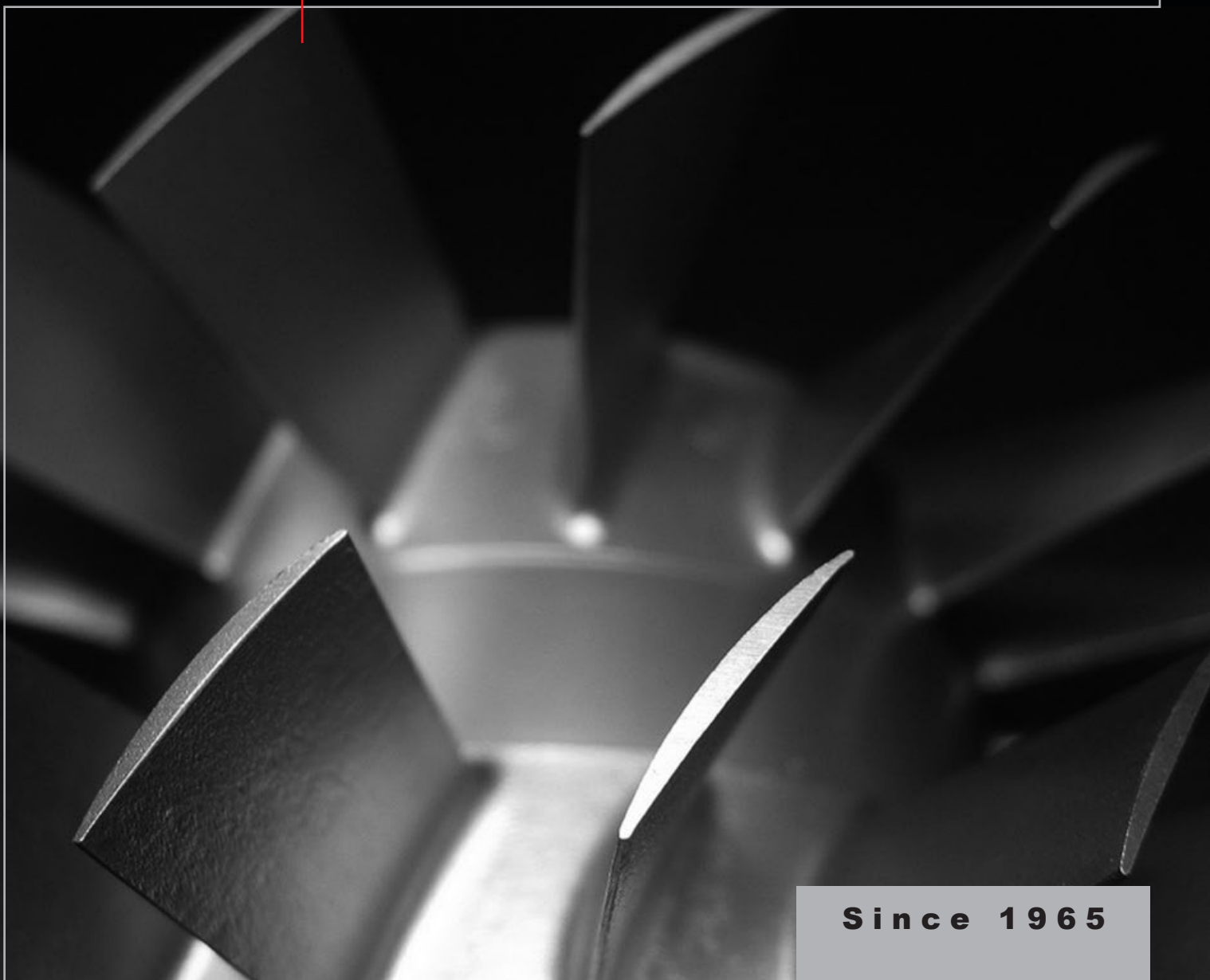


Systems for Surface Finishing

**TURBINE BLADES**

for AIRSPACE and ENERGY



**Since 1965**

**ARCOS has been working in the field of surface finishing since 1965.**

**Let us introduce our company.**

We have always dedicated ourselves to the manufacture of machines and systems universally recognised as synonymous with reliability and the latest technology.

Our technical expertise allows us to develop the latest technology to find solutions to problems in grinding, deburring, polishing, cutting and automation generally.

To understand the secret of our success we would like to show you how ARCOS develops planning and production activities. Initially we start with a careful analysis of our customers needs and requirements. We work closely with our customers to offer them a quick and economical solution to their problems.

CAD planning together with product trials conducted at ARCOS allow us to determine the most cost effective solution for the future.

Once the customer is satisfied with our results we can move to the next stage.

At ARCOS we pride ourselves on the creation of high quality machines and systems. To guarantee this high quality we are continuously developing new state of the art technologies with skilled motivated people using the best possible materials.

We strive to provide cost effective solutions together with the support needed to increase competitive advantage.

These are the foundations to provide reliable innovative machines.

Of course our role does not end with the successful installation of our machines. Our team of qualified technicians guarantees customer service and rapid response wherever our machines are located.

**Our main objective is and always will be the total satisfaction of our customers.**

## ROBOT SYSTEMS for:



**CUTTING BARS OF SPECIAL STEEL**



**DEBURRING RAW BLADES BEFORE THE MECHANICAL PROCESSES**



**GRINDING AND FINISHING THE AIROFOILS**



**CUTTING RAW BLADES FROM THE MICROFOUNDED CLUSTERS**



**Robot system for BLASTING**



**Robot system for PLASMA CUTTING**

## Innovative Technologies of ARCOS

### Offline programming

Our interactive system allows us to plan, realize and verify the working programmes with 3D simulations.

