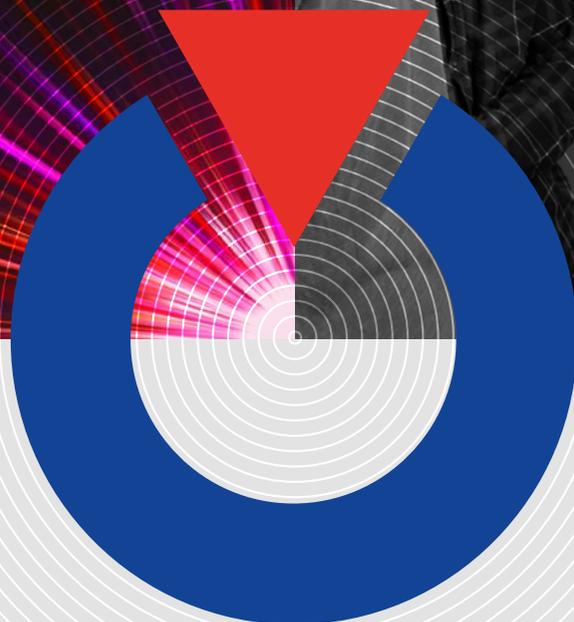


# 2026 TRAINING CATALOGUE

Operation and maintenance  
of our installations



# TOGETHER, SHAPING THE TECHNICAL AND OPERATIONAL EXCELLENCE OF TOMORROW

While recent years have marked a turning point in the evolution of industrial technologies and practices, 2025 represents for Polysoude a year of reinforced commitment to innovation, knowledge transfer, and customer support.

Our training catalogue reflects this momentum by offering an expanded programme tailored to the specific needs of companies and their employees. These training courses, dedicated to the operation and maintenance of our welding installations, have been designed to meet the growing demands for technical and operational skills.

Through this programme, we aim to:

> **Ensure** the development of your teams' skills through training paths combining theory and practice, closely aligned with real-world operational requirements;

> **Offer** tailor-made solutions that precisely address your specific needs in welding and maintenance;

> **Integrate** new learning technologies, such as remote and on-site training supported by effective and user-friendly teaching tools, for a more flexible and efficient learning experience;

> **Support** your training projects by facilitating access to funding through our partnerships with the relevant organisations.

Our training courses are delivered by passionate experts, within a certified environment that meets the highest standards. We are also proud to announce that our training centre complies with the requirements of the Qualiopi certification, ensuring the quality and reliability of our services.

As a key player in the field of industrial welding, Polysoude is committed to being a trusted and innovative partner for its customers. This catalogue is much more than a simple document: it is an invitation to collaborate and build the future of technical and operational excellence together.

All our teams are fully mobilised to support you and meet your expectations. Now more than ever, your success is our top priority at Polysoude.



**Pascal Weber**  
*Polysoude Group  
Managing Director*



## Welcome to Polysoude

Polysoude is a **global leader in orbital and automated welding.**

The company designs innovative TIG and Plasma solutions, used in demanding industries such as energy, aerospace, and nuclear. With over 50 years of expertise and an international presence, Polysoude embodies **French excellence** in welding engineering.



## Applications across all sectors

CLEAN ROOM



SEMICONDUCTORS



NUCLEAR



AEROSPACE



FOOD PROCESSING



# 1961

year of establishment  
in Nantes

# +60 years

of expertise in orbital  
and automated welding

# 360

employees worldwide,  
including 220 in France

# +50

countries served through  
an international network



## Training centre

### **A centre dedicated to skills development**

The Polysoude training centre supports customers worldwide in developing skills related to the operation and maintenance of our orbital and automated welding equipment. Our mission: ensure every customer achieves optimal equipment handling and long-term autonomy, regardless of the sector of activity or initial skill level.

### **A flexible, comprehensive, and international solution**

Our training programmes cover both operation and maintenance, for all skill levels: from operators to experts. We deliver training worldwide, either on-site (at our centre or customer location) or remotely, adapting to all logistical constraints. Programmes can be standard or fully customised, built around the specific needs of each company for maximum effectiveness.

### **Expert trainers with instructional skills**

The training courses are led by experienced professionals from the welding and industrial maintenance fields, trained in participatory teaching methods. They focus on hands-on learning, exchange, and active participation to ensure lasting skills acquisition and genuine ability to perform in real-world situations.

### **Recognised quality commitment: Qualiopi certification**

Polysoude is Qualiopi-certified for its training activities, guaranteeing the quality of our educational processes. This certification reflects our commitment to customer satisfaction and continuous improvement: regular content updates, systematic feedback integration, and structured processes to enrich the learning experience.

### **Our educational vision**

At Polysoude, our training method focuses on operational efficiency and learner autonomy. Our approach relies on:

- > A strong connection to real-world professional practice, with concrete, field-based situations.
- > Active learning, including experimentation, simulations, collaborative work, and experience sharing.
- > Adaptability, to provide personalised learning for each audience and context.
- > Continuous improvement, with systematic evaluation of objectives and integration of feedback to ensure quality.



 RÉPUBLIQUE FRANÇAISE

The quality certification has been awarded for the following category of activity:

**TRAINING ACTIVITIES**





## Administrative procedures



### TRAINING LOCATION

**All courses are held on your site or at Polysoude**  
2, rue Paul Beaupère  
44300 Nantes  
France



### REMOTE TRAINING

Contact us to discuss your remote training needs.



### SCHEDULE

**Monday to Friday**  
**8:00 AM to 5:00 PM**



### DATES

**Customised**  
Polysoude works with you to schedule courses according to your needs.



### CLASS SIZE

#### **3 or 4 participants**

The maximum number of participants per training session ranges from 3 (maintenance) to 4 (operation) to optimise the effectiveness and quality of our courses.



### LANGUAGES

**Our courses are delivered in French and English.** For any request in another language, please contact us so we can work together to identify the most suitable solution.



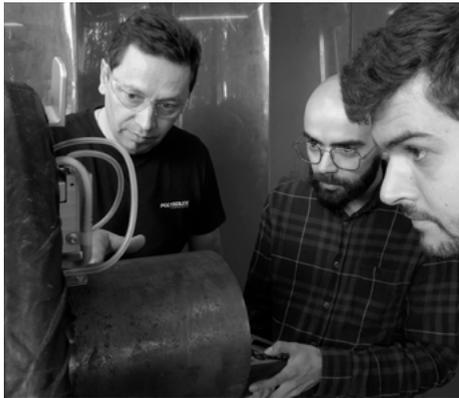
### ACCESSIBILITY

Contact us to arrange accommodations for participants with special needs.





# Instructional methods



## Teaching methods

Trainers alternate between theory and hands-on workshops on Polysoude equipment. They promote learning through individual or paired exercises, followed by group presentations and reflective analyses, to support both individual and collective skill development within the group.

## Technical resources

Specialised digital teaching tools, dedicated training materials, and hands-on training on the equipment, these are innovative and cutting-edge methods used by our trainers to accelerate skill development and enable learners to gain practical experience as close to real operational conditions as possible.

