

Components for a future green power energy



www.rdeuropegroup.com

The products line **Energy** is developed and produced by Compo Tech Co. in order to satisfy the increasing exigency of a complete range of Components for the Energy's Sector.

Energy components are suitable for Motors up to 3.000 KW and Generators up to 6 MW.

The green kite flying on the logo of Compo Tech *energy's* products, its connected to the concepts of innovation, growth and green energy. Moreover it highlights the particular application of these components for the generation of clean energy and the exploitation of renewable resources.

Compo Tech Co *energy* includes the following products:

SLIPRING

Rings Commutators



complete range of Moulded Slip Ring Commutators up to 320 mm for Alternators, Generators and Electrical Motors.



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COMMUTATOR

Moulded Commutators



more than 2.000 kinds of Slotted Commutators and Moulded Commutators up to 400 mm diameter for Electrical Motors



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NYOMAG

Sintered Nd-Fe-B Magnet



high performances sintered Neodymium Iron Boron magnets for DC / AC Motors, Drives, Sensors and Motion Control Systems, Torque Motors, Wind Generators, Industrial Generators and Alternators.



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CALAMITA

Magnets and Fixing Systems



wide range of high performance magnetic systems for components' fixing



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KABLOline

High Tech Cables



Cables for Automation and Robotics, Cables for Alimentation, Power and Signals Cables, Cables for Electronics, High Tech Cables for Motors, Generators and Drives.



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Slip Rings Commutators

Our range includes Moulded Slip Rings Commutators from 10 up to 320 mm of diameter, length until 350 mm , they are homologated at more than 1500 A power and above 10.000 RPM of speed. The produced quantities go from the small ones for sectors Wind Energy sector , to the wide series for Automotive and Industry field. From the smallest Slip Rings for Alternators, to the applications in Electric Generators for Industry, until huge Slip Rings Commutators for Wind Generators from 1 until 2.5 MGW; our products are the best solutions to the various customized applications.

Compared to the actual ring mechanical technology, used from all the constructors, the main advantages of the **Moulded Slip Rings Commutators** are:

- Technology: moulded Commutator
- Ring Material: Steel x10Cr13
- Temperature: from -50°C to + 180°C
- Insulation: Polyester BMC
- Nominal Power: 1.000 A
- Electrical Test: up to 6.000 V
- Best Insulation Resistance
- Montage Speed
- No Maintenance
- Best Quality/Price

Slip Ring for Industrial Generators & Others



Slip Ring for Wind Generators



Slip Ring for Alternators & Spinning Electric Machines



Slotted Commutators and Moulded Commutators

Our range includes more than 3.000 kinds of Commutators for electric motors divided in two lines: **Slotted Commutators** up to 400 mm of diameter and **Hook type Commutators**, until 50 mm. Main row materials are guaranteed by the most qualified suppliers such as:

Silver Copper profile:

Mitsubishi, Habei Anping Alloy Factory, e Jiangsu Taixing Copper Facxtory

Moulding Materials:

Matsushita, Otalite e Sumitomo.

The Commutators undergo intensive testing during the whole production process in order to guarantee a final product qualitatively superior and with optimal performances. Our line COMMUTATOR has DIN EN ISO 9001:2000, QS 900, ISOTS 16949 , ROHS certifications and it has applications in various sectors as Household Appliances, Lift, Wind Energy , Industry and Automotive for powers from 3 W to 2.000 KW and couples from 0.5 N /cm p to 30.000 N/m. From the smallest **Hook Commutators** for professional home appliances, to **Slotted Commutators** for big industrial D.C Motors and rolling electrical machines, we can provide the right solution for the most innovative applications.

Slotted Commutator for Wind, Lift and Industry Motors



Hook Commutator Shell Type for Automotive Motors



Hook Commutators for Home Appliances & Electric Tool Motors

Sintered Nd-Fe-B Magnet

Nyomag, it's a range of high performance sintered Neodymium Iron Bore magnets, particularly indicated for Mini/Micro Wind Generators, Wind Turbines and Electric Motors. For these applications we studied different types of protecting coatings and various thicknesses, depending on the kind of Generator and applications. Coatings as **NiCuNi + Epoxy** or **NiCuNi + Sn** claim a resistance to corrosion in salt fog until 120 hours and in extreme environments with high humidity percentage, they guarantee an optimal coating endurance with the total absence of magnetic flux loss. Coating in **Zn, NiCuNi, Zn-Ni** are also available. **Nyomag** products undergo intensive testing in order to check and better their resistance in unusual environmental conditions. The resistance to corrosion is tested by **Salt Spray Tester**. Always for specific applications in Wind Generators, **Nyomag** is submitted to **Hast Test** in order to check the weight loss under high pressure and humidity level. Average is usually less than 0.09 mg/ cm². For applications in Motors and Generators our magnets can achieve temperatures up to **220 °C**, with options of diametral, radial or through thickness magnetization. Thanks to the high know-how during sintering process **Nyomag**, guarantees until **48 MGOe** of **Maximum Produced Energy** and **Residual Induction** until **1.46 KGs**.



NiCuNi + Sn coating



NiCu Ni + Epoxy coating



Magnet and Fixing Systems

Calamita is a complete line of magnetic assemblies made by a magnet core glue or injected into a steel body. Magnet can be of many qualities as Alnico Neodymium, Ferrite or Samarium according with final application. **Calamita** holding magnets can provide up to thirty times the strength of individual magnets, making them useful in many applications as components' fixing system and in construction, engineering, automotive, electronic , agricultural and **Wind Industries**.

CA

Calamita **CA Type**



CH

Calamita **CH Type**



CF

Calamita **CF Type**



CE

Calamita **CE Type**



High Tech Cables

Processing Equipments and instruments technologically advanced, allow machining and automatic wiring of a wide range of cables, and the assembly of all the type of terminals, connectors, electronic cards. During all wiring production phases, process controls are made verifying traction keeping.



Applications:

- Motors, generators, drives
- Home appliances
- Powertools
- Automotive
- Automation technology
- Medical equipment
- Sensors
- Measuring instruments
- Electro-acoustics

Alimentation Cable ▲

Power cables for Electric Motors and Generators ▶



Signal cables for Electric Motors and Generators ▼



Alimentation Cable ▲





Compo Tech Co, a member of RD EUROPE group, is a leader in the production of Components for Motors & Generators. Strongly thanks to an experience of beyond 15 years in the Electric Motors field, today is a trustworthy partner in Power Energy Components.

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