



**REPAIR AND MAINTENANCE
OF ELECTRICAL ROTATING MACHINES
IN ALTERNATING AND DIRECT CURRENT**

Ever since the beginning of our activity (which now goes back more than 35 years) we have been guided by two basic criteria:

- REPAIRS (TOTAL OR PARTIAL) TO ELECTRICAL MACHINES MUST RESULT IN THE SAME **TECHNICAL RELIABILITY** AS A NEW MACHINE, for which reason:
- materials, techniques and working equipment must be the same;
- guarantees must be substantially identical.
- REPAIRS ARE A SERVICE AND AS SUCH MUST RESPOND TO THE FUNDAMENTAL REQUIREMENTS OF:
- **SWIFTNESS**
- **EFFICIENCY**

Our growth during these years has developed according to these two concepts and the results achieved have rewarded our strong commitment in this direction.



Plant for impregnation with resin under vacuum, capacity 9 cubic metres

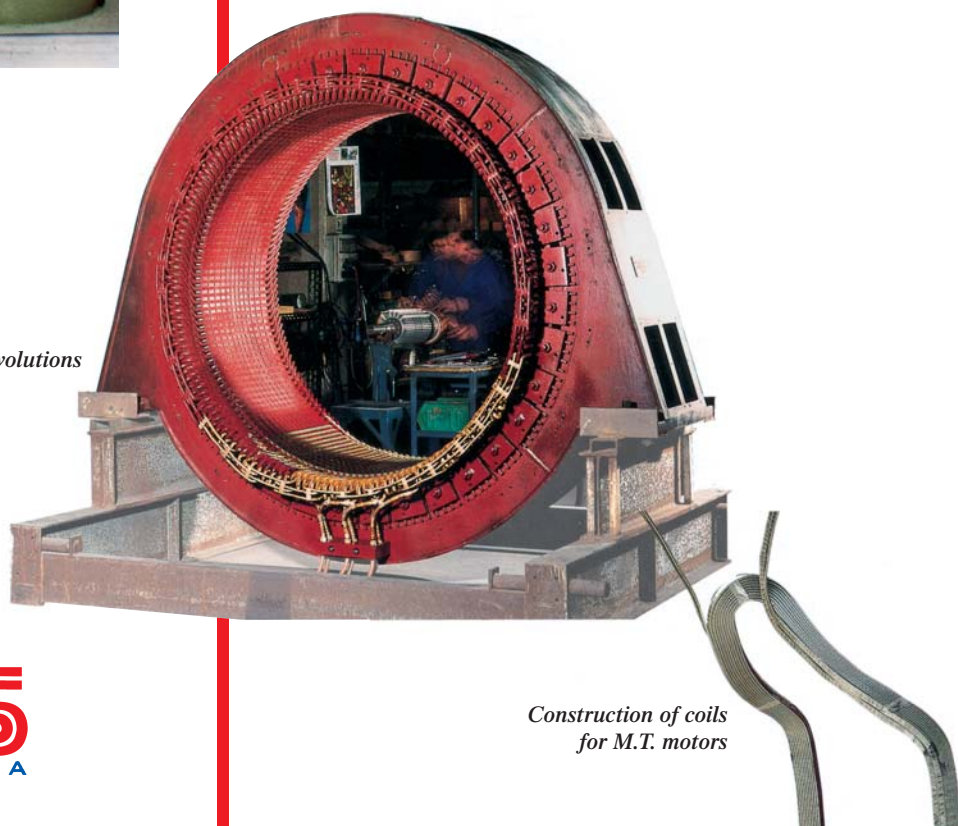
Partial repair of synchronous motor 1800 KW 250 revolutions



Shaping coils for M.T. motors

In our new Bareggio factory which develops over an area of 2,000 sq m, we have installed the most up-to-date equipment for diagnosis, working and trials such as:

- semi-automatic machines for shaping and pre-treating winding zones in strap:
- plant for impregnation in resin under vacuum with capacity of 9 cubic metres
- latest generation pyrolitic oven
- high precision dynamic equilibrators
- utensil machines for working shafts, shields etc.
- testing room for preventive diagnosis
- testing room for trials with variable tension static groups, couplometers for tests with charge up to 250 KW.



