

YOUR PARTNER IN PLASTIC JOINING





# CEMAS Elettra

is a global leader in plastic welding technologies, delivering innovative, reliable, and tailor-made solutions for industries worldwide.

## Started in 1982

as a small local business in Italy, nowadays CEMAS Elettra is one of the largest European companies in its field.

## This global presence

enables the company to respond swiftly to customer needs, regardless of their geographical location.

With production plants and offices strategically located, we ensure timely deliveries, localized support and a deep understanding of local market dynamics.

## Our values

define who we are, guiding our pursuit of innovation, quality and customer satisfaction in every aspect of plastic welding technology.

### Expertise

In our teams, hard skill, curiosity and wisdom join forces constantly;

### Consistency

Our craftsmanship approach is enhanced through workflow optimization.

### Reliability

Our quality management system ranges from the choice of basic components to the installation and customer service experience.

## Innovation

Each project is researched from the ground up, right alongside our client.

## Flexibility

We actively invest in research and development and offer future-proof solutions.





# CEMAS Elettra Smart services. Global support.

**14**

active branches suiting  
your needs anywhere in  
the world

**over 40 years**

of experience in plastic welding technology

**efficiency**

in energy consumption with advanced welding  
systems

**3000+**

products developed across various  
industries

**200+ yearly**

successful installations worldwide

## More than machines:

**complete project  
support from  
start to finish.**

**Consult &  
feasibility**

We offer comprehensive consulting services to identify the most suitable plastic welding technology for your specific needs, both short and long-term.

**Design**

Utilizing advanced CAD software and engineering expertise, we develop precise and efficient designs that meet the highest industry standards.

**Prototyping &  
Manufacturing**

Our state-of-the-art manufacturing facilities enable us to produce high-quality welding machines and tools, ensuring reliability and durability.

**Welding trials &  
first production**

We offer pilot production runs to ensure a smooth transition to full-scale manufacturing, allowing for adjustments and improvements as needed.

**Help & support**

Our global network of service centers and skilled technicians ensures prompt assistance, minimizing downtime and maximizing productivity.

# CEMAS Elettra ADVANCED TECHNOLOGIES FOR PLASTIC JOINING



## LASER

A powerful, concentrated radiation fuses thermoplastic materials by exploiting their own properties, forming precise and strong bonds.

- Adaptive
- Aesthetic
- Modular and scalable
- Fast as light
- Simple and clean
- In-depth thermal control



## VIBRATION

An imposed vibration fuses thermoplastic surfaces through friction, creating strong bonds without external heat.

- Total vibration control
- Soundproof structure
- Compact yet complete
- Wide rear opening
- Always available
- High memory storage



## INFRARED

An infrared radiation fuses thermoplastic materials by using heating waves, offering a precise, controlled and contactless joining method.

- Design flexibility
- High and smart precision
- Efficient and energy saving
- Non-contact and clean
- Modular design
- Memory storage



## HOT PLATE

A heated plate fuses thermoplastic materials via direct contact providing a strong, controlled and straight-forward bonding process.

- Simple and intuitive
- Compliant
- Full electric
- Economic
- Modular
- Durable

# CEMAS Elettra ADVANCED TECHNOLOGIES FOR PLASTIC JOINING



## ULTRASONIC

A sonotrode joins thermoplastics through high-frequency vibrations, delivering fast, precise and cost-effective bonds with clean, repeatable results.

