

PLD

COLLETTORI

COMPANY PRESENTATION



COMPANY



PLD Collettori
was founded in
July, 2002

with the acquisition of Veneta Collettori, a company working in the electric motor sector for over thirty years that has been producing commutators since the '80s.

Intense investment and innovation policy has helped PLD rapidly enter the ranks of the leading Italian companies in the sector and become a European point of reference in the production of both industrial and traction commutators in just a few years.

The assortment offered even for single parts is one of the widest available in the market, starting from standard version motor frame sizes in the 250 / 800 mm range to over 2000 mm for built to measure products.



APPLICATIONS

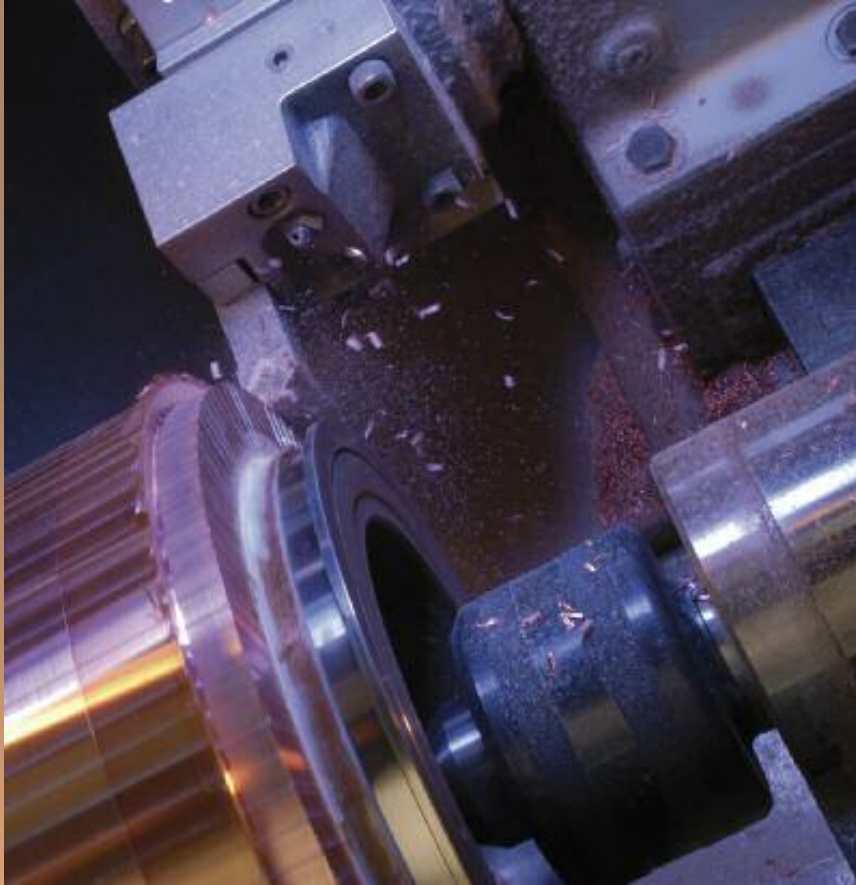
COMMUTATORS

FOR MOTORS AND GENERATORS

- Rolling mills • Trains • Chair-lifts • Cranes • Buses
- Underground trains
- Petrochemical, Paper & Rubber industries



WHY PLD Collettori ?



A small company with the approach and organization of a big corporation.



WHY PLD Collettori ?

A breathing human being answering the phone, not a recorded message

- economic offers reach clients within an average 2 days from request
- everything that affects the product is manufactured inside the company
- 30 years of experience
- the only European producer of commutators that also performs copper plate drawing
- provides the widest range of offer in the market
- builds every single piece to client specifications at the price of mass produced parts
- succeeds in working parts over 2 m in size
- serves as supplier to the largest European DC motor manufacturers
- qualified supplier of TRENITALIA railway traction motors
- dedicates the same attention to the small repairman as the multinational corporation



OUR CLIENTS

From big industry to service.

