

WELDING SIMULATORS











the training is simulated ...the skills are real

ACE VR WELDER is a 3D innovative simulator, that provides a fast and safe way for training.

ACE VR WELDER has the capability to import different virtual welding pieces into the system to allow for client specific welding exercises. (Subject to additional fees)

Features

- MIG MAG, TIG & Coated Electrode.
- Instructor station
- Report generation
- Life like parameters and controls
- Right & left handed set up
- · Briefing for review
- Easy installation (Plug and Play)
- Immersive interactive system with virtual reality mask (3D) and torches.



- Life like weight and sized equipment
- Welding torches
- Mask with 3D view
- Coated electrode
- MIF-MAG
- TIG













Technical specification for welding simulator

Product Welding Simulator

Vision Technology Virtual Reality

Input Supply Single Phase 230v,

50 - 60 Hz, (5 - 11amp)

Learning Concepts Didactic

Process Simulated SMAW, GMAW, GTAW

Joint Configuration Butt, Fillet, Lap,

Pipe To Plate And Pipe To Pipe

Welding Position-Basic 1G To 4G

(upto Overhead)

Welding Position-Adv. 5G To 6G (Pipe To Pipe

And Pipe To Plate)

Skills Learned Arc Length, Speed, Work

Angle, Travel Angle & Straightness

Defects Analysis Porosity & Spatter

Virtual Work Stand Facility To adjust the Job

In All Positions-Upto 6G

Analysis Modes

Report

Video Replay And

Evaluation Objective (score) / Methodology Graphical (trends)

evaluation

Viewing Points HD Vision Helmet,

Simulator System Screen And Projector

Thickness of Materials 3.0, 6.0 & 10.0 Mm.

Simulator Parameters

- CC / CV Function
- Polarity selection DC+, DC- and AC
- Digital display of Current, Voltage, Wire feed speed & Gas pressure adjustment
- Synergic control for parameter selection
- Provision for selection of 2 Step and 4 Step trigger options in GMAW process.

Scope of supply

Virtual Trainer Set including Display

and CPU : 1 No.

GMAW Torch Set : 1 No.

SMAW Torch Set : 1 No.

GTAW Torch Set with

Electrode : 1No.

Server software : 1 No.

Butt Weld, Fillet Weld

(Haptic Plates Job) : 1 Set

Virtual Reality Helmet : 1 Set

Accessories and components to meet above

specification









Features of the welding simulator

- The simulator is with Real environment simulation
- Machine is not producing any real arc and real fume.
- Viewing from helmet HD Vision
- Different levels of practice (degree of difficulty)
- Every weld bead is evaluated by the simulator
- SMAW process simulation will have a feel of actual electrode consumption
- Simulator Provides 3D Environment with simulation of Smoke, Spark and Welding Sound during Welding training.
- Menu Language selection in Regional language (Hindi, Gujarati etc.) to facilitate ease in training to student.
- Guidance for Skill parameters during welding (Continuously)
- Guidance for Ideal vision of welder during welding (Continuously)
- Free Teacher software with Create, Edit and Delete options for Courses, Modules and

- Student details.
- Possibility to include additional process and improvements in the same simulator
- Possibility to include PDF uploads in Indian language of choice
- Remote Maintenance and updates through online
- Networking of simulators can be possible.
- Facility to monitor Performance of each student
- Learning through didactic and trainer guidance
- VR Resolution High Resolution
- Colour 32Bit True colour
- Facility to connect to Monitor / Projector
- Polarity selection DC+, DC-, and AC
- Machine includes pre-defined courses.
- Administrator and Trainer Login is available to monitor and evaluate students activity Data Back Up and Calibration Facility.
- Server Installed to operate ,Control and design the course by Admin and Teacher.



