



Company Presentation



Company



Our Solutions



Quality
Policy



Company



Presentation of the company:

Cicar was founded some 60 years ago in (Madrid) with the spirit to offer to its customers **high value-added services in metal machining and comprehensive solutions in assembly** of gearboxes.

The key to success of our company is based on installations with **the latest technology** and a **highly qualified team** of professionals transforming Cicar into a acknowledged reference in the industrial sector.

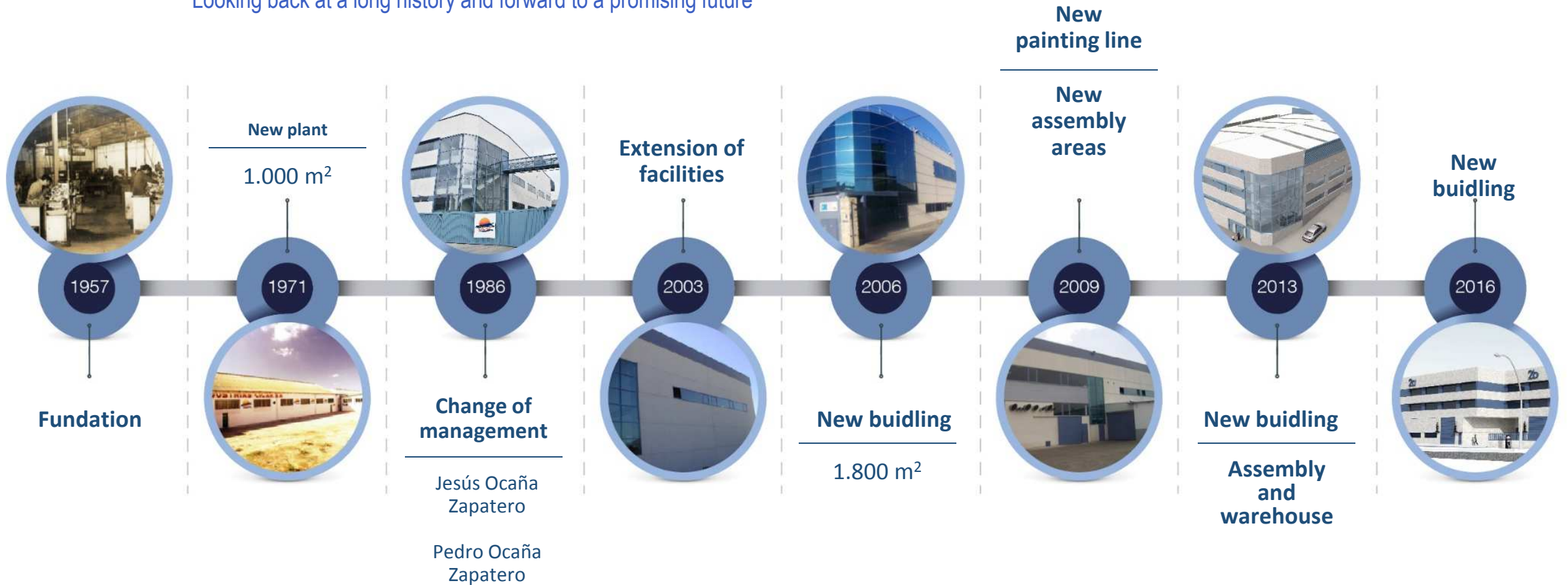
According to “our philosophy” we constantly offer tailored made solutions to meet the specific requirements of our customers.





Company history

“Looking back at a long history and forward to a promising future”





Why Cicar?

We specialize in mechanical components and high precision assemblies for motor and power transmission used in land machines and industrial vehicles.

Our mission is to assist our customers from the beginning of a new project to its final execution.

