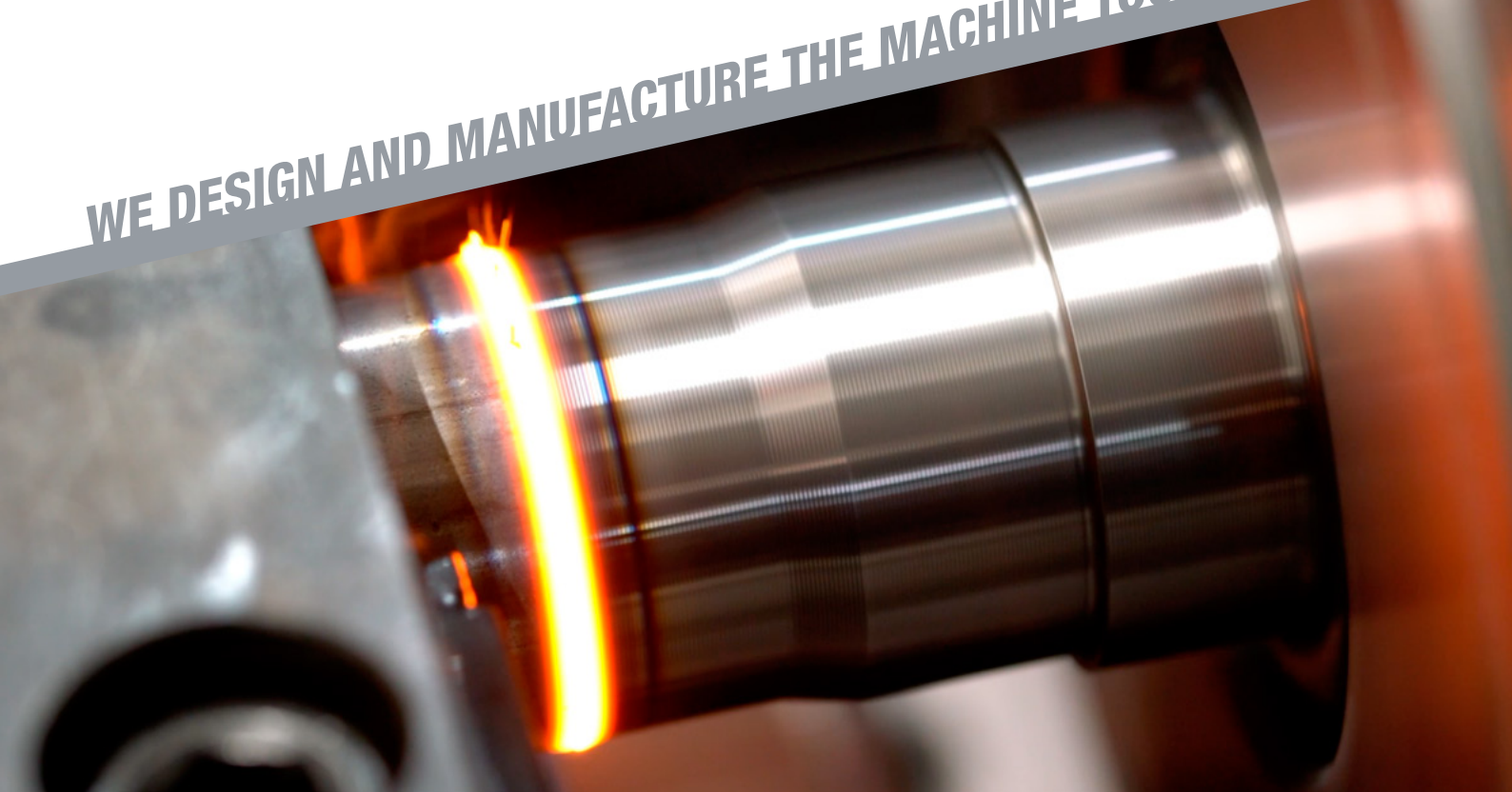


General  
catalogue



**BERKOA**  
S.COOP.  
*Machine Tools*

WE DESIGN AND MANUFACTURE THE MACHINE TOOL YOU NEED



# MACHINE TOOL MANUFACTURERS

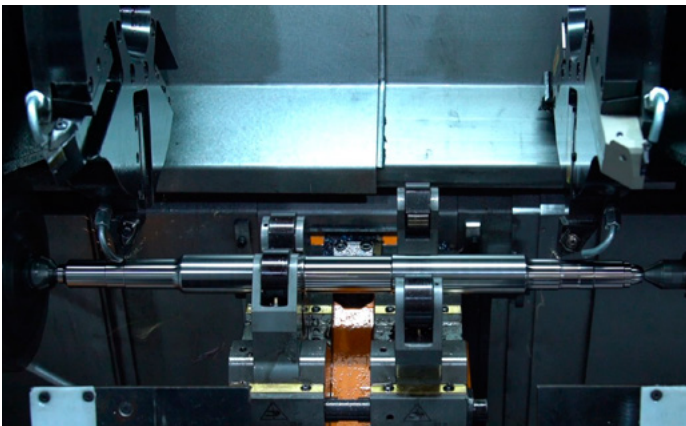
Berkoa's team is specialized in **turnkey projects**. From the initial contact with the customer to the machine's setting-up and startup in their facilities.

- ▶ Knowledge of customer's needs
- ▶ Study and submission of possible solutions.
- ▶ Economic proposal for the project including estimated deadline for execution.
- ▶ Machine design.
- ▶ Manufacturing and purchase of the necessary material.
- ▶ Mechanical and electrical assembly.
- ▶ Start-up.
- ▶ Tests and submission of results to the customer.
- ▶ Reception at Berkoa.
- ▶ Delivery of the machine.
- ▶ Setting up of the machine at customer's facilities.
- ▶ Start-up, testing and reception at customer's facilities.
- ▶ Preventive maintenance.
- ▶ Technical support service



All our machines:  
[www.berkoa.com](http://www.berkoa.com)

The whole process is carried out in close contact with the customer, who is the most familiarized with its product, and the one who has the real **"know-how"** of it.



