
NESTECH
on the road to electrify the future
www.nestech.it

Explore NESTECH world

01 ABOUT US

02 PRODUCTS

03 TECHNOLOGIES

04 APPLICATIONS

Shaping The **Future**

Nestech is a Business Unit of Carbonveneta – Nestech – PLD Collettori srl and is a partner in the manufacturing of **laser cut single laminations and complete stator and rotor core stacks with NON-STANDARD geometries** for electric motors and generators.

Roberto Movio
Sales

Dino Pesavento
Administration
Technical - Sales

Luciano Pesavento
Purchasing
Quality - Production

4 mln
eur turnover

2.000 sqm
production area

65%
export

300 tons/year
sheet metal processed

26
employees

0,1÷2 mm
thickness range

NESTECH

we OFFER

our customers high quality products, flexible and fast services, thanks to the experience of our human resources and the high technical level of the equipment.

we HAVE

extensive knowledge and specific expertise in the electromechanical sector, we provide fast prototypes or small series as well as large batches.

Our services

01 MANUFACTURING

- Laser cutting of single laminations
- Manufacturing of rotor / stator core stacks
- Prototypes development
- Special items with NON-STANDARD geometries
- Small series

02 CO-OPERATION & SUPPORT

- Supporto to Maintenance and Service companies
- Co-operation with R&D

e-mobility

CUSTOM-MADE DESIGN
SUPPORT AND MANUFACTURING

01 **Support** to R&D and engineering **during the developing stage of new products.**

02 We are equipped with the **technology and materials necessary for the construction of innovative products**, especially oriented to **Powertrain**, but also to other applications in the E-Mobility sector.

Products

LAMINATIONS LASER CUT

Single laminations laser cut with last generation fiber machines, with low power and high accuracy and repeatability.

Wide range of raw materials available, non-oriented electrical steel (DIN EN 10106) from grade M210-35A until M1000-100A and for high frequency applications (DIN EN 10303) from NO10 until NO35, with different types of coating.

Fast manufacturing times, as investments in cutting tools are not needed.

STATOR STACKS

Stator stacks of different sizes, assembled, turned or grinded to ensure tight tolerances.

Stacks can be welded or glued, with straight or skewed slots, with tie rods and pressing plates. Segmented stator single poles (T sectors), manufactured with extreme precision and accuracy.

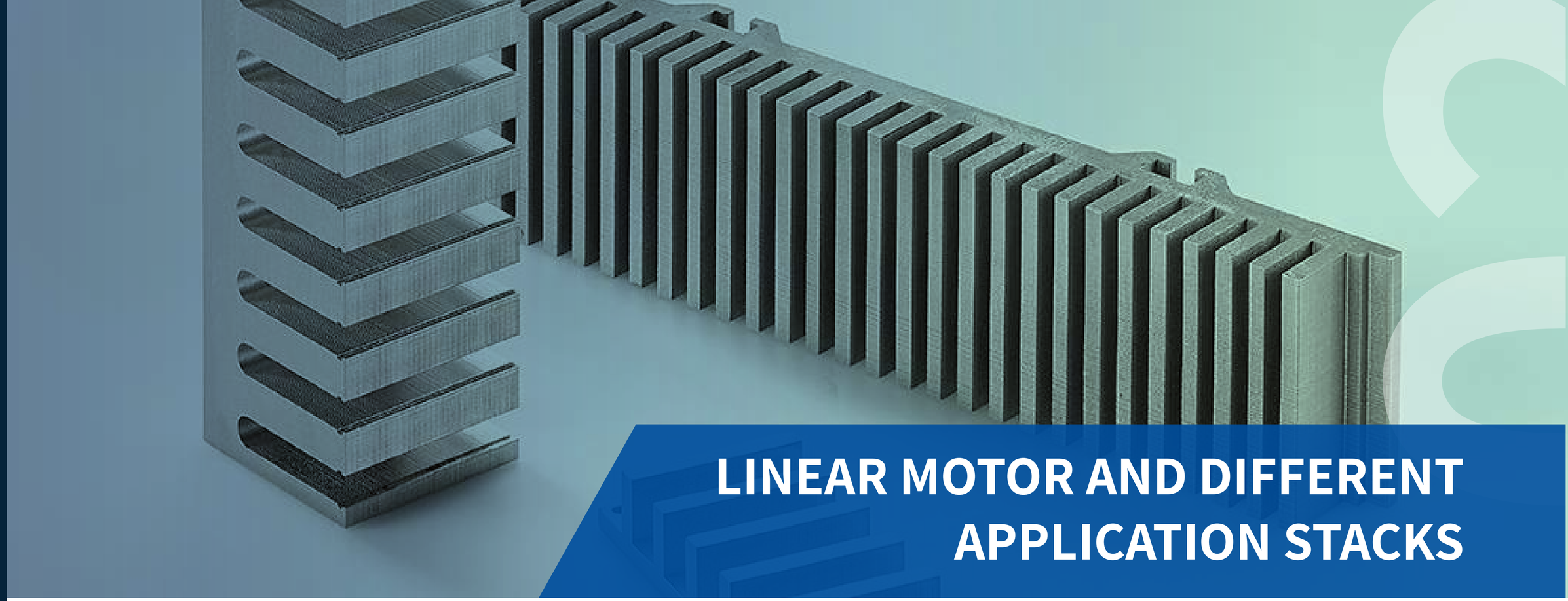
Fast manufacturing times, as investments in cutting tools are not needed.

