The future has begun
Configuration, adjustment, individual design - Welcome to the age of the fourth industrial revolution!
For the first time ever, digital communication between a workpiece and a machine opens up the potential for individual products that are manufactured within an industrial mass production environment. This development presents completely new challenges, challenges for which Polycontrols is already prepared. As your integrator, we offer you turnkey systems for Cold Spray applications with unprecedented efficiency that can be seamlessly incorporated into your production environment.
**Advantages**

EXPERIENCE 4.0 System Platform provides users with:

- Variable adjustment of spray parameters for individualized series production, Cold Spray repairs or dimensional restoration.
- Easy upgradable, responsive, scalable platform that integrates the Cold Spray process with Robotics, OEM (Original Equipment Manufacturer) Gun & equipment, Workpiece Database and Enterprise.
- Intuitive platform that can run multiple Cold Spray guns from different OEM with one single Cold Spray infrastructure (robotics, cooling, power supply, gas management & feeder).
- Maximum availability through remote diagnosis, predictive maintenance and avoidance of critical states.
- Exceptional efficiency through continuous real-time monitoring and optimization.

Real-time adjustment and preventive maintenance

In ultra flexible production environments, intelligent networked systems reliably provide the necessary flexibility to produce efficiently small individual serial projections/repairs with Cold Spray according to requirement. Moreover, through continuous real-time monitoring and optimisation, potential issues within the projection are identified at a very early stage so that appropriate measures can be taken before a fault even occurs.

The EXPERIENCE 4.0 System Platform plays a key role in all of these aspects. As the core of the overall network of equipment, this intelligent system accesses, analyses, processes, and supplements all system performance parameters in real-time and outputs to various operator interfaces, Enterprise systems and mobile devices. It is this real-time analysis with Polycontrols 35 years of expertise that makes predictive service possible.

**Highly scalable & Open to all OEM equipment**

EXPERIENCE 4.0 System Platform is:

- Highly scalable Industrial Platform; improving efficiency, reproducibility and compliance to North American regulations
- Open Platform to give the user maximum flexibility to choose the right OEM Product among the best (Plasma Giken, Impact, Centerline to name a few) for a specific application
- Custom design and build to meet the customer’s unique application needs.
- Fully Integrates with robotics, Maintenance, QA & Management
- Support Bare code and RFID identifications for work order and workpiece entry
- Intuitive, repeatable and reproducible, complete data collection, reporting and traceability
Truly industrial & Easily upgradable

EXPERIENCE 4.0 System is an application based on Wonderware software, the world’s leading supplier of Industrial software, and Allen-Bradley controllers renowned as the North American leader in Factory Automation Equipment.

This architecture assures that EXPERIENCE 4.0 is upgradable to further improve performance and security, incorporates new technology and provides new functionality to meet evolving market demands. This truly industrial architecture gives you the power to improve the reliability and capability of your application and extend new functionalities.

Having over 35 years of unparalleled history, clients using our application software can maintain their investment and seamlessly upgrade from one version to the next. We are very proud of this deliberate practice because it allows our clients to keep their application current without adding significant capital and engineering costs.

Features

• Customizable for different spray gun OEM manufacturers
• Powerful recipe management, intuitive process status displays and complete process parameter adjustments
• Information sharing capacity with all your systems, including Accounting
• Clear and refined graphical interface where essential information is prioritized to improve Cold spray process diagnostics and reproducibility
• Full traceability of operation
• Control systems integration and connectivity with robotics
• Includes maintenance planning to minimize shutdowns
• Common information management, analysis and reporting
• Intelligent Alarming