“The specialization is the only way to differentiation”



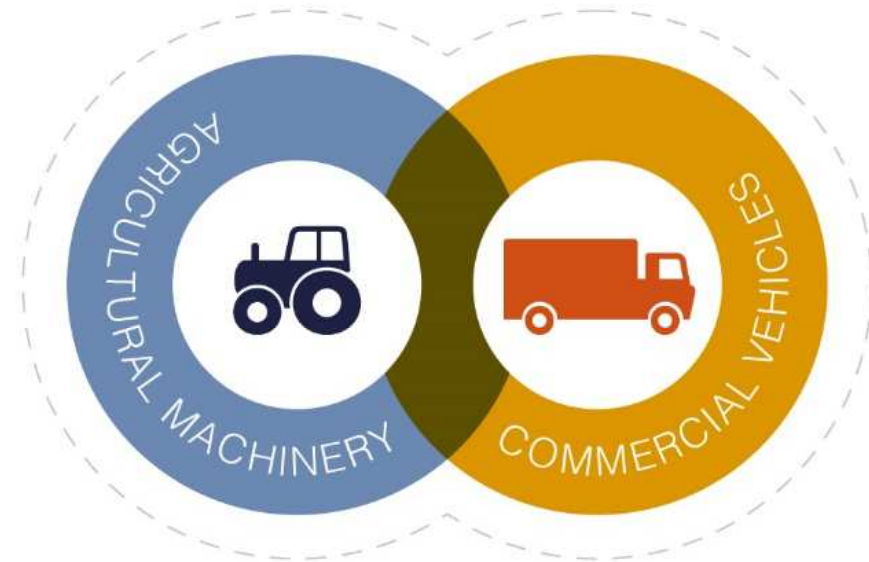


Specialization:

At Cicar we specialize in **agricultural machines** and **industrial vehicles**. We count on a high specialization in the field of manufacturing of components and gearboxes since our expert knowledge of materials, manufacturing technologies, codes and documentation.

Thanks to our experience we provide all the know how in the benefit of our customers in each of the processes we are engaged with.

- Land machines
- Industrial vehicles





Specialization - Customers

We work day to day for a solid and long term relationship with each of our customers. The three pillars of our customer service are swiftness, flexibility and quality.

All our professionals are focused on customer service attitude. Thanks to comprehensive knowledge of the manufacturing processes they are engaged with, we are proud of meeting the most demanding requirements.

Those are some of our customers:

EXPAL





Our Solutions



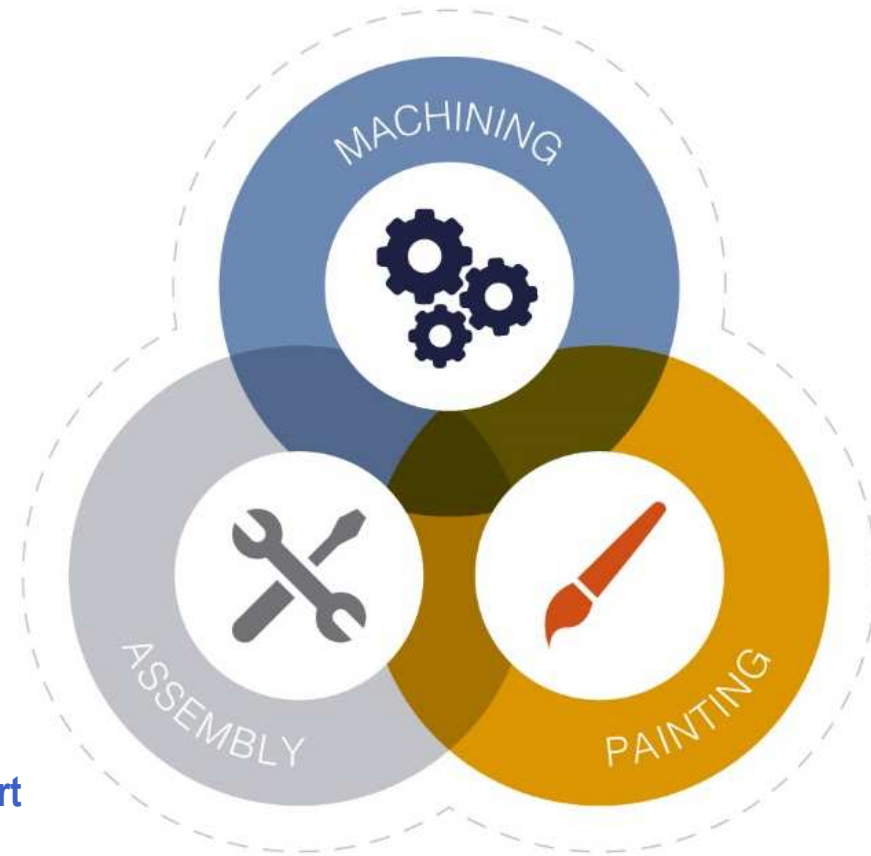
Our Solutions

At CICAR we rely on the most **advanced technologies** allowing us to take on **large volumes of production**. We are especially well-prepared for work on medium and large series.

