



3D LASER SCANNING SERVICE

Arthur Engineering is pleased to offer laser scanning and modeling services. Laser scanning allows us to capture real world geometry of a part, building, site or factory area. Our scanner produces highly accurate 3D color point clouds with a range of 130 meters at each setup location. By scanning in multiple locations, we create a full 3D model of all sides of the tanks, equipment or building. After the field work is done, we will compile these scans into one scan file which may be used directly or converted into a Recap file which can be imported into AutoCAD as a background. We also have the software to allow us to quickly and accurately identify existing structural steel shapes and piping components and model in AutoCAD for a highly accurate project background.

WHY LASER SCAN?

- **Cost & Time Savings – Field time**
 - Laser scanning reduces our time in the field and limits extra trips for additional dimensions if there are changes to the project in the area we scanned.
 - Laser scanning is faster than pulling tape.
 - Laser scanning can be accomplished by one or two people, limiting the personnel on site and the travel costs.
- **Quality**
 - These highly accurate scans will provide true dimensions to get the project started on the right foot and eliminate guesswork.
 - Existing interferences will all be shown in the scan. If it's there, we'll have it.
 - The scan will capture variances in existing structures such as out of square or off center existing installations.
- **As-Built documentation.**
- **CAD models for Pipe Stress analysis.**
- **CAD models for structural analysis.**
- **3D modeling of parts.**
- **Civil & Architectural site work – inside, outside, night and day, unlimited area.**
- **Law Enforcement – Accident & Crime scene documentation.**