ROTOR STACKS

Rotor stacks of different sizes, assembled and turned or grinded to ensure tight tolerances.

Stacks can be welded, glued or riveted, complete with aluminum or copper bars soldered to end plates.

Thanks to specialized partners, we can offer die-casted aluminum rotor stacks, even single pieces or small batches.



LINEAR MOTOR AND DIFFERENT APPLICATION STACKS

Stacks of different sizes, with straight or curved profile, either welded or bonded, complete with drilling and grinding of back side.

Cores for several applications, such as stirrers or transformers, complete with pressing plates, tie rods, machining or surface treatments upon request.

On request complete with winding and impregnation.

Technologies
for maximum quality

extreme accuracy
precision

Laser cutting

Latest generation fiber laser cutting system, 2 KW power, accuracy +/- 0.025 mm, 3000x1500 mm working table. Laser beam extremely thin and concentrated, in order to produce precision and accurate laminations.
Ideal for prototyping, small series, special applications and service.

Stacking

Single laminations are stacked with **special tooling**, which is **designed by our Technical Office with 3D software and manufactured specifically for each project**, in order to guarantee the highest quality. Pressing is done by means of tie rods and springs or hydraulic presses, depending on the size and quantity.

Welding

We are equipped with **TIG and MIG welding** for stator or rotor stacks. We can perform **soldering or brazing of aluminum or copper bars** with end plates for rotor stacks.

Bonding

We use **BACKLACK technology** for bonding the stacks. Single laminations are cut from electrical steel pre-insulated with epoxy resin which, with a temperature of about 200 ° C, polymerizes allowing the laminations to be bonded together.

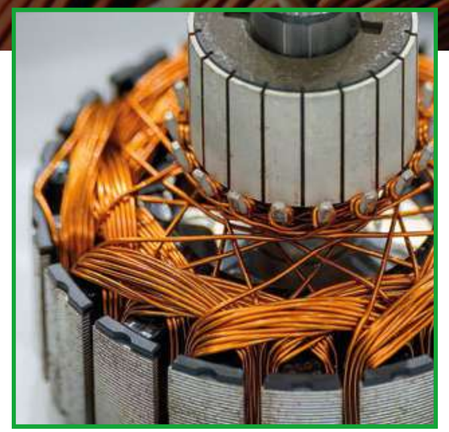
CNC Turning and Machining

Turning is performed on request on the assembled stator and rotor stacks, in order to guarantee tight tolerances. Maximum diameter up to 2000 mm.
CNC machining on assembled stacks.

