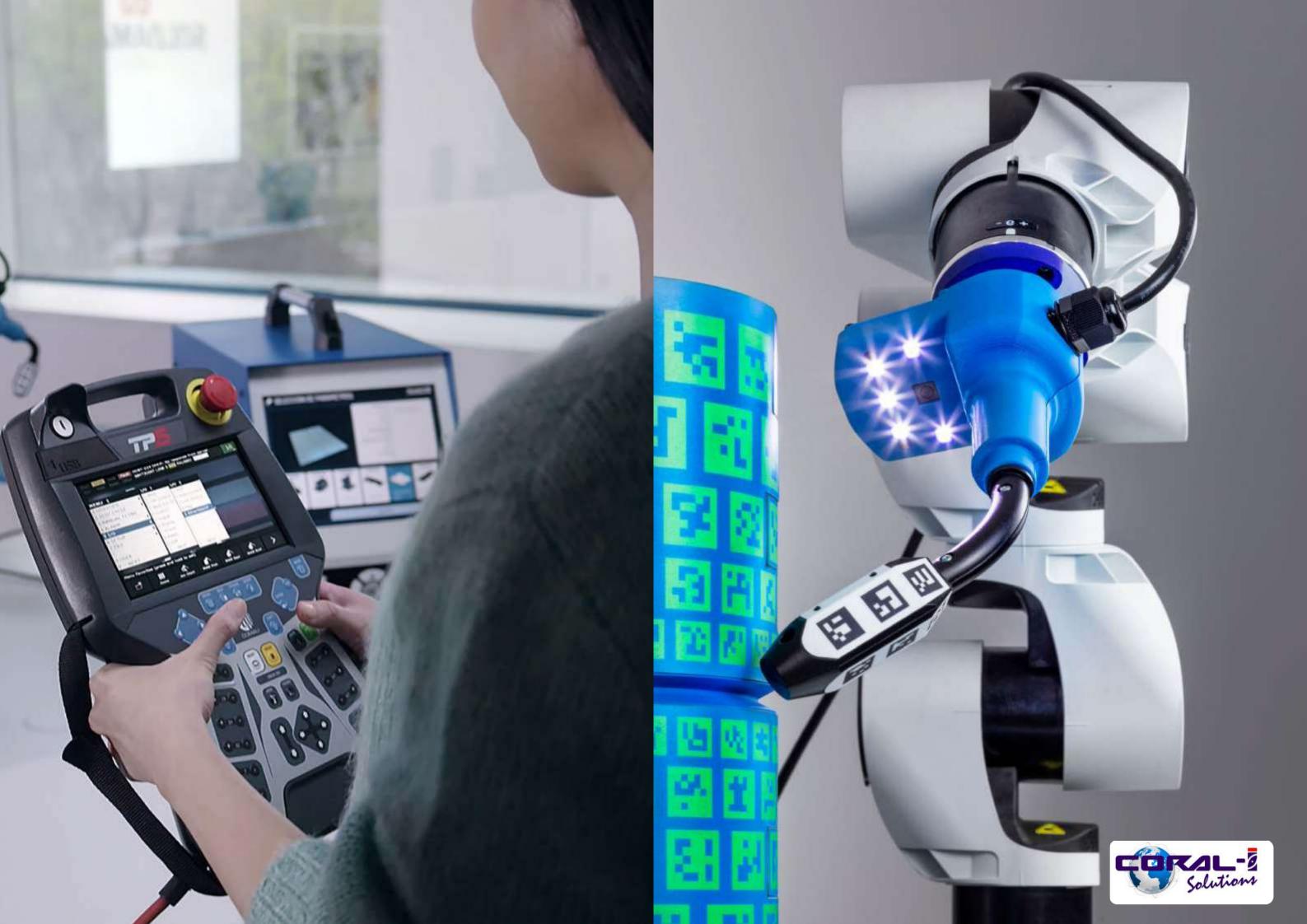


ROBOTICS WELDING TRAINING



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WEB: WWW.CORAL-I.COM



01.

