



**UMBRA GROUP**

***INDUSTRIAL***

**ACTING FOR  
THE NEXT GENERATION**

# KEY MILESTONES ON PATH TO BE FIRST

1972

1978

The Company starts producing ball screws for the aviation industry

1993

Valter Baldaccini, together with Reno Ortolani and other local investors, organizes the Management Buyout and acquires 100% of Umbra Cuscinetti shares

1996

Acquisition of Kuhn GmbH [DE]

1999

Acquisition of Everett, Umbra Cuscinetti Inc. [Washington - USA]

2008

2011

Acquisition of Präzisionskugeln Eltmann [DE]

2017

Inauguration of the Research Center in Albanella [SA] - IT and acquisition of SERMS srl in Terni [TR] - IT

2018

Acquisition of Linear Motion LLC [Saginaw, Michigan - USA] and AMCo Srl in Foligno [PG] - IT. New company name: UMBRAGROUP S.p.A.

2022



FAG Kugelfischer, Schweinfurt [DE], and GEPI [IT] found Umbra Cuscinetti SpA to produce high-precision bearings



Shareholder base: Managers and employees enter the corporate structure of Umbra Cuscinetti S.p.A.



UMBRAGROUP celebrates its 50th anniversary

Our Mission

***TO BE THE CUSTOMER'S  
INTELLIGENT SUPPLIER  
OF ACTUATORS, BALL  
SCREWS, BEARINGS AND  
COMPONENTS IN HIGH-TECH  
MARKETS.***

Our Vision

***AGILE, PASSIONATE  
PARTNER REVOLUTIONIZING  
MOTION SOLUTION.***

A lighthouse with a white lantern room and a stone tower stands on a dark, rocky island in the middle of a deep blue ocean. The sky is a clear, vibrant blue. The lighthouse is illuminated from within, casting a warm glow. The overall scene is serene and inspiring.

Our Values

# ***WE WORK TO BE FIRST***

Our values are clear  
and non-negotiable.

They inspire our work every day  
and are shared with every person  
on our team.

### **Innovation**

We develop new ideas that foster innovation and improvement of processes, skills and interpersonal relationships.

### **Social Responsibility**

We consider our company as a common good, belonging to all our community.

### **Teamwork**

We nurture passion and determination to meet and overcome challenges, in full compliance with our Vision. Our strength is our team!



### **Focus on the customer**

We want to build a lasting partnership based on mutual trust. We listen to our customer's needs to make a difference.

### **Respect**

We create loyal relationships based on trust, engaging professional discussion and the exchange of ideas.

**ITALY**

**GERMANY**

**UNITED STATES**



# TRANSPORTATION

UMBAGROUP offers a wide range of solutions for Transportation with a strong focus on electrification. It's able to satisfy high volumes, high reliability and strict process control.



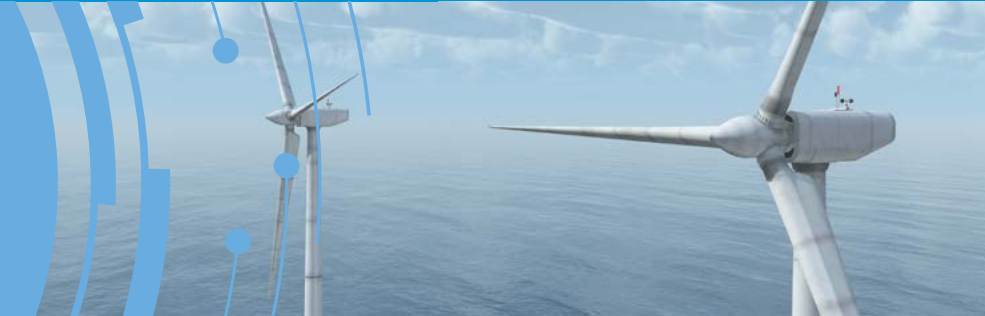
# INDUSTRIAL MACHINERY

The Group has decades of experience in the design and manufacturing for critical components in Industrial Machinery. The UMBAGROUP brand is globally recognized for the quality of its products and the strength of its services.