Windings

Thanks to the cooperation with specialized partners, we can supply **stators or single poles complete with windings.**

WINDINGS

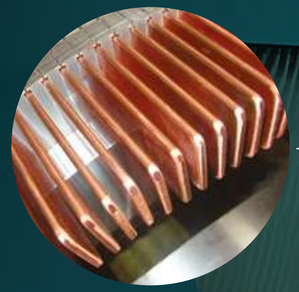


We offer a wide range of **windings** for stator stacks mainly made by hand, especially **for prototypes and non-standard motors.**

Applications

sectors

E-mobility



Maintenance - Service

Industrial Automation

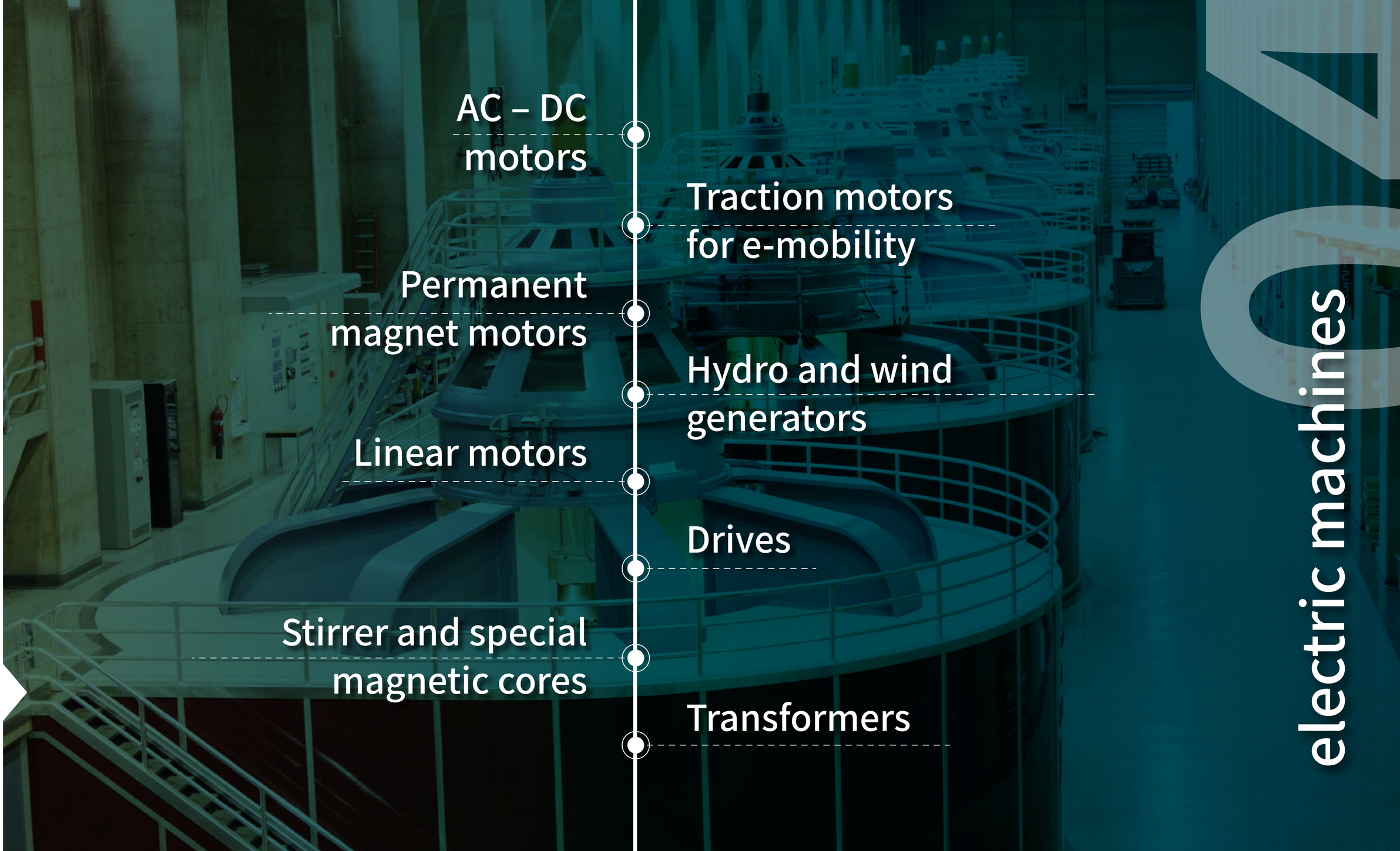
Aerospace and defence

Renewable energies

Oil & Gas

Traction & lifting

Racing



- AC – DC motors
- Traction motors for e-mobility
- Permanent magnet motors
- Hydro and wind generators
- Linear motors
- Drives
- Stirrer and special magnetic cores
- Transformers

