

OptiCell

Introducing the OptiCell

OptiCell is fully automated dimensional measurement platform with embedded software, which significantly improves the dimensional business process in vehicle development and manufacturing for automotive part production and assembly processes.

OptiCell is a fast, accurate and robust dimensional measurement platform designed for on-line measurements, process control and quality assurance on the production floor. OptiCell offers a highly flexible solution for dimensional measurement of a wide variety of parts and assemblies regardless of size, complexity or geometric features.

The OptiCell solution software transforms the dimensional data acquired by the system and quickly produces dimensional measurement outputs leveraging the powerful CoreView format. These outputs include the actual dimensional measurement of the part/assemblies and comparison to a part's design intent. The OptiCell software also extracts critical features and provides automatic analysis and reports. The output data is provided in both numerical and 3D graphical formats and is easily accessible and understandable by all levels of users in the organization.

Flexible Solution

CogniTens has designed and developed the OptiCell as a fully automated dimensional measurement platform for conducting repetitive measurements of automotive panels, parts and assemblies in various stages of development, engineering and ramp-up all through to mass production. OptiCell, a PACE Award Winning solution is today used by global manufacturers and along with its embedded software allows:

- Planning and defining fully automated measurement programs
- Executing the measurement programs on the production floor
- Real time analysis of meaningful measurement results
- Automatically distributing measurement results across the organization
- Interface to SPC and off-line analysis systems

The OptiCell is available in a variety of industrial cell configurations especially suited for supporting a number of

processes in the manufacturing industries such as:

- Incoming parts and assembly QA
- Stamping and hydroforming production try-out and line tune-in
- Closures and subassemblies measurement
- Assembly launch support and production ramp-up
- Production process control