



SOLDAMATIC

AUGMENTED TRAINING TECHNOLOGY FOR WELDING

Welding Training &
Performance Digitalization
Solution

CATALOGUE

2019

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01. WHAT IS SOLDAMATIC IE?

FACTS & FIGURES

Thousands of units in
+50 countries
worldwide

+750
clients in
Education & Industry

+90.000
professionals
trained



68%
average consumable savings



Increase
the arc-on time by
3 to 5
times



Educate
4 times more
students while keeping your
existing lab infrastructure



56%
real workshop
time reduction



34%
more certified trainees
for IW than traditional
methodology

Soldamatic IE is the first Welding Training Solution powered with Augmented Reality (AR) in the world.

Soldamatic IE is the third generation Soldamatic platform, it applies new technologies like AR to enhance the learning process and uses real welding equipment to develop skills and muscle memory.

It applies gamification to improve the motivation of trainees, personalized learning to adapt to their personal needs and green & safe technology to reduce the risks for newcomers and pollution.



Auggie Awards
Santa Clara, California

2017 Best Augmented Reality Solution for enterprise at Augmented World Expo Europe. Munich, Germany.
2014 Best Augmented Reality Solution for enterprise at Augmented World Expo Santa Clara, California, USA.



worlddidac

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



Most visited Booth and Promising technology at Weldindia 2014. New Dheli, India.



Most Innovative Technology at Hungexpo. Budapest, Hungary.



Included by Gartner in their Augmented Reality Market Representative Vendors Report.



Most Investable Startup. Europe, Silicon Stroll Bootcamp.



Partnership with Abicor Binzel to promote healthy and safewelding together.

**Real case study of a Soldamatic classroom in a Welding Centre*

03. SOLDAMATIC IE

Soldamatic IE offers a flexible software subscription system that adapts to the market needs, it is formed by the Soldamatic Hardware + 3 Software Subscription Options:

VALUE PROPOSITION

EDUCATION

Attract the new generation of young people to welding, train them better, safer, faster and reducing costs.



Metal Manufacturing Vocational Schools, technical universities.



Attract students
Improve safety
Spark future welders

Licenses can be acquired yearly, for three years or lifetime.

ADVANCED

Bridge the gap with Industry, train in AR with competition multi-joints and different industry applications.



Welding Training Centres.



Improve efficiency
Reduce costs
Prepare for Industry & Welding Competitions

INDUSTRY

Improve the productivity of the real welding operations on the field and reduce failure rate in industry recertification processes.



Industrial companies.



Improve productivity
Reduce % failure in recertification
Train better welding professionals.

Hardware +3 Licensing Options



	EDUCATION	ADVANCED	INDUSTRY
WELDING			
Specific Software for Education Welding Joints (EWJ)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Education Welding Joints	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specific Software for Advanced Welding Multijoints (AWM)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Specific Software for Industrial Welding Multijoints (IWM)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Specific Software for TIG Pedal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Base Materials			
• Carbon Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Stainless Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Aluminium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thicknesses			
• 3, 6 & 10 mm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• 2 & 15 mm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Processes			
• GTAW, GMAW, FCAW, SMAW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEARNING			
Soldamatic eLearning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Augmented Training Methodology Course	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soldamatic Welding Curricula (Welding Initiation Course)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
International Welder Program by IIW	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analysis Module	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Analysis Module for Welding Multijoints	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SERVICES			
Customer Area Access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical Support	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Remote Assistance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

04. HARDWARE

All the Soldamatic IE components are real welding components. The shape of the AR simulator and its front panel are inspired in real welding power sources.

- Soldamatic Welding Simulator
- Augmented Reality Helmet
- 2 WiFi antennas
- Torches
 - GMAW (MIG/MAG)
 - MMA Electrode
 - GTAW (TIG)
 - Electrode Stick
 - Filler rod
- Education Welding Joints
 - V-Butt
 - V-Butt 6" pipe
 - Overlapped
 - T-Angled
 - T-Angled 6" pipe to plate

Optional:

- Router (Only for classroom configurations)
- Server (Only for classroom configurations)
- Flight Case
- Workstand
- TIG Pedal

