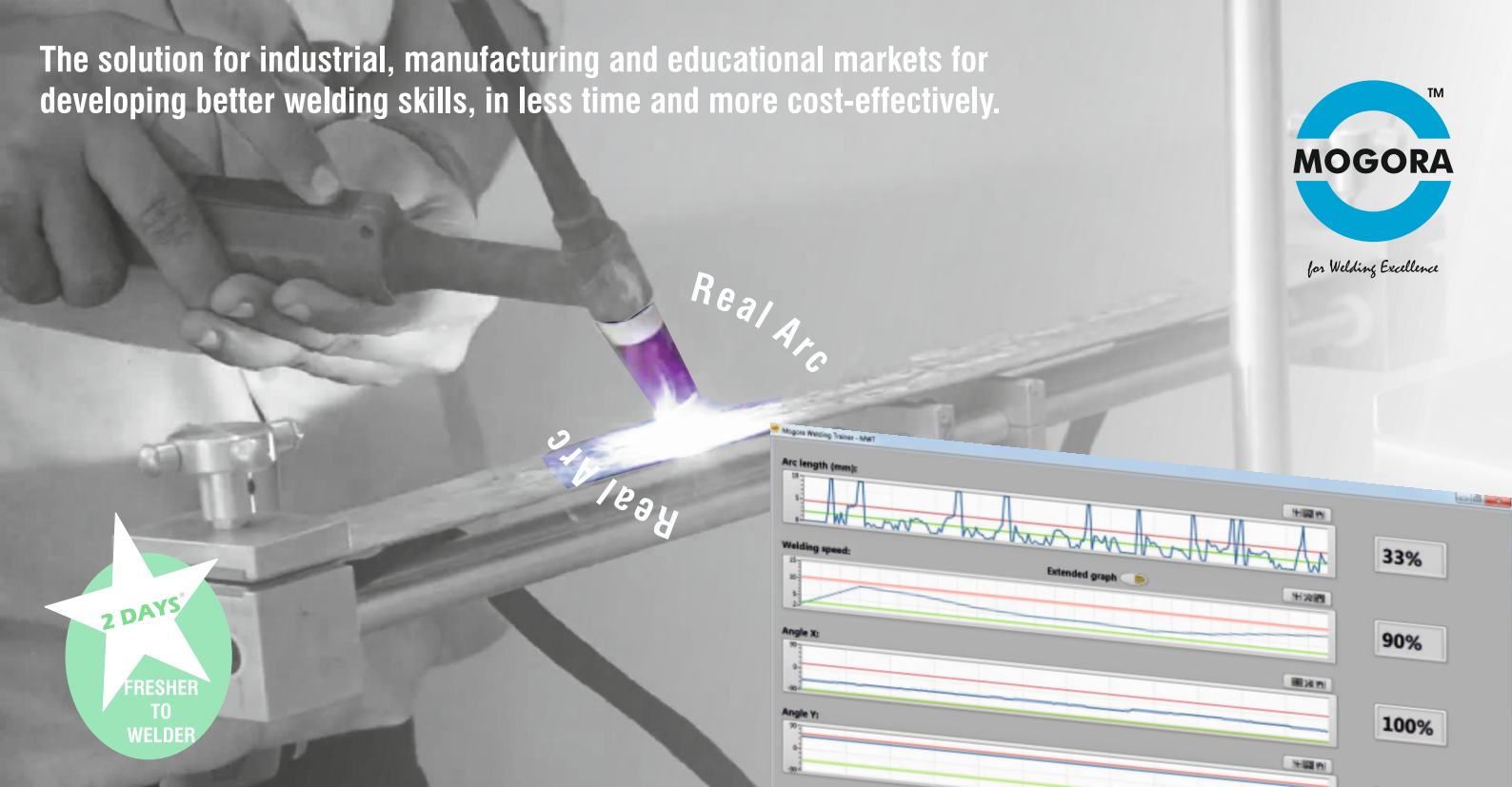


The solution for industrial, manufacturing and educational markets for developing better welding skills, in less time and more cost-effectively.



## MOGORA MAKE: WELDING SIMULATOR MODEL: MAWS 03



### Model Details:

- MIG Welding Simulator : MAWS 03 (GMAW)
- TIG Welding Simulator: MAWS 03 (GTAW)
- MMA Welding Simulator : MAWS 03 (SMAW)



### Beneficial Features

- **Welding Simulator, MAWS 03** is a new and innovative reality-based training system utilizes a **live welding arc** (Micro Arc Consuming hardly any power) to train the user on the real welding environment.
- Supports 3 different welding processes like MMAW,GMAW, GTAW.
- It is designed to TRAIN, SCREEN, RECRUIT, RE-QUALIFY & MANAGE the performance of welding trainee.
- It is better, faster & more effective than conventional training methods.
- Unique motion tracking technology provides trainee's critical feedback like arc length, Welding Speed, Angle of Torch (X & Y).
- The system provides, welding instructor the ability to configure assignments and technique parameters.
- It stores the performance record of the trainee for future evaluation.
- It compliments instructor by reducing both training time and cost of the materials while accelerating the performance.
- This simulator can be interfaced with Real Welding machines like MIG/MMA/TIG to measure the actual welding time parameters.
- Operations available in many Indian Languages like Hindi, English, Telugu, Tamil etc.
- Inbuilt e-learning from our website and from the database on advance welding processes.

