

# Cognitens

CogniTens offers two dimensional measurement platforms (Optigo and OptiCell) which are based on our advanced, patented 3D non-contact measurement technology. The core technology embedded into both platforms facilitates the acquisition of data of large areas in a fraction of a second, allowing operation in manufacturing environments, overcoming vibrations, changing illumination conditions and other environmental factors making it optimal for use in demanding automotive shop floors.

Optigo is a fully portable dimensional measurement platform easily operated by shop floor operators and engineers. Optigo is available in several flexible platforms which offer high accessibility in various engineering and manufacturing environments.

OptiCell is a fully automated dimensional measurement platform designed for recurring measurements of parts and assemblies in the shop floor environment.

Both platforms automatically transform measurements into highly meaningful and intuitive 3D information in CoreView format. This format, when input to CoreView Pro, provides comprehensive analysis including surface deviation, edge point measurements, cross section measurements, surface & edge point measurements, closed feature dimensions and location as well as other dimensional information.

These two platforms, along with their embedded measurement software, serve engineers and managers in the automotive industry and enable them to:

- Plan, define and communicate the dimensional measurement programs
- Execute dimensional measurement using Optigo & OptiCell
- Compare actual tool/part/assembly results to the design intent.
- Verify conformance with quality definitions and criteria
- Perform engineering and dimensional Virtual build & assembly studies
- Conduct root cause analysis for complex problems
- Carry out Reverse Engineering related activities
- Create standard / customized reports and distribute them across the organization

## Our Solution Advantages

CogniTens' dimensional measurement platforms offer numerous advantages and benefits to engineering and manufacturing organizations over conventional measurement and gauging methodologies and tools:

- Ability to seamlessly operate on the production shop floor and provide immediate and comprehensive measurement results
- Flexibility in measuring and analyzing various parts, assemblies and tools regardless of shape and size.
- High degree of solution automation and simplicity allowing a shop floor worker to operate our platforms.
- Automatic generation of comprehensive and meaningful results as part of the measurement process without the need for post processing the results.
- Ability to easily disseminate meaningful dimensional information to both engineers and managers.
- Can be easily relocated and carried over from one project to the other; measuring hundreds of part and assemblies originating from various car programs.
- Demonstrate high correlation with CMM results.