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.
Traditional Welding Training is inefficient and doesn’t 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.

02. Robotics Welding Training

ACCELERATION OF ROBOTICS WILL UNLOCK THE PRODUCTIVITY

ROBOTICS WELDING TRAINING IS THE OPPORTUNITY

THE MOST REALISTIC, COMPREHENSIVE, FLEXIBLE AND PROGRAMMABLE ROBOTICS WELDING TRAINING SOLUTION

FIRST OF ITS KIND WORKING WITH AUGMENTED REALITY

REAL COMPONENTS

SUPPORTED BY A ROBOTICS WELDING CURRICULA
02.
Robotics Welding Training

**INNOVATE**
State-of-the-art AR technology provides efficient and effective training with unlimited practice.

**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.

**FULLY COMPLETE SOLUTION**
Educational & industrial programming with Comau e.Do.
03. How it works

HARDWARE

GMAW (MIG/MAG) WELDING PROCESS
CARBON STEEL WELDING MATERIAL
3, 6 & 10 MM THICKNESSES
SOLDAMATIC E-LEARNING (LMS)

CONTENTS:
• Introduction to Robotics Welding
• Augmented Training Methodology course for welding teachers

SMART ARC APPLICATION
THE LATEST VERSION OF e.Do INTEGRATED SW AND HMI APPLICATION

CONTENTS:
• Educational training path for introduction to Robotics welding
• 2 licences of “Use and Programming”

TRAIN THE TRAINER SUPPORT
TECHNICAL SUPPORT
1 YEAR WARRANTY (EXTENDABLE)

SOLDAMATIC IE SIMULATOR
ROBOTICS WELDING TORCH
EDUCATION WELDING JOINTS

COMAU e.Do
TEACH PENDANT
DESK SIMULATOR
03. How it works

EDUCATIONAL TRAINING PATH FOR INTRODUCTION TO ROBOTICS WELDING

- **Manual Welding and Robotics Welding**
  This section includes an introduction to the welding environment with a comparison between Manual and Robotics welding, highlighting the main benefits and applications of using robots in welding tasks.

- **Arc Welding applied to Robotics**
  This section focuses on Arc welding technologies and how they are applied to Robotics.

- **Robotics SetUp + Robotics Welding**
  This section includes a guide procedure for hardware setup and test, a practical session where the ability to use a Robotic Arm and welding techniques are combined to solve several exercises with e.Do+ Soldamatic.

- **Online Certification**