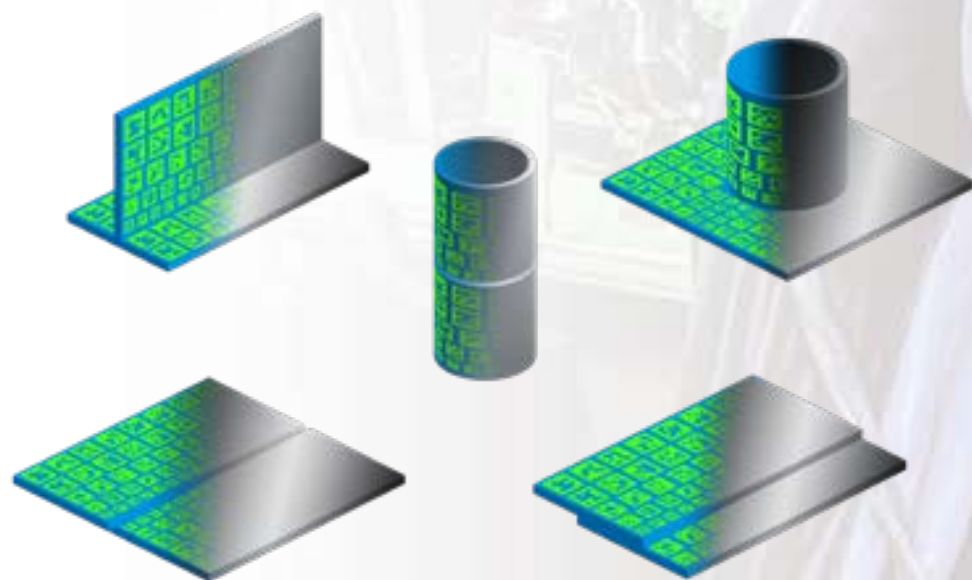


05. JOINTS

Education Welding Joint

The most used joints in welding training & certification worldwide.

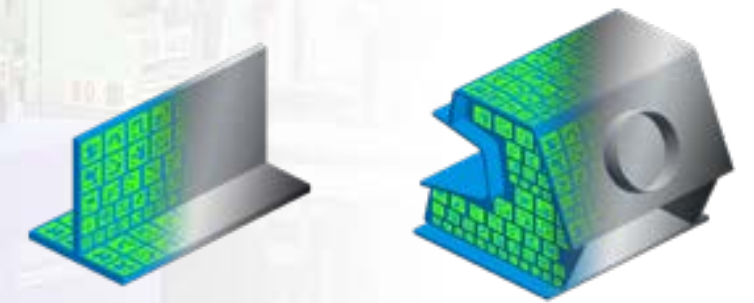
- V-Butt Plate
- V-Butt 6" Plate
- Overlapped Plate
- T-Angled Plate
- T-Angled 6" Pipe to Plate



Advanced Welding Multijoint

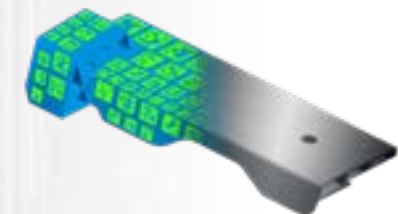
Developed for International Welding Competition and different industries.

