

POWER WAVE

SOFTWARE SOLUTIONS
TECHNOLOGY TOOLS THAT ENABLE SMART BUSINESS DECISIONS





Through the Power Wave platform, Lincoln Electric can provide you with an in-depth view into your welding operations - both locally and globally. The Power Wave platform includes many standard software options that allow you to gather productivity metrics, verify weld quality and supply traceability reports to your customers. Advanced solutions are also available to assist your operators with weld location and process settings.

The Power Wave philosophy is based on a **closed system approach** to enable fabricators to address today's business challenges, such as changing industry regulations. One of the ways to meet these challenges is to verify processes in your manufacturing operation. You'll be able to make smarter business decisions by using a more comprehensive and holistic view of the entire welding operation to identify problem areas.

SET-UP TOOL



TROUBLE SHOOTING & COLLABORATING

- Backup and restore settings to simplify equipment setup
- Customize memory settings and limits for specific applications
- Run diagnostic tests and check equipment calibration
- Setup and monitor equipment communications
- Configure CheckPoint and create WeldScore training models



WELD PRODUCTION MONITORING TOOL



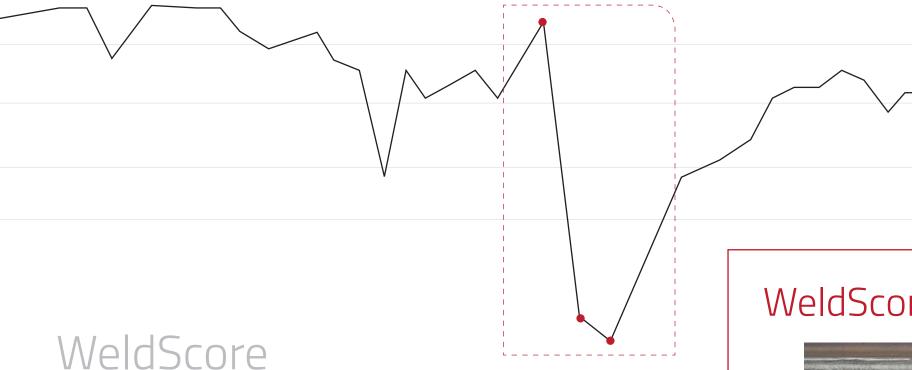


CheckPoint

PRODUCTION DATA MONITORING

- Global data collection and data access with cloud-based architecture
- Monitor and analyze operations remotely
- Receive production notifications by email or text message
- Reports can be configured in many ways
- Know your data is secure and protected
- Export data and reports in various formats for offline analysis

PROCESS ANALYSIS TOOL



MONITOR WELDING PERFORMANCE

With the rising costs of manufacturing, there is no room for waste in the process stream. WeldScore allows you to evaluate welding operations based on modeling of acceptable welding conditions.

- Model acceptable weld requirements in production conditions
- Evaluate with welding control dynamics more than just voltage and amperage feedback
- Continuous real-time analysis directly from the welding power source
- Create notifications and record evaluation results in CheckPoint

welding conditions and is not a replacement for quality assurance procedures, such as non-destructive or destructive testing.

WeldScore







WeldScore is a tool intended for in-process monitoring of consistent and repeatable welding operations based upon your example

WORKFLOW & PROCESS CONTROL TOOL

INPUT SETTINGS

to standardize the process



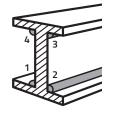
LOCATION OF WELDS (WITH VISUALS)



WELD REQUIREMENTS



WELDING PROCEDURES



WELDING SEQUENCE



PART IDENTIFIERS (SERIAL NUMBER & OPERATOR ID)

REVIEW RESULTS

information in real time



DEPOSITION



MONITOR CYCLE TIME



MONITOR ARC TIME



PERFORMANCE EVALUATION



WELD COUNT

Weld Sequencer

SIMPLIFY PART ASSEMBLIES

A welding fabrication blueprint for large, complicated parts can be difficult to follow, because it's two dimensional and shows many welds throughought. But with Weld Sequencer control software, your operators can be instructed step-by-step.

- Directed workflow with step-by-step pictorial diagrams
- Automatically provides appropriate welding procedures for each weld
- Reduces operator training time while improving cycle time and quality
- Reduces potential for rework and scrap
- Automatically records part-by-part metrics like cycle time and weld count