Special bar lathe



Grinding wheel lathe

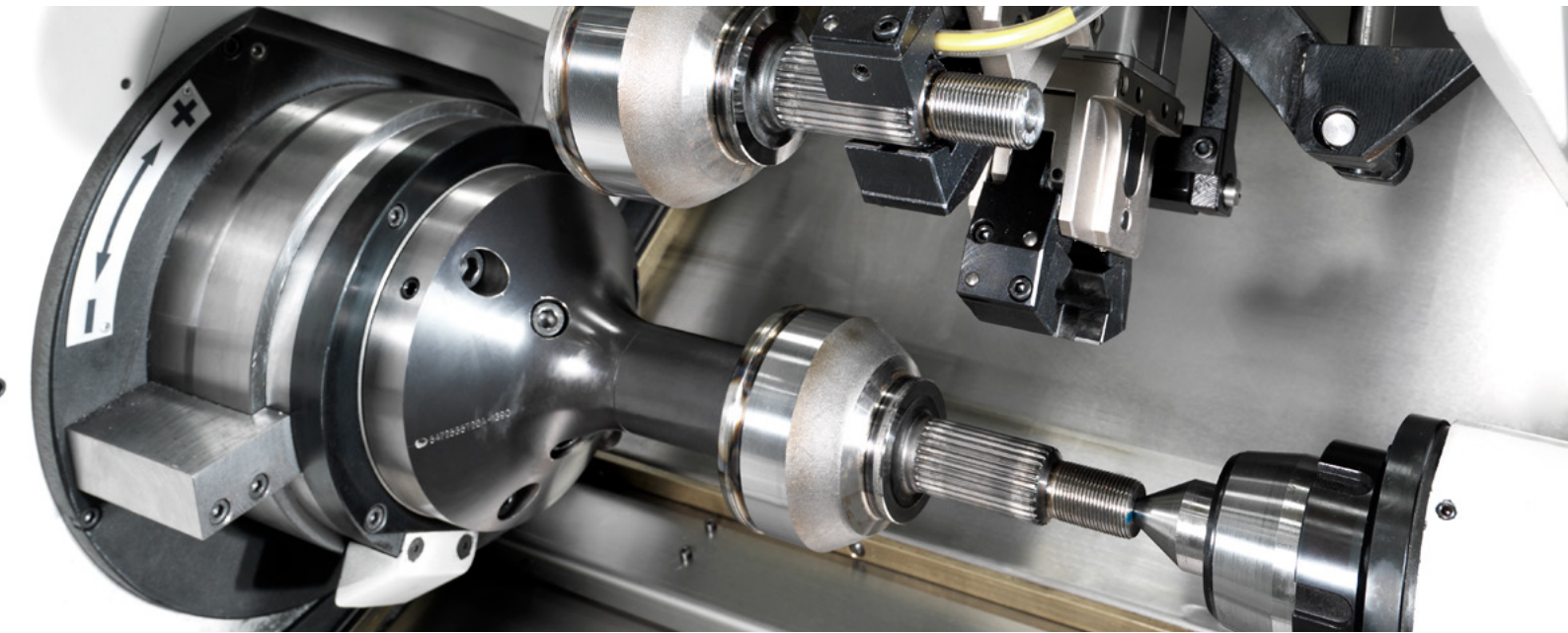
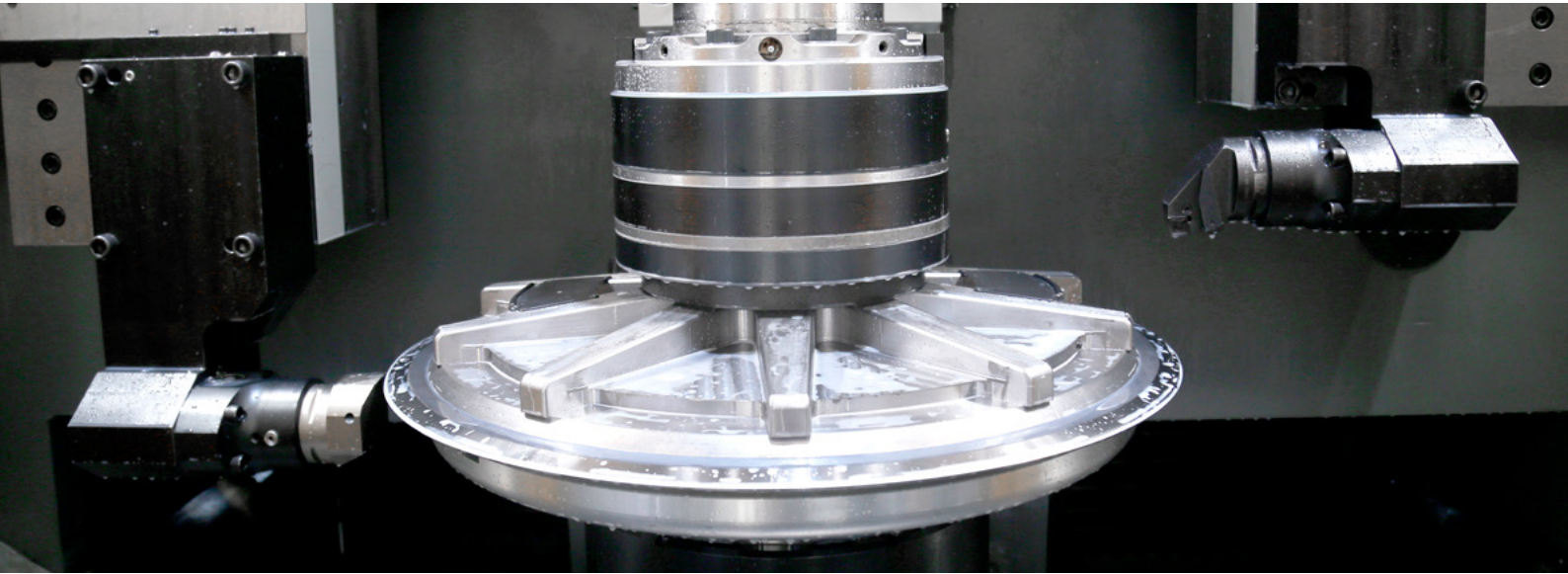


Lathe cell



Vertical lathe

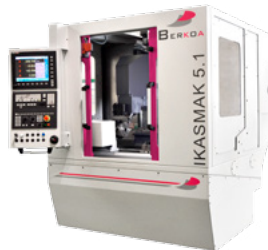
## WE DESIGN AND MANUFACTURE



Grinding machine for diesel pumps



Boring machine for diesel pumps



Multiprocess machine



Rotary friction welding machine with two stations

**THE MACHINE TOOL YOU NEED**  
*You name it... We make it!*

# ROTARY FRICTION WELDING MACHINES

**Currently, we are the only manufacturers of rotary friction welders at the national level.**

Rotary friction welding is a process of joining materials in which, by pressing and rotating one piece over another, the heat necessary to weld the pieces is generated. With this technology, joints can be made of both the same and different materials.