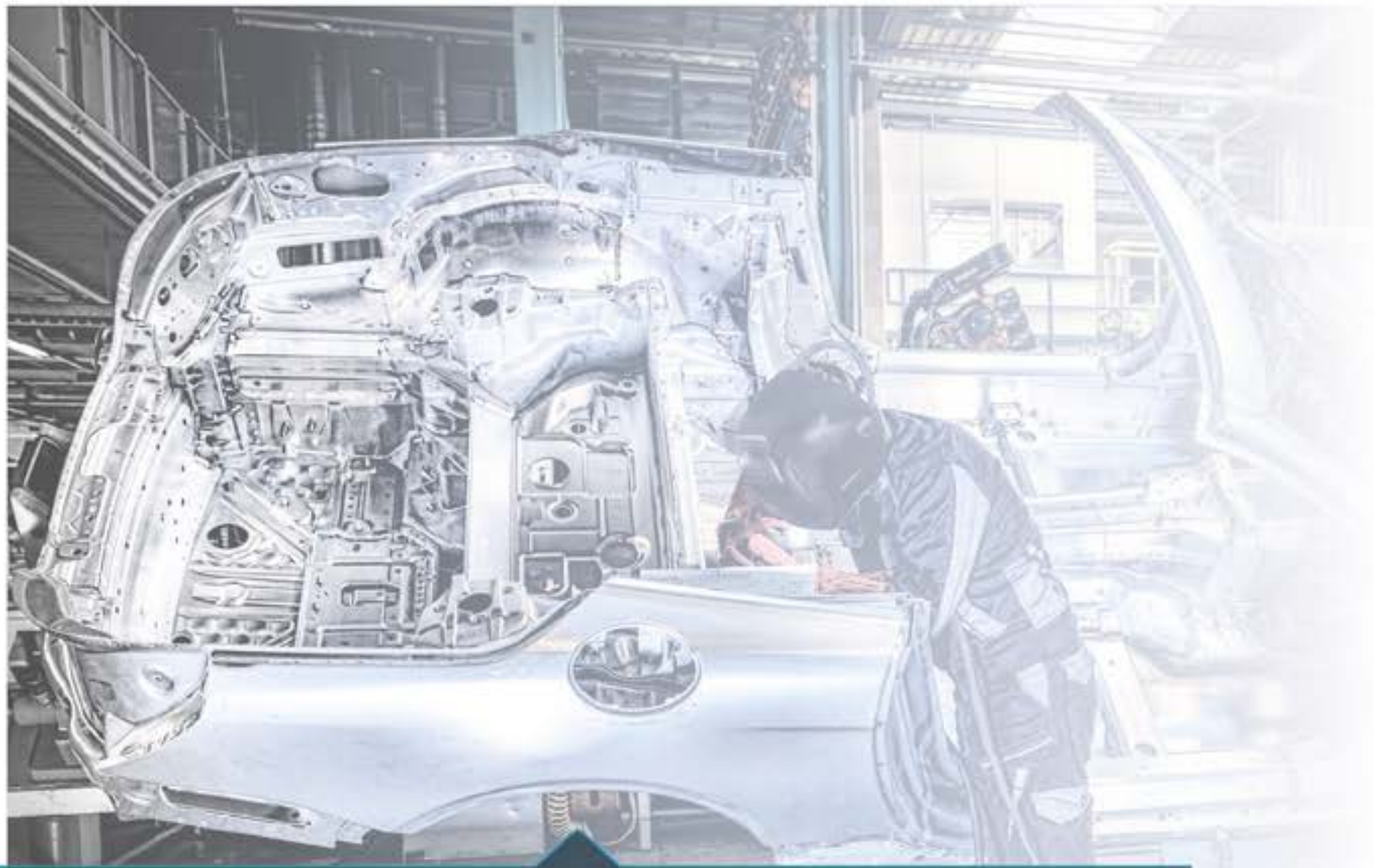
Different thicknesses, welding sequences and challenging positions in the same piece.



Industrial Welding Multijoint

Made to meet customer specific training and performance needs.





06. AUGMENTED TRAINING

AT proposes a new educational paradigm that promotes intensive practice, it is a dynamic and flexible model, which allows instructors to easily manage different courses with numerous students, regardless of their level of knowledge and/or learning pace.

Each student can join the training at any time, and only progresses once each stage has been satisfactorily completed, which allows them to set their own learning pace and guarantees a high level of qualification.





AUGMENTED TRAINING METHODOLOGY COURSE

The course provides teachers with the necessary skills and abilities to follow the Augmented Training Methodology. It offers the student a personalized learning experience and improves his motivation thanks to gamification.



SOLDAMATIC E-LEARNING

Learning Management application, focused on helping instructors manage the whole training program, monitor and assess the trainees' performance and generate statistics and reports.



100% online



Video and PDF Contents



Available 24/7

07. CONTENTS

High quality welding curricula developed by international experts to be performed with Soldamatic IE. These courses will allow instructors to teach welding according to the most demanded international standards and using the innovative Augmented Training methodology of Soldamatic.

The Advanced and Industry licenses include the International Welder program according to the Guideline IAB-089 from the European Welding Federation (EWF) and International Institute of Welding (IIW), designed to be taught with Soldamatic IE, and also suitable for the acquisition of the SENSE certificate from the American Welding Society (AWS).

Soldamatic IE contents include theory, tests and welding practices ready to be performed in different difficulty levels, with or without help icons.

Upload your own welding courses or take advantage of the digital training content specifically developed for Soldamatic IE.

