

VRTEX® 360

Engaging. Exciting. Enhancing

In today's digital society, virtual training systems allow students of any age to try welding in a safe, virtual environment with realistic imagery and scenes, from a military base to a motorsports garage.

VRTEX® simulators can be used at:

- college fairs and recruitment events,
- open houses,
- trade shows,
- seminars.

The systems offer hands-on training that's consistent with standard industry methodology and evaluation criteria in a fun "gaming" inspired environment, thanks to a specially equipped virtual reality welding helmet. VRTEX® welding training simulators:

- attract and engage students,
- measure and record real-time results,
- enhance welding training programs,
- reduce energy consumption, waste and scrap,
- provide tangible savings.

Features

- Full featured, advanced and scalable welding simulator.
- Rich, vivid graphics and feature real-world welding and fume removal equipment.
- Students have access to the THEORY functionality which provides on-screen welding terminology and definitions to enhance additional comprehension.
- Virtual reality welding training doesn't replace hands-on welding — it enhances it.
- The VRTEX® system even replicates proper machine set-up. Before they can "weld", students must enter the proper material type, process, gas flow and amperage / voltage / wire-feed speed into the system.
- Connect a projector or large LCD display to the VRTEX® unit so an entire classroom can see what the welder sees under the helmet.
- Multiple views show accurate, real-time measurement of such key variables as contact tip to work distance, work angle, travel angle, travel speed and position.

Additional Features

- Advanced Scoring Module (ASME/D1.1)
- AWS Bend Test
- GMAW Aluminium
- GMAW Stainless



Processes

- SMAW, GMAW, FCAW-GS, FCAW-SS

Joint Configurations

- Flat Plate
- Tee Joint
- Lap Joint (only with upgrade 5)
- 6" diameter schedule 40 Pipe
- 2" diameter XXS Pipe

Positions

1G/PA, 2F/PB, 2G/PC, 3F/PF-PG, 3G/PF-PG, 4F/PD, 4G/PE

Usability

Flexible, multi-position stand

Functionality

GMAW gun and retractable SMAW stinger (45° / 90° angle adjustment)

Key Options

- **AD2435-2** VRTEX® 360 Upgrade 2
- **AD2435-3** VRTEX® 360 Upgrade 3
- **AD2435-4** VRTEX® 360 Upgrade 4
- **AD2435-5** VRTEX® 360 Upgrade 5
- **AD2435-6** VRTEX® 360 Upgrade 6
- **K3205-1** VRTEX® 360 curriculum contains spiral bound guide and DVD video series
- **K4057-1 & K4058-1** Project Based Lessons for the VRTEX® Welding Training Systems containing 15 lessons that can be implemented with a welding curriculum
- **K4057-2** Project Based Lessons instructor guide

Technical Specifications

Product	Item Number	Input Power	Input Current	Positions	Dimensions HxWxD (mm)	Weight (kg)
VRTEX® 360 Std.	AD2433-1	115/230/1/50/60	4A @ 115, 2A @ 230	1G/PA, 2F/PB, 2G/PC, 3F/PF-PG, 3G/PF-PG, 4F/PD, 4G/PE	Machine: 1803 x 762 x 1270 Stand: 1981 x 990 x 1194	Machine: 163 Stand: 46
VRTEX® 360 Alt.	AD2433-2					
VRTEX® 360 Std. ONE-PAK**	AD2434-1					
VRTEX® 360 Alt. ONE-PAK**	AD2434-2					

* ONE-PAK models include VRTEX 360 system + Upgrade 2, 3, 4 & 5 + K3205-1 + K4057-1 + K4057-2 + K4058-1 + K3206-1