## Human resources

Training delivered by Polysoude Technicians and Engineers. Our trainers are experts in their fields and are trained both as instructors and in adult learning techniques.



## Training duration

The duration of training sessions varies widely, depending on the equipment involved, the chosen topic (maintenance or operation of Polysoude equipment), and whether it is a standard catalogue course or a customised training programme.

## Evaluation

Evaluations, in the form of presentations during practical workshops or quizzes at the end of the sessions, are organised by the trainers to ensure overall learner comprehension and to reinforce the retention of real-world situations and knowledge covered during the training.





# Overview of training programmes and target profiles

To meet the diverse needs and skill levels of your teams, Polysoude offers training paths structured around three main themes, each adapted to the appropriate level for the learners' profiles.

**01**  
EQUIPMENT  
**Power sources**

TRAINING

Operation		Maintenance	
Operator	Expert	Operator	Expert

**02**  
EQUIPMENT  
**Welding heads**

TRAINING

Operation	Maintenance
Expert	

**03**  
SPECIFIC EQUIPMENT  
**Specific training courses**

TRAINING

Operation	Maintenance
Expert	Expert

## Learner profiles and learning objectives

		Operators, technicians or any person required to operate an automated or orbital welding installation
		Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results.

		Novice welding operator or maintenance technician
		Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



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01

TRAINING  
IN OPERATION  
OR MAINTENANCE



**WELDING  
POWER SOURCES**

## WELDING POWER SOURCES CONCERNED BY THE TRAINING COURSES



	P3 UHP	P4	P6 (P6CW / P6HW)	PC-2
Process	TIG	TIG TIG CW	TIG TIG CW TIG HW	TIG TIG CW TIG HW Plasma
	Compact and ultra-light, 3-axis power source	4-axis welding power source	Advanced cold or hot wire 6-axis welding power sources	Unique - High-capacity, versatile, multi-axis, multi-process power source
Motion controls:				
Torch rotation	●	●	●	●
Wire feeding		●	●	●
AVC			●	●
OSC			●	●
Multi-axis				●
Input power	1 phase 115/230 V	1 phase 115/230 V	3 phase 400/480 V optional	3 phase 400/480 V optional



P3

## Welding power source

TRAINING  
**Operation**  
LEVEL  
**Operator**



### DURATION

**7 to 14 hours\***

\*depending on the welding head



### OBJECTIVE

- ▶ **Identifying** the characteristics of the power source and the welding head
- ▶ **Operating** the welding installation on the basis of Welding Procedure Specifications (WPS) from the library or an existing programme



### TARGET AUDIENCE

Operators, technicians, or any person required to operate an automated or orbital welding installation



### PRECONDITIONS

Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

### CONTENT

#### Introduction

##### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

##### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

##### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

#### Understanding the operation of axes (controls)

##### Navigation skills

- > Navigating through the menus
- > Distinguishing the various icons

##### Using a programme

- > Searching for / Duplicating a Welding Procedure Specification (WPS)

##### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)

- > Understanding the remote control
- > Starting the welding process

##### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

##### Processing results

- > Recording the deltas
- > Printing reports

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P3

## Welding power source

TRAINING  
**Operation**  
LEVEL  
**Expert**



### DURATION

**14 to 28 hours\***

\*depending on the welding head



### OBJECTIVE

- ▶ **Mastering** power source programming
- ▶ **Operating** the welding installation
- ▶ **Developing** parameters for specific applications
- ▶ **Analysing and correcting** a welding cycle in progress
- ▶ **Processing** results



### TARGET AUDIENCE

Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results



### PRECONDITIONS

- ▶ Significant welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

### CONTENT

#### Introduction

#### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

#### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

#### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

#### Understanding the operation of axes (controls)

#### Mastering navigation

- > Navigating through the menus
- > Distinguishing the various icons

#### Mastering programming

- > Setting up the power source
- > Searching / Duplicating / Creating / Exporting / Importing a Welding Procedure Specification (WPS)
- > Selecting axes (controls)

- > Completing the documentation
- > Setting programme parameters
- > Managing the programmes

#### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

#### Developing welding parameters on new and/or specific applications

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

#### Processing results

- > Recording the deltas
- > Printing reports
- > Analysing the weld bead
- > Modifying the programme
- > Analysing data from the data acquisition unit (if option selected)

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P3

## Welding power source

TRAINING  
**Maintenance**  
LEVEL  
**Operator**



**DURATION**  
4 hours



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Diagnosing** a simple failure
- ▶ **Identifying** the significant symptoms
- ▶ **Performing** basic troubleshooting with support via Polysoude remote assistance
- ▶ **Performing** level 1 maintenance
  
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Novice welding operator or maintenance technician



**PRECONDITIONS**

Basic knowledge of electrical engineering and electronics

**CONTENT**

### **Introduction**

#### **Overview of the power source**

- > Various power sources in the range
- > Options
- > Remote control
- > Serial number

### **CONNECTORS**

#### **Layout, description and technology**

#### **Connections**

- > Connecting the mains power supply
- > Connecting the welding head

#### **Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

#### **Documentation**

- > Manuals and parts lists
- > Equipment return form

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**DURATION**  
**7 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Performing** level 1 and level 2 maintenance
- ▶ **Being autonomous** in power source maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Basic knowledge of electrical engineering and electronics
- ▶ Maintenance experience

**CONTENT**

**Introduction**

**Overview of the power source**

- > The different power sources in the range and their options
- > Remote control
- > Serial number

**CONNECTORS**

**Layout, description and technology**

**Connections**

- > Connecting the mains power supply
- > Connecting the welding head

**Introduction to the operation of the Graphical User Interface (GUI)**

**Operation of welding current control**

- > Current control
- > Principle and operation of power sources
- > High Frequency (HF)
- > Welding set voltage

**Operation of the rotation and wire functions**

- > Control principle
- > Different motors and encoders
- > Rotation and wire axis card

**Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

**Maintenance methodology**

- > Preventive maintenance
- > Corrective maintenance

**Documentation**

- > Manuals
- > Equipment return form

P4

## Welding power source

TRAINING  
**Operation**  
LEVEL  
**Operator**



### DURATION

**7 to 14 hours\***

\*depending on the welding head



### OBJECTIVE

- ▶ **Identifying** the characteristics of the power source and the welding head
- ▶ **Operating the welding installation on the basis of Welding Procedure Specifications (WPS) from the library or an existing programme**



### TARGET AUDIENCE

Operators, technicians, or any person required to operate an automated or orbital welding installation



### PRECONDITIONS

Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

### CONTENT

#### Introduction

##### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

##### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

##### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

#### Understanding the operation of axes (controls)

##### Navigation skills

- > Navigating through the menus
- > Distinguishing the various icons

##### Using a programme

- > Searching for / Duplicating a Welding Procedure Specification (WPS)

#### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

#### Processing results

- > Recording the deltas
- > Printing reports

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**DURATION****14 to 28 hours\***

