

# Arc+ NG Welding Simulator

## Technical Specifications



### Arc+ NG Welding Simulator



GMAW/FCAW/MCAW Torch



Core Unit



SMAW Torch with Virtual Electrode



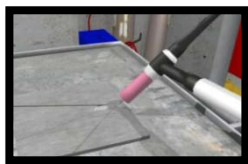
Height-adjustable  
Telescopic Table



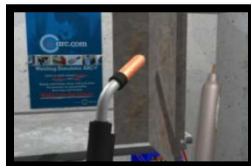
Welding mask with virtual reality glasses



GTAW/TIG Torch with Virtual Electrode  
& High Frequency Welding Pedal



GMAW, SMAW, MCAW, FCAW  
& GTAW/TIG Processes



Vertical & Overhead  
Welding Positions

### System Description

- Virtual immersion turnkey system powered by the detection of sensors that are placed on accessories in motion
- Realistic immersive 3D environment with simulation of virtual smoke, sparks, and welding sounds
- 5-minute setup
- Touch screen with the possibility to display on external monitors
- Single-phase power suitable for 120 or 220/230V
- Real welding torches
- Height adjustable telescopic table for better ergonomics and support for vertical and overhead welding positions

### Features

- 3 real welding torches for more accurate feel and durability:
  - GMAW/FCAW/MCAW
  - SMAW with virtual electrode
  - GTAW/TIG torch with virtual electrode and high frequency welding pedal
- GMAW, MCAW, FCAW, SMAW & GTAW/TIG processes
- Travel angle, work angle, arc speed, motion straightness and stick-out variation guides
- Multi-pass welds on various plate thicknesses
- Flat, horizontal, vertical and overhead welding positions
- Mild steel, stainless steel and aluminum alloys
- Various assembly sizes
- Lap, fillet, corner and groove joint configurations

- Over 100 WPS's included, that are engineer-certified according to industry code
- Small footprint for easier classroom setup
- 3 levels (Beginner, Intermediate & Expert)
- Practice, Exercise and Replay modes
- Custom settings for right and left-handed welders
- Printable diagnostic reports with data and graphics for travel angle, work angle, arc speed, motion straightness, stick-out and metallurgical diagnostics

- Individual learning system
- Possibility to analyze exercise results remotely
- Classroom management with protected individual user accounts
- Welding mask with virtual reality glasses
- Height-adjustable telescopic table
- T joint, V butt joint & Lap joint coupons
- Fully calibrated. No calibration required by the user

## Weights & Dimensions

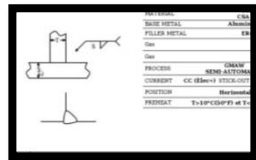
	Core Unit	Telescopic Table
Installed Simulator	58 x 58 x 29 cm 23 x 23 x 11 in	58 x 55-115 x 58 cm 23 x 22-45 x 23 in
Shipping	64 x 51 x 76 cm / 18 kg 25 x 20 x 30 in / 40 lbs	51 x 56 x 81 cm / 23 kg 20 x 22 x 32 in / 51 lbs
Transport Cases	64 x 56 x 81 cm / 23 kg 25 x 22 x 32 in / 51 lbs	56 x 61 x 86 cm / 29 kg 22 x 24 x 34 in / 64 kg

Languages	Maintenance	Requirements
English, French, Portuguese, Spanish	Private, cloud or independent network Periodical remote updates	Internet access for remote support and updates

## Hardware & Software Options



Arc+ Server



Customized WPS's



Transport Cases for Core Unit & Accessories



E-learning Software

### Hardware

- Arc+ Server - enables a student to access their account from any Arc+ NG simulator and teacher can view student results from any simulator
- Transport Cases for Arc+ NG Core Unit and accessories - airline baggage check-in compliant

### Software

- E-learning software
- Possibility of over 150 standard WPS's

## Manufactured by:

## Authorized Arc+ Preferred Authorized Reseller:



123 Certification Inc.  
4035 St-Ambroise, Suite 314  
Montreal, QC, H4C 2E1, Canada  
Tel: 514-932-7273  
info@123certification.com | www.123arc.com