electric machines 07

Quality

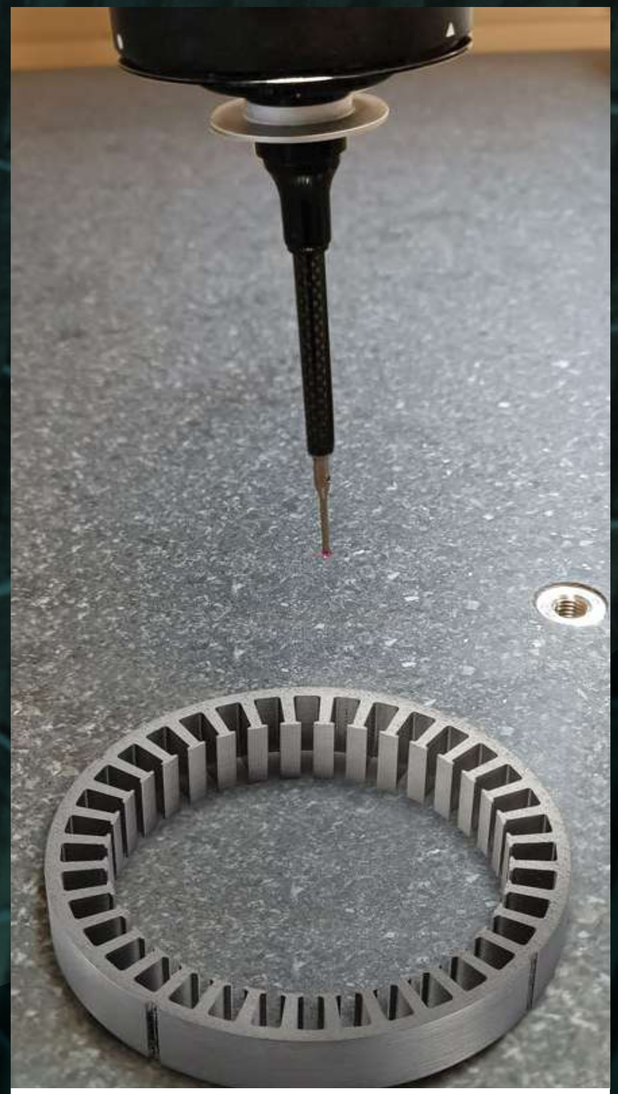
SETTLED AND CERTIFIED

The Company is UNI EN ISO 9001:2015 certified.
A careful selection of suppliers, regular maintenance of machinery and meticulous and scheduled online checks allow us to reach the highest quality standards, satisfying the requests of the most demanding customers.

We are equipped with **Coordinate Measuring Machines, 2D scanning** for single laminations and **3D with mechanical probe** for the stator/rotor stacks, to always ensure a top quality level and certify the parts that are delivered.

The products comply with **ROHS and REACH Directives**.

2D SCANNING



3D WITH MECHANICAL PROBE

Sustainability

ESG POLICY: enviromental, social, governance

The core of our company mission is based on a deep commitment to sustainability, which actually drives to our **plan dedicated to promoting eco-sustainable practices.** As manufacturers of parts for electric motors, we fully understand the essential role we play in building a more sustainable and green future.

Our commitment to sustainability is based on three fundamental pillars: environment, society and governance.

We are committed to reducing the environmental impact of our business through the adoption of **cutting-edge technologies** and **eco-sustainable practices**. In parallel, we actively collaborate with local communities, promoting **social projects** and ensuring an **ethical and inclusive working environment**, so that our economic growth is associated with the values of social and environmental responsibility.

Sustainable innovation

The change for the future is green: our sustainable commitment

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