AugmentedArc® Augmented Reality Weld Training

See literature TS/2.0

The highly realistic multiprocess welding simulation solution for classroom training.

Optimize instructor efficiency by using the Teacher software to create a virtual classroom with customized curriculum, quizzes and weld exercises.

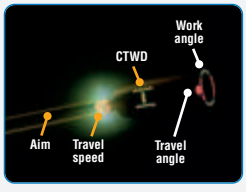
Real-time feedback is provided on users' technique to help correct errors, reinforce proper welding practices and accelerate skill advancement prior to actual live arc welding in a lab.

Reduce overall training time. Compared to traditional methods, AugmentedArc significantly reduces the amount of time needed to teach students.

Minimize material cost by saving wire, gas and workpieces in this simulation environment, while allowing students to refine their welding skills before live arc welding.

Build a larger, more-skilled welding workforce when computer-savvy individuals are drawn to welding education programs that increase their success.

Lightweight, balanced AR welding helmet with large viewing area provides a realistic augmented reality environment.



AugmentedArc system comes complete with

- AugmentedArc simulator
- Teachers software
- Black Infinity™ AR helmet with premium headgear
- AugmentedArc router
- MIG gun with AR nozzle
- SMAW stinger
- TIG torch with AR nozzle
- Two electrode/filler rods with AR tips
- Work stand for out-of-position applications
- Five workpieces: t-joint, butt joint, lap joint, pipe-to-plate and butt pipe

Optional components

- **TIG Foot Pedal Kit**
  Includes TIG foot pedal, connection cable and adapter cable
- AugmentedArc Controller
  For multiple system connectivity
- Heavy-duty Transportation Cases
  Protects complete system during transportation or storage – one case holds the simulator and the other holds accessories

Stock Number	Input Power	Voltage/Amperage Selection	Welding Positions	Polarity Selection	Shielding Gas Selection	Wire Speed Selection	Base Material Selection	Workpiece Selection	Stick Electrode Selection	Diameter Selection	Simulator Dimensions	Net Weight
Available at approved locations	115 V, 15 A, 60 Hz	GMAW: 10–38 V 50–425 A FCAW: 10–38 V 50–425 A SMAW: 50–425 A GTAW: 50–425 A	1F–4F 1G–6G	DCEP DCEN AC	CO_2 Argon O_2 Argon CO_2 Argon	GMAW/FCAW: 1.27–25.4 m/min. (50–1,000 ipm)	Carbon steel Stainless steel Aluminum	3.2, 6.4, 9.5 mm (1/8, 1/4, 3/8 in.)	E7018 E6010 E6013	Solid wire: 0.8, 1.0, 1.2 mm (.030, .035, .045 in.) Stick electrode: 2.5, 3.25, 4.0 mm (1/8, 3/32, 5/32 in.) Filler rod: 2.0, 2.4 mm (5/64, 3/32 in.)	H: 533 mm (21 in.) W: 238 mm (9.38 in.) D: 438 mm (17.25 in.)	Simulator: 9.4 kg (20.7 lb.) Helmet: 0.9 kg (1.97 lb.)

LiveArc™ Welding Performance Management System

See literature TS/1.0

GMAW/FCAW/SMAW system shown.

The reality-based recruiting, screening, training, and re-qualification solution for industrial, manufacturing and educational markets.

Better and more cost effective training with faster results. Benefit from both weld simulation and the real-world experience of live arc welding with instant, valuable feedback on welding technique to quickly help build skills.

Motion-tracking technology measures the operator's adherence to preset technique parameters. Cameras track the movement of LEDs embedded in the MIG SmartGun and SMAW SmartStinger during pre-weld simulations and live welds; the system then delivers visual feedback on the operator's performance via the LiveArc system's main display.

SmartGun (left) and SmartStinger (right) shown.

LiveArc GMAW/FCAW system comes complete with

- Computer with Intel core i7, 128 GB SSD, fanless cooling, and HDMI port for connection to most secondary monitors (not included)
- 21.5 HD LCD touch screen monitor
- SmartGun with 4.6 m (15 ft.) cable
- Calibration tool
- Two table clamps
- Removable arm extension with C-clamp assembly for out-of-position right- and left-hand applications
- Extra Bernard® consumables

LiveArc GMAW/FCAW/SMAW system includes above plus

- SmartStinger with 3.7 m (12 ft.) cable
- 4.6 m (15 ft.) Dinse-style cable
- Router box
- Software update for SMAW applications

Stock Number	Input Power	Processes	Positions	Multi-Pass	Rated Output	Electrode Diameter	Dimensions	Net Weight
(907714) GMAW/FCAW system **(907714001)** GMAW/FCAW/SMAW system	120 V, 60 Hz Compatible with Miller power sources	GMAW, GMAW-S, GMAW-P, FCAW-G	2F–4F, 1G–4G	Groove and fillet up to 25 mm (1 in.) plate	SmartGun: 400 A at 60% duty cycle (mixed gases)	SmartGun: Up to 2.0 mm (5/64 in.)	H: 1,969 mm (77.5 in.) W: 1,168 mm (46 in.) D: 787 mm (31 in.)	GMAW/FCAW system: 218 kg (480 lb.) GMAW/FCAW/SMAW system: 239 kg (527 lb.)
		SMAW	2F–4F, 1G–4G	Limited groove applications	SmartStinger: 250 A at 60% duty cycle	SmartStinger: Up to 3.2 mm (1/8 in.)		