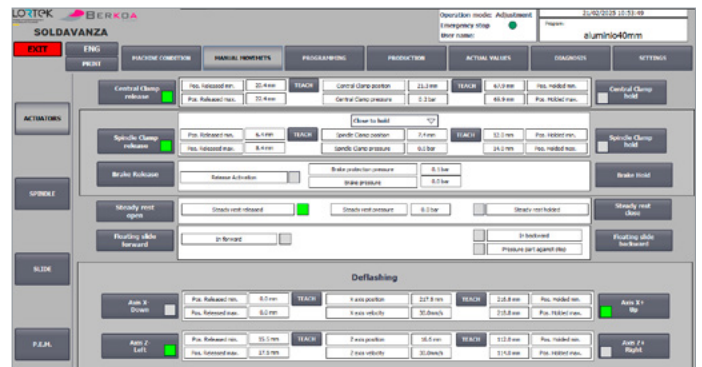
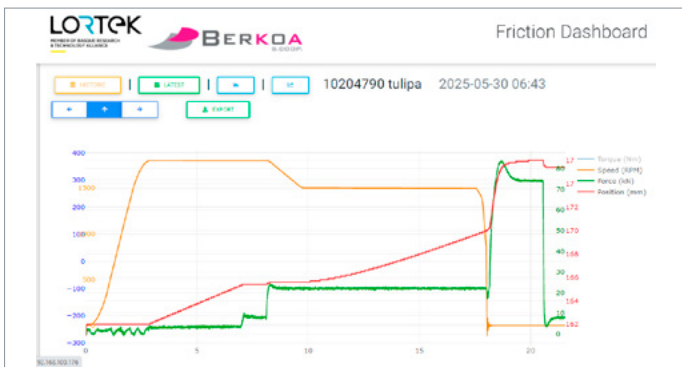
Among the most important features of these machines we find the **©BLSC 4.0 registered Controller** co-designed together with our technological partner Lortek. The controller allows the capture of data in real time, with just a margin of one millisecond. Traceability control and storage of parameters and their graphs are notable features of this controller.



**Want to know more?  
Link to Youtube Channel**

Common tests to carry out to evaluate the quality of friction welded joints:

- ▶ Visual inspection
- ▶ Geometric and dimensional checks
- ▶ Metallographic examination (macro-micro)
- ▶ Micro-hardness analysis
- ▶ Mechanical tests: Tensile, bending (depending on the type of part: diameter, solid or tube, etc.)