\*depending on the welding head

**OBJECTIVE**

- ▶ **Mastering** power source programming
- ▶ **Operating** the welding installation
- ▶ **Developing** parameters for specific applications
- ▶ **Analysing and correcting** a welding cycle in progress
- ▶ **Processing** results

**TARGET AUDIENCE**

Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results

**PRECONDITIONS**

- ▶ Significant welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT****Introduction****General welding knowledge**

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

**Knowledge of the power source**

- > Technical characteristics
- > Introduction to the concept of axes (controls)

**Knowledge of the welding head**

- > Technical characteristics
- > Power supply and connections

**Understanding the operation of axes (controls)****Mastering navigation**

- > Navigating through the menus
- > Distinguishing the various icons

**Mastering programming**

- > Setting up the power source
- > Searching / Duplicating / Creating / Exporting / Importing a Welding Procedure Specification (WPS)
- > Selecting axes (controls)

- > Completing the documentation
- > Setting programme parameters
- > Managing the programmes

**Operating the welding installation**

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

**Developing welding parameters on new and/or specific applications****Analysing and correcting a cycle during welding**

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

**Processing results**

- > Recording the deltas
- > Printing reports
- > Analysing the weld bead
- > Modifying the programme
- > Analysing data from the data acquisition unit (if option selected)

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**DURATION**  
 4 hours



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Diagnosing** a simple failure
- ▶ **Identifying** the significant symptoms
- ▶ **Performing** basic troubleshooting with support via Polysoude remote assistance
- ▶ **Performing** level 1 maintenance
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Novice welding operator or maintenance technician



**PRECONDITIONS**

Basic knowledge of electrical engineering and electronics

**CONTENT**

**Introduction**

**Overview of the power source**

- > Various power sources in the range
- > Options
- > Remote control
- > Serial number

**CONNECTORS**

**Layout, description and technology**

**Connections**

- > Connecting the mains power supply
- > Connecting the welding head

**Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

**Documentation**

- > Manuals and parts lists
- > Equipment return form

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**DURATION**  
**11 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Performing** level 1 and level 2 maintenance
- ▶ **Being autonomous** in power source maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Basic knowledge of electrical engineering and electronics
- ▶ Maintenance experience

**CONTENT**

### Introduction

#### Overview of the power source

- > The different power sources in the range and their options
- > Remote control
- > Serial number

### CONNECTORS

#### Layout, description and technology

#### Connections

- > Connecting the mains power supply
- > Connecting the welding head

### Introduction to the operation of the Graphical User Interface (GUI)

#### Operation of welding current control

- > Current control
- > Principle and operation of power sources
- > High Frequency (HF)
- > Welding set voltage

### Operation of the rotation and wire functions

- > Control principle
- > Different motors and encoders
- > Rotation and wire axis card

### Flash drive and software

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

### Maintenance methodology

- > Preventive maintenance
- > Corrective maintenance

### Documentation

- > Manuals
- > Equipment return form

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**DURATION**  
**14 to 28 hours\***  
\*depending on the welding head



**OBJECTIVE**

- ▶ **Identifying** the characteristics of the power source and the welding head
- ▶ **Operating the welding installation** on the basis of Welding Procedure Specifications (WPS) from the library or an existing programme



**TARGET AUDIENCE**  
Operators, technicians or any person required to operate an automated or orbital welding installation



**PRECONDITIONS**  
Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**  
**Introduction**

**General welding knowledge**

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

**Knowledge of the power source**

- > Technical characteristics
- > Introduction to the concept of axes (controls)

**Knowledge of the welding head**

- > Technical characteristics
- > Power supply and connections

**Understanding the operation of axes (controls)**

**Navigation skills**

- > Navigating through the menus
- > Distinguishing the various icons

**Using a programme**

- > Searching for / Duplicating a Welding Procedure Specification (WPS)

**Operating the welding installation**

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

**Analysing and correcting a cycle during welding**

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

**Processing results**

- > Recording the deltas
- > Printing reports

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**DURATION**  
**28 to 32 hours\***  
\*depending on the welding head



- OBJECTIVE**
- ▶ **Mastering** power source programming
  - ▶ **Operating** the welding installation
  - ▶ **Developing** parameters for specific applications
  - ▶ **Analysing and correcting** a welding cycle in progress
  - ▶ **Processing** results



**TARGET AUDIENCE**  
Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results



- PRECONDITIONS**
- ▶ Significant welding experience
  - ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**  
**Introduction**

**General welding knowledge**

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

**Knowledge of the power source**

- > Technical characteristics
- > Introduction to the concept of axes (controls)

**Knowledge of the welding head**

- > Technical characteristics
- > Power supply and connections

**Understanding the operation of axes (controls)**

**Mastering navigation**

- > Navigating through the menus
- > Distinguishing the various icons

**Mastering programming**

- > Setting up the power source
- > Searching / Duplicating / Creating / Exporting / Importing a Welding Procedure Specification (WPS)
- > Selecting axes (controls)

- > Completing the documentation
- > Setting programme parameters
- > Managing the programmes

**Operating the welding installation**

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

**Developing welding parameters on new and/or specific applications**

**Analysing and correcting a cycle during welding**

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

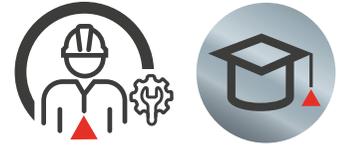
**Processing results**

- > Recording the deltas
- > Printing reports
- > Analysing the weld bead
- > Modifying the programme
- > Analysing data from the data acquisition unit (if option selected)

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**DURATION**  
 4 hours



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Diagnosing** a simple failure
- ▶ **Identifying** the significant symptoms
- ▶ **Performing** basic troubleshooting with support via Polysoude remote assistance
- ▶ **Performing** level 1 maintenance
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Novice welding operator or maintenance technician



**PRECONDITIONS**

Basic knowledge of electrical engineering and electronics

**CONTENT**

**Introduction**

**Overview of the power source**

- > Various power sources in the range
- > Options
- > Remote control
- > Serial number

**CONNECTORS**

**Layout, description and technology**

**Connections**

- > Connecting the mains power supply
- > Connecting the welding head

**Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

**Documentation**

- > Manuals and parts lists
- > Equipment return form

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**DURATION**  
 14 HOURS



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Performing** level 1 and level 2 maintenance
- ▶ **Being autonomous** in power source maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Basic knowledge of electrical engineering and electronics
- ▶ Maintenance experience

**CONTENT**

**Introduction**

**Overview of the power source**

- > The different power sources in the range and their options
- > Remote control
- > Serial number

**CONNECTORS**

**Layout, description and technology**

**Connections**

- > Connecting the mains power supply
- > Connecting the welding head

**Introduction to the operation of the Graphical User Interface (GUI)**

**Operation of welding current control**

- > Current control
- > Principle and operation of power sources
- > High Frequency (HF)
- > Welding set voltage