### R&D

Innovation through Research and Development is the foundation for our continued success ensuring solutions to complicated technical problems.

### Constant pressure

Electronic control of grinding deburring, cutting pressure is automatically controlled in relation to the workpiece and surface speed.

### Multipurpose working units

The working units used in our robotic systems are the only ones in the world which can be employed both for grinding and polishing.

### Flexibility

Our machines allow the operator to quickly and easily change from one part to another, as a result they are particularly effective for the handling of small batch quantities.

### Simple to program and operate

Intuitive functions, with a full graphic display, clear messages and dedicated software enable the operator to easily understand our machines.

### Online service

Our machines can be assisted, controlled, managed and programmed directly from our company with a simple online link.

### Safety

All our machines comply with all current CE requirements.



## ARCOS ROBOT SYSTEM for CUTTING, DEBURRING AND GRINDING TURBINE BLADES



All turbine blade manufacturers have to cope with blade **CUTTING, DEBURRING and FINISHING** problems in general.

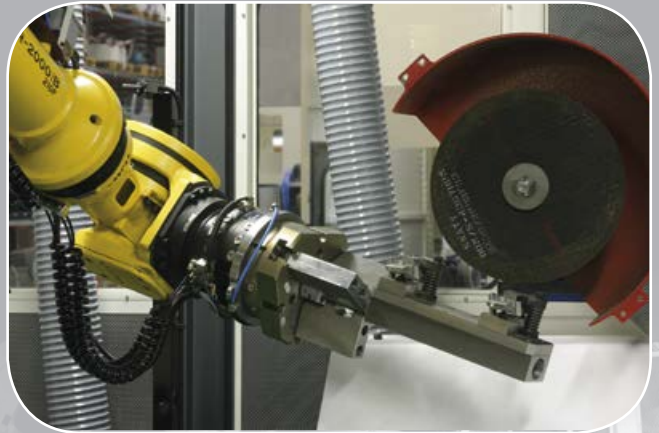
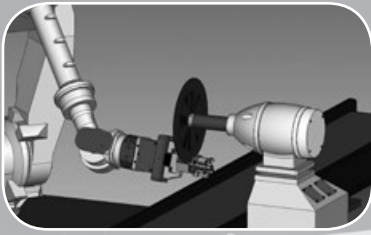
Everyone does it according to its personal method. To meet all the specific needs of each single customer Arcos has realized a robotized system which offers a simple, reliable and cheap solution to all of these problems.





## Robot system for

## CUTTING RAW BLADES FROM THE MICROFOUNDED CLUSTERS



Raw blades cutting from microfounded clusters can be handled in different ways:

- dry or wet (using cooling emulsified water)
- using cutting discs or disc or band blades.

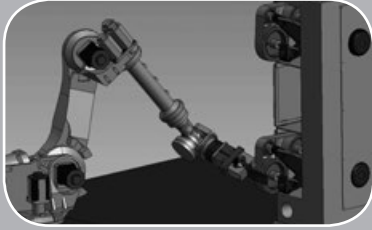
We guarantee our cutting process is:

- totally safe for operators
- it maintains the metallurgic features of blades
- cut pieces are intact and with no dents





## Robot system for DEBURRING RAW BLADES BEFORE THE MECHANICAL PROCESSES EDGE GEOMETRY FORMING



With perfect control of the abrasive belt pressure, ARCOS robotized system can perfectly handle deburring, grinding and finishing of blades within the required tolerance limits.

The same principle is also used by our working units to respect the tolerance limits for blade (inlet and outlet) angles.



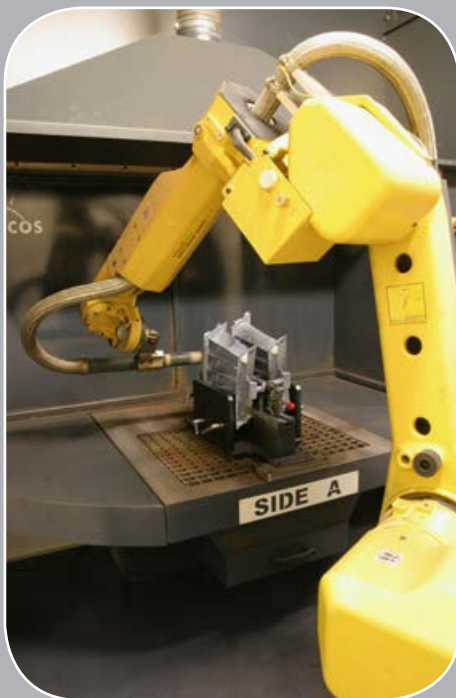
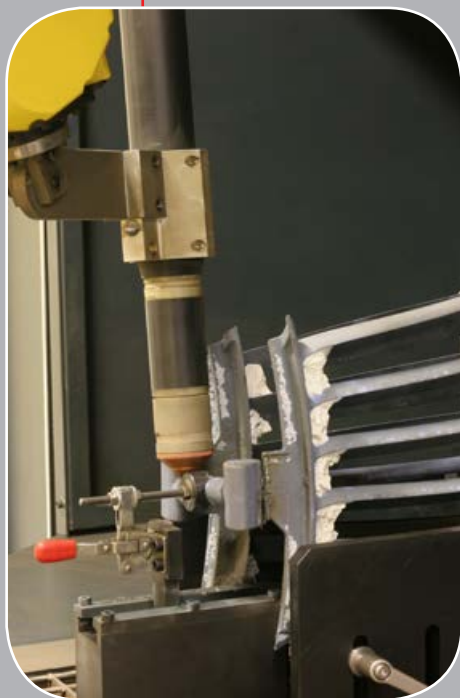
# Robot system for BLASTING





# Robot system for

## PLASMA CUTTING



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