost-effectively and with greater flexibility. This is making us much more competitive in our industry."

Conclusion

When it comes to 3D scanning an automobile's interior or exterior the Z Scanner is by far the best 3D scanner on the market. No other scanner is as portable, easy to use and has the ability to continuously scan without stopping.

To learn more visit www.ems-usa.com



3D Scanning a Toyota Prius interior



Finished scan data of the Prius interior



Catch-All Xtreme floor mat designed from scan data for the Prius to fit perfectly