**Operation of the rotation and wire functions**

- > Control principle
- > Different motors and encoders
- > Rotation and wire axis card

**Operation of arc voltage control and oscillation**

- > Unipolar and bipolar stepper motors
- > Oscillation slide
- > Arc voltage control principle
- > Workpiece touchdown control
- > AVC and Oscillation axis cards

**Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

**Maintenance methodology**

- > Preventive maintenance
- > Corrective maintenance

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
28 hours



**OBJECTIVE**

- ▶ **Identifying** the characteristics of the power source and the welding head
- ▶ **Operating** the welding installation on the basis of Welding Procedure Specifications (WPS) from the library or an existing programme



**TARGET AUDIENCE**

Operators, technicians or any person required to operate an automated or orbital welding installation



**PRECONDITIONS**

Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

### Introduction

#### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

#### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

#### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

### Understanding the operation of axes (controls)

#### Navigation skills

- > Navigating through the menus
- > Distinguishing the various icons

#### Using a programme

- > Searching for / Duplicating a Welding Procedure Specification (WPS)

#### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

#### Processing results

- > Recording the deltas
- > Printing reports

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**DURATION**  
**32 hours**



**OBJECTIVE**

- ▶ **Mastering** power source programming.
- ▶ **Operating** the welding installation
- ▶ **Developing** parameters for specific applications
- ▶ **Analysing and correcting** a welding cycle in progress
- ▶ **Processing** results



**TARGET AUDIENCE**

Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results



**PRECONDITIONS**

- ▶ Significant welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

### Introduction

#### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

#### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

#### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

### Understanding the operation of axes (controls)

#### Mastering navigation

- > Navigating through the menus
- > Distinguishing the various icons

#### Mastering programming

- > Setting up the power source
- > Searching / Duplicating / Creating / Exporting / Importing a Welding Procedure Specification (WPS)
- > Selecting axes (controls)

- > Completing the documentation
- > Setting programme parameters
- > Managing the programmes

#### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

### Developing welding parameters on new and/or specific applications

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation
- > Studying and operating on hot wire parameters

#### Processing results

- > Recording the deltas
- > Printing reports
- > Analysing the weld bead
- > Modifying the programme
- > Analysing data from the data acquisition unit (if option selected)

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**DURATION**  
 4 hours



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Diagnosing** a simple failure
- ▶ **Identifying** the significant symptoms
- ▶ **Performing** basic troubleshooting with support via Polysoude remote assistance
- ▶ **Performing** level 1 maintenance
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Novice welding operator or maintenance technician



**PRECONDITIONS**

Basic knowledge of electrical engineering and electronics

**CONTENT**

**Introduction**

**Overview of the power source**

- > Various power sources in the range
- > Options
- > Remote control
- > Serial number

**CONNECTORS**

**Layout, description and technology**

**Connections**

- > Connecting the mains power supply
- > Connecting the welding head

**Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

**Documentation**

- > Manuals and parts lists
- > Equipment return form

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**DURATION**  
 14 HOURS



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Performing** level 1 and level 2 maintenance
- ▶ **Being autonomous** in power source maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Basic knowledge of electrical engineering and electronics
- ▶ Maintenance experience

**CONTENT**

**Introduction**

**Overview of the power source**

- > The different power sources in the range and their options
- > Remote control
- > Serial number

**CONNECTORS**

**Layout, description and technology**

**Connections**

- > Connecting the mains power supply
- > Connecting the welding head

**Introduction to the operation of the Graphical User Interface (GUI)**

**Operation of welding current control**

- > Current control
- > Principle and operation of power sources
- > High Frequency (HF)
- > Welding set voltage

**Operation of the rotation and wire functions**

- > Control principle
- > Different motors and encoders
- > Rotation and wire axis card

**Operation of arc voltage control and oscillation**

- > Unipolar and bipolar stepper motors
- > Oscillation slide
- > Arc voltage control principle
- > Workpiece touchdown control
- > AVC and Oscillation axis cards

**Hot wire operation**

- > Current source
- > Safety features

**Flash drive and software**

- > Versions
- > Installing and removing the flash drive
- > Reading and writing data on the USB flash drive
- > Disabling safety features on the Graphical User Interface (GUI) and precautions
- > Operation and location of one-wire chips

**Maintenance methodology**

- > Preventive maintenance
- > Corrective maintenance

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
28 hours



**OBJECTIVE**

- ▶ **Identifying** the characteristics of the power source and the welding head
- ▶ **Operating** the welding installation on the basis of Welding Procedure Specifications (WPS) from the library or an existing programme



**TARGET AUDIENCE**

Operators, technicians or any person required to operate an automated, orbital or cladding welding installation



**PRECONDITIONS**

Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

### Introduction

#### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

#### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

#### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

### Understanding the operation of axes (controls)

#### Navigation skills

- > Navigating through the menus
- > Distinguishing the various icons

#### Using a programme

- > Searching for / Opening a welding programme

#### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

#### Processing results

- > Recording the deltas
- > Printing reports

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**DURATION**  
32 hours



**OBJECTIVE**

- ▶ **Mastering** power source programming.
- ▶ **Operating** the welding installation
- ▶ **Developing** parameters for specific applications
- ▶ **Analysing and correcting** a welding cycle in progress
- ▶ **Processing** results



**TARGET AUDIENCE**

Technicians or any person required to operate an automated, orbital or cladding welding installation and to ensure the quality of the welding results



**PRECONDITIONS**

- ▶ Significant welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

**Introduction**

**General welding knowledge**

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

**Knowledge of the power source**

- > Technical characteristics
- > Introduction to the concept of axes (controls)

**Knowledge of the welding head**

- > Technical characteristics
- > Power supply and connections

**Understanding the operation of axes (controls)**

**Mastering navigation**

- > Navigating through the menus
- > Distinguishing the various icons

**Mastering programming**

- > Configuring the machine fleet
- > Selecting axes (controls)
- > Creating/copying an application/programme
- > Completing the documentation
- > Changing programme parameters and deltas
- > Managing the programmes

**Operating the welding installation**

- > Preparing the installation
- > Power supply and connections (USB/RS32)
- > Selecting the appropriate programme
- > Understanding and interpreting the remote control
- > Starting the welding process
- > Identifying the axes (controls) on the front of the power source

**Developing welding parameters on new and/or specific applications**

**Analysing and correcting a cycle during welding**

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation
- > Studying and operating on hot wire parameters (if hot wire option selected)

**Processing results**

- > Recording the deltas
- > Printing reports
- > Analysing the weld bead
- > Modifying the programme
- > Analysing data from the data acquisition unit (if option selected)

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**DURATION**  
**7 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Diagnosing** a simple failure
- ▶ **Identifying** the significant symptoms
- ▶ **Performing** basic troubleshooting with support via Polysoude remote assistance
- ▶ **Performing** level 1 maintenance
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Novice welding operator or maintenance technician



