

State of the art,  
Turnkey, Scalable  
and effective  
welding training  
solution powered by  
Augmented Reality.

**SOLDAMATIC**  
AUGMENTED TRAINING TECHNOLOGY FOR WELDING



A SEABERY SOLUTION



# STATE OF THE ART TRAINING

SOLDAMATIC IE REVOLUTIONIZES WELDING TRAINING CREATING THE NEXT GENERATION OF WELDERS  
THE MOST COMPREHENSIVE, EFFECTIVE AND MODERN WELDING TRAINING SOLUTION.



**34%**

more certified welders  
than with traditional  
methodology



**56%**

reduction in  
learning time



**68%**

reduction in lab costs and  
environmental impact



**84%**

less accidents



**+75**

countries worldwide

SOLDAMATIC IE IS AVAILABLE IN 33 LANGUAGES



OFFERS THE BEST, MOST REALISTIC WELDING TRAINING SYSTEM  
ASIDE FROM REAL WELDING.



Power source-like  
controls



Real Welding  
mask



Real torches  
& gun



Welding  
Joints



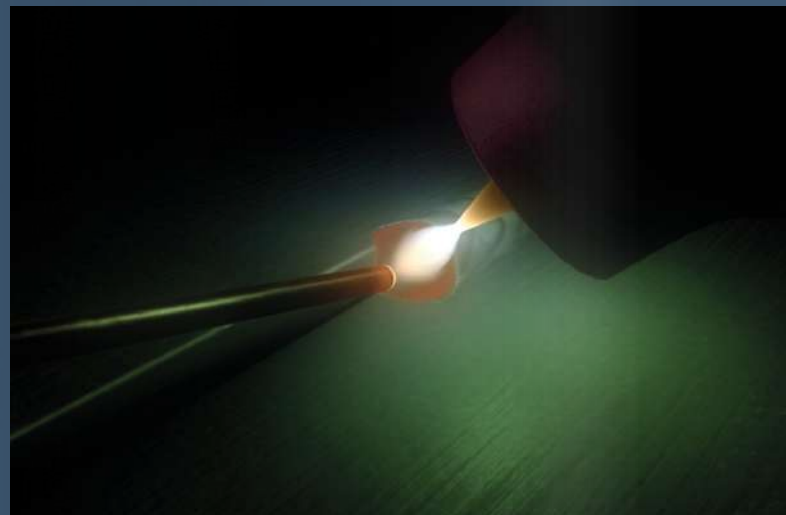
Welding bead  
quality & settings



Transfer  
Modes



Remastered HD  
Welding Sound



Two examples of Soldamatic's welding simulation

ALL THE WELDING PARAMETERS, VISUALS AND SOUND  
HAVE BEEN CALIBRATED AT THE REAL WELDING LAB



# SOLDAMATIC WELDING SIMULATOR



## AUGMENTED TRAINING METHODOLOGY FOR WELDING

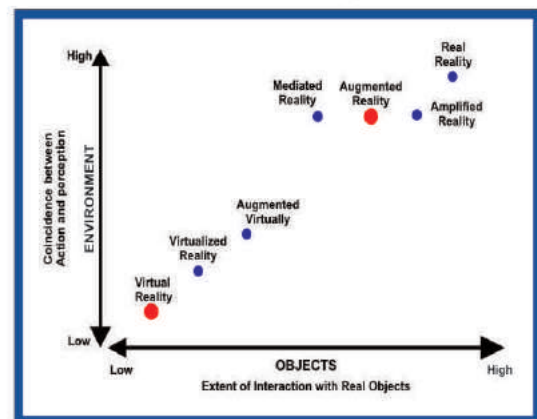
### BENEFITS

- 68% average consumable savings
- 56% real workshop time savings
- Negligible power cost
- No smoke and No fumes
- Promotes the concept of Green learning
- Reduce overall Training time, Scrap & waste
- Build a larger, more-skilled welding workforce
- Optimise instructor efficiency

### TECHNOLOGY

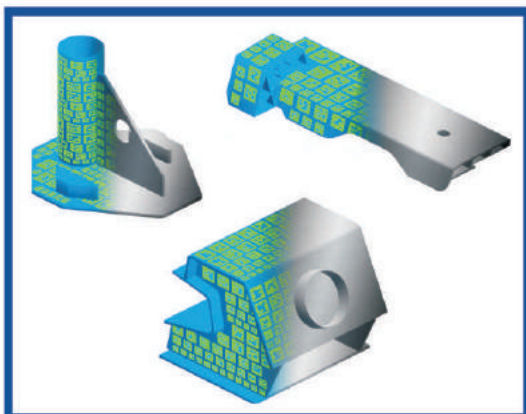
Augmented Reality (AR) combines real objects with virtual computer-generated images to create a new mixed reality in realtime.

You will work with real 3D objects and will be in touch with your working environment focusing on the real world instead of the computer. This gives you the feeling that the objects of real and virtual world coexist! In augmented reality, the virtual object follows the real object in real environment



### FEATURES

- SMAW, GMAW, FCAW & GTAW processes
- 1G to 6G and 1F to 6F positions
- Butt, Lap, Fillet, Pipe to Pipe and Pipe to Plate joints
- Skill guidance for hand steadiness
- Feel of real environment, objects, welding simulation and welding sound
- Dual Access for student and trainer
- E-learning platform
- IIW Programs
- World skill practice work pieces
- Facility to create custom workpieces for Industry
- Facility to integrate with Robot



**Industrial Workpieces**

## SIMULATION FOR REAL FEEL

- Physical haptic work-pieces for plates and pipes
- HD mask, facilitates students wearing spectacles
- Virtual images with real objects in real environment
- Simulates real time welding sound as in real process
- Short circuit, Globular and Spray metal transfer modes
- Inspection of workpiece by holding, rotating and viewing
- Welding bead formation with weld puddle and red hot simulation
- Retraction of physical electrode, simulates electrode consumption
- Euro connector industrial welding torches for GMAW and GTAW processes



AR Lab

## SKILLS FOR "STEADY HAND"

- **BASIC SKILLS** - Path, Arc length, Welding speed, Work and Travel angle
- **ADVANCED SKILLS** - Stick out (CTWD) in GMAW
- **FILLER ROD - GTAW** - Work angle and Travel angle
- **ANALYSIS** - Skill, Defect, Graphical, Percentile and Video



Realistic Simulation

## CREDENTIALS



2014 Auggie Award for Best Augmented Reality Solution California, USA



2014 Most Innovative Product for Education by Worlddidac. Bern, Switzerland



Most Innovative Technology at Hungexpo. Budapest, Hungary



Most Investable Startup. Europe, Silicon Stroll Bootcamp.



2017 Auggie Award for Best-in-show-AR Munich, Germany, Europe

## ACCREDITATIONS



**IMPART TECH SOLUTIONS**  
C3 - 1704, L&T South City,  
Arekere Mico Layout, Bengaluru - 560076

Email : [director.imparttech@gmail.com](mailto:director.imparttech@gmail.com)  
Mobile : 7975782501 / 8073790973  
Web : [www.imparttechsolutions.co.in](http://www.imparttechsolutions.co.in)