Main areas of action:

- Machining
- Assembly
- Painting

In line with our philosophy of always offering the **utmost excellence** in each of our work areas, we have an advanced, **versatile industrial facility** with **state-of-the-art machinery**.



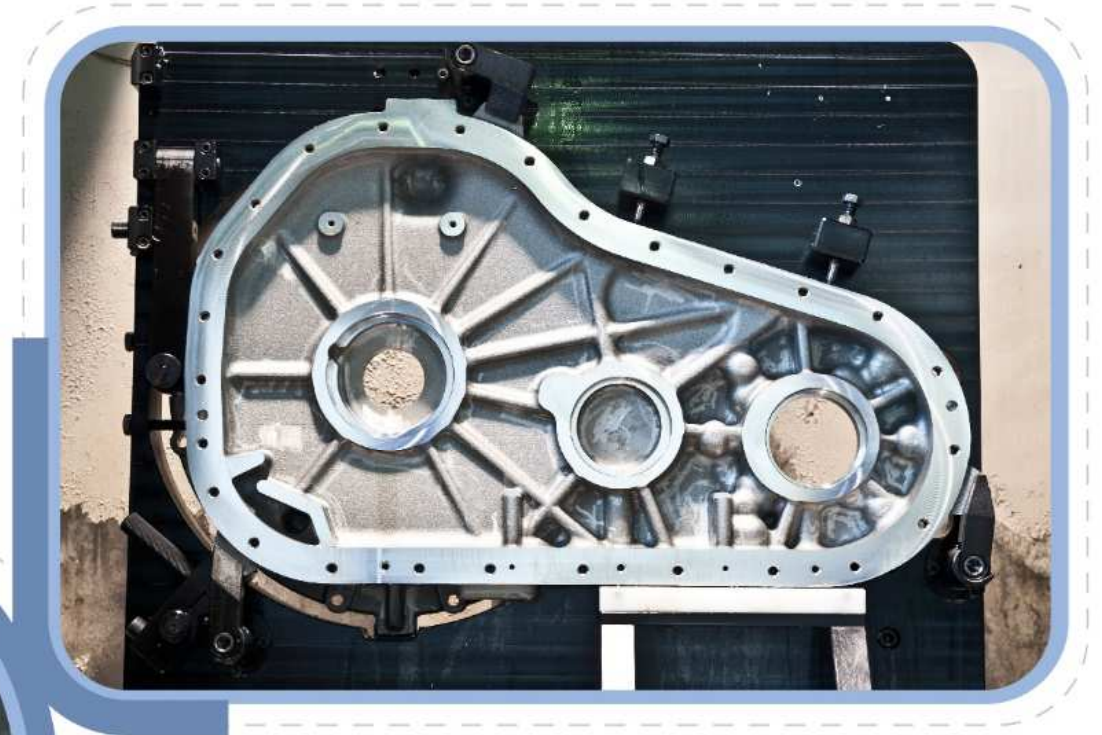


Our Solutions

Machining - Installations

The machining area is divided into four different sections:

- Lathes.
- Machining centres.
- Washers.
- Yellow line (commercial vehicles)





