



EDUCATION SOLUTIONS



ADVANCED TRAINERS

VRTEX® Engage

Virtual Reality Outreach Arc Welding Trainer

- The portable system sets up anywhere to introduce the skilled trades to students
- Provides an introductory environment that incorporates STEM features, exposure to welding safety, procedures and techniques
- With VRTEX® Engage, there are no licensing requirements or annual fees for use
- Housed in a sturdy rolling hardshell case, contains a complete learning environment. Just open the box and get started
- Instant feedback and assessments
- Video replay for instructor or student review and analysis on the welding process



Processes Simulated

- GMAW: Short arc, spray and pulse
- FCAW: Self-shielded
- SMAW

Input



Literature

MC15-105

Supported by:

U/LINC™ curriculum

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Input Current @ Rated Output	H x W x D in (mm)	Net Wt. lb (kg)
VRTEX® Engage	K3435-1	115/230/1/50/60	1A @ 115 0.5A @ 230	24.5 x 19.37 x 12.22 (622.3 x 492 x 310.4)	55 (24.9)

VRTEX® Transport™ (Single User)

Virtual Reality Arc Welding Trainer

- Ideal for basic training, recruitment and welder screening activities in education or industry
- Uni-gun device adapts to SMAW, GTAW, GMAW and FCAW welding
- Supports flat plate, tee joint and butt joint welding
- Replay and demo modes
- Realistic weld puddle is visually and audibly responsive to operator behavior
- Lessons on Safety and Machine Set Up
- Full immersion headset



Processes Simulated

- VRAW™
- GTAW: with and without filler metal
- GMAW: Short arc, spray and pulse
- FCAW: Gas-shielded and Self-shielded
- SMAW

Input



Literature

MC18-54

Supported by:

U/LINC™ curriculum

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Input Current @ Rated Output	H x W x D in (mm)	Net Wt. lb (kg)
VRTEX® Transport™ (Single User) Crate	K4603-3	115/230/1/50/60	4A @ 115 2A @ 230	Machine: 34.4 x 19.8 x 38.4 (874 x 503 x 975)	Machine: 200 (90.7)
Pallet	K4603-1			Coupon Stand w/Arm 17 x 12 x 14 (431 x 305 x 356) Monitor: 14.4 x 15.4 x 8.0 (366 x 392 x 204) Crate: 48 x 48 x 48 (1220 x 1220 x 1220)	Monitor: 20 (9) Crate: 155 (70.3) Armrest: 7 (3.1) PACKAGED WEIGHT: Crate, Machine & Stand: 400 (181.4)



FLAGSHIP PRODUCT

ADVANCED TRAINERS

VRTEX® Transport™ + Dual User

Virtual Reality Arc Welding Trainer

- Train two welders with one machine-includes two of each process device and coupons
- Uni-gun device adapts to SMAW, GTAW, GMAW and FCAW welding
- Supports flat plate, tee joint and butt joint welding
- Replay and demo modes
- Realistic weld puddle is visually and audibly responsive to operator behavior
- Lessons on Safety and Machine Set Up
- Full immersion headset



Processes Simulated

- VRAW™
- GTAW: with and without filler metal
- GMAW: Short arc, spray and pulse
- FCAW: Gas-shielded and Self-shielded
- SMAW

Input



Literature

MC18-54

Supported by:

U/LINC™ curriculum

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Input Current @ Rated Output	H x W x D in (mm)	Net Wt. lb (kg)
VRTEX® Transport™ + Dual User Crate	K4633-3	115/230/1/50/60	4A @ 115 2A @ 230	Machine: 34.4 x 19.8 x 38.4 (874 x 503 x 975)	Machine: 200 (90.7)
Pallet	K4633-1			Coupon Stand w/Arm 17 x 12 x 14 (431 x 305 x 356) Monitor: 14.4 x 15.4 x 8.0 (366 x 392 x 204) Crate: 48 x 48 x 48 (1220 x 1220 x 1220)	Monitor: 20 (9) Crate: 155 (70.3) Armrest: 7 (3.1) PACKAGED WEIGHT: Crate, Machine & Stand: 400 (181.4)

VRTEX® 360 (Single User)

Virtual Reality Welding Simulation Trainer

- Realistic weld puddle is visually and audibly responsive to operator behavior
- Retractable SMAW stick stinger, GMAW/FCAW gun and GTAW TIG torch, filler metal and adaptive foot pedal devices
- Supports tee, flat plate, groove, 6 in. (152.4 mm) schedule 40 pipe, 2 in. (50.8 mm) XXS pipe and pipe-on-plate
- Loaded with instructor and student aids, performance tracking and USB port for offline grading, review and functionality
- AWS virtual bend test for multi-pass pipe welds
- Lessons on Safety and Machine Set Up
- Full immersion headset



Processes Simulated

- VRAW™
- SMAW: 6010, 6013 & 7018
- GTAW: with and without filler metal
- GMAW: Short Arc, Spray, Pulse & STT™ (pipe only)
- FCAW: Gas-Shielded and Self-Shielded

Input



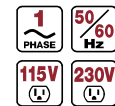
Literature

MC18-54

Supported by:

U/LINC™ curriculum

Product Name	Product Number	Input Power Voltage/Phase/Hertz	Input Current @ Rated Output	H x W x D in (mm)	Net Wt. lb (kg)
VRTEX® 360 (Single User) Crate	K4601-3	115/230/1/50/60	4A@115 2A@230	Machine: 34.4 x 19.8 x 38.4 (874 x 503 x 975)	Machine: 200 (90.7)
Pallet	K4601-1			Stand: 78.5 x 36 x 46.38 (1993.9 x 914.4 x 1178.1) Crate: 48 x 48 x 48 (1219.2 x 1219.2 x 1219.2)	PACKAGED WEIGHT: Crate, Machine & Stand: 500 (226.8)



Product Name	Product Number	Input Power Voltage/Phase/Hertz	Input Current @ Rated Output	Operating System	Processor/ Memory	Hard Drive	Ports [qty] – USB 2.0/ Ethernet	H x W x D in (mm)	Net Wt. lb (kg)
REALWELD® Base Model	K4344-1	115/230/1/50/60	3A @ 115VAC 1.5A @ 230VAC	Windows® 7 (32 bit)	Intel® Core i3/4GB	High Performance 256GB	2/2	Lowered: 76.5 x 36 x 36 (1943 x 914 x 914)	Net: 400 (882) Crate: 500 (1102)
One-Pak® Pkg.	K4344-3							Raised: 101 x 36 x 36 (2540 x 914 x 914)	Net: 625 (1378) Crate: 700 (1544)
Set of 18 in. (457 mm) Weld Fixtures (qty 3)	K4344-2							—	
REALWELD® CE	K4344-4							—	

Education Resource Center

Access the training resources you need to advance your education program, including videos, how-to instructional articles, training classes, events, and more.



Welding Power Sources

Select the right welding equipment for your education program – compact, multi-process, basic, advanced, integrated feeder models and more.



Robotic Trainers

Focuses on enhancing the ability to train student on robotic programming, welding technique and skills.



Plasma Cutting Trainers

Torchmate® packages offers their state-of-the-art, affordable, robotic metal cutting machinery for training programs.



Weld Booths

Welding booths are ideal for use in stationary production welding applications, vocational centers and training facilities.



Gear and Tools

Whether you weld for a living or you're an occasional welder, we have the right welding safety gear for you.