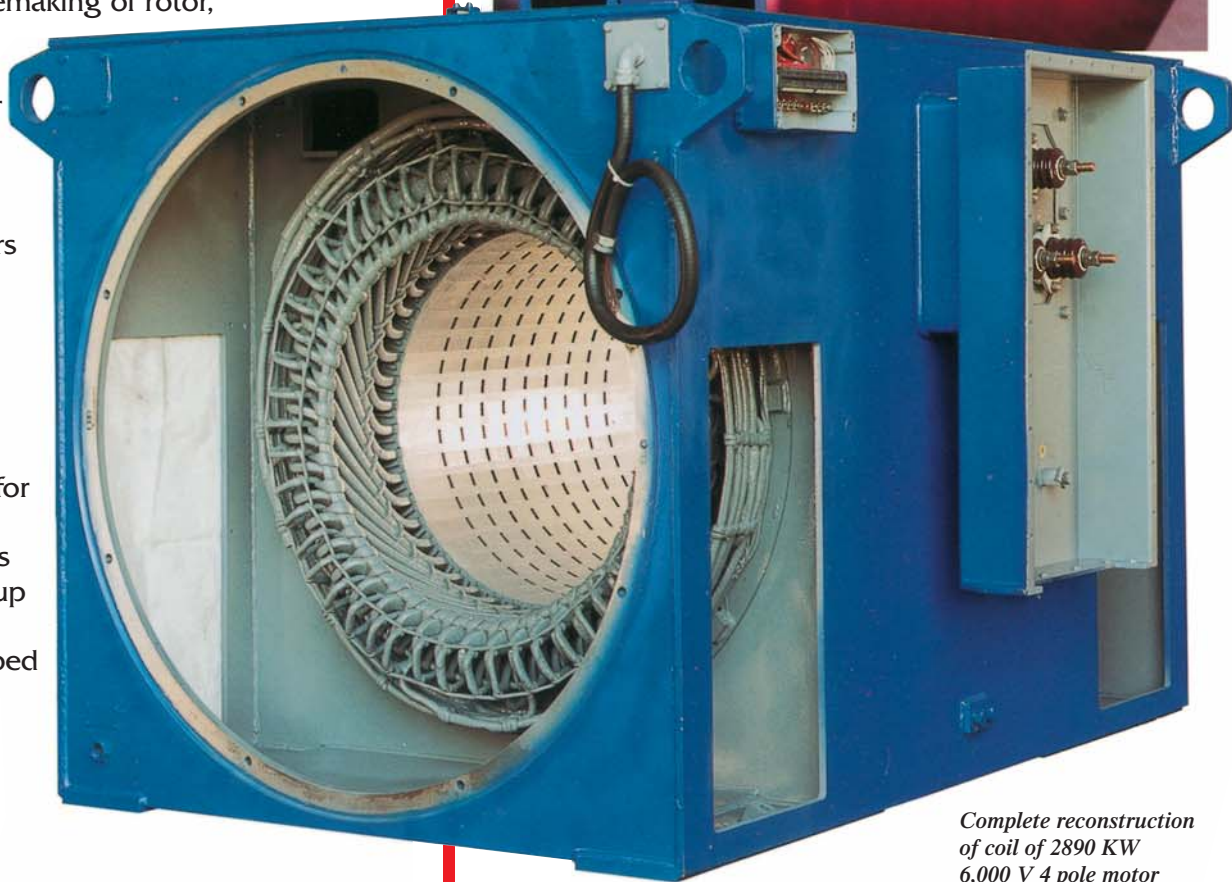
Construction of coils for M.T. motors

In order to ensure an efficient “service” we perform:

- diagnosis of the failure (also on site) and brief technical report
 - quotation of costs with precise delivery commitments
 - if needed, alternative quotation offering – when requested and/or necessary – a motor with similar features (for sale or for use on loan)
- Basic repair activities regard:

ELECTRICAL REPAIRS

- Complete rewinding of direct current machines up to 3,000 KW
- 700 V of coil with remaking of rotor, principal poles and auxiliary poles.
- Replacement and/or repair of collector.
- Rewinding of three-phase asynchronous motors in low tension of the ring type, in short circuit at variable speed (collector motors).
- Rewinding and overhaul of motors for utensil machines.
- Rewinding of motors in medium tension up to 11,000 V and 6,000 KW with shaped and pressed zones in class H.

