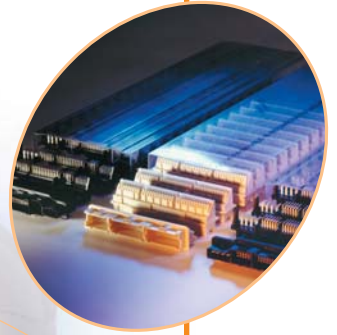


POLARIS[®]
Assembly Cell
Flexible, cost-effective automation for
**end-of-line and light
mechanical assembly**



POLARIS® Assembly Cell

Flexible, cost-effective automation for
end-of-line and light mechanical assembly

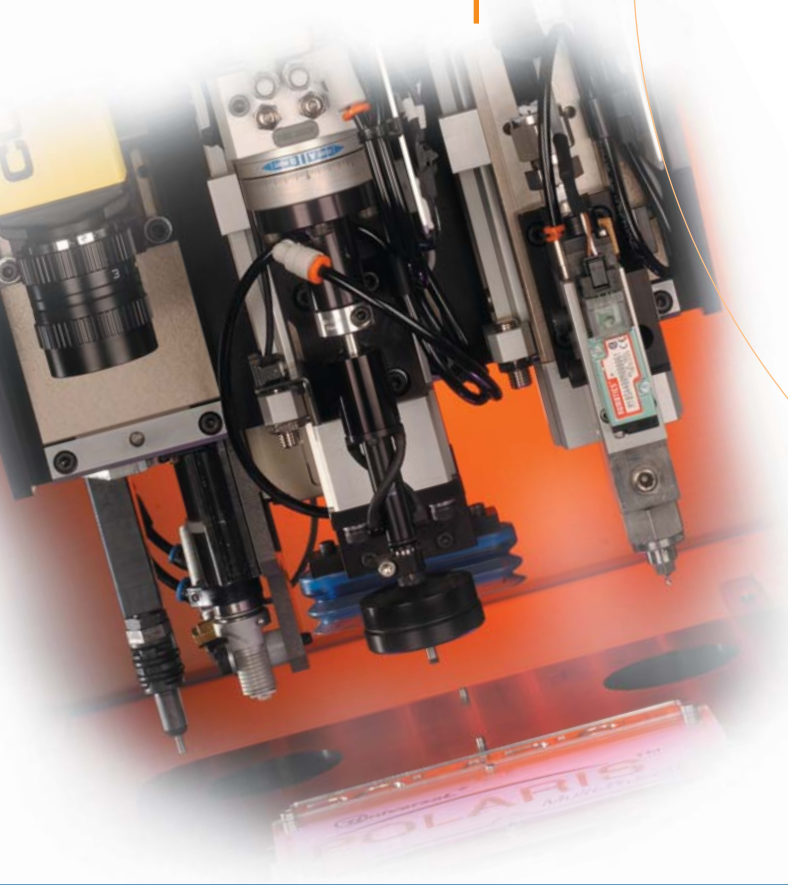
The Polaris Assembly Cell from Universal Instruments solves the challenges of odd form assembly in electronic manufacturing and addresses a host of light mechanical assembly processes for products as diverse as medical instruments, small automotive subassemblies, toys and games, office products, and many more.

“Universal's Polaris Assembly Cell is integral to our strategy of continually improving manufacturing flexibility, product quality, and overall productivity.”

*Ken Kindness,
Manufacturing Operations Manager,
OSRAM Sylvania's Electronic Control
Systems Division (Lake Zurich, IL)*

With the Polaris Assembly Cell, you can now automate many assembly processes that previously demanded labor-intensive manual assembly or expensive, dedicated equipment. Through automation, you can improve quality and reduce labor costs.

You can even fulfill low-volume or specialized orders at a cost effective, per unit price. The throughput and repeatability normally associated with high-volume manufacturing are now within your reach.



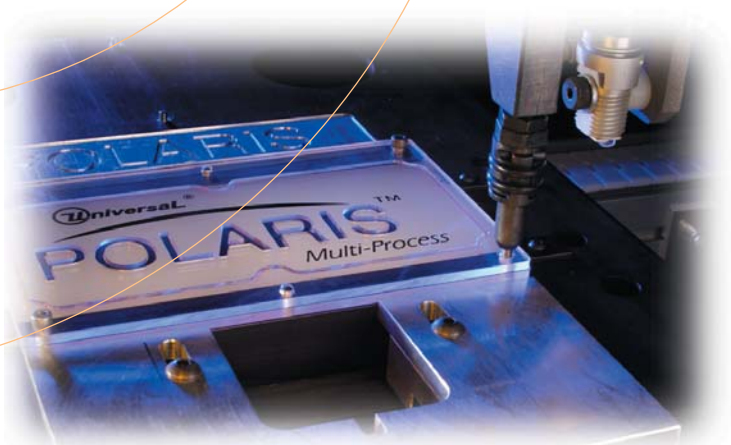
Capable

The Polaris Assembly Cell builds on Universal Instruments' industry-leading expertise in helping customers optimize their productivity. Precise positioning and control of placement force, combined with new tooling attachments, allow a wide variety of parts and materials to be placed and verified quickly and accurately.

Odd form assembly of electronic components such as connectors, transformers, or nonstandard devices can be quickly and easily migrated onto the Polaris Servo-Gripper machine. This versatile platform is a cost-effective solution whether you need to automate reflow odd form assembly, wave solder odd form assembly, or final product assembly.

General mechanical assembly tasks, including dispensing adhesive, vision inspection, driving screws, pick and place, and packaging are ideal for the Polaris Multi-Process cell. Its wide range of capabilities makes it a wise investment for today's diverse manufacturing requirements.