**PRECONDITIONS**

Basic knowledge of electrical engineering and electronics

**CONTENT**

**Introduction**

**Overview of the power source**

- > Overview of the PC range
- > Identification of power source components
- > Power source supply
- > Precautions

**Description of the subassemblies**

**Axes (controls) overview and introduction to POWin programming software**

**Operation of the sequencer axis**

**Operation of the rotation and wire functions**

**Operation of arc voltage control and oscillation**

**Maintenance methodology**

- > Preventive maintenance

**Documentation**

- > Manuals and parts lists
- > Equipment return form

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**DURATION**  
**17 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of the welding power source
- ▶ **Performing** level 1 and level 2 maintenance
- ▶ **Being autonomous** in power source maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Basic knowledge of electrical engineering and electronics
- ▶ Maintenance experience

**CONTENT**

**Introduction**

**Overview of the power source**

- > Overview of the PC range
- > Identification of power source components
- > Power source supply
- > Precautions

**DESCRIPTION OF THE SUBASSEMBLIES**  
**Axes (controls) overview and introduction to POWin programming software**

**Operation of the sequencer axis**

- > Principle and operation

**Operation of welding current control**

- > Current control
- > Principle and operation of power sources
- > High Frequency (HF)
- > Welding set voltage

**Operation of the rotation and wire functions**

- > Control principle
- > Different motors and encoders
- > Rotation and wire axis card

**Operation of arc voltage control and oscillation**

- > Unipolar and bipolar stepper motors
- > Oscillation slide
- > Arc voltage control principle
- > Workpiece touchdown control
- > AVC and Oscillation axis cards

**Hot wire operation (if option selected)**

- > Current source
- > Safety features

**Maintenance methodology**

- > Preventive maintenance
- > Corrective maintenance

**Documentation**

- > Manuals
- > Equipment return form

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# PC AC-DC external source Tetrix

## Welding power source

TRAINING  
**Operation**  
LEVEL  
**Operator**



**DURATION**  
28 hours



**OBJECTIVE**

- ▶ **Identifying** the characteristics of the power source and the welding head
- ▶ **Operating** the welding installation on the basis of Welding Procedure Specifications (WPS) from the library or an existing programme



**TARGET AUDIENCE**

Operators, technicians or any person required to operate an automated, orbital or cladding welding installation



**PRECONDITIONS**

Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

### Introduction

#### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

#### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

#### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

### Understanding the operation of axes (controls)

#### Navigation skills

- > Navigating through the menus
- > Distinguishing the various icons

#### Using a programme

- > Searching for / Opening a welding programme

#### Operating the welding installation

- > Preparing and connecting the installation
- > Graphical User Interface (GUI)
- > Understanding the remote control
- > Starting the welding process

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool
- > Inspecting and working on the installation

#### Processing results

- > Recording the deltas
- > Printing reports

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# PC AC-DC external source Tetrix

## Welding power source

TRAINING  
**Operation**  
LEVEL  
**Expert**



**DURATION**  
32 hours



### OBJECTIVE

- ▶ **Mastering** power source programming
- ▶ **Operating** the welding installation
- ▶ **Developing** parameters for specific applications
- ▶ **Analysing and correcting** a welding cycle in progress
- ▶ **Processing** results



### TARGET AUDIENCE

Technicians or any person required to operate an automated, orbital or cladding welding installation and to ensure the quality of the welding results



### PRECONDITIONS

- ▶ Significant welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

### CONTENT

#### Introduction

##### General welding knowledge

- > TIG welding theory
- > Welding positions
- > Joint preparations and bevel types
- > Welding defects

##### Knowledge of the power source

- > Technical characteristics
- > Introduction to the concept of axes (controls)

##### Knowledge of the welding head

- > Technical characteristics
- > Power supply and connections

#### Understanding the operation of axes (controls)

##### Mastering navigation

- > Navigating through the menus
- > Distinguishing the various icons

##### Mastering programming

- > Configuring the machine fleet
- > Selecting axes (controls)
- > Creating/copying an application/programme
- > Completing the documentation
- > Changing programme parameters and deltas
- > Managing the programmes

#### Operating the welding installation

- > Preparing the installation
- > Power supply and connections (USB/RS32)
- > Selecting the appropriate programme
- > Understanding and interpreting the remote control
- > Starting the welding process
- > Identifying the axes (controls) on the front of the power source

#### Developing welding parameters on new and/or specific applications

#### Analysing and correcting a cycle during welding

- > Observing and adjusting the weld pool (JOB concept)
- > Inspecting and working on the installation
- > Studying and operating on hot wire parameters (if hot wire option selected)

#### Processing results

- > Recording the deltas
- > Printing reports
- > Analysing the weld bead
- > Modifying the programme
- > Analysing data from the data acquisition unit (if option selected)

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# 02

TRAINING IN OPERATION  
OR MAINTENANCE



**WELDING  
HEADS**

## WELDING HEADS CONCERNED BY THE TRAINING COURSES

				
	<b>Closed Welding Heads</b>	<b>Open Welding Heads</b>	<b>Carriage type welding heads</b>	<b>Tube/plate welding heads</b>
	<b>UHP - MW</b>	<b>MU IV</b>	<b>POLYCAR</b>	<b>TS</b>
Process		  	 	 
	Precision welding for high-purity industries	With or without filler wire, AVC and OSC	The most versatile torch holder carriage	The result of 60 years of continuous improvement
Diameter range <sup>(*)</sup> :	1.6 mm to 168.3 mm	8 mm to 275 mm	From 32 mm	8 mm to 75 mm
Equipped with:				
Wire feeder	-	With or without <sup>(*)</sup>	●	With or without <sup>(*)</sup>
AVC	-	With or without <sup>(*)</sup>	●	●
OSC	-	With or without <sup>(*)</sup>	●	-

*(\*) depending on the welding head model*



**DURATION**  
**4 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Overview of the welding head**

**Identification of welding head components**

**Precautions for use**

- > Gas flow selection
- > Choosing and fitting the shells
- > Selection and adjustment of the electrode

**Overview and description of the subassemblies**

- > Drive unit
- > Handle
- > Motor drive assembly
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
**4 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Overview of the welding head**

**Identification of welding head components**

**Precautions for use**

- > Gas flow selection
- > Choosing and fitting the shells
- > Selection and adjustment of the electrode
- > Selection and adjustment of the electrode
- > Elbow welding kit
- > Choosing the type of electrode offset

**Overview and description of the subassemblies**

- > Drive unit
- > Handle
- > Motor drive assembly
- > Integrated remote control
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
**7 HOURS**



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Overview of the welding head**

**Identification of welding head components**

**Precautions for use**

- > Adjusting electrode grinding
- > Choosing and assembling the gas lens
- > Gas flow selection
- > Polygaïne characteristics

**Overview and description of the subassemblies**

- > Motor drive assembly
- > Drive unit
- > Clamp
- > Plates
- > AVC/Oscillation (if option selected)
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts
- > Replacement of a pin
- > Replacement of a roller
- > Replacement of a bare Polygaïne