Why do large Italian and foreign industrial groups contact PLD Collettori?

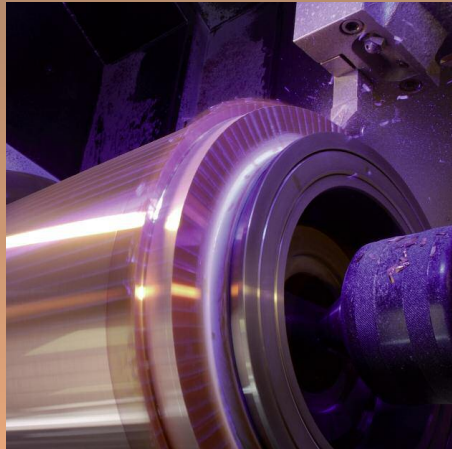
Because they find the organization and approach more typical of a multinational corporation in a small company.

We speak the same language. We solve problems and monitor processes. We design for the client; we are quick in each phase that involves productivity, from the economic offer to material purchasing, execution, and delivery.

The fluidity with which incoming information is transformed into action is perhaps the company's leading strength, and one in which the flat organization chart is placed to best advantage.

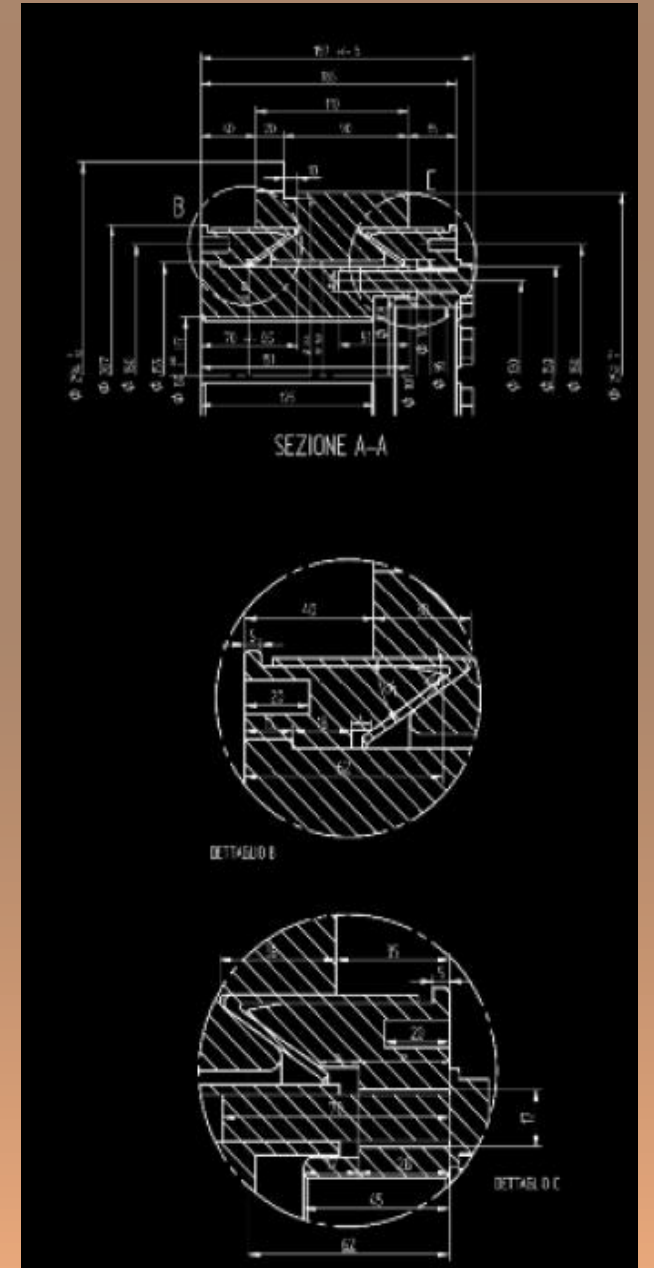
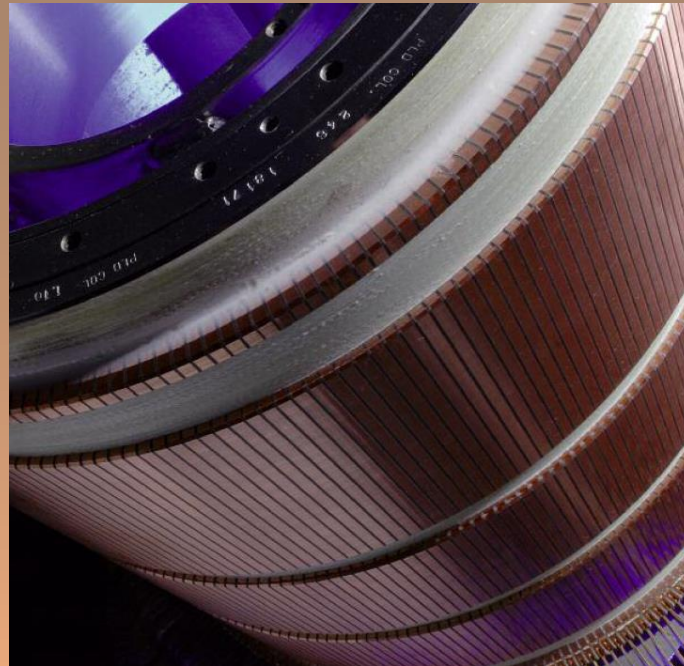
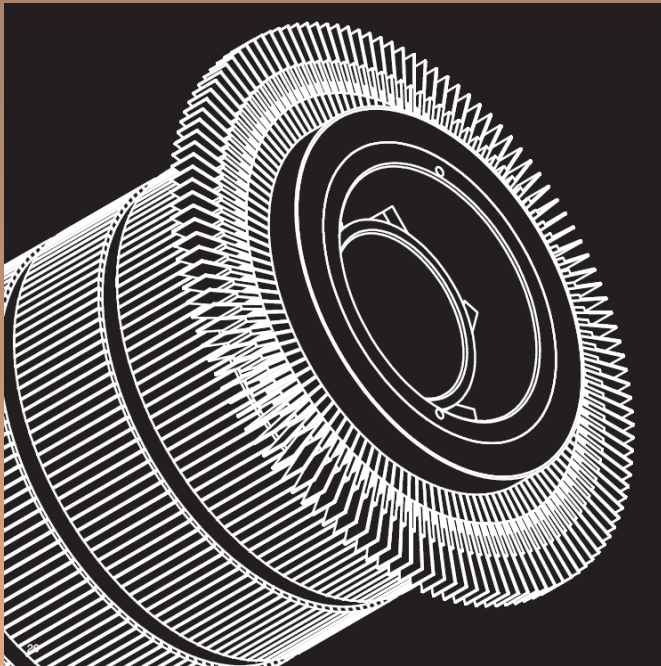
Unique in its kind, PLD Collettori proposes constructive solutions for prototypes, special motors, and motors out of production, and even just one single part when necessary.

That is why both the leading European DC motor manufacturers and small repairmen request our assistance in the development of new models or the retrofitting of older motors.



ENGINEERING

- Each new commutator is designed on a 3D software platform
- 3D dynamic projections provide the best illustration of all the characteristics assumed by the final product. This is currently the best way to emulate reality and eliminate errors in design right from the start and achieve perfection even before the real work begins.
- Virtual reality at the service of tangible reality.



MANUFACTURING

- We just need four ingredients: copper, steel, mica, and ...lots of experience.
- The only company in Europe to perform copper plate drawing itself and with a warehouse always stocked with dozens of tons of extruded metal parts in order to ensure both the maximum flexibility and extremely short delivery times.
- Every process is performed inside the company in order to keep the entire production chain under control and minimize problems and delays.