The Polaris Junior Assembly Cell offers efficient, single-process final assembly for low-end robotic and semi-automatic processes. It features a scalable cell width with common controls, side covers, and frame structure for a low-cost solution with faster lead times than custom cells.



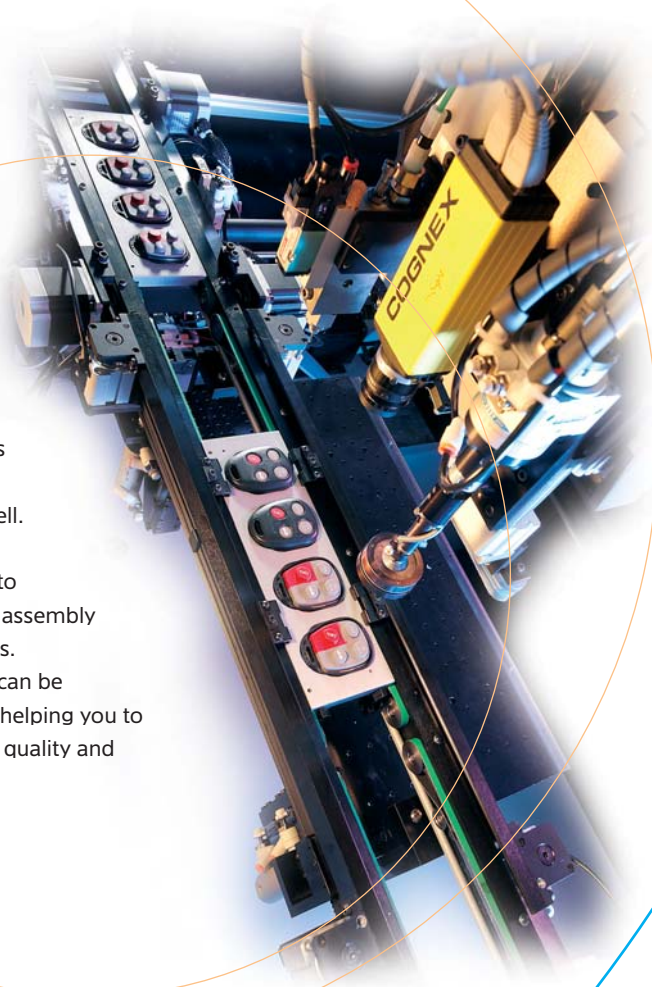
Scalable

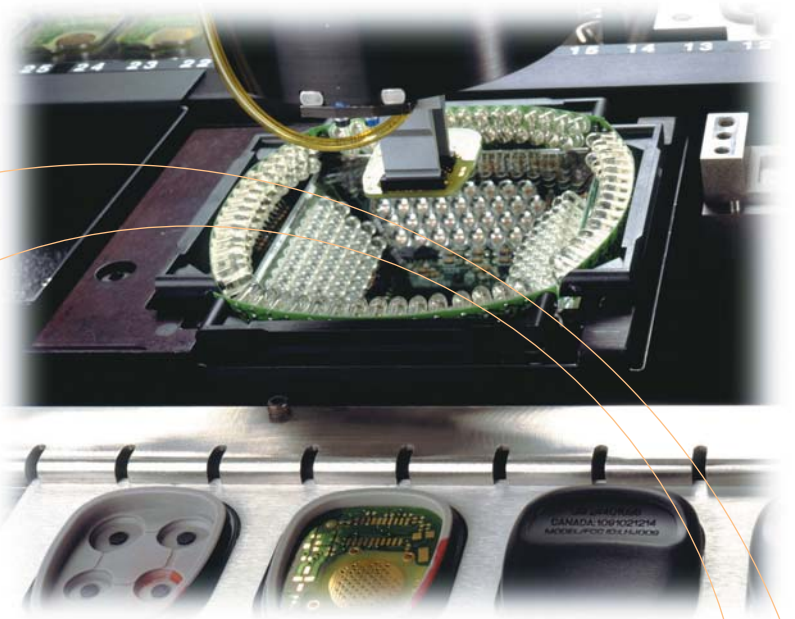
The modular, platform design of Universal's Polaris Assembly Cell means you can perform several processes in a single cell for efficient use of shop floor real estate and more effective allocation of human resources. Depending on your needs, operations can also be distributed across multiple cells to boost productivity. What's more, the flexibility of the Polaris Assembly Cell means a cell can be added to a line or moved to a different position within the line in response to rapidly changing production needs.

Reconfigurable

In addition to scalability, the standard tool interfaces and interchangeable grippers and feeders of the Polaris Assembly Cell allow you to easily reconfigure your machine after completing a project, reducing total cost of ownership and maximizing ROI. Tools can be added or replaced easily and quickly based on application requirements. If custom tooling is required, it can be designed as a module to fit within the platform, eliminating the need for a customized cell.

Because the Polaris platform is so easy to reconfigure, you can quickly adapt your assembly processes in response to design changes. Pre-production and prototype samples can be assembled using the target equipment, helping you to gain an accurate assessment of product quality and throughput capability.





The Value of Automation

The Polaris Assembly Cell, in comparison to manual assembly, enables you to achieve efficient, low-cost manufacturing of high-quality products without requiring you to move production to areas where labor costs are low. With manual assembly, an increase in volume can result in a substantial increase in production costs. In contrast, the Polaris Assembly Cell handles higher volumes with smaller incremental cost increases, quickly paying for itself. And, not only does the Polaris platform deliver labor cost savings, but it also improves first pass yield, time to market, and ultimately, your bottom line.

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