

EMS Builds Prototype Models for Legal Cases

No one likes to be involved in litigation until something tragic happens to them or a family member. When that does happen you want the best tools and legal team to support your case.

In today's complex world using the right tools in any legal case is crucial. If jurors can't understand something then 3D CAD models or physical models can really help. Anyone who watches crime dramas on TV certainly knows this. Unfortunately television makes all these technologies work at the push of a button. These technologies do work its just more involved than what is seen on TV.

The Problem

Recently a well known legal forensic engineering company came to EMS with a major legal case. They needed to 3D scan some vehicles and equipment that were involved in a serious and tragic accident. They wanted to 3D scan the equipment so they could have physical rapid prototype models made to use in the case.

The Solution

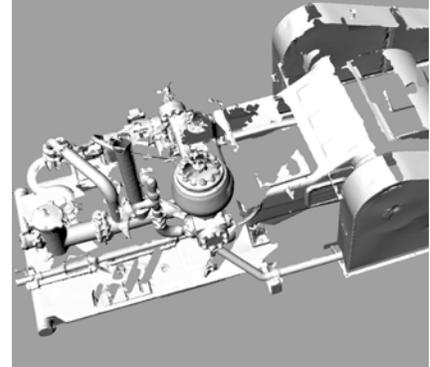
EMS worked with this company to 3D scan a semi truck and large piece of industrial equipment using a long range 3D scanner. Once that was finished the raw scan data was processed and the creation of 3D CAD models was performed. This high tech process allowed for an accurate and realistic 3D CAD model to be created. In many cases this CAD data would be used for animations but in this situation the forensic engineering company felt physical models would better help the jurors understand the chain of events that lead to the accident.

With this in mind EMS created some high resolution physical models using SLA (Stereolithography) rapid prototyping and Z Corp 3D printer technologies. These scaled models could be moved around to depict what happened during the accident. The forensic team was extremely pleased with how "life like" the vehicles and people turned out.

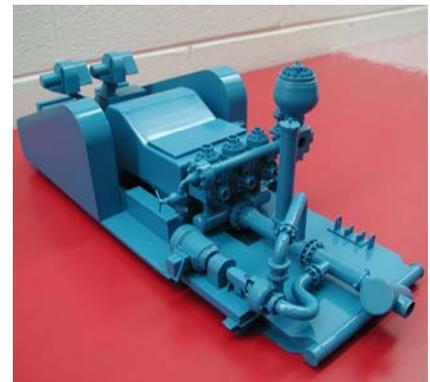
Conclusion

After seeing all the evidence including the models EMS created the case was settled out of court for an undisclosed amount of money. These models and the technology used to create them convinced the defendant that it was better to settle the case than risk going to trial.

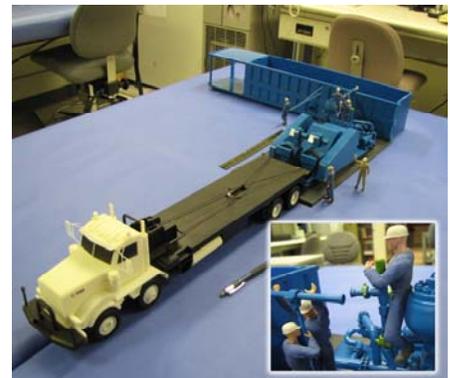
Visit www.ems-usa.com to learn more.



Raw scan data of an industrial machine



Finished rapid prototype model from 3D scan data



All models and figures in a display over 4 feet long