### SIMULATOR INTERFACE WITH REAL WELDING MACHINES



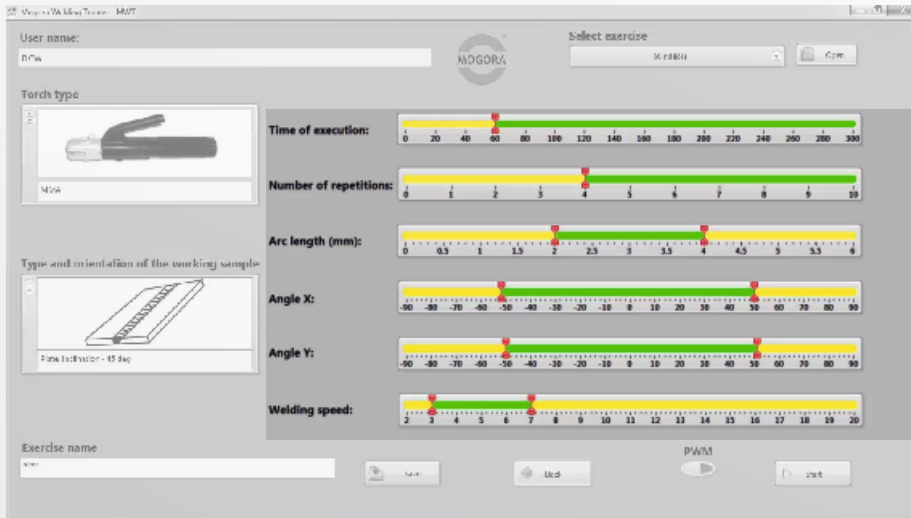
Supports Welding Position  
1F-2F-3F-4F-5F-6F  
1G-2G-3G-4G PLATE

Advance Manipulator  
For Welding Simulator



Supports Welding Position  
5G-6G-6G-R : PIPE

Advance Manipulator  
For Welding Simulator



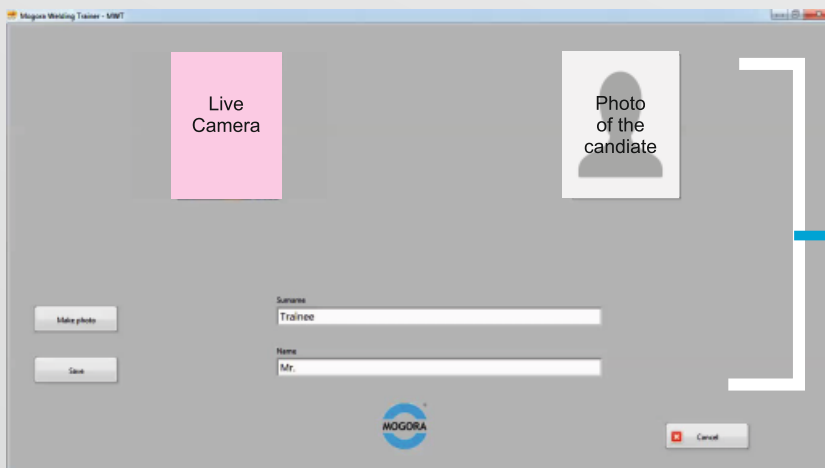
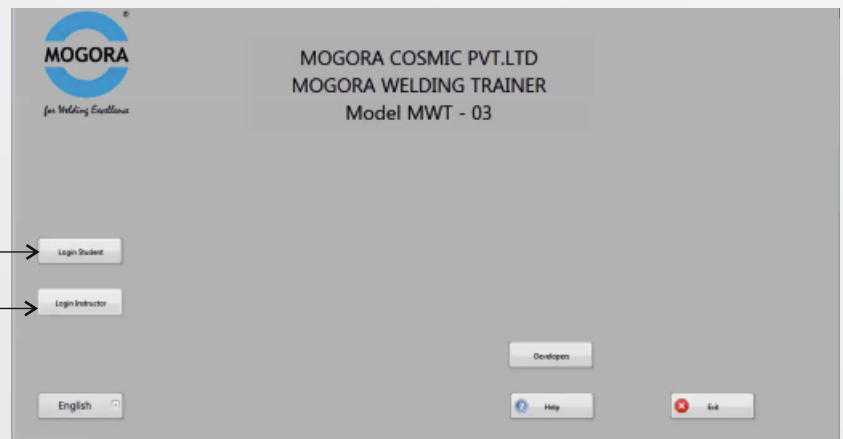
## DEVELOPED FOR YOU!!!

- MAWS 03 has been designed after taking the feedback from Leading welding training centers of India & Ukraine.
- It has the feature to develop or, screen the psychomotor skills of the trainee/ candidate.
- It is built in with a micro arc based system which delivers a real arc environment, & because of the acquaintance of the real welding the candidate can easily switch to real arc welding.