**Forging and steel  
Automotive**



**F114 and HSS  
Tools**



**Aluminium and copper  
Electrical wiring**

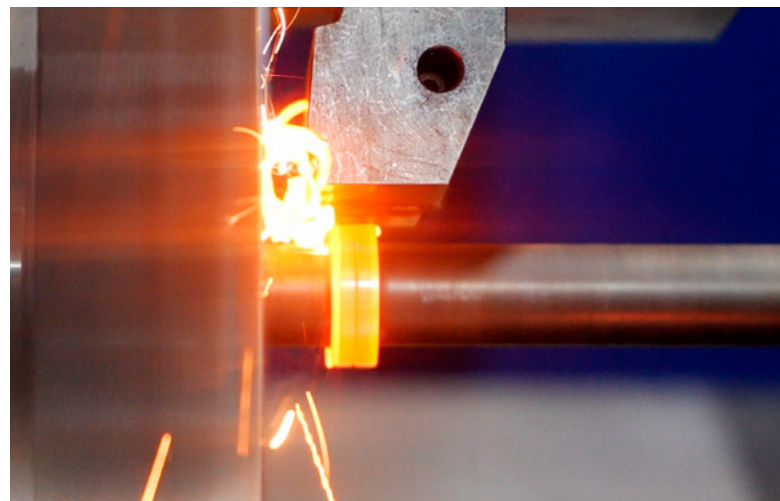
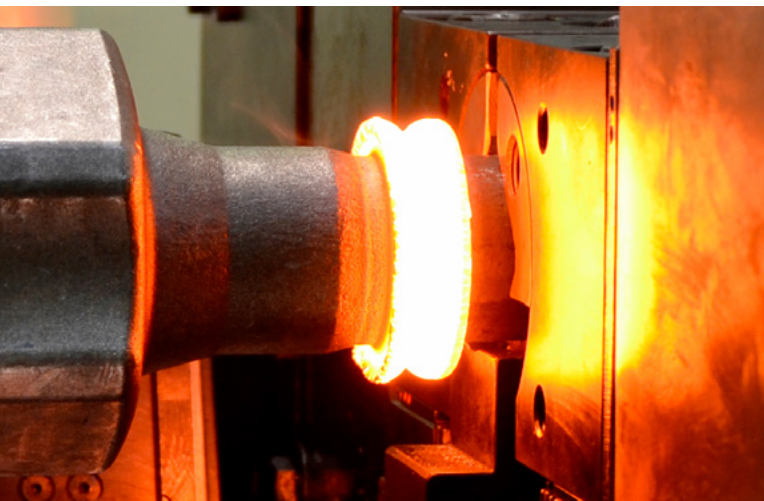


Partner Tecnológico:

**LORTEK**  
MEMBER OF BASQUE RESEARCH  
& TECHNOLOGY ALLIANCE

Controlador registrado:

© BLSC 4.0



Rotary friction welding machine



Welding machine with turning equipment



2 stations automatic welding

# DO YOU NEED TO WELD PARTS?

We have a rotary friction welding machine for subcontracting; manufacturing, prototypes, trials and tests **SoldAvanza**

# MACHINE TOOLS

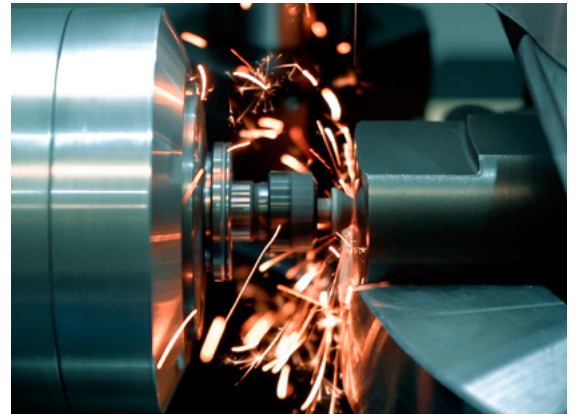
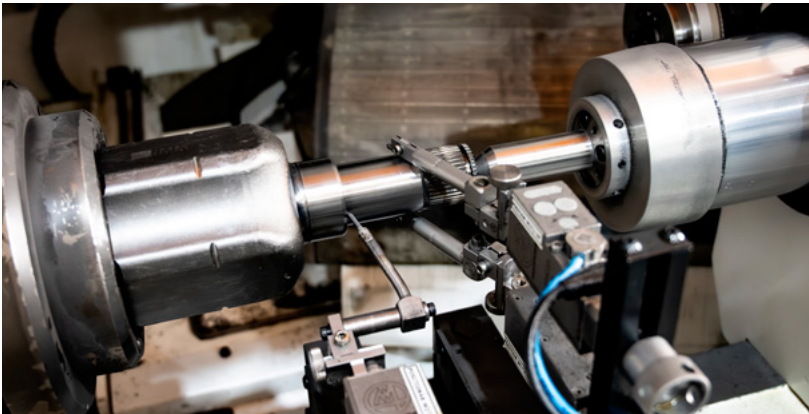
## RETROFITTING

The machine-tool retrofitting is an option that not only allows to get an **updated machine-tool, adapted to the needs of current machining processes**. Moreover, it's an option engaged with the environment, that encourage the circular economy and generates high profits beyond the strictly economic sense.

