

High Definition Reverse Engineering

While inspection is the largest application for 3D scanning, reverse engineering is equally important to industries of all types and companies of all sizes. Reverse engineering is the process of capturing the geometry of physical objects for use in design and manufacturing applications. Going well beyond the practice of copying a design, reverse engineering includes all applications where CAD data that accurately defines the product is non-existent or unavailable.

Legacy parts, digital archival and as-built documentation are examples of reverse engineering applications on which companies have come to depend. They are also examples that stretch the capabilities of contact and non-contact measurement tools. Without a complete and accurate 3D definition, manufacturing of legacy and archived parts is impossible; and as-built documentation is inadequate.

Cross-Sectional Scanning makes manufacturing of legacy and archived parts possible and practical. It also overcomes the problems of documenting as-built conditions.

Cross-Sectional Scanning is a unique process that delivers a full, accurate description of injection molded plastic and soft metal parts. Unlike other scanning technologies, Cross-Sectional Scanning delivers high definition data of both internal and external geometry from even the most complex parts. Internal cavities, deep channels and sharp corners that stymie other technologies are no challenge for Cross-Sectional Scanning.

The imaging engine of Cross-Sectional Scanning captures more data, with greater fidelity, and generates the densest point cloud in the industry. This point cloud is free of noise and spikes, and it is a complete 3D depiction of the part; not a collection of individual scans. With Cross-Sectional Scanning, there is no need to align the individual raw point cloud sets, which takes time and can introduce error.

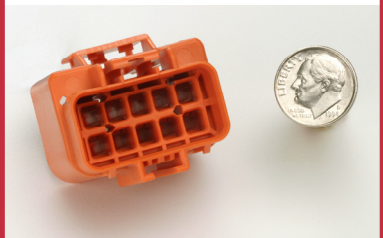
When documenting what you have or remanufacturing legacy parts, Cross-Sectional Scanning makes reverse engineering possible, practical and powerful. For your next reverse engineering project, call us at (800) 207-4318 or visit www.CGIinspection.com.

Sincerely,


Craig Crump
CEO

APPLICATION

- Reverse engineering



ADVANTAGES

- 100% definition
- Internal geometry
- Densest point cloud
- No noise, spikes
- No alignment

