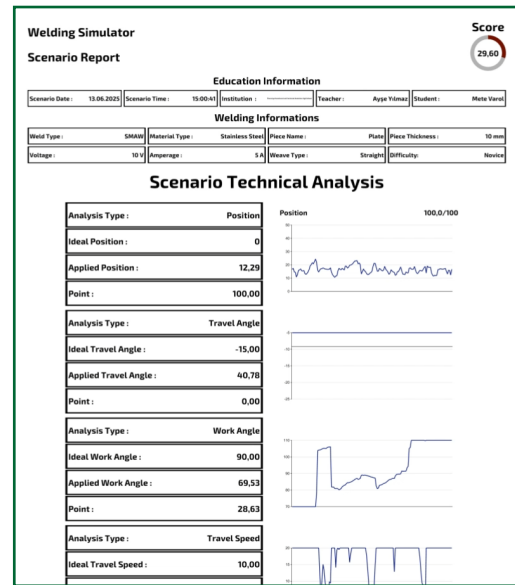
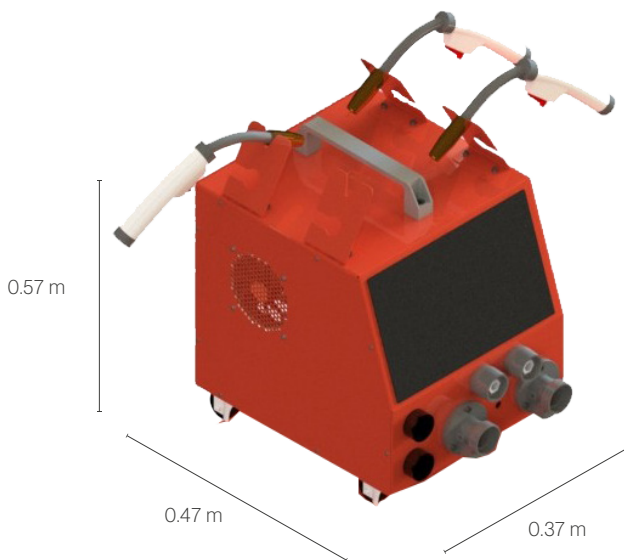


DATASHEET

PORTABLE WELDING SIMULATOR

VR-AR Based Simulator

Portable Welding Simulator provides realistic training environment powered by VR and AR technologies, offering realistic training with a highly precise mask and torch motion tracking system. Designed to support skill development in SMAW, MIG/MAG, TIG, and FCAW welding processes.



DIMENSIONS

| | |
|-----------------------------|--------------------------|
| Overall Dimensions (L-W-H) | 0.37 m - 0.47 m - 0.57 m |
| Net Weight (product only) | 45 kg |
| Shipping Dimensions (L-W-H) | 0.75 m - 0.75 m - 0.90 m |
| Crate Weight | 85 kg |
| Packaging Type | Wooden crate |

SYSTEM SPECIFICATIONS

| | |
|-----------------------------|--|
| Display System | 13.3" touch screen, 43" TV |
| Audio System | Surround stereo |
| Power Supply | 220VAC |
| Minimum System Requirements | Intel(R) Core(TM) i7 - 16 GB Ram - 500 GB SSD Nvidia GeForce RTX 3060 - Windows 11 Wireless Combo Keyboard Mouse |

DATASHEET

PORTABLE WELDING SIMULATOR

VR-AR Based Simulator

WELDING SIMULATOR SPECIFICATIONS

| | |
|-----------------------------|---|
| Supported Welding Processes | SMAW, MIG/MAG, TIG, FCAW |
| Welding Positions | PA, PB, PC, PD, PF/PG, PE, PH/PJ, 1F, 2F, 3F, 4F, 5F, 1G, 2G, 3G, 4G, 5G, 6G |
| Worktable | No |
| Welding Mask | AR/VR supported headset |
| Touchscreen Interaction | No need removing the welding mask |
| Accessories | 4 real torchs for SMAW, MIG/MAG, TIG, FCAW |
| Materials | Stainless Steel, Steel, Aluminium, Copper |
| Work Pieces | Plate, L piece, T piece, Lap piece, Butt plate 12cm pipe, 5 cm pipe, 12 cm pipe plate, 5 cm pipe plate |
| Coupon Thickness Selection | Yes |
| Weld Options | Straight Pass, Curved Weave, Zigzag, Triangular Pattern |
| Weld Direction Selection | Left-to-right, right-to-left |
| Hand Selection | Right / Left hand selection |
| Voltage Selection | Manual |
| Amper Selection | Manual |
| Difficulty Selection | Novice, Intermediate, Expert |
| Error Detection | Real-time error detection and feedback |
| Guides | Facilitating learning through visual guidance |



Portable Welding Simulator



Portable Welding Simulator

DATASHEET

PORTABLE WELDING SIMULATOR

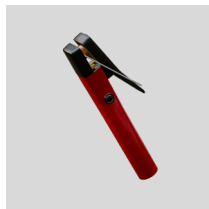
VR-AR Based Simulator

WELDING SIMULATOR SPECIFICATIONS

| | |
|-----------------------|--|
| Adjustable Parameters | Amperage, voltage, material thickness, wire thickness |
| Analyzed Parameters | Analysis of position, distance, speed, angle parameters Analysis of penetration, porosity, and spatters |
| Standards | American (AWS) and European (ISO) welding standards |
| Reports | Visual analysis and reporting of position, angle, and speed parameters |
| Session Recording | Recording and multi-angle replay of student welding scenarios |
| Data Storage | Student-based data storage and training history tracking |
| Scoring | Customizable scoring parameters with advanced management interface |
| Environment | Real welding environment, high graphics quality |
| Sound | Real welding sound |
| Training Advantages | Safe, cost-effective, and measurable welding training |
| Remote Support | Yes |
| Warranty | 2 years |



MIG
Metal Inert
Gas Welding



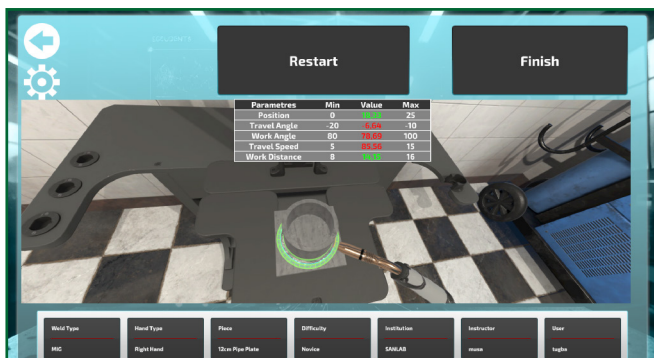
SMAW
Shielded Metal
Arc Welding



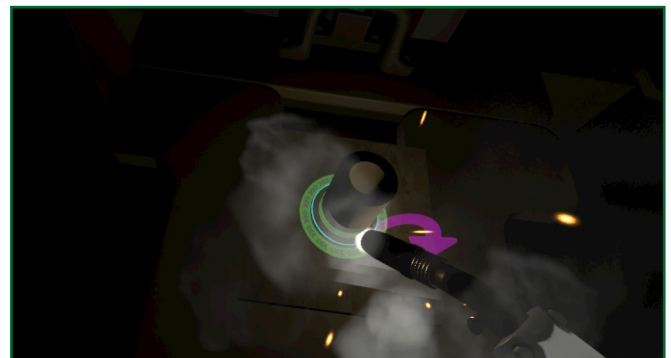
TIG
Tungsten Inert
Gas Welding



FCAW
Flux-Cored
Arc Welding



Scenario Screen



Scenario Screen