Our Solutions

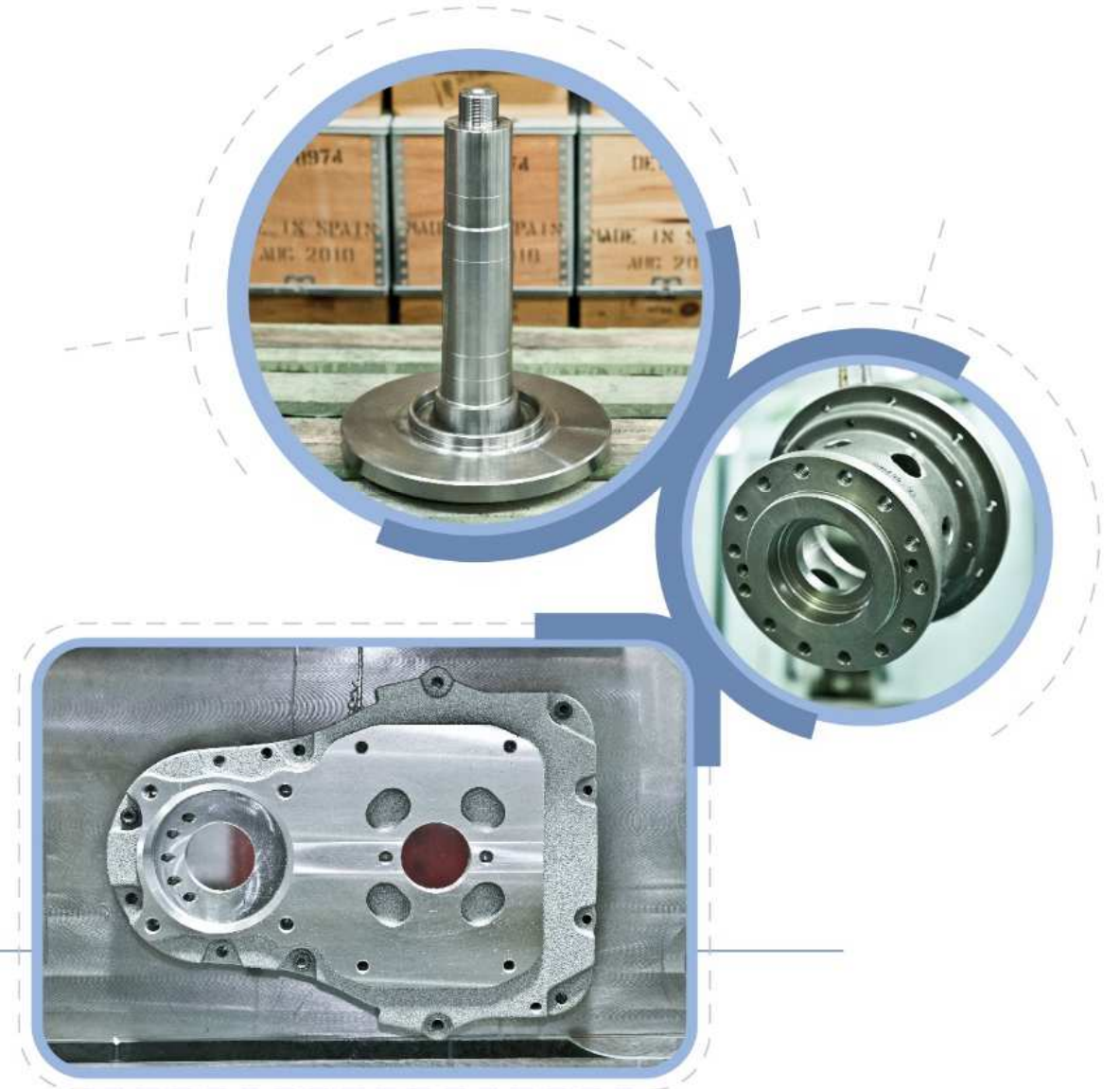
Machining – Product Process

The machinery park of this area with the latest technology consist of:

- CNC lathes
- CNC machining centers
- gear shapers
- broaching machine

We count on highly reliable technology and finishing quality guaranteeing standardization on the highest level.

We are specialists in machining cast iron, aluminum and wrought iron parts, and we have extensive knowledge of the materials we use to optimize the production process.