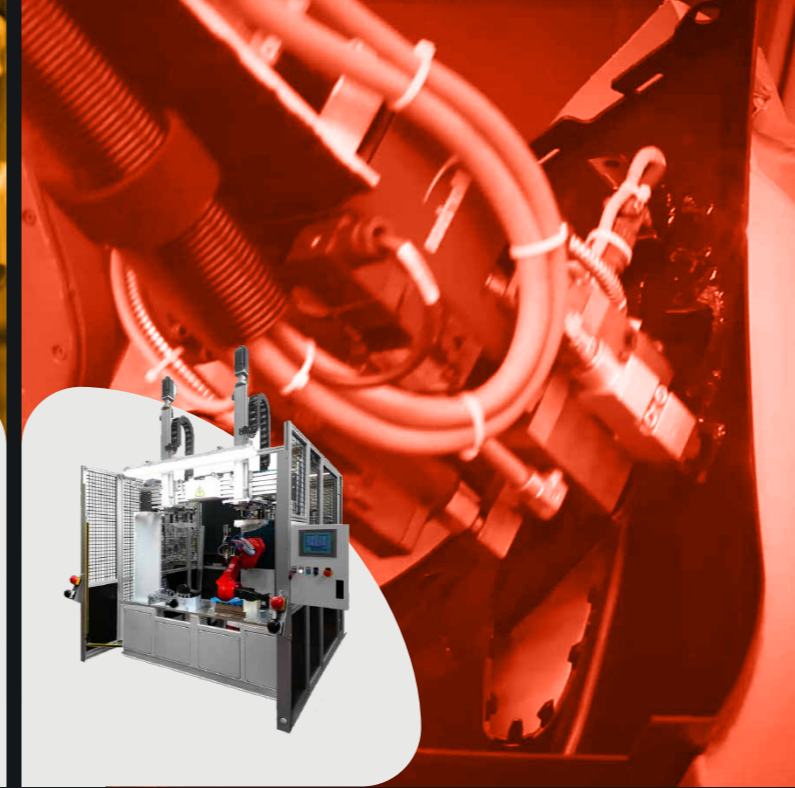
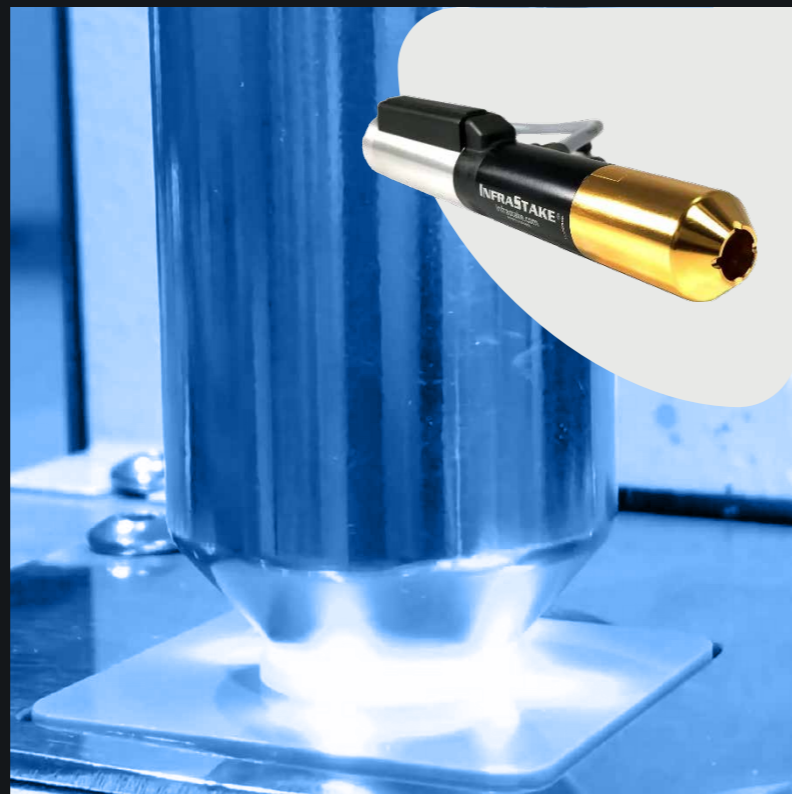
- Versatility
- Full electric design
- Quality first
- Speed
- Safety
- Customizable process



## STAKING

An infrared heating and a precision staking are combined to offer efficient, clean and visually flawless solutions for thermoplastic assembly.

- Secure joint
- Process monitoring for quality
- Cost-effective
- Surface protection
- Safe and non-invasive
- Reliable and repeatable



## GLUING

A specialized adhesive, precisely applied, joins thermoplastic materials, ensuring a flexible, precise, and heat-free bond.

- Flexibility
- No limits on materials
- Cost efficiency
- Aesthetic precision
- Durability
- Customizable process



## HYBRID TECHNOLOGIES

Shape unique machines, each with its own unique advantages.

