

## VeriWeld-SE™ Seam Weld Monitor

Monitor • Review • Anticipate • Record • Archive

### • Prevent Costly Weld Breaks •

Developed in response to customer demand for continuous “real-time” feedback of machine performance and weld parameter validation, the **VeriWeld-SE™** seam weld monitor provides a comprehensive analysis of welder performance.

The **VeriWeld-SE™** provides continuous feedback throughout the welding process to confirm user defined preset limits for:

- Weld Current
- Weld Temperature
- Weld Voltage
- Weld Force (single, tandem and dual cylinders)
- Weld Head Bucking Force (where applicable)
- Weld Carriage Speed
- Planish Force (where applicable)
- Coil Identification (manual input or downloaded)
- Date/Time Stamp



The **VeriWeld-SE™** helps operators and plant operations/engineering personnel monitor the performance of a seam welder and identify a problem during the welding cycle that may lead to a potential weld break. The monitor identifies parameters outside of a pre-set range using easily identifiable color coded alerts to notify the operator when a parameter is out of range.

The goal is to identify a potential problem before the weld is released into the process line. Continuous monitoring of the machine performance during the welding cycle also assists in identifying items on the machine, such as weld head bearing failure, secondary shunting, shear blade wear, and others that should be addressed by maintenance personnel for optimal machine performance.

WITHIN  
LIMITS

OUT OF  
RANGE

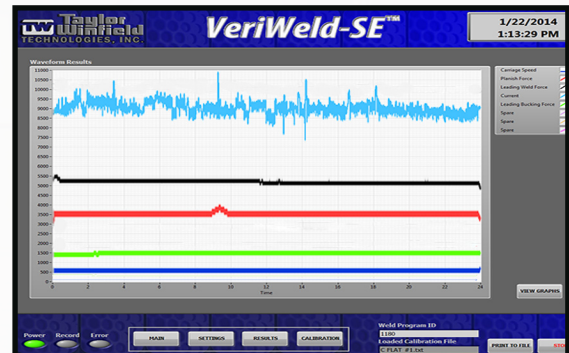
### Data Acquisition and Archiving:

Weld data is read at 2000 samples per second and results are archived within the system and downloadable to MS Excel. Results can be downloaded to a flash drive, user laptop or uploaded to “upper-level” SPC and SQC systems.

Some of the major causes of weld breaks include:

- Cold welds – loss of welding current
- Incorrect weld parameters used for the coil being joined
- Strip slippage in clamps
- Strip separation during welding sequence
- Lack of machine preventative maintenance

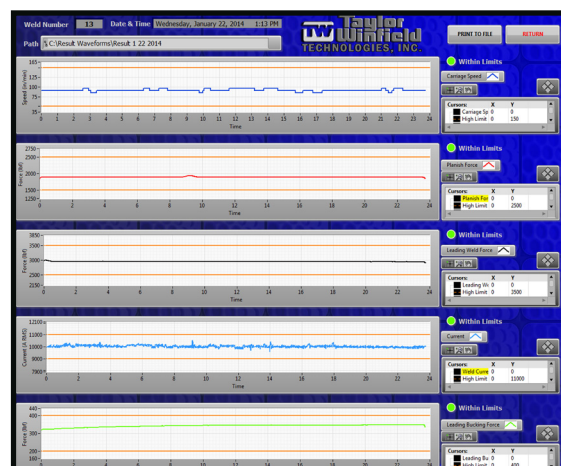
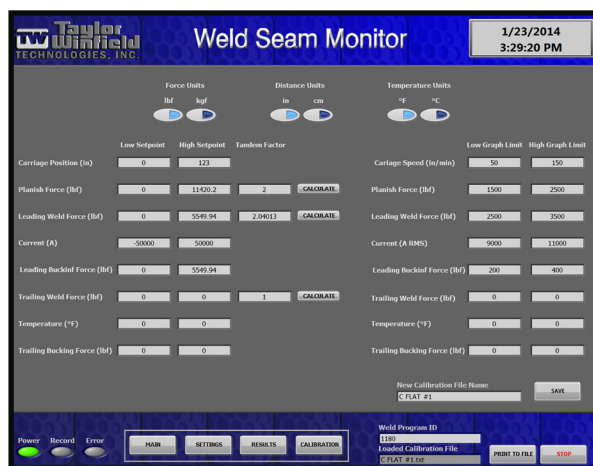
The **VeriWeld-SE™** can help to identify the above issues and more before they become problems!



# VeriWeld-SE™ Seam Weld Monitor

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Designed for new and existing machines, the **VeriWeld-SE™** seam weld monitor can be installed on any manufacturers seam welder. Installation can be done with or without T-W field service site support.



**VeriWeld-SE™** seam weld monitor system is set up and calibrated for the type of machine and includes:

- Industrial PC with 19" HD Monitor – Free Standing, desktop/pulpit, articulated arm.
- Data acquisition module with cabinet.
- Weld carriage travel distance laser.
- Weld head pressure transducers and switches.
- Weld temperature pyrometer.
- Weld current transducer.
- Weld head bucking force transducer.
- Planish force transducer.
- Interconnection wiring and hardware.
- All software pre-installed ready for calibration.
- English or metric units available.
- Instruction manual.



Data uploaded for offline analysis via:

- USB connection to memory stick or laptop
- Hardwired to user network via Ethernet connection
- Wireless Ethernet connection to Local Area Network

The system is supplied complete and ready for installation. Information required from customer:

- Machine type and description (non T-W welder).
- Machine serial number (T-W welder only).
- The system will be customized for interconnection to an existing machine.



*"Our Customer's Success is Our Success"*

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