Worldwide growing trends

► INDUSTRY 4.0 IS ACCELERATING AUTOMATION:

Automated tasks in factories are expected to grow from 5% to 8% by 2028. Collaboration between people and machines requires increased skills for operators.

GLOBAL SHORTAGE OF WELDERS:

Global demand for welders is increasing by 8% globally. Existing welders are retiring.

attract young people.

▶ ROBOTICS ARE THE BACKBONE OF AUTOMATION:

Since 2009, the number of **manufacturing robots** has more than doubled. Manufacturing Industrial Robots are expected to grow by **80% by 2026.**



ACCELERATION
OF ROBOTICS WILL UNLOCK
THE PRODUCTIVITY

ROBOTICS WELDING
TRAINING IS THE
OPPORTUNITY

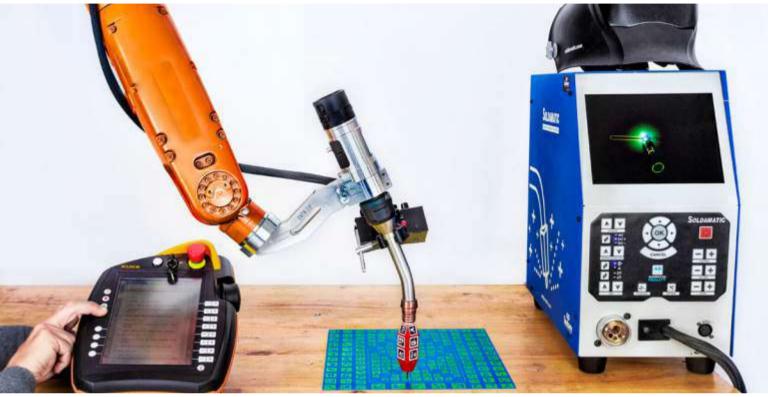


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TEST EQUIPMENT - SALES - RENTALS - TRAINING - REPAIR - CALIBRATION



Robotic Welding Training





First-of-its-kind working with Augmented Reality and real components such as the robot and the Teach
Pendant, and supported by a robotics welding curricula



FIRST OF ITS KIND WORKING WITH AUGMENTED REALITY



REAL COMPONENTS



SUPPORTED BY A ROBOTICS WELDING CURRICULA



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02.

Robotics Welding Training



INNOVATE

State-of-the-art AR technology.

HyperReal-SIM

The most realistic training experience aside from actual welding.





SCALABLE

ADAPTABLE TO ANY EDUCATIONAL INSTITUTION

WELDING JOINTS FOR DIFFERENT LEVELS **FLEXIBLE CURRICULUM**

REAL TIME INTERACTION

Shared visibility of practices between trainer & students.

COMPREHENSIVE

PROVEN CURRICULUM WITH HUNDREDS OF BUILT-IN **PRACTICES**

ON-PREMISE & REMOTE ACCESS

Transparent and consistent experience. Access anytime, from anywhere.

SOLDAMATIC COULD INTEGRATE WITH ANY ROBOT IN THE MARKET

On demand.



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03.

How it works

HARDWARE





SOLDAMATIC WELDING SIMULATOR

ROBOTICS WELDING TORCH OR VISION MODULE

EDUCATION WELDING JOINTS



WELDING JOINTS

Wide range of joints for robot welding.



How it works

GMAW (MIG/MAG) WELDING PROCESS

CARBON STEEL WELDING MATERIAL

3, 6 & 10 MM THICKNESSES

TRAIN THE TRAINER SUPPORT

TECHNICAL SUPPORT

SOLDAMATIC E-LEARNING (LMS)

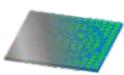
CONTENTS:

- Introduction to Robotics Welding
- Augmented Training Methodology course for welding teachers

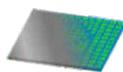
1 YEAR WARRANTY (EXTENDABLE)



AWM-001 Foundational ambidex



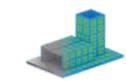
AWM-010 Robotic Foundational



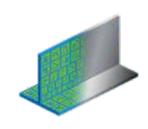
AWM-009 Robotic Foundational ?!House?!