If you want more information about our contents, please visit our website <http://www.soldamatic.com/welding-contents/>

Contents provided by:



08. DATA SHEET

DIMENSIONS (WITHOUT ACCESSORIES)	420x237x535mm (16,53x9,25x21,06 in.)
WEIGHT (WITHOUT HELMET)	9,5 Kilograms (20,94 lbs)
WEIGHT (WITH HELMET)	10.8 Kilograms (23,80 lbs.)
ACCESORIES	STANDARD: Augmented Reality Helmet, Cables, Education Welding Joints, Welding Torches, Filler rod, Welding gloves OPTIONAL: Work stand, Flight case, TIG Pedal, Advanced Welding Multijoints, Industrial Welding Multijoints, Classroom server including router & Wi-Fi antenna
VOLTAGE SELECTION	YES
INTENSITY (AMPERAGE) SELECTION	YES
POLARITY SELECTION	YES
SHIELDING GAS SELECTION	YES
WIRE SPEED SELECTION	YES, in GMAW
CURRENT SELECTION	YES: Alternating Current/Direct Current
COUPON MATERIAL SELECTION	Education: carbon steel Industry: carbon steel, stainless steel, aluminium
COUPON THICKNESS SELECTION	YES: 3mm, 6mm, 10mm
ELECTRODE STICK SELECTION	STANDARD: base, rutile OPTIONAL: celulosic, etc
ELECTRODE STICK DIAMETER SELECTION	YES: 2,25mm, 3,25mm, 4mm
FILLER ROD SELECTION	YES: E7028, E6010, E6013
ANALYSIS MODULE	YES
SCREEN HELP GUIDE	YES
VISION TECHNOLOGY	Augmented Reality
POWER SUPPLY	80-264 VAC 47-63 Hz

PROCESSOR	Intel Core® i7 ultimate generation
CHIPSET	Intel® H110 Express Chipset
RAM	4GB DDr4-2133
GRAPHIC CARD	NVIDIA® GeForce GTX950
HARD DISK	Solid State 120GB MSATA
AUDIO	Realtek High Definition Audio
OPERATING SYSTEM	Seabery Operating System optimized for Soldamatic v.2.6
DISPLAY SIZE	9,7"
DISPLAY RESOLUTION	HD LCD 1024 x 768 XGA
PORT FOR EXTERNAL DISPLAY/PROJECTOR	HDMI/DP Port
AR VISION MODULE RESOLUTION	HD LCD 4,8"
	HDMI Display input up to 1280X800 Ultra-low video distortion
CAMERAS RESOLUTION (X2)	24-bit True Colour
OPERATING TEMPERATURE	800X600//640X480
HUMIDITY	0 - 45°
REMOTE MAINTENANCE AND UPGRADES	10 - 80%
MASTER SOFTWARE: MINIMUM HARDWARE	YES
SPECIFIC CUSTOMER ADAPTATIONS ON DEMAND	Windows Vista 7/8/10 Processor 32 bits (x86)
	YES
REGULATIONS	CE and FCC
CERTIFICATIONS	ISO 9001 Quality Management System
	ISO 14001 Environmental Management System

SOLDAMATIC SERVER

RAM Memory: DDR4 4GB	2133 MHz 4GB 1.2V
MOTHERBOARD: Asus H110M-D	LGA1151 socket for Intel®6th Generation Core™ i7/ i5/ i3/ Pentium® / Celeron® Processors
MICROPROCESSOR: Intel i3 7100	3900 GHz
POWER SUPPLY: RAIDER 550W	100-240Vac (Full Range) 50-60Hz
AF8 FAn:	DC 12V 1.44W 0.12A
HARD DISK: Seagate HDD 1 Tb	5/12V 2A
NETWORK CARD: TP-link TG-3468	PCI Express 32 bits 1 10/100/1000Mbps RJ45 port



REQUIREMENTS

- Windows 64 Bits
- 2.2GHz 3MB
- RAM: 4gb
- Display min: 1366x768
- Graphic card specifications:
 - 2GB VRAM DirectX 9 compatible graphics card.
 - NVidia GeForce 750 or better | GeForce 900 Mobile series or better.
 - AMD Radeon HD 6000 series or better | Radeon HD 7000 Mobile series or better.



Seabery is an international company pioneering the development of Augmented Reality (AR) for professional training.

We are leading the market of Augmented Reality training solutions thanks to our large worldwide network of partners within industry, institutions and education.

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