

WELD TRAINING SOLUTIONS

REALWELD®



WELD. SCORE. SUCCEED.

Adding a REALWELD Advanced Trainer to your welding program can help you improve training results. Using the system's Arc OFF mode, your students can practice, troubleshoot and master welding techniques while reducing program material costs, including welding plate, electrode or wire and shielding gas. With audio coaching and instructor review of objective scores on five welding parameters, your students hit the booth running to speed up comprehension and training time. And, greater understanding and mastery of techniques means higher certification rates. When used with advanced welding equipment like the Power Wave® C300, REALWELD exposes your students to advanced manufacturing technologies used in industry today. With more opportunities for guided skills practice, your students will be better prepared to WELD, SCORE and SUCCEED in their career path.

Processes »

SMAW, GMAW, FCAW

Product Number »

K4344-1 Base Model

K4344-3 One-Pak® Package

Input »



BENEFITS

- Train welders faster and more efficiently
- Attract and engage next generation and non-traditional students
- Option for off-site pre-learning in any classroom
- Enhance and supplement traditional welding training
- **Go Green** – Save money on base material, electricity, consumables and waste
- Enables experiential and personalized progressive learning
- Supports pre-employment recruiting and weld screening
- Objective skills-based welder evaluation

FEATURES

Stick to Learning

- Stick (SMAW), MIG (GMAW) and flux-cored (FCAW) welding procedures and techniques

Go Long

- Multi-pass capability in a number of positions (1F, 2F, 3F, 4F, 1G, 2G, 3G)
- 6 in. (152 mm) or 18 in. (457 mm) fixtures
- Longer welds replicate more closely common field conditions
- Weld on up to 1 in. (25.4 mm) plate
- Lap, tee, groove and flat plate coupon configurations

Listen and Learn

- Includes an audio coach that provides guidance with weld speed, angles, aim, contact tip to work distance/arc length and position in the weld
- Audio cues can be turned ON or OFF at any time, allowing the student or prospective employee to demonstrate learned behaviors

Knowledge in a Small Space

- Slim, vertical design maintains a small footprint that makes the system ideal for setting up in any weld booth
- Easily rolls through any standard doorway

Integrated 17 in. (432 mm) Touchscreen

- Integrate videos, documents, images, websites and curriculum to enhance learning
- Usable even with gloved hands

Everything in its Place

- Fixture storage racks accommodate all fixtures, including 6 in. (152 mm) or 18 in. (457 mm)

Motor Up

- Motorized carriage makes it easy to move the table and arm for welding in flat, vertical or overhead positions

INSTRUCTOR CAPABILITIES

Reporting

- The system provides instant feedback to the welder and can help the instructor with reporting and student evaluation

Go Offline

- Desktop Instructor allows the instructor to create or modify WPS tolerances and user profiles at their own laptop or office desktop computer. Software available in 12 languages.

Unlimited WPS (Tolerance)

- Create an unlimited number of customizable Welding Procedure Specifications (WPS)

Common Lincoln Electric WPS Platform

- Use the same instructor customized WPS from your Lincoln Electric VRTEX® Virtual Reality Weld Simulation Trainer

THE CHOICE IS YOURS

- Complete welding package, including a Lincoln Electric Power Wave® C300 welding power source and Miniflex® fume extraction system
- Add the REALWELD Trainer only to your existing booth and welding equipment