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
 7 HOURS



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Overview of the welding head**

**Identification of welding head components**

**Precautions for use**

**Overview and description of the subassemblies**

- > Motor drive assembly
- > Drive unit
- > Torch
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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TS 8/75

## Welding head

TRAINING  
**Maintenance**  
LEVEL  
**Expert**



**DURATION**  
14 HOURS



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

### Overview of the welding head

#### Identification of welding head components

#### Precautions for use

#### Overview and description of the subassemblies

- > Motor drive assembly
- > Drive unit
- > Torch
- > Wire feeder system
- > AVC (if option selected)
- > Pneumatic system
- > Bundle

### Welding head disassembly

#### Presentation and cleaning of regularly inspected parts

- > Replacement of critical parts
- > Replacement of wear parts

#### Maintenance methodology

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

### Welding head reassembly

#### Welding tests

#### Documentation

- > Manuals
- > Equipment return form

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**DURATION**  
 14 HOURS



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Overview of the welding head**

**Identification of welding head components**

**Precautions for use**

**Overview and description of the subassemblies**

- > Motor drive assembly
- > Drive unit
- > Torch
- > Wire feeder system
- > AVC (if option selected)
- > Pneumatic system
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
**14 to 21 hours\***  
 \*depending on model



**OBJECTIVE**

- ▶ **Describing** the operation of a welding head
- ▶ **Performing** complete maintenance
- ▶ **Being autonomous** in welding head maintenance using an appropriate methodology
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**  
 Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Overview of the welding head**

**Identification of welding head components**

**Precautions for use**

**Overview and description of the subassemblies**

- > Motor drive assembly
- > Drive unit
- > Torch
- > Wire feeder system
- > AVC/Oscillation
- > Guide ring
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
42 HOURS



**OBJECTIVE**

- ▶ **Knowing** the programming
- ▶ **Operating** the welding installation on the basis of Welding Procedure Specifications (WPS) of an existing programme
- ▶ **Analysing and correcting** a cladding cycle in progress
- ▶ **Processing** results



**TARGET AUDIENCE**

Operators, technicians, or any person required to operate an cladding installation



**PRECONDITIONS**

- ▶ Cladding or welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

#### Introduction

##### Presentation of the equipment

- > Power source (master/slave/cooling)
- > Panel
- > CN axes (controls)

##### Control panel

- > Start-up of the installation
- > Presentation of the GUI
- > Explanation of the menu icons
- > Creation of a tool
- > Creation of a new welding programme

##### Presentation of NPAD

- > Head movement in space
- > Introduction to physical and touchscreen buttons
- > Overview of software pages

#### TIG or TIGer process theory

##### Machine welding functions

- > Sensing (centring) on tube\*
- > Sensing on positioner or SPX\*
- > Setting welding variables in the programme
- > Operations possible during welding
- > Changing welding parameters during the cycle

- > Restart (simple)
- > Work mode (downslope then show inter. mode)
- > Welding (without arc, without wire, without hot wire, etc.)
- > Using the NPAD
- > Turning off the machine during a welding cycle
- > Restarting the machine / resuming sensing mode
- > Programming a tube application
- > Programming a roller application
- > Programming a welding sequence (automatic sequencing of applications)
- > Demonstrating a repair programme
- > Training on centre correction procedure

##### Welding practice

- > Welding on an application provided by the customer

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\* According to your needs

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**DURATION**  
**7 to 32 hours\***

\*depending on the chosen module(s)



**OBJECTIVE**

- ▶ **Mastering** the programming of the numerical control
- ▶ **Operating** the cladding installation (up to 2 specific applications)
- ▶ **Developing** parameters for specific applications
- ▶ **Analysing and correcting** a cladding cycle in progress
- ▶ **Processing** results



**TARGET AUDIENCE**

Operators, technicians, or any person required to operate an cladding installation



**PRECONDITIONS**

- ▶ Initial training completed
- ▶ Significant welding experience
- ▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)



**This training is to be composed of the following modules, which complement the initial training and your specific needs.**

**CONTENT**

**MODULE 1**

- > Programming a bore-to-bore application
- > Programming a cross-bore application
- > Hands-on practice

And/or

**MODULE 2**

- > Programming a groove application
- > Programming a cone application
- > Hands-on practice

And/or

**MODULE 3**

- > Programming using the patch application
- > Hands-on practice

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**DURATION**  
**7 to 21 hours\***  
 \*depending on model



**OBJECTIVE**  
 ► **Performing** complete maintenance  
 ► **Using** manuals and parts lists



**TARGET AUDIENCE**  
 Senior maintenance technician  
 requiring autonomy in the maintenance  
 of Polysoude equipment



**PRECONDITIONS**  
 ► Basic knowledge of mechanical and  
 electro-mechanical engineering  
 ► Maintenance experience

**CONTENT**

**Presentation of the installation**

**Identification of cladding head components and safety precautions**

**Overview and description of the subassemblies**

- > Motor drive assembly
- > Drive unit
- > Rotating collector
- > Torch
- > Wire feeder system
- > AVC/Oscillation
- > Bundle

**Welding head disassembly**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of critical parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Welding head reassembly**

**Welding tests**

**Documentation**

- > Manuals
- > Equipment return form

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# 03

## TRAINING IN OPERATION OR MAINTENANCE



**SPECIFIC  
EQUIPMENT**



**DURATION**  
 3 hours



**OBJECTIVE**

- ▶ **Understanding** the wire feeder operation
- ▶ **Performing** complete maintenance
- ▶ **Acquiring** a maintenance methodology for your Polysoude equipment
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

### Description of the wire feeder

#### Identification of wire feeder components

#### Precautions for use

- > Selection of roller
- > Selection of wire sheath
- > Selection of wire nozzle

#### Overview and description of the subassemblies

- > Motor drive assembly
- > Wire feeder mechanism
- > Wire spool

### Disassembly of the wire feeder

#### Presentation and cleaning of regularly inspected parts

- > Replacement of wear parts

#### Maintenance methodology

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

### Reassembly of the wire feeder

#### Wire feeding test

#### Documentation

- > Manuals
- > Equipment return form

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**DURATION**  
 32 hours



**OBJECTIVE**

- ▶ **Understanding** the wire feeder operation
- ▶ **Performing** complete maintenance
- ▶ **Acquiring** a maintenance methodology for your Polysoude equipment
- ▶ **Using** manuals and parts lists



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

**Description of the SPX welding head**

**Identification of SPX welding head components**

**Precautions for use**

**Overview and description of the subassemblies**

- > Motorisation
- > Drive
- > Rotary collector
- > Torch
- > Wire feeder system
- > AVC / OSC
- > Beam

**Disassembly of the wire feeder**

**Presentation and cleaning of regularly inspected parts**

- > Replacement of emergency parts
- > Replacement of wear parts

**Maintenance methodology**

- > Preventive maintenance
- > Troubleshooting guide
- > Corrective maintenance

**Reassembly of the wire feeder Wire feeding test**

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
7 hours



**OBJECTIVE**  
► **Configuring and using** the DAQbox software



**TARGET AUDIENCE**  
Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results



**PRECONDITIONS**  
► Significant welding experience  
► Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

**CONTENT**

**Connecting the DAQbox to the power source**

**Configuration of the DAQbox software**

- > Hardware compatible with the welding installation operated (axis configuration)
- > Recording parameters: trigger mode, alarms, safety, sampling, application type, etc.
- > Synchronisation with Polyview software

**Using the DAQbox software**

- > Software icons and menus
- > Starting a recording
- > Managing recording configuration files
- > Record management

**Do you only wish to attend this training course, without any additional training needs?**

This programme is designed to meet a single, specific requirement. If you are considering other operational training courses, please note that this module is already included in our complete training courses.

