

GO2 INTELLICELLS®

- 
Vision
- 
Guidance
- 
Controls
- 
Programming
- 
Automation
- 
Robotics
- 
Machining



ASSEMBLY INSPECTION LABORATORY

CUSTOM BUILT SOLUTIONS FROM GO2 TECHNOLOGIES

Self-contained, mobile, framed cells incorporating:
Vision, Guidance, Controls, Programming, Automation, Robotics

Throughout our history, GO2 Technologies has designed and built custom solutions for our clients' assembly, test, fixturing and laboratory needs. These solutions took the form of self-contained, mobile, framed cells.

We call these products GO2 Intelli-Cells®.

GO2 Intelli-Cells® solve your problems of repeatability, accuracy and speed for assembly, testing and fixturing devices. GO2 will integrate any number of systems to achieve these solutions including vision, guidance, controls, automation and robotics.

GO2 Technologies recognizes the investment that our clients have made in their Intelli-Cells® and we design ease of retrofitting and updating into each machine.

The following examples of GO2 Intelli-Cells® are just an idea of how our engineering solutions can work for you.



- Fully contained, functional cell; independent operation
- Custom design and build to engineering specifications
- Fully tested and documented
- Setup and training delivered to install site
- Turn-key design, build and testing done in-house at GO2 Technologies
- Designed with retro-fit in mind
- I/O, interface programming and control panels from GO2

ASSEMBLY    

*AutomateR Intelli-Cell®
Robotic assembly of brass punch nuts into a support bracket.
This Intelli-Cell® completes the assembly of both left and right hand parts automatically. The parts are then automatically unloaded into a parts bin.*

ASSEMBLY    



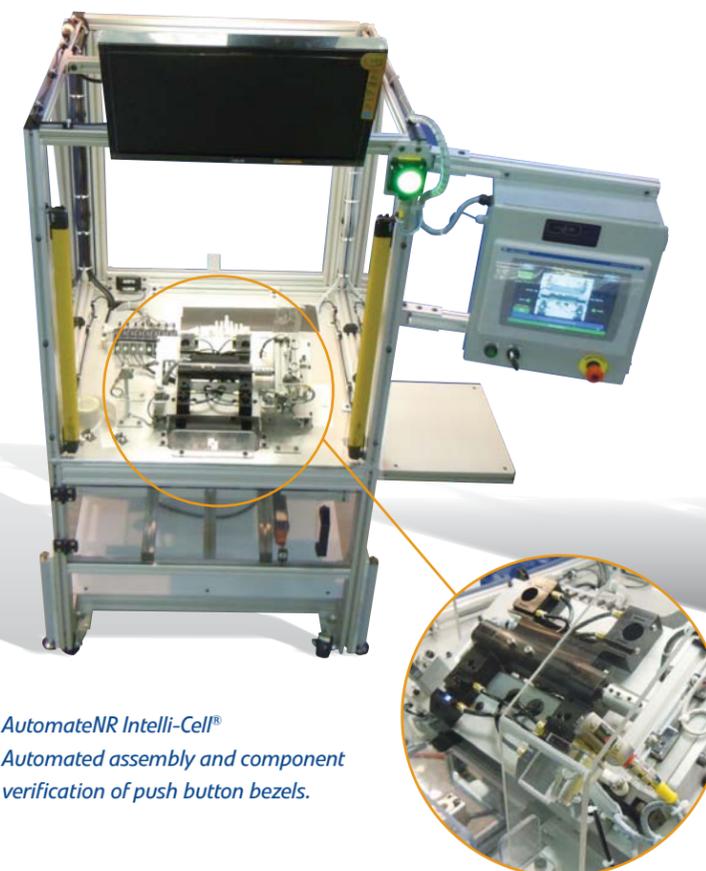
Operator assisted assembly of an automobile center console. Side panels are pressed into place. Each step and each component is verified by the vision system.

INSPECTION   



*AutomateNR Intelli-Cell®
Automated inspection of automotive decorative exhaust tips.*

ASSEMBLY   



*AutomateNR Intelli-Cell®
Automated assembly and component verification of push button bezels.*

IDENTIFICATION   



*Laser-Mark Intelli-Cell®
Automated identification process using an etching laser in a highly controlled environment.*

LABORATORY



THE UNIVERSITY OF DAYTON RESEARCH INSTITUTE SOLUTION

An example of the innovation that keeps GO2 at the top of their field is apparent in this AutomateR Intelli-Cell® solution.

The University of Dayton Research Institute and the Air Force Research Laboratory at Wright-Patterson Air Force Base were in need of a solution to a very labor intensive process for manually pipetting three different materials – alane, titanium isopropoxide, and oleic acid – inside a glovebox. GO2 was approached to develop an automated method that would robotically dispense, mix, sonicate and verify the highly accurate process. GO2 integrated an air displacement pipettor, which could handle the corrosive liquids within the specified volumes, with a Mitsubishi vertical articulating robotic arm. Additionally, GO2 developed a custom airtight chamber to house the entire system that could be purged with nitrogen. This new integrated system runs a batch of 56 vials in roughly 20 minutes. It is highly accurate and solved repeatability and quality issues the manual process was prone to.

AutomateR Intelli-Cell® above incorporated a custom designed End-of-Arm Tech® tool.



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OTHER GO2 TECHNOLOGIES PRODUCTS:

- GO2 End of Arm Tech®
- GO2 Panel®
- GO2 PalleTran®
- GO2 AutomateR®
- GO2 AutomateNR®