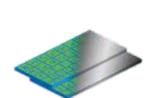
AWM-004 Automotive Chassis Assembly



AWM-015 Robotic Foundational Assembly



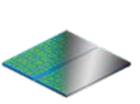
T-Angled plate to plate



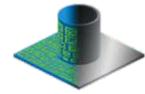
Overlapped Plate



V-Butt pipe



V-Butt Plate



T-Angled pipe to plate



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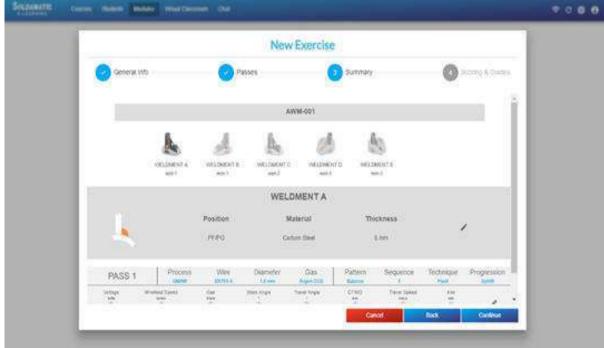
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Robotics Welding Curricula

INTRODUCTION TO ROBOTIC WELDING

It Includes 2 modules with tests and theorical (PDF and HTML5) aand practical contents with 15 practices