# ENERGY

UMBAGROUP is focused on sustainability and energy efficiency. Electromechanical actuators designed with the goal of achieving unparalleled performance by supporting the customer in reducing consumption.



# HEALTH CARE

The Group can offer solutions for Health Care application using micro ball screws and sub-assemblies with a high level of compactness and precision.



# AFTERMARKET & SERVICES

UMBAGROUP's Aftermarket division is dedicated to continuously support the customer for the entire life cycle of our products. The company can also guarantee in-house heat treatments and special processes.



# PRODUCT LINE



## **ACTUATION**

ACTUATION includes UMBRAGROUP products used in Industrial Automation, both for linear and rotary movements in a variety of applications including Machine Tools, Sheet Metal Bending, Laser Cutting, Presses and Forging.

All UMBRAGROUP products for this sector are characterized by high performance in small dimensions.

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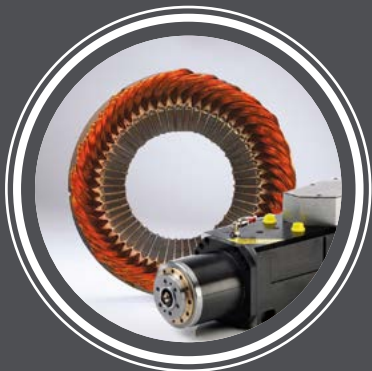


## **TRANSMISSION**

TRANSMISSION includes UMBRAGROUP products used in the Power Transmission sector.

There are both high quality parts such as balls, shafts and gears but also more complex items such as bearings, a flagship product of UMBRAGROUP.

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## **HIGH-SPEED ROTARY SYSTEM**

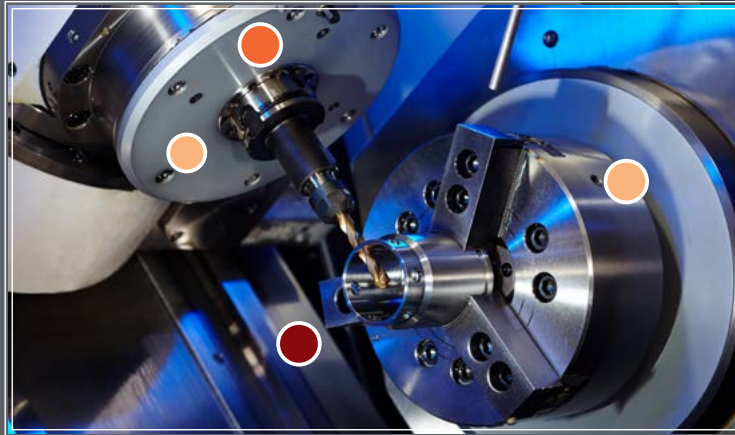
HIGH-SPEED ROTARY SYSTEMS include both milling and grinding electrospindles but also electric motors with special dimensions and technical characteristics.

# PRODUCT PORTFOLIO



# INDUSTRIAL MACHINERY

## Machine Tools



- Grinding • Transfer • Turning • Rotary Table
- Electro Discharge Machine • Wood/Al • Marble/Glass
- Waterjet • Milling • Additive Manufacturing • Nesting
- Flowforming • Peeling • Lapping