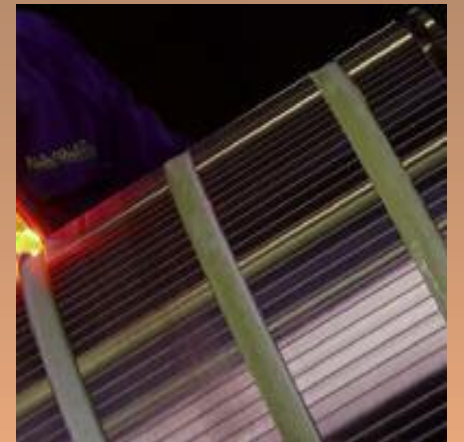


MANUFACTURING

There is a world between a commutator and a good commutator.

Any electro-technology textbook can explain how a commutator is made, but no one on earth can teach you how to build a good one.

Only experience and passion combined with the latest machines and technologies can ensure the best of the current state-of-the-art.



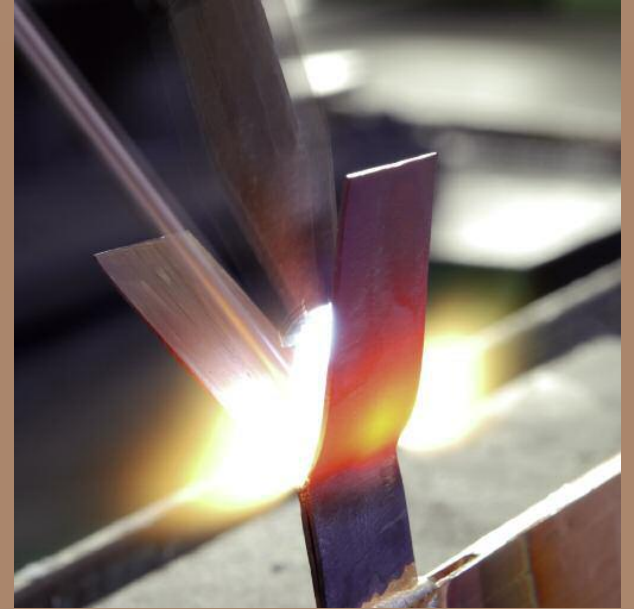
MANUFACTURING

Our technology:

- 3D design
- In-house copper plate drawing
- Silver brazing of flag risers and copper block risers
- Possibility of copper block riser execution
- Working to hundredth of millimeter precision on NC machines to the highest diameters
- Dynamic centrifuge stabilization
- Closing by metal ring or bolts
- Bodies with spokes or cylinders

Possibilities:

- Construction of dies for insulation hoods of any type and size
- Steel or iron casting bodies
- Turning for diameters of up to 3.500 mm. X 5.000 mm.



