The Miller® LiveArc™ Welding Performance Management System is a new and innovative reality-based training system that utilizes a live welding arc, unlike other virtual training solutions. It’s designed to recruit, screen, train, re-qualify and manage the performance of weld operators — better, faster and more cost-effectively than traditional methods.

Unique motion-tracking technology provides the critical feedback required for improvement of baseline welding skills. With an easy-to-use touchscreen interface, users can guide themselves through assignment selection and simulated welding runs to acquire desired techniques before moving to actual live arc training experiences.

The system also gives welding instructors the ability to configure assignments and technique parameters. It stores weld operators’ performance histories. LiveArc is a powerful teaching tool that allows instructors to better manage their time, reduces the cost of teaching materials and speeds student progress.

**LiveArc™ Welding Performance Management System**

*A reality-based recruiting, screening and training solution.*

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The LiveArc™ system is built to deliver a real-world, arc-on welding experience. Advanced motion-tracking cameras provide feedback on technique parameters during initial simulation (practice) mode as well as live arc training mode.

A powerful industrial computer at the heart of the system features solid-state technology and filterless fanless cooling. Compatible with Miller® wire feed power sources.

The SmartGun is an industry-exclusive 400-amp MIG gun featuring built-in LEDs that are tracked by the system's cameras. The ergonomic soft-grip handle provides tactile vibration feedback that helps guide real-time performance adjustments, reinforcing optimal position and movement.

The touchscreen monitor works with a gloved hand and features a 21.5-inch widescreen HD display. A protective cover disables welding when opened.

The gun’s OLED display provides initial visual feedback to guide proper gun positioning. Pushbuttons provide an alternative to the touchscreen for navigation.

The calibration tool is easy to use and enables flexible coupon placement by making the system aware of the exact joint location.

The optional welding positioning arm is available for training in out-of-position welding applications.

The rugged ArcStation™ base features a 1/2-inch reversible steel table top and ships complete with drawers, gun holder, quick-release clamps and heavy-duty casters for mobility.

Specifications  (Subject to change without notice.)

<table>
<thead>
<tr>
<th>Processes</th>
<th>Joint Types</th>
<th>Positions</th>
<th>Multi-Pass</th>
<th>Input Power</th>
<th>Rated Output</th>
<th>Duty Cycle</th>
<th>Weight</th>
<th>Dimensions (H x W x D)</th>
<th>Computer</th>
<th>Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMAW</td>
<td>Butt</td>
<td>2F</td>
<td>Fillet only</td>
<td>120 VAC</td>
<td>400 A</td>
<td>100%</td>
<td>#301 233 366 lb. (166 kg)</td>
<td>Intel core i7, 128 GB SSD, fanless cooling, HDMI port supports secondary monitor (not included)</td>
<td>21.5 HD LCD Touch Screen Display</td>
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<tr>
<td>GMAW-S</td>
<td>Lap</td>
<td>3F</td>
<td></td>
<td>60 Hz</td>
<td></td>
<td></td>
<td>#301 233 001 480 lb. (218 kg)</td>
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<tr>
<td>GMAW-P</td>
<td>Tee</td>
<td>4F</td>
<td></td>
<td>1G</td>
<td></td>
<td></td>
<td>#301 234 (Arm) 72 lb. (33 kg)</td>
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<td></td>
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<tr>
<td>FCAW-G</td>
<td></td>
<td>1G</td>
<td></td>
<td>3G</td>
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<td>4G</td>
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</tbody>
</table>
Intuitive user interface that guides and engages

Guided by an easy-to-understand interface with graphical icons and instructional pop-ups, users will find navigation intuitive with a quick learning curve. Scoring and performance feedback engage and foster independent self-improvement through repetition.

Assignment selection screen
- Guides the user through a range of targeted exercises.
- Includes a library of Miller-designed assignments for immediate use, while also allowing instructors the flexibility to configure customized assignments.
- Offers assignment completion status, history summary and easy access to detailed performance history data.

Welding Procedure Specifications (WPS) screen
- Clearly guides users through proper selection and preparation of materials.
- Provides correct power source and wire feeder settings.
- Provides target values and limits for work angle, travel angle, travel speed, contact-tip-to-work distance (CTWD) and aim.
- Assignment parameters can be configured to suit the skill level (and scoring potential) of the user.
- Displays instructor-determined target score and assignment completion criteria.

Post-weld feedback screen
- Data is provided following tests in both simulation and live arc modes.
- Performance feedback on work angle, travel angle, travel speed, CTWD and aim is provided.
- Data captured allows for monitoring and evaluation. All test performance history is stored and can be retrieved and reviewed at any time to monitor ongoing development.
LiveArc™ Welding Performance Management System

The solution for industrial, manufacturing and educational markets for developing better welding skills, faster and more cost-effectively than ever before.

**Better training**
- Utilizes live arc
- Intuitive system promotes user independence
- Provides objective, quantitative feedback on key performance parameters
- Miller-designed assignments included with ability to customize
- Flexible for recruiting, screening, training and performance management

**Faster results**
- Independent usage accelerates personal development
- Accelerated training times put trainees in production lines faster
- Shorter educational periods allow trainees to focus on additional learning opportunities

**More cost effective**
- Pre-weld simulation saves money on coupons, wire and gas
- Reduces poor-quality welding and defects, rework and downtime
- Trainers and educators have more time to focus on other tasks

The LiveArc™ System is warranted for one year, parts and labor.

Visit MillerWelds.com for more information on FILTAIR® fume extraction equipment and Arc Armor® welding protection.

### LiveArc equipment ordering information

**LiveArc Workstation #301 233**
Comes complete with:
- SmartGun with 15-ft. (4.6 m) cable (#270 698)
- Calibration tool (#286 768)
- (2) Table clamps (#257 265)

Plus extra Tregaskiss consumables:
- (5) .035-in. contact tips (#403-20-35-05)
- (5) .045-in. contact tips (#403-20-45-05)
- (5) .052-in. contact tips (#403-20-52-05)
- (1) Heavy-duty 5/8-bore 1/8-stickout nozzle (#401-87-62-02)
- (1) Heavy-duty 5/8-bore 1/8-recess nozzle (#401-6-62-02)
- (1) Heavy-duty 5/8-bore flush nozzle (#401-48-62)

**LiveArc Workstation with Welding Positioning Arm #301 233-001**
Includes above plus:
- Arm assembly (#270 727)
- C-clamp assembly (#270 725)
- Removable arm extension for right- and left-hand applications (#270 728)
- Software

**Welding Positioning Arm (includes software) #301 234**