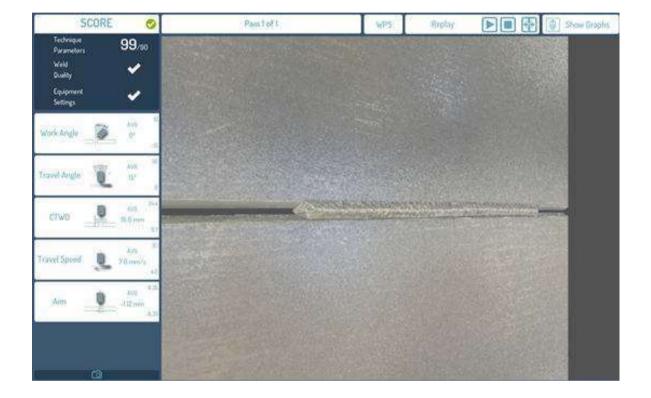






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VISION TECHNOLOGY	AUGMENTED REALITY				
WELDING PROCESSES SUPPORTED	MANUAL: GMAW (MIG/MAG) &FCAW G/S, SMAW (MMAElectrode), GTAW (TIG)				
	ROBOTICS: GMAW (MIG/MAG) &FCAW G/S				
WELDING POSITIONS	PA, PB, PC, PD, PF/PG, PE, PH/PJ, HL045/JL045 - 1F, 2F, 3F, 4F, 5F, 6F, 1G, 2G, 3G, 4G, 5G, 6G HL045 (6G) available in AWM-002, AWM-008, AWM-011, AWM-012 and AWM-016. 6GR available in AWM-011 (Pipeline 6GR)				
DEFAULT WELDING JOINTS INCLUDED					
ADDITIONAL WELDING JOINTS AVAILABLE	20 Additional Advanced Welding Multijoints available for manual and robot welding based on Foundational, Automotive, Railway, Shipbuilding and Oil&as industries				
	Manual: AWM001, AWM002, AWM003, AWM004, AWM005, AWM006, AWM007, AWM008, AWM011, AWM012, AWM013, AWM014, AWM020 available for AWS training content				
	Robotics: AWM001, AWM004, AWM009, AWM010, AWM015, AWM016, AWM017, AWM018, AWM019				
WELDING JOINTS FOR SPECIFIC INDUSTRIAL NEEDS	With Industrial Welding Services				
ON DEMAND TAILOR MADE COUPONS	Including the physical workpiece. Industrial Welding Services				
PIECE CAN BE MANIPULATED SEPARATELY	It can be manipulated at any time during the exercise to perform a visual inspection of the welding bead. The				
REAL WELDING TORCHES	MANUAL: YES, by Abicor Binzel				
REAL ADVANCED WELDING TORCHES	Handle ergonomics by Abicor Binzel				
HAPTICS	Advanced GMAW/FCAW torch includes vibration feature				
WELDING SOUNDS	Recorded in a real welding lab				
REAL WELDING MASK	YES				
VOLTAGE SELECTION					
	ROBOTICS: in job selection				
-	_				
SHIELDING GAS SELECTION	-				
WIRE SPEED SELECTION					
	during the exercise				
	ROBOTICS: in job selection				
PLUG WELDING	In AWM-005 (Automotive Thin Plates) and Industrial Services				
COUPON MATERIAL SELECTION	Carbon Steel, Stainless Steel, Aluminium				
GAS COMPOSITION	MATERIAL GMAW GTAW FCAW				
	Carbon Steel Argon - Co², CO² Helium* Argon - Co², CO²				
	Aluminium Argon Argon -				
	Stainless Steel Argon - O ² Argon -				
COUPON THICKNESS SELECTION	YES: 3mm, 6mm, 10mm 1mm, 2mm, 7mm, 8mm, 15mm, 16mm, 20mm, 25mm available with Advanced license				
	With Advanced license 				



	MATERIAL	GMAW	SIV	IAW	GTAW		
	Carbon		0.8mm, 1mm, 2.5mm, 1.2 mm 3.25mm, 4mm				
	Stainless Steel	1.2 mm			2mm, 2.4mm, 3.2 mm		
	Aluminium	1mm, 1.2mn	n	-		0.2 11111	
	MATERIAL	GMAW	SMAW	GTAV	TAW FCAW		
	Carbon Steel	ER70S-6	E7018, E6010, E6013	ER70S	ER70S-6 E		
	Stainless Steel	E316LSi	E316L	ER316	3L		
	Aluminium	ER5356	-	ER53	56		
POSSIBILITY TO TRY DIFFERENT SETTINGS DURING THE EXERCISE AND THEIR EFFECTS IN THE WELDING BEAD	YES						
MULTIPASS EXERCISE WITH DIFFERENT WELDING PROCESSES	YES						
WELDING TECHNIQUE	Push / Drag						
	Straight, Triangle, Convex, Circle, Zigzag						
WELDING DIRECTION	ROBOTICS: Right to left/ Left to right						
OPEN ROOT WELDING	In AWM-006, AWM-008, AWM-011, AWM-012, AWM-013 and AWM-015						
TRANSFER MODES	Short circuit, globular, spray, pulsed-arc (available for AWM welding joints)						
UNDO WELDING	It is possible to undo a pass or weldment repeating only a certain part of the exercise						
	They can be added/removed						
POSSIBILITY TO CONNECT THE UNIT TO A ROBOTIC ARM	Robotics license needed						
ANALYSIS MODULE	YES						
ADVANCED ANALYSIS MODULE	Included in Advanced licenses. Mechanical Resistance and Cross Section						
DEFECTS ANALYZED	AWM welding jo	ints)					