## Plastic



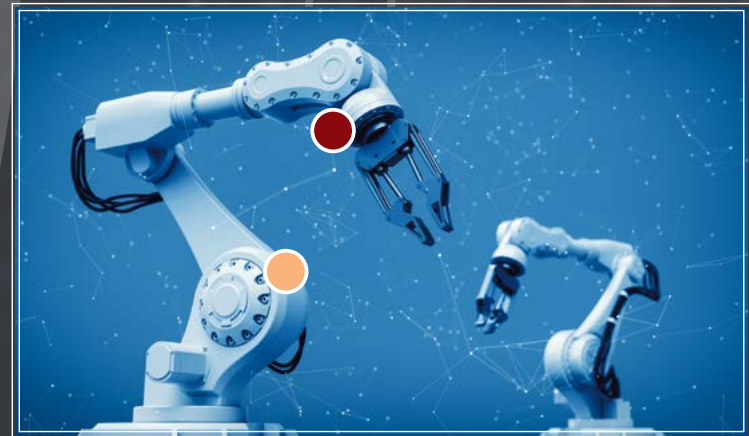
- Injection • Blow Molding • Hot Runner • Thermoforming

## Deformation



- Wire and Tube • Bending • Punching • Laser Cutting
- Ring Rolling • Straightening • Metal Sheet Rolling
- Panel Bender • Welding • Die Casting • Bar Rolling • Presses

## Automation



- Packaging • Robot • Semiconductor • Winding • Brake

● Ball Screws    ● Bearings    ● Electerspindles    ● EMA

# TRANSPORTATION

## Railway



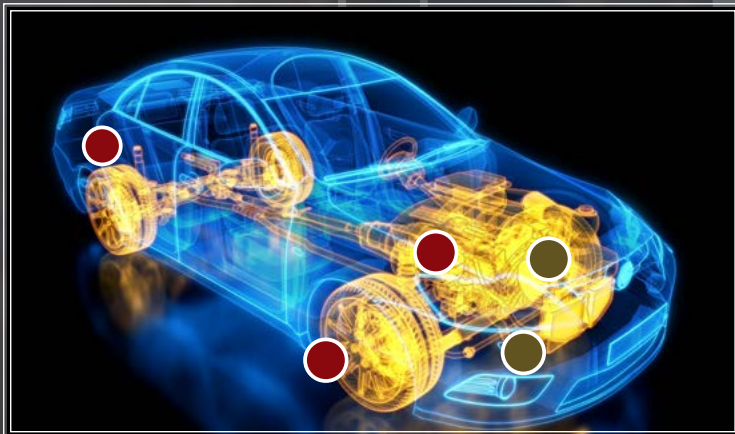
- Power Train
- Switching Point

## Automotive (Off Road)



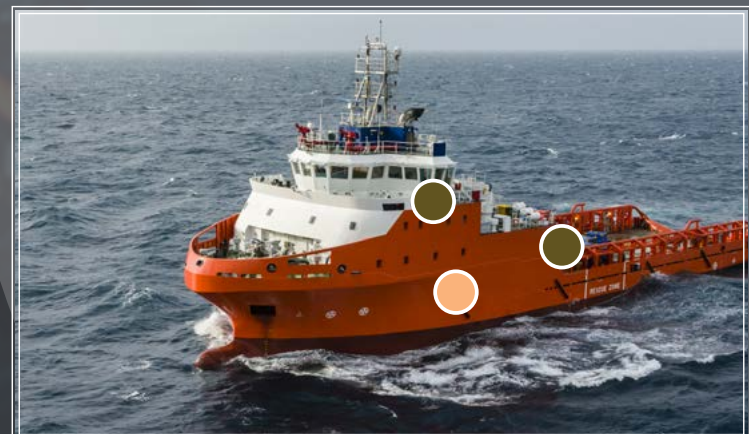
- Steer By Wire
- Lift System
- Side Loaders

## Automotive



- Dampers
- Brakes By Wire
- Steer By Wire

## Naval



- Stabilizers
- Thrusters



Ball Screws



Bearings



EMA

# ENERGY

## Conventional



- High Precision & High Load Motion Systems

## Renewable



- High Precision & High Load Motion Systems
- High Load Pumps • Generators



Ball Screws



Bearings



EMA

# HEALTH CARE

## Biomedical



- High Precision Pumps

## Medical Instruments



- Positioning Systems



Ball Screws



Bearings



EMA

# TECHNOLOGY FOCUS

## STEEL BALLS



UMBRAGROUP's Präzisionskugeln Eltmann GmbH facility in Germany is specialized in the production of high-quality steel balls. They are made with materials sourced from qualified suppliers to the highest standards and manufactured using innovative production systems. UMBRAGROUP manufactures steel balls used in a wide range of Industrial and Aerospace applications.