MANUFACTURING

DOVETAIL

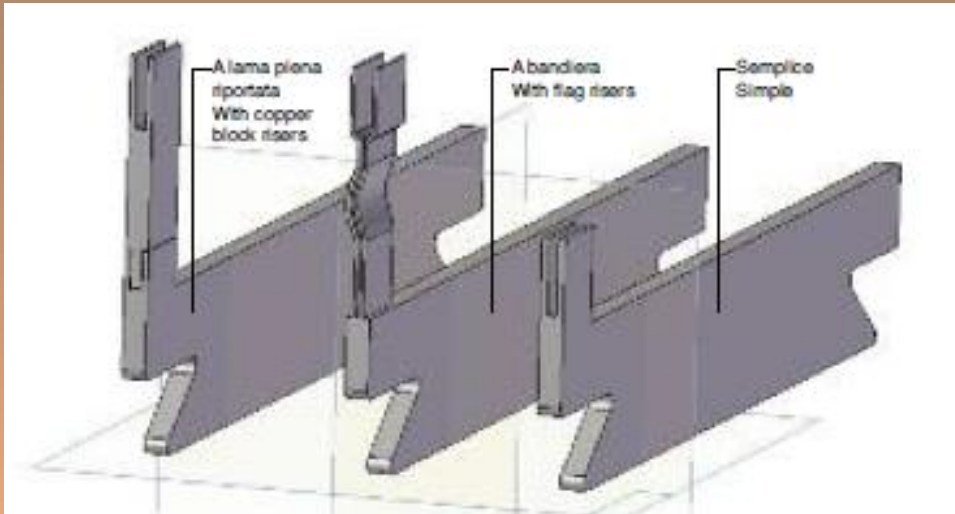


- Simple
- With flag risers
- With copper block risers

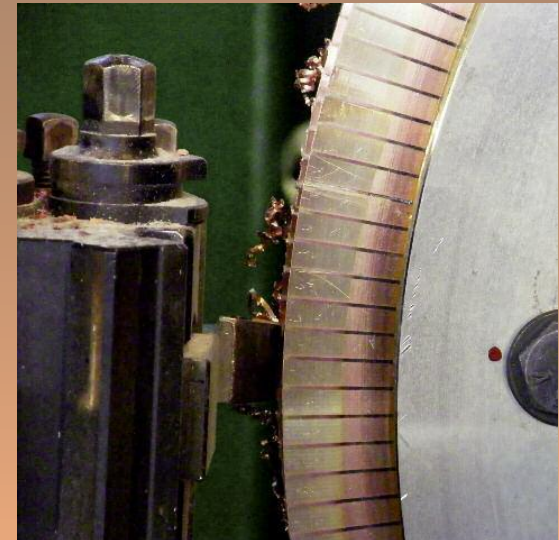
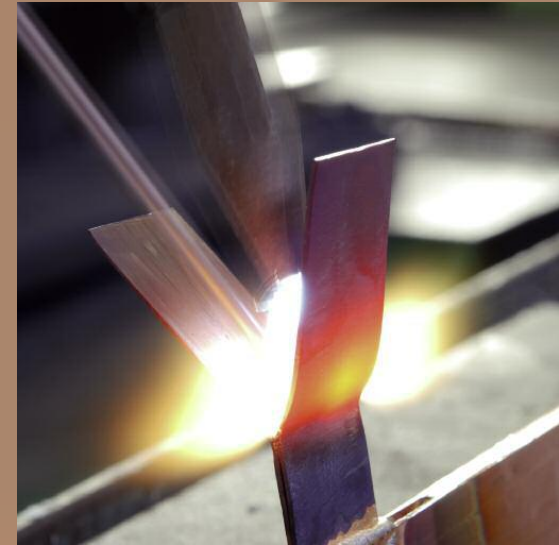
BANDED AND KEYED



- Simple
- With flag risers
- With copper block risers



MANUFACTURING



TESTING

- Dimensional checks
- Segment/segment, segment/ground dielectric test
- Measurement of resistance to ground
- Brinell hardness test
- Check on curing cycles
- Centrifuging in over-speed



WAREHOUSE

The PLD Collettori warehouse usually keeps a stock of:

- 30 / 35 tons of extruded copper in various trapezoidal sections ready to be drawn
- 3.5 / 4.0 tons of mica flakes, pressed and sized in different thicknesses
- 15 / 18 tons of steel pipe ready for cutting In addition, for the most widely used commutators, a number of semifinished steel bodies and the copper necessary for the urgent construction of at least two units are always in stock.



A YOUNG TEAM

A young, highly-motivated, dynamic team that knows how to play together where each member plays at least two different roles in the company and is perfectly aware of the entire productive cycle.

Every single operation performed is the result of over thirty years of experience passed down to the new generations that combines manual craftsmanship skills with state-of-the-art instruments and systems.





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Official supplier :

NIDEC ASI
SIEMENS AG
SICME MOTORI
LDW Lloyd Dynamowerke

Monfalcone
Nürnberg
Torino
Bremen