REPORT FEATURES	CTWD, Travel Speed, Work Angle, Travel Angle, Trajectory, Voltage, Wirefeed Speed, Technical Parameters, Equipment				
AUGMENTED TRAINING CONTENT	Developed by Seabery: Augmented Training Soldamatic Welding Course; Augmented Training Methodology; Introduction to Robot Welding; MAG position PF / PD / PH				
INTERNATIONAL PUBLISHERS CONTENT	AWS, CESOL, DVS, Ludo Breemans				
LMS APPLICATION	Soldamatic e-Learning for Teachers and Students				
LMS APPLICATION:TEACHER ACCESS	Easy web access and also desktop application				
LMS APPLICATION:STUDENTS ACCESS	Web access. Visualize contents, progress, take tests, live chat				
LMS APPLICATION:LIVE CHAT	Available for teachers and students				
LMS APPLICATION:SHAREVIEW	Teachers can see what the students see in real time in their laptop, either within the same classroom or online				
	Synchronous and asynchronous options				
	centers online, seeing in real time their progress and the welders? point of view while welding				
STUDENT PERSONALIZED PROFILE	Practices report and progression				
REPORTS	Exercises, courses, students and diploma reports. Also CSV format available for end-user custom reports				
CUSTOMIZED PRACTICES	Customized in Soldamatic E-Learning				
REAL ENVIRONMENT DURING SIMULATION	YES				
SUBSCRIPTION OPTIONS	Anual or Lifetime				
UPDATES					
	the license with no additional cost New system versions included in the anual license with no additional cost				
REMOTE MAINTENACE	YES				
SPECIFIC CUSTOMER ADAPTATIONS ON DEMAND	YES				
REGULATIONS	CE and FCC				
CERTIFICATIONS	ISO 9001 Quality Management System ISO 14001 Environmental Management System				
WARRANTY	1 year by default, up to 2 more years optional				
SOLDAMAT	C SIMULATOR				
-	442,5x239,5x457,5mm (17.42x94.29x18.72 in.)				
-	9.46 Kilograms (20.85 lbs.)				
	10.5 Kilograms (23.15 lbs.)				
ACCESORIES	ROBOTICS: Vision Module, Robotics educational torch and Robotics advanced torch OPTIONAL: GTAW (TIG) Pedal, Workstand, Augmented Lab				



POWER SUPPLY	100V-240V
PROCESSOR	Intel® Core? i5 10th gen
CHIPSET	Intel® Q470E
RAM	16 GB (2 x 8GB Dual-Channel) DDR4 2400Mhz
GRAPHIC CARD	NVIDIA Quadro T1000
HARD DISK	M.2 SSD 128GB
AUDIO	-
OPERATING SYSTEM	Seabery Operating System optimized for Soldamatic 2023
AUTOMATIC SHUTDOWN	-
DISPLAY SIZE	9.700
DISPLAY RESOLUTION	HD LCD 1024 x 768 XGA
BACK PANEL PORTS	Screen: HDMI/Display Ports USB: 4 x USB 3.2 Gen 1 Connection: 2x LAN 2x Antennas Intel® WiFi6 Dual Band Audio: microphone & Speakers ports Others: Robotics port
FRONT PANEL PORTS	1 X USB type A, 1 X USB type B
AR VISION MODULE RESOLUTION	MIPI LCD 4,7? HDMI Display input up to 1280x720 Ultra-low video distortion 24-bit True Colour
-	640×480 / 800×600 Autofocus
UNIT CAN BE USED WITH GLASSES	YES
OPERATING TEMPERATURE	0 - 45°
HUMIDITY	10 - 80%

SOLDAMATIC SERVER	
INSTALLATION TYPE	ON-PREMISE OR CLOUD
RAM MEMORY	8GB DDR4 3200MH
MOTHERBOARD	Asus H110M-E
MICROPROCESSOR	Intel Core i3-12100
POWER SUPPLY	Fuente 500w
HARD DISK 1	SSD 240GB SATA3
	1TB SATA3
NETWORK CARD	TP-Link TG-3468
_	
windows	MacOS
WINDOWS 10 64 BITS	OS Min: High Sierra 10.13



Processor: Intel I5 2.5GHz

RAM: 8GB

Processor: Intel I5 1.86GHz

Graphic card: Intel Iris Plus Graphics 640

RAM: 8GB