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**DURATION**  
7 hours



**OBJECTIVE**  
▶ **Installing, configuring and using** the Polyview software



**TARGET AUDIENCE**  
Technicians or any person required to operate an automated or orbital welding installation and ensure the quality of welding results



**PRECONDITIONS**  
▶ Significant welding experience  
▶ Basic computer skills (basic knowledge, Windows environment, use of icons, menus, etc.)

### CONTENT

#### **Connection with the head and the power source**

- > **Configuration of the Polyview software**
- > Hardware compatible with the welding installation operated
- > Camera optical settings (contrast, focus, etc.)
- > Synchronisation with DAQbox and/or power source

#### **Associated PWin programming**

- > Management of inputs/outputs

#### **Using the Polyview software**

- > Software icons and menus
- > Record management

#### **Do you only wish to attend this training course, without any additional training needs?**

This programme is designed to meet a single, specific requirement. If you are considering other operational training courses, please note that this module is already included in our complete training courses.

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**DURATION**  
7 hours



**OBJECTIVE**

► **Camera** and spotlight maintenance



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

► Knowledge of mechanical and electro-mechanical engineering  
► Maintenance experience

**CONTENT**

**Overview of different cameras and spotlights**

**Identification of components**

**Precautions for use**

**Maintenance operations**

- > Camera maintenance
- > Spotlight maintenance
- > Replacement of the LED
- > Replacement of the CMOS sensor
- > Lens type

**Equipment tests**

- > Camera test
- > Spotlight test

**Documentation**

- > Manuals
- > Equipment return form

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**DURATION**  
7 hours



**OBJECTIVE**

- ▶ **Servicing** a video installation
- ▶ **Identifying** installation issues



**TARGET AUDIENCE**

Senior maintenance technician requiring autonomy in the maintenance of Polysoude equipment



**PRECONDITIONS**

- ▶ Knowledge of mechanical and electro-mechanical engineering
- ▶ Maintenance experience

**CONTENT**

#### Presentation of the installation

##### Identification of components

- > Camera
- > Lighting
- > Container
- > Console
- > Fibre
- > Converter
- > Computer
- > Bios
- > Screens

##### Precautions for use

- > Software installation and principle
- > Using the software

##### Maintenance of the installation

- > Fibre cleaning
- > Replacement and/or cleaning of the protective glass

##### Troubleshooting

##### Documentation

- > Manuals
- > Equipment return form

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# Customised training



## Why choose a Polysoude customised training programme?

### A programme tailored to your needs

Can't find a course in our catalogue that exactly matches your requirements? We work with you to design a programme that takes your specific needs into account: type of equipment, participant skill levels, production constraints, and skill development objectives, etc.

### Flexible and adaptable modules

Our customised training courses are organised into one-day modules (7 hours), with objectives and content defined in collaboration with your teams. Each session is designed to address your specific challenges, whether in operation, maintenance, or advanced technical training.

### End-to-end support

From the first contact, our educational engineers and expert trainers guide you through needs analysis, defining learning objectives, and programme development. You thus benefit from a 100% personalised training path, fully aligned with your operational goals.

### Formalised and transparent services

Each customised training course is provided with a detailed proposal outlining the programme, format, objectives, and expected outcomes. This approach ensures clarity, traceability, and the quality of our services.

### Examples of customised training:



#### One-day Operation training

7-hour modules: Objectives and content defined according to your equipment and specific requirements (equipment handling, settings optimisation, safety, etc.).



#### One-day Maintenance training

7-hour modules: Programme designed around your needs for preventive or corrective maintenance on the equipment of your choice.

**Choose Polysoude customised training and provide your teams with a skill development programme fully aligned with your industrial objectives.**

Contact us to co-design your personalised training programme!





## Detailed training references by level and product

OPERATOR LEVEL					
Training Code	Power source	Head / Software	Duration	Ref.	Page
FU-P3	P3	MW	7 hrs	100062140	<b>11</b>
	P3	UHP	7 hrs	100062144	<b>11</b>
FU-P4	P4	MU	14 hrs	100071589-A	<b>15</b>
	P4	MW	7 hrs	100062142-A	<b>15</b>
	P4	TS with wire	14 hrs	100062145-A	<b>15</b>
	P4	TS without wire	7 hrs	100062142-A	<b>15</b>
	P4	UHP	7 hrs	100062142-A	<b>15</b>
FU-P6CW	P6CW	MU	14 hrs	100062146-A	<b>19</b>
	P6CW	Polycar	28 hrs	100071590-A	<b>19</b>
	P6CW	TS	14 hrs	100062146-A	<b>19</b>
FU-P6HW	P6HW	MU	28 hrs	100071590-B	<b>23</b>
	P6HW	Polycar	28 hrs	100071590-B	<b>23</b>
FU-PC	PC	Aluminium (DC current)	28 hrs	100062151	<b>27</b>
	PC	Plasma	28 hrs	100062151	<b>27</b>
	PC	Cladding	28 hrs	100062183	<b>27</b>
	PC	Orbital welding heads	28 hrs	100071826	<b>27</b>
	PC	TIG CW/HW	28 hrs	100062151	<b>27</b>
FU-PC-ACDC	PC	TIG (AC) CW Aluminium	28 hrs	100062185	<b>31</b>

EXPERT LEVEL					
Training Code	Power source	Head / Software	Duration	Ref.	Page
FU-P3	P3	MW	14 hrs	100062147	<b>12</b>
	P3	UHP	14 hrs	100062139	<b>12</b>
FU-P4	P4	MU	28 hrs	100071593-A	<b>16</b>
	P4	MW	14 hrs	100062143-A	<b>16</b>
	P4	TS with wire	21 hrs	100071591-A	<b>16</b>
	P4	TS without wire	14 hrs	100062143-A	<b>16</b>
	P4	UHP	14 hrs	100062143-A	<b>16</b>
FU-P6CW	P6CW	MU	28 hrs	100071592-A	<b>20</b>
	P6CW	Polycar	32 hrs	100071594-A	<b>20</b>
	P6CW	TS	28 hrs	100071592-A	<b>20</b>
FU-P6HW	P6HW	MU	32 hrs	100071594-B	<b>24</b>
	P6HW	Polycar	32 hrs	100071594-B	<b>24</b>
FU-PC	PC	Aluminium (DC current)	32 hrs	100062152	<b>28</b>
	PC	Plasma	32 hrs	100062152	<b>28</b>
	PC	PolyClad TWINTIGer-C or -L	32 hrs	100069945-C	<b>28</b>
	PC	Cladding	32 hrs	100062184	<b>28</b>
	PC	Orbital welding heads	32 hrs	100071827	<b>28</b>
	PC	TIG CW/HW	32 hrs	100062152	<b>28</b>
FU-PC-ACDC	PC	TIG (AC) CW Aluminium	32 hrs	100062186	<b>32</b>
FU-PolyClad	PC	CNC	42 hrs	100069945	<b>42</b>
FU-DAQ		DAQbox	7 hrs	100062137	<b>48</b>
FU-Polyview		Polyview	7 hrs	100062149	<b>49</b>