Fifty years of Industrial-sector experience has made UMBRAGROUP a premier ball screw supplier. Our design and manufacturing is focused on solving specific application requirements such as: high axis linear speed, high acceleration and high load. The Group has the capability to design and produce Industrial ball screws able to respond to a dynamic and challenging market with a wide range of product families.



## BALL SCREWS

## BEARINGS



UMBRAGROUP is highly experienced in bearings manufacturing. The headquarters, founded in 1972, has always distinguished itself in the production and design of medium and large-sized bearings.

# TECHNOLOGY FOCUS

## ELECTROMECHANICAL ACTUATORS



### LINEAR

UMBAGROUP designs and manufactures compact, efficient and flexible linear actuators. The capability to design all actuator components leads to high performance and power density systems. The main design goal is the development of compact high-efficiency systems suitable for a wide range of applications and operating conditions.

### ROTARY

UMBAGROUP designs and manufactures rotary actuators with performance exceeding market standards for heavy duty applications.

## ELECTROSPINDLES



UMBAGROUP designs and manufactures electrospindles for a wide range of applications such as light and heavy milling, grinding, woodworking, stoneworking and glassworking. Compact solutions designed to provide a significant torque power range.

# TECHNOLOGY FOCUS

## SUSTAINABILITY

Design guidelines that increase the eco-sustainability of products:

- *Recyclable materials*
- *Repairable items*
- *Sustainable materials and processes*
- *Extended life [Total quality and design for robustness]*

ISO 50001 [System for Energy management Optimization]

Digitalization:

- *Paperless approach*
- *Time, Communication and logistic optimization*  
*[Internal and External]*

Local Supply Chain [LSC].

Local for Local business approach.

Energy Saving [Internal actions to reduce consumption, home office, e-mobility].

Internal revamping of old Machines by UMBRAGROUP Tech Inside philosophy.



# TECHNOLOGY FOCUS

## **ELECTRIFICATION**

Integrating different actuation technologies in designing more electric systems, taking advantage of a remarkable specialized knowledge on all the rolling elements design and production.



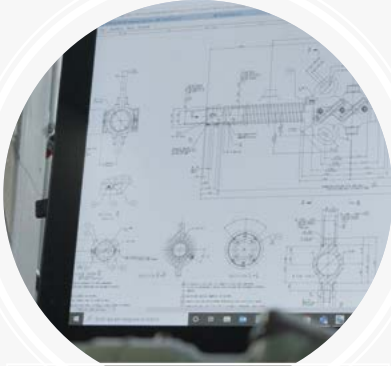
## **COMPETITIVENESS**

Laying the foundations for the definition of a new standard of electromechanical actuators removing all the maintenance tasks, using health monitoring technologies and reducing the overall life cycle cost.



# INTEGRATED PROCESSES AND CAPABILITIES

*One unique management system*



## DESIGN AND DEVELOPMENT

- Detail Design
- Electric Design
- Electronics & Software
- Functional Analysis
- Maintainability
- Reliability
- Safety
- Stress Analysis
- Thermal Analysis
- Verification & Validation



## FAST PROTOTYPING

- 3D Measurements
- Advanced Robotics
- Assembly
- Tooling



## INDUSTRIALIZATION

- Built-to-Print Industrialization
- Fixtures
- Internal Specifications
- Manufacturing Sketches
- Operative Procedures
- Routing
- Process PFMEA
- Production Part Approval Process (PPAP)



## MACHINING

- CNC Lathe
- Conventional Lathe
- Grinding
- Haper
- Honing Machine
- Milling
- Precision Deep Drilling
- Turning
- Whirling

