BRD INNOVA BY MECCANICA BORDIGNON



BRD innova

By

stefanobordignon

meccanica di precisione

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# ABOUT US

Founded in 2007 by Stefano Bordignon, the company began by providing subcontract machining services.

Over the years, thanks to our technical expertise, flexibility, continuous technological innovation and constantly evolving know-how, we have specialised in high-quality machining for small and medium production runs.

We operate in a 1,000 m² facility, equipped with state-of-the-art machinery and a warehouse with a wide range of raw materials.


BRD
KENT
SPINNER U1530
18


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# MACHINING

## 3 and 5 axis CNC milling

- Machining of complex geometries
- High precision and repeatability
- Machining of a wide range of materials



## Turning

- Precision turned components
- Small and medium production runs
- Dimensional control and consistent quality



## Grinding

- High-precision finishing
- Tight tolerances and controlled surfaces
- Consistent quality of the finished component



## Vibratory finishing

- Deburring and surface finishing
- Consistent appearance and functionality
- Optimal preparation of the finished component



## MATERIALS

- Aluminium 6060, 6082, 2011, Ergal 7075
- Steel S235, S355, C40 etc.
- Steels K720, 18/20/34/39 NCR, 1.2343, 1.2379, W300, C40/C45, 35 CrNi, UNS 32750
- Bronze and brass
- Stainless steel AISI 304, 310, 316, 410, 420, 430, 431, 440B, 440C, 630, F51, Duplex and Super Duplex
- POM-C, LDPE, PTFE + carb., engineering polymers
- Other materials

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# OUR SERVICES

## Heat treatments

- Hardening
- Post-machining heat treatments
- Component management through to the required final finish



## Surface finishes

- Chrome plating
- Black oxide treatment
- Pickling



## Rapid prototyping

- Prototype manufacturing
- Sampling and pre-series production
- From model to finished component



## 3D scanning & reverse engineering

- 3D scanning of components
- CAD model reconstruction
- Reverse engineering of existing components



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## Laser engraving & marking

- Laser engraving
- Laser marking
- Component identification and traceability




## Assembly & mould manufacturing

- Assembly of mechanical units
- Testing and inspection
- Manufacture and modification of moulds



## Industrial automation & robotics

- Machine tending
- Automated assembly lines
- Custom robotic solutions
- Automated welding



## Software & control

- Software development
- PLC programming
- HMI interfaces
- System integration and support



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# QUALITY CONTROL

Our milled and turned components are inspected using certified manual measuring instruments and Micro 3D coordinate measuring machines.

- Accurate dimensional inspections
- Continuous process verification
- Reliable and traceable results



# INDUSTRIES

- Industrial automation
- Packaging
- Automotive
- Industrial machinery
- Machine tools
- Robotics
- Pharmaceutical
- Aerospace
- Food industry (MOCA certification)

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# TECHNOLOGIES & MACHINERY

## EMCO MAXXMILL 500

- 5-axis machining centre
- X 650 mm, Y 550 mm, Z 500 mm
- 30-tool ISO 40 magazine
- Automated with a 30-pallet Kraken RT30 system



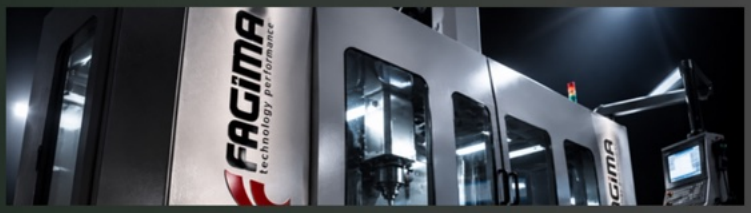

## SPINNER U5-1530

- 5-axis machining centre
- X 1530 mm, Y 530 mm, Z 465 mm
- 32-tool ISO 40 magazine



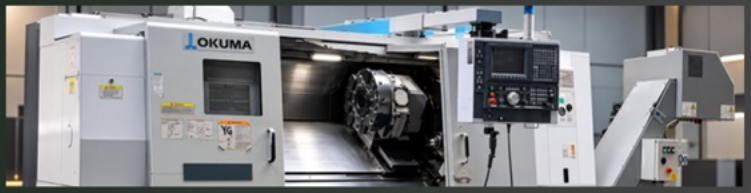

## FAGIMA FAST 160-320

- 3-axis machining centre
- X 3200 mm, Y 800 mm, Z 800 mm
- Partition for continuous production
- 38-tool ISO 40 magazine




## OKUMA LB 300

- Automatic horizontal lathe
- Maximum turning diameter: 370 mm
- Maximum turning length: 500 mm
- Distance between centres: 500 mm




## EUMACH SUMO 1100

- 3-axis machining centre
- X 1100 mm, Y 700 mm, Z 650 mm
- 24-tool ISO 40 magazine



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# CUSTOM AUTOMATION

## What we can create

- Custom robotic solutions
- Automation of repetitive processes
- Integration with existing machines and systems
- Reduced downtime
- Greater safety and fewer errors

## Objectives

- Increase productivity
- Free people from repetitive tasks
- Make processes more efficient and traceable



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# HOW WE WORK

## Process analysis

We assess workflows, critical issues and downtime.

## Design

We define layout, mechanics, safety and integration.

## Simulation & digital twin

We validate movements, clearances
and cycle times before implementation.

## Software & control

PLC, HMI and control logic developed
specifically for the process.

## Integration & Commissioning

Assembly, testing, commissioning and support.



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# KRAKEN RT30

Up to
**30 pallets**

Maximum payload
**250 kg**

Pallet change
**= 80 s**

Continuous production
**24/7**

Pallet
**500x400x500 mm**

Positioning repeatability
**2,5 µm**
with GARANT ZeroClamp

**+160%**
Productivity increase in a real-world application




## DEDICATED SOFTWARE

**SYNAPSE**
Dynamic production planning with Gantt charts and connection to the company management system.

**SYNERGY**
Machine management, CNC programs and operational support.

MOCA

TÜVRheinland CERTIFIED

Management System ISO 9001:2015

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