



**REALWELD**  
WELD TRAINING SOLUTIONS







K4344-3  
One-Pak® Package Shown

# Weld Training Solutions

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 new career path.



## Stick to Learning

Why settle for just MIG training? The REALWELD Trainer also takes students through stick and flux-cored welding procedures and techniques.

## Listen and Learn

The most effective learning experience is the one that engages multiple senses. The REALWELD Trainer 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 off at any time, allowing the student or prospective employee to demonstrate learned behaviors.

## Go Long

The REALWELD Trainer allows the student to practice multi-pass capability on positions 1F, 2F, 3F, 4F, 1G, 2G, 3G on lap, tee, groove and flat plate coupons with up to 1 in. (25.4 mm) plate on 6 in. (152 mm) or 18 in. (457 mm) coupons. Longer welds replicate more closely common field conditions.

## Knowledge in a Small Space

The REALWELD Trainer's slim, vertical design maintains a small footprint that makes the system ideal for setting up in any weld booth to provide an optimal training experience. The system easily rolls through any standard doorway.

## Reporting Capability

The system provides instant feedback and can help the instructor with reporting and student evaluation.

## Motor Up

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

## Everything in its Place

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

## Unlimited WPS (Tolerance)

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

## 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.

## Common Lincoln Electric WPS Platform

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

### Processes »

Stick, MIG, FCAW

### Applications »

High School, Technical College, Engineering, Union or Industrial Training Centers

### Output (Power Wave® C300) »



### Input (REALWELD Controller) »



### Product Number »

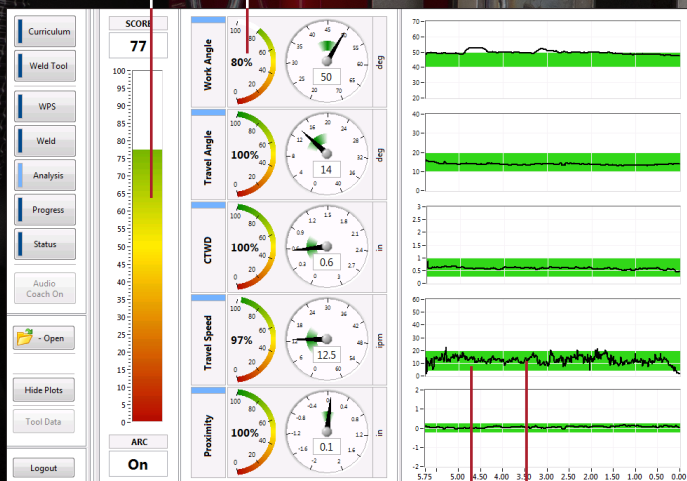
- K4344-1 (Base Model)
- K4344-3 (One-Pak™)



**Weld Analysis:**  
% of time welder is  
within tolerance on  
ALL 5 parameters

% of time parameter  
is within tolerance

REALWELD includes an  
integrated touchscreen,  
usable even with gloved hands.



Welder's action  
(line)

Tolerance  
(green section)



# REALWELD Positions

REALWELD Trainer teaches multiple welding processes in a number of welding positions (1F, 2F, 3F, 4F, 1G, 2G, 3G) and joints (lap, tee, groove, flat plate).



**Table Position 1**  
Position: Flat



**Table Position 1**  
Position: Horizontal



**Table Position 2**  
Position: Overhead



**Table Position 3**  
Position: Vertical



PRODUCT SPECIFICATIONS

| Product Name              | Product Number | Input Power                                  | Operating System    | Processor / Memory    | Hard Drive             | Ports (QTY)<br>USB 2.0 / Ethernet | H x W x D<br>in (mm)                           | Packaged<br>Net Weight<br>lb (kg)    |
|---------------------------|----------------|----------------------------------------------|---------------------|-----------------------|------------------------|-----------------------------------|------------------------------------------------|--------------------------------------|
| REALWELD® Trainer         | K4344-1        | 115/230/1/50/60<br>3A@115VAC,<br>1.5A@230VAC | Windows® 7 (32-Bit) | Intel® Core® i3 / 4GB | High Performance 256GB | 2 / 2                             | Lowered:<br>78 x 36 x 36<br>(1943 x 914 x 914) | 400 (882)<br>w/ Crate<br>500 (1102)  |
| REALWELD Trainer One-Pak® | K4344-3        |                                              |                     |                       |                        |                                   | Raised:<br>101 x 36 x 36<br>(2540 x 914 x 914) | 625 (1378)<br>w/ Crate<br>700 (1544) |

| ACCESSORIES                                                                          | Product Number | REALWELD Trainer<br>Base Model<br>[K4344-1] | REALWELD Trainer<br>One-Pak®<br>[K4344-3] |
|--------------------------------------------------------------------------------------|----------------|---------------------------------------------|-------------------------------------------|
| GENERAL                                                                              |                |                                             |                                           |
| Clamps – Qty. 2                                                                      | –              | ●                                           | ●                                         |
| Fixtures 6 in. (152 mm) – Set of 3                                                   | –              | ●                                           | ●                                         |
| 17 in. (432 mm) Protective Screen Covers                                             | KP4353-1       | ●                                           | ●                                         |
| Custom Calibration Tips & Markers for table, GMAW/FCAW gun and SMAW Electrode Holder | KP4354-1       | ●                                           | ●                                         |
| Fixtures 18 in. (457 mm) – set of 3                                                  | K4344-2        | ●                                           | ●                                         |
| Power Wave® C300 Welding Power Source                                                | K2675-2        | ●                                           | ●                                         |
| Power Wave C300 Cart                                                                 | K2734-2        | ●                                           | ●                                         |
| Miniflex Fume Extraction System                                                      | K3972-3        | ●                                           | ●                                         |
| Miniflex EN-20 nozzle                                                                | K2389-5        | ●                                           | ●                                         |
| STICK                                                                                |                |                                             |                                           |
| EH200 SMAW Electrode Holder                                                          | –              | ●                                           | ●                                         |

● Included

● Optional







#### 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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