# INTEGRATED PROCESSES AND CAPABILITIES

*One unique management system*



## SPECIAL PROCESSES NADCAP

Anodizing  
Black Oxide Coating  
Chromium Plating  
Chromic and Sulfuric Anodizing  
Copper Plating  
Gas Nitriding  
Gas Carburizing  
Hardening and Tempering  
Induction Hardening  
Low Pressure Hardening  
Low Pressure Carburizing  
Passivation  
Precipitation Hardening  
Phosphate Coating  
Zinc-Nickel Plating



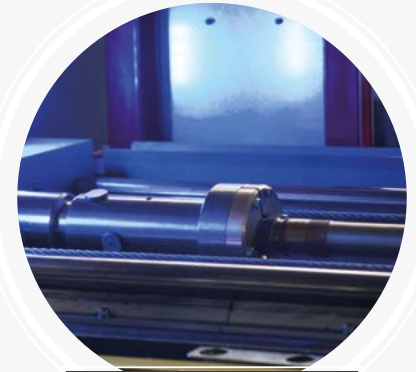
## ENVIRONMENTAL & STRUCTURAL TESTS

Combined Vibration  
+ Temperature Test  
Dynamic Load Tests  
Endurance Test  
Environmental Test Limit  
Fatigue Test  
HALT Test  
Noise Test  
Operational Shock and Crash Safety  
Performances Test  
Ultimate Load Test  
Vibration Test



## EMI TESTS

Audio  
Frequency Conducted Susceptibility  
Electrostatic Discharge  
Emission of Radio Frequency  
Energy - Radiated and Conducted  
Magnetic Effect  
Power Input  
Radio Frequency Susceptibility  
- Conducted  
Voltage Spike



## SERVICE & SUPPORT

2 Repair Stations  
AOG Service  
ILS  
Inventory Mgmt

# QUALITY SYSTEM

UMBRAGROUP rigorously works together with its customers, fully responding to their needs and expectations, guaranteeing respect and satisfaction of the contractual agreements in terms of quality, timeliness, costs and always acting in accordance with applicable regulations. This commitment includes the punctual flow-down of the requirements towards your **supply chain**.

UMBRAGROUP is highly motivated to improve the effectiveness and efficiency of management and operational processes, ensuring full compliance of the products and processes to the specifications and regulations applicable to quality and safety.

UMBRAGROUP implements these strategies through its **quality management system**, developed and certified according to the rules: ISO 9001, AS/EN 9100, NADCAP.

## CERTIFICATIONS

- ISO 9001 • ISO 14001 • ISO 45001 • ISO 50001
- EN/AS 9100 • FAA • NADCAP





## ***PRODUCTION SYSTEM***

UMBRAGROUP works cohesively to harmonize and centralize the forecasting, planning, and management of customer orders in all our worldwide locations.

The UMBRAGROUP Production System is based on a set of tools and rules, derived from Lean Production and 6-Sigma principles. It is suitable for managing productive and organizational activities to guarantee on-time-delivery to the Customer, respect for quality targets and reducing waste, with the aim of increasing competitiveness in the market.

It is a group approach oriented to the consolidation and improvement of all business processes aiming for higher efficiency.



# ***OUR PEOPLE***

Developing a new future **TOGETHER**





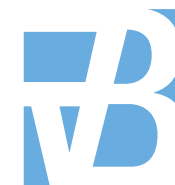
# ***THE VALTER BALDACCINI FOUNDATION***

We strongly believe in the possibility of an ethical approach to economic development, which combines productivity and the centrality of the individual in strategic business decisions.

The Foundation was founded in 2015 to preserve the memory of Valter Baldaccini, founder of UMBRAGROUP, and to continue helping the most vulnerable through social development projects.

**“Together we sowed a great seed  
that will become a great plant”**

*Valter Baldaccini, 09/04/2014*



Fondazione  
Valter Baldaccini

[www.fondazionevb.org/en](http://www.fondazionevb.org/en)





[umbragroup.com](http://umbragroup.com)

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