ADDITIONAL OR CUSTOM TRAINING COURSE						
Training Code	Power source	Head / Software	Level	Duration	Ref.	Page
FU-PolyClad	PC	Module 1 CNC	Supplement	14 hrs	100069946	<b>43</b>
	PC	Module 2 CNC	Supplement	14 hrs	100069946	<b>43</b>
	PC	Module 3 CNC	Supplement	14 hrs	100069946	<b>43</b>
FU-XX	Customised	Customised	Customised	7 hrs	100062153	<b>52</b>





## Detailed training references by level and product

OPERATOR LEVEL				
Training Code	Power source	Duration	Ref.	Page
FM-P3	P3	4 hrs	100062177	<a href="#">13</a>
FM-P4	P4	4 hrs	100062170	<a href="#">17</a>
FM-P6CW	P6CW	4 hrs	100062171	<a href="#">21</a>
FM-P6HW	P6HW	4 hrs	100074582	<a href="#">25</a>
FM-PC	PC	7 hrs	100062169	<a href="#">29</a>

EXPERT LEVEL					
Training Code	Power source	Head / Software	Duration	Ref.	Page
FM-P3	P3		7 hrs	100062178	<a href="#">14</a>
FM-P4	P4		7 hrs	100062173	<a href="#">18</a>
FM-P6CW	P6CW		11 hrs	100062172	<a href="#">22</a>
FM-P6HW	P6HW		14 hrs	100074583	<a href="#">26</a>
FM-PC	PC		17 hrs	100062174	<a href="#">30</a>
FM-PolyClad		Polyclad 3C	14 hrs	100062163-A	<a href="#">44</a>
		Polyclad C&B	14 hrs	100062164-B	<a href="#">44</a>
		Polyclad Easy	7 hrs	100062164-A	<a href="#">44</a>
		Polyclad Elbow L - TIGer	14 hrs	100062164-C	<a href="#">44</a>
		Polyclad SPX	18 hrs	100062163-B	<a href="#">44</a>
		Polyclad TWINTIGer-C or L	21 hrs	100062163-C	<a href="#">44</a>
FM-UHP		UHP	4 hrs	100062154-B	<a href="#">35</a>
FM-MW		MW	4 hrs	100062154-A	<a href="#">36</a>
FM-MU		MU	7 hrs	100062155	<a href="#">37</a>
FM-TS		TS34	7 hrs	100062156	<a href="#">38</a>
		TS 8/75	14 hrs	100062157- A	<a href="#">39</a>
		TP60	14 hrs	100062157- A	<a href="#">40</a>
FM-Polycar		Polycar 30	14 hrs	100062161	<a href="#">41</a>
		Polycar 60-2	14 hrs	100062161	<a href="#">41</a>
		Polycar MP	21 hrs	100062165	<a href="#">41</a>
		Polycar PLC	14 hrs	100062161	<a href="#">41</a>
FM-Polyfil		Polyfil	3 hrs	100083741	<a href="#">46</a>
FM-SPX		SPX	32 hrs	100062166	<a href="#">47</a>
FM-Polyview		Polyview - Camera	7 hrs	100062179	<a href="#">50</a>
		Polyview - HD installation	7 hrs	100062187	<a href="#">51</a>



CUSTOM TRAINING					
Training Code	Power source	Head / Software	Duration	Ref.	Page
FM-XX	Customised	Customised	7 hrs	100071588	<a href="#">52</a>



## Polysoude: associated services



### Advice and technical assistance

An application welding specialist in your region will advise you on the appropriate welding process and equipment for your application.



### Commissioning / Training

A comprehensive training programme ensures you can start using your equipment immediately and efficiently.



### Maintenance / Repair

Maintenance and repair operations can be carried out either at Polysoude sites or on-site via our service network.



### Equipment rental

Gain flexibility for your production!  
A wide range of equipment is available for rental from our fleet.

## Your partners worldwide

Polysoude operates globally and provides high-quality local services. Contact your nearest Polysoude representative from the list on the side, or find our subsidiaries and distributors on the global network map below.



### SUBSIDIARIES AND DISTRIBUTORS

[www.polysoude.com](http://www.polysoude.com)

- ▶ POLYSOUDE HQ & Factory  
+33 (0) 2 40 68 11 00  
[info@polysoude.com](mailto:info@polysoude.com)
- ▶ POLYSOUDE Austria GmbH  
+43 (0) 3613 200 36  
[austria@polysoude.at](mailto:austria@polysoude.at)
- ▶ POLYSOUDE China  
+86 (0) 21 64 09 78 26  
[jm.pan@polysoude.com.cn](mailto:jm.pan@polysoude.com.cn)
- ▶ POLYSOUDE Czech Republic  
+420 602 60 28 55  
[m.matousek@polysoude.cz](mailto:m.matousek@polysoude.cz)
- ▶ POLYSOUDE Deutschland GmbH  
+49 (0) 7072 60076 0  
[info@polysoude.de](mailto:info@polysoude.de)
- ▶ POLYSOUDE India  
+91 (0) 20 271 27 678  
[ab.kulkarni@polysoude.in](mailto:ab.kulkarni@polysoude.in)
- ▶ POLYSOUDE Italy  
+39 02 93 79 90 94  
[info@polysoude.it](mailto:info@polysoude.it)
- ▶ POLYSOUDE Switzerland  
+41 (0) 43 243 50 80  
[contact@polysoude.ch](mailto:contact@polysoude.ch)
- ▶ POLYSOUDE United Kingdom  
+44 (0) 1942 820 935  
[admin.uk@polysoude.com](mailto:admin.uk@polysoude.com)
- ▶ POLYSOUDE USA  
818-962-3518  
[salesusa@polysoude.com](mailto:salesusa@polysoude.com)

A MEMBER OF



**POLYSOUDE**  
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Polysoude S.A.S.  
2, rue Paul Beaupère  
44300 Nantes France  
Tel. +33 (0)2 40 68 11 00  
[info@polysoude.com](mailto:info@polysoude.com)

  
[polysoude.com](http://polysoude.com)

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