- Co-designed
- Unique
- Versatility
- Quality
- Customizable process

# CEMAS Elettra

## A global network of excellence

### CEMAS ELETTRA

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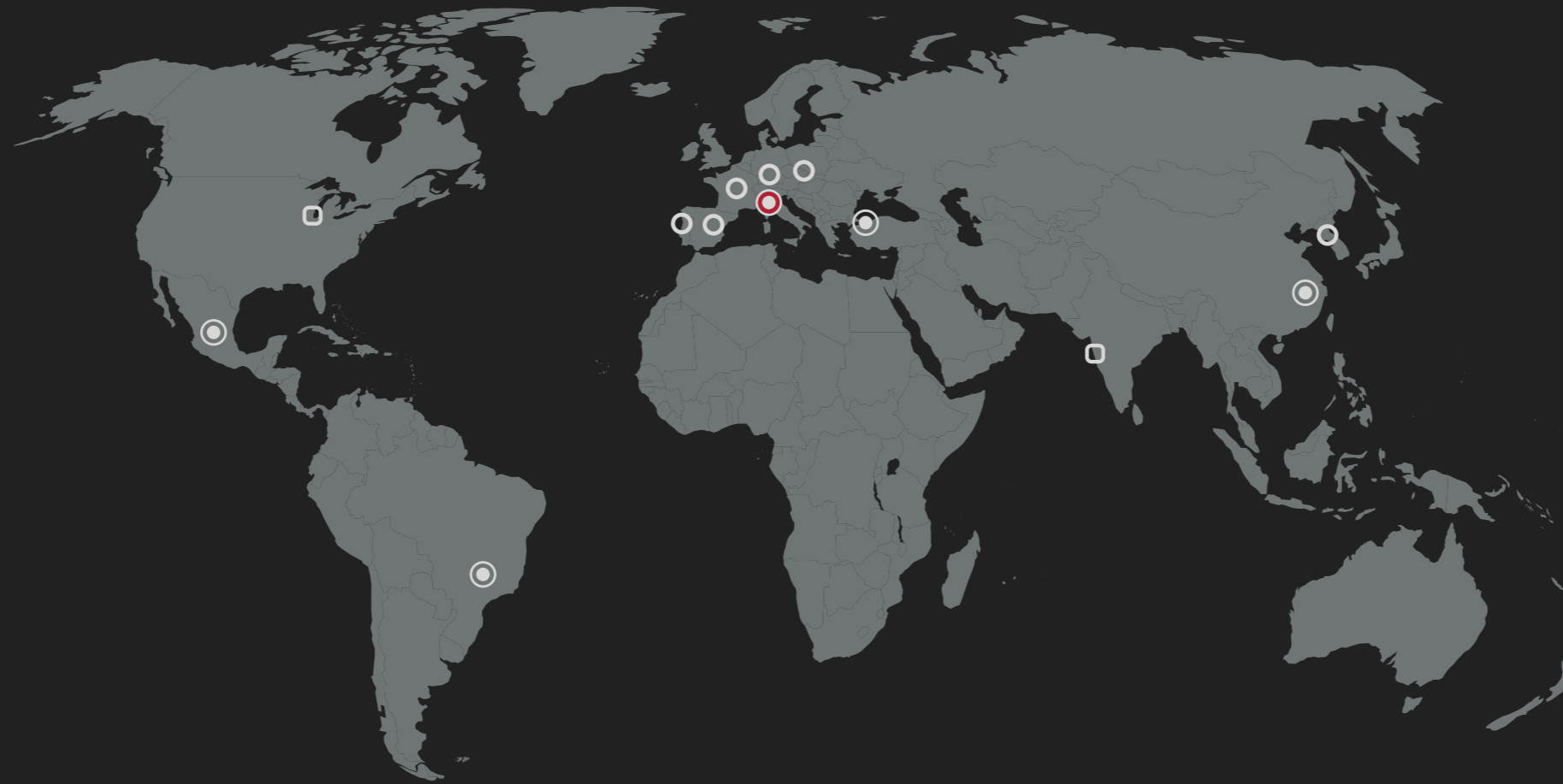
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● PRODUCTION PLANT & TECHNICAL SERVICE    ○ IN-HOUSE SALES & TECHNICAL SERVICE    ◻ PARTNER SALES & TECHNICAL SERVICE

## Your partner, wherever you are

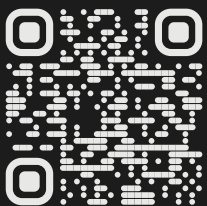
From our headquarters to every branch around the world, we are here to support your needs and respond to your requests with clarity and care.

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