As There are 4 Basic Welding Skills, which are human dependant, So we built in those features in our simulator and those are as belows.

1. ARC LENGTH : 0-6 mm
2. ANGLE "X" (Travel Angle) : -90 Deg To +90 Deg
3. ANGLE "Y" (Working Angle) : -90 Deg To +90 Deg
4. Tracking / Hand Speed of Welding: 0-20 mm/sec

**Separate LOGIN for Instructor & Trainee**



**Individual Login System for Trainee**  
To Store, evaluate & improve on individual records.

## INSTRUCTOR SCREEN

After LOGIN as "INSTRUCTOR" you can set the following parameters in the MAWS 03.

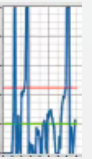
1. Predefined Exercises
2. Welding Process: MMA, MIG, TIG, PAW
3. Job Orientation
4. Time of Execution : 0 - 300 Sec
5. Number of Repetition : 1 - 10 Times
6. Arc Length
7. Angle "X" & "Y"
8. Welding Speed
9. Saving of the assignment



## DURING WELDING

The Following things will be displayed in the monitor.

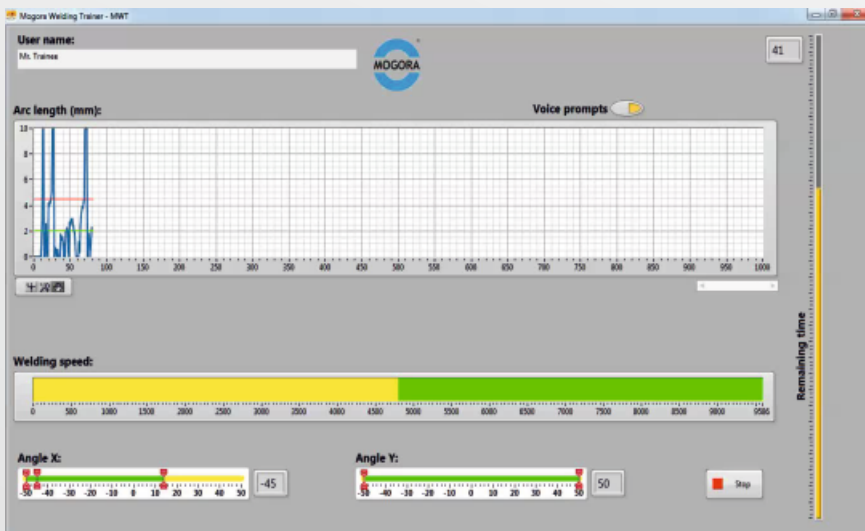
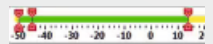
1. Real Time Arc Length in the form of graph. There will be 2 different lines i.e. RED & GREEN which indicates the specified range defined by the trainer. Voice Prompt will be there.



2. Welding Speed : in three different bands.



3. Welding Angles : Real time welding angle w.r.t set welding angle range.



## POST WELDING

After the completion of set time duration the welding will automatically off and a **numeric measurement based output**(in percentage as well as graph of simulation) will be generated.

Further this can be saved as a word document for evaluation.



# MAWS 03: A REAL ARC WELDING SIMULATOR : A COST SAVER : A TIME SAVER



## MAWS 03

THE REAL ARC BASED WELDING SIMULATOR



### TIME SAVER

- MAWS 03's pre defined exercises promotes time saving in giving the basic training skills.
- Provides percentage wise feedback on parameters like arc length, welding speed, welding angle for easy assessment.
- Easy to design the assignments.
- Flexible for recruiting, screening, training and performance review.
- Independent usage accelerates personal development.
- Accelerated training times, put trainees in production lines faster.



### COST EFFECTIVE

- 100% Indigenous.
- Saves a lot of preweld cost in material, gas, Wire & Electrical power.
- It takes a very little floor space to accommodate.
- Reduces poor-quality welding and defects, rework and downtime.
- Shorter educational periods allow trainees to focus on additional learning opportunities.
- Available in Touch Screen (On Demand).
- \*Available in Lighter Versions also.

\*Look of the simulator will be different.

## :Tech Specs of MODEL - MAWS 03 :

- ⊙ Input Supply : 230 V AC, 1 Phase
- ⊙ Input Power Consumption: 500 Watt
- ⊙ Type of Simulation : Real Arc Based Simulation
- ⊙ OCV = 42 Volt
- ⊙ Welding Voltage = 25 Volt
- ⊙ Welding Current : 6 Amps
- ⊙ 50 nos. of predefined assignments for Trainee as well as trainer.
- ⊙ Process Support : MMAW, MIG/GMAW\*, TIG/GTAW\*
- ⊙ Input Supply : 230 V AC, 1 Phase
- ⊙ Simulation software runs on dedicated Windows OS based PC, having Core i5 processor & Q8 Series chipset & 2GB RAM.
- ⊙ Position Support : 1F - 4F, 1G - 6G
- ⊙ Recommended For: Training, Screening, Interviewing
- ⊙ Weight of Simulator: 50 Kg.

\* Optional Features which will be available on demand.

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for Welding Excellence

( In view of continuous development, we reserve the right to modify the design and / or dimensions without notice)