Machines that would otherwise end up at scrap yards to be recycled or melted down can be repaired, retrofitted and put back into operation – a process that not only reduces waste generation and lowers the carbon footprint, but also helps to minimise environmental impact by extending the service life of fully recoverable industrial equipment. For each project, we first assess the condition of the machine and the client's specific requirements, then carry out **a complete modernisation of the machine, covering mechanical, electrical, electronic and safety aspects**, amongst others. We conclude with commissioning, testing and final handover, always backed by our guaranteed technical support.

### Key benefits:

- ▶ Significant increase in the machine's performance and precision.
- ▶ Cost savings compared to purchasing new equipment.
- ▶ Compliance with current regulations and standards.
- ▶ Greater reliability, availability of modern spare parts and up-to-date support.
- ▶ Reduced environmental impact and a direct contribution to the circular economy.



Danobat Toyota  
External grinding machine



Tachella Crossflex A160  
External grinding machine

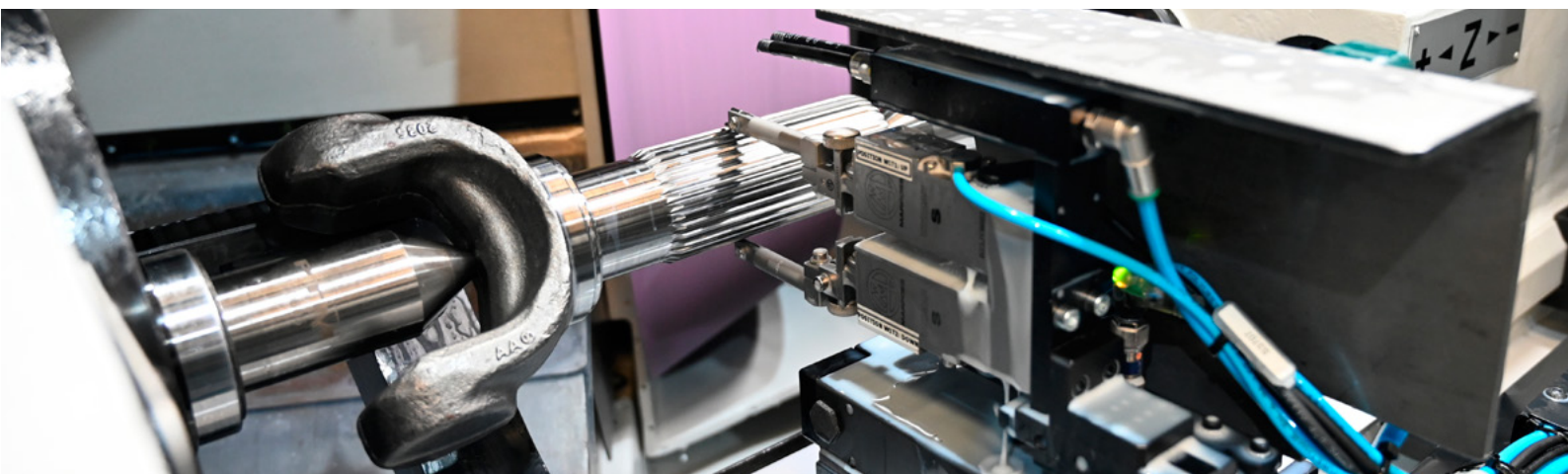


Voumard 54  
Internal grinding machine



Voumard V150  
Internal grinding machine