Our Solutions

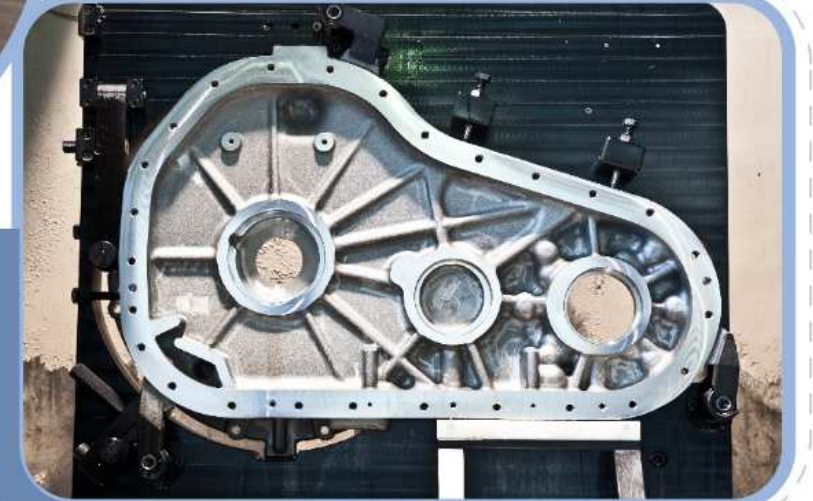


Machining – Products

At Cicar we machine cast iron, aluminum and wrought iron.

Our specialization focuses on:

- Housings and covers of gearboxes, standing out the work with aluminum for Lightweight Solutions.
- Transmission shafts with toothed axles.
- Any type of machined component that requires a premium quality





Our Solutions

Assembly - Installations

The assembly area is divided into 3 different sections:

- **Heavy gearboxes** – for the assembly of complex gear boxes (up to 400 components)
- **Light gearboxes** – for the assembly of less complex gearboxes
- **New assembly section** – at the disposal of new customers for tailor made mini-plants.





Assembly – Production Process

Being specialists in manufacturing **prototypes**, we are able to create a totally new product in short time, however maintaining maximum quality. Our capacity to response is acknowledged by all our customers thanks to our special know how.

At Cicar we produce light gearboxes as well as heavy gearboxes with more than 400 components. In order to guarantee a maximum quality we do after completing the assembly process **three types of tests**:

- Leakage tests
- Running test son the test bench
- Oil tracing tests





Our Solutions

Assembly – Products

In the area of assembly we have the experience and the know how for the manufacturing of the most complex gear boxes.

We do exhaustive testing that guarantees the quality required by the most demanding customers. On the running-in benches all running elements are tested to prove perfect functionality.





Painting - Installations

Cicar added the painting line in 2009 to the existing production facilities. Currently the area is divided into 2 different zones:

- **Painting** – Semi-automatic painting line with a capacity to produce an average output of 250.000 parts per year.
- **Packing**





Painting – Production Process

After finishing the assembly process the gearboxes pass to the painting area, where the last step in the production process occurs.

This final step consists of **several phases** to achieve **optimal adherence**:

- Pre-treatment – The cabine for pre-treatment is subdivided in 3 zones:
- Degreasing and phosphatizing.
- Washing / rinsing.
- Passivation without chrome to achieve maximum adherence.

- Drying – drying serves to eliminate any rest of water on the parts.
- Masking
- Painting – this phase consists of the following steps:
 - Primer application
 - Varnish application
- Drying oven.



Availability of a **system of automatic mixers and electrostatic sprayers** that maintain the painting in optimal conditions. Those sprayers save painting, allow to control accuracy of layers and optimize statistical consumption.



Painting – Products

At the out-feed of the painting line gearboxes are subject to accurate controls and appliance of rigorous traceability of each single unit.





Quality Policy



Quality Policy



QUALITY POLICY

At Cicar we have a strong commitment with the excellence of the product quality. We pursue at all times the **highest quality standards** in each and any process of production. To ensure this we use the **most advanced technical monitoring** means that allow us to achieve the best results and one of the **lowest defect rates** in the market.

At CICAR we have a quality system that holds **ISO 9001 certification**, as well as the most **rigorous quality control systems**.

- Two three-dimensional machines.
- Tool preparation machine.
- Running-in benches.
- Leakage tests.
- Implementation of Poka-yokes.
- Traceability equipment.
- The latest testing and measurement instruments.





Quality Policy

Our quality department works hand in hand with the production department. One of the benefits achieved is our **CICAR program for quality improvement** which consists of the following points:

- Company awareness towards quality.
- Investment into process efficiency.
- Internal audits of products focusing on continuous improvements.
- Kick off of 5S methodology.
- Enhanced sustainability of processes
- Control and improvements at any production step.
- Improvements in process standardization.
- Analysis and improvement of packing of final product.
- Policy of zero defects.





Quality Policy



At Cicar we have the latest technology to guarantee the highest quality standards.

Three-dimensional machine for control of machined components



Tool preparation machine Zoller.



THANK YOU



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