KEY FEATURES

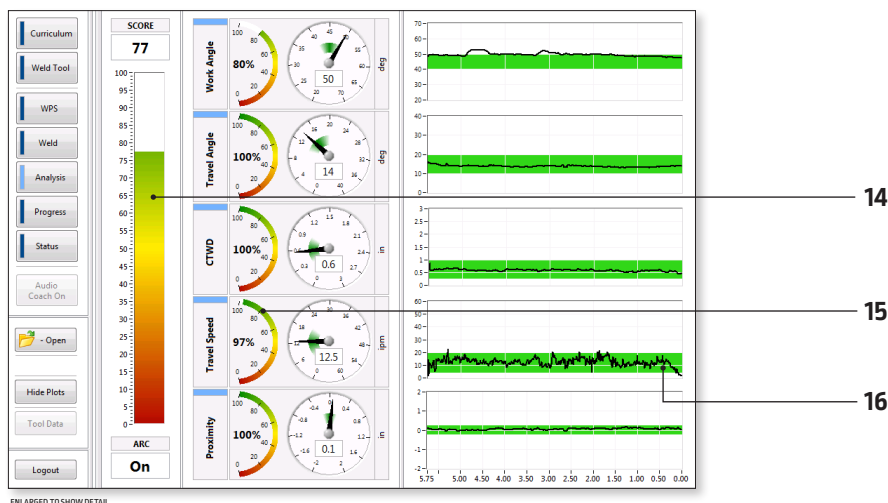


1. Camera Array
2. EN 20 Fume Control Nozzle
3. Adjustable Height and Position Welding Table
4. Miniflex® Fume Control System
5. Set of 3 – 6 in. or 18 in. Joint Fixtures¹
6. Standard Stick Stinger
7. Storage racks for up to 6 fixtures
8. Sensor Target Device
9. Standard Magnum® PRO MIG Gun
10. Power Wave® C300 Multi-Process Welding Power Source and Rolling Storage Cart
11. Enclosed Computer
12. Motorized carriage raises or lowers table
13. 17 in. [432 mm] touch screen

REALWELD SCREEN ANALYSIS

14. Weld Analysis - % of time welder is within tolerance on ALL 5 parameters
15. Percent Time Parameter Performance with Tolerance - % of time parameter is within tolerance
16. Welder's Performance vs Tolerance
 - Tolerance (green section)
 - Welder's Action (line)

REALWELD SCREEN ANALYSIS



(1) 18 inch Joint Fixtures are Optional. Order K4344-2 (set of three 18 in. [457 mm] weld fixtures)

(2) Photo shows K4344-3 (One-Pak® Package – including Power Wave C300 welding power source [K2675-2] and cart [K2734-2], Miniflex fume extraction system [K3972-3] with nozzle [K2389-5], 6 in. [152 mm] weld fixtures)

ENLARGED TO SHOW DETAIL

REALWELD SPECIFICATIONS

Product Number	K4344-1 (Base Model – REALWELD Only) K4344-3 (One-Pak® Package – including Power Wave C300 welding power source (K2675-2) and cart (K2734-2), Miniflex fume extraction system (K3972-3) with nozzle (K2389-5), 6 in. (152 mm) weld fixtures) K4344-2 (set of three 18 in. (457 mm) weld fixtures)
Input Power	115/230/1/50/60
Input Current	3A @ 115VAC, 1.5A @ 230VAC
Operating System	Windows® 7 (32-Bit)
Processor / Memory	Intel® Core® i3 / 4GB
Hard Drive	High Performance 256GB
Ports (QTY) – USB 2.0/Ethernet	2 / 2
H x W x D – in (mm)	Lowered: 78 x 36 x 36 (1943 x 914 x 914) Raised: 101 x 36 x 36 (2540 x 914 x 914)
Packaged Net Weight – lb (kg)	Base Model – Net 400 lbs (882 kg), w/ Crate 500 lbs (1102 kg) One-Pak® Package – Net 625 lbs (1378 kg), w/ Crate 700 (1544 kg)

POWER WAVE C300 PRODUCT SPECIFICATIONS

Product Number	K2675-2
Input Power	208/220-230/380/3/50/60 208/220-230/1/50/60
Rated Output – Current/Voltage/ Duty Cycle	300A/29V/40% 250A/27V/100%
Input Current @ Rated Output	3 Ph / 40% Duty Cycle: 30/28/16/14/11A 1 Ph / 40% Duty Cycle: 53/48/29A
Wire Feed Speed Range – ipm (m/min)	50-700 (1.27-17.8)
Wire Size Range – in (mm)	Solid: 0.023-0.045 (0.6-1.2) Cored: 0.035-0.045 (0.9-1.2)
H x W x D – in (mm)	18.8 x 14 x 27.4 (478 x 356 x 697)
Net Weight – lb (kg)	100 (47.6)

MINIFLEX PRODUCT SPECIFICATIONS

Product Number	K3972-3
Input Power – Voltage/Phase/Hertz	115/1/50/60
Input Current	12A
H x W x D – in (mm)	29 x 15.6 x 16.8 (736 x 396 x 427)
Net Weight – lb (kg)	40 (18.144)

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CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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EXCEPTIONAL CUSTOMER SERVICE

Lincoln Electric has a global network of facilities and people to provide quick response and personalized attention. No matter where your welding operations are located today, no matter where they will be tomorrow, Lincoln Electric experts are ready to provide local support and create and implement solutions to fit your needs.

SERVICE AND SUPPORT THAT YOU CAN COUNT ON

- » 24/7 Phone Support 1-888-935-3878
- » Contact us with comments or questions REALWELD@lincolnelectric.com
- » Online Tips and Tricks (www.realweldsystems.com)
- » Warranty and Service Support
- » Train-the-Trainer programs held regularly in facilities or on-site training and set-up can be purchased.

The Lincoln Electric Company

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