# AN ENVIRONME



RC1-950  
Facing centring machine



Kondia V10  
Machinin center



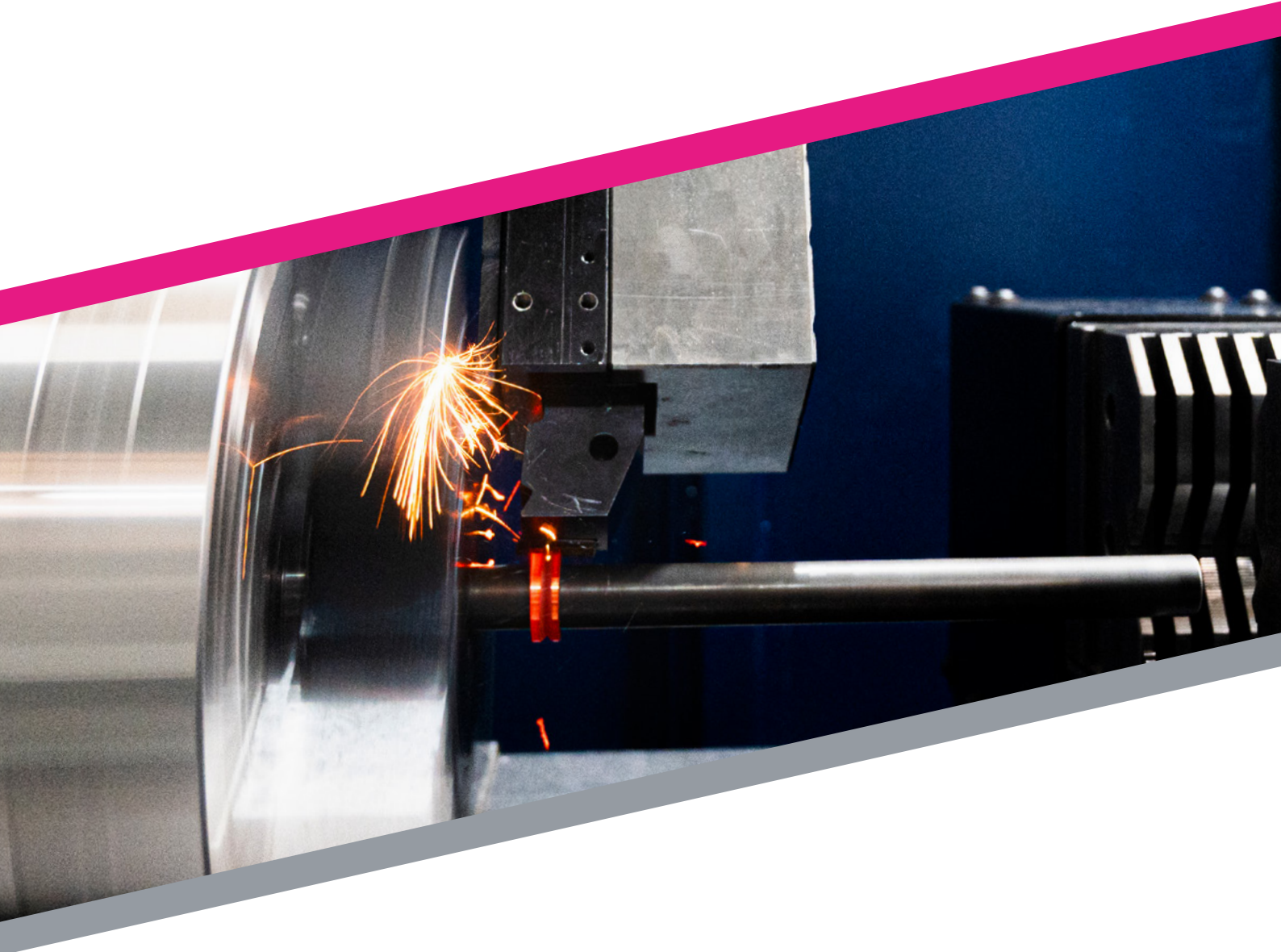
Max Müller Gildemeister  
Horizontal lathe



Trevisan  
Drilling cell

**ENTALLY FRIENDLY CHOICE**  
*Circular Economy*





## **BERKOA MACHINE TOOLS**

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**Berkoa, S.Coop.** is a machine-tool manufacturing company which is located in Elgoibar (Gipuzkoa), in the heart of the Basque Country, where there is a strong tradition of machine-tool manufacturing.

As a cooperative company, **the whole team is focused on a common goal: to offer tailor-made solutions to meet our customer's needs.** The satisfaction of their demands it's our commitment to keep improving. Our team is composed by professionals with years of experience in the advance manufacturing industry.

**Innovation, commitment and excitement** are the key elements to offer our customers **high quality services.**

## **BUSINESS AREAS**

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- ▶ New custom-built machinery, turnkey solutions.
- ▶ Rotary friction welding machines.
- ▶ Retrofitting.
- ▶ Multi-brand technical support, preventive and predictive maintenance.



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