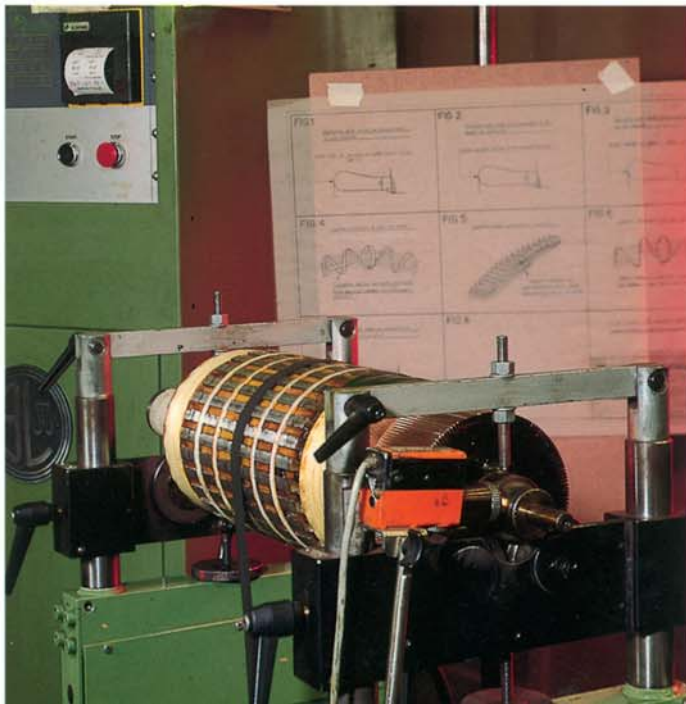


Complete reconstruction of coil of 2890 KW 6,000 V 4 pole motor

Rewinding with reconstitution of collector Rotor of mandril motor.



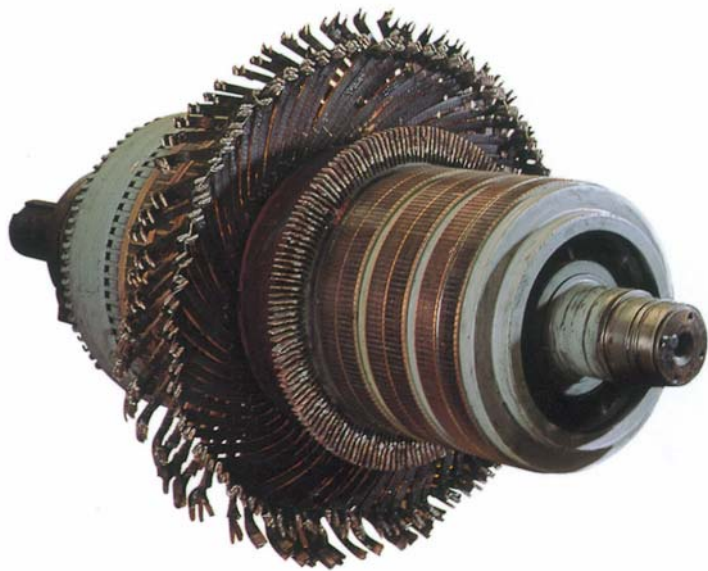
Equilibrating motor electronics



Repairs and overhauls of a mechanical nature are performed on electrical motors:

REPAIRS OF A MECHANICAL NATURE

- Repair or reconstitution of damaged shafts.
- Reconstitution and repair of plate and ring collectors.
- Reconstitution and modification of shields.
- Modification of ventilation and cooling systems.
- Equilibration of rotors, fans, joints etc.
- Remaking and repair of bearings in white metal.



*Reconstitution of rotor revolution of cc. motor
450 KW 800 revolutions 550 V*

The “EMAS SERVICE” offers interesting possibilities:

1) The new and revolutionary MCEmax Gold American technology service of which EMAS has exclusive rights in Italy. This allows performance on site at the end user, without stopping the plant, of electrical-type diagnoses on motors under medium and low tension (polarization index, TG Delta, phase resistance tests, insulation resistance tests).

2) Availability of an **intervention group** at our customers' factories to carry out programmed maintenance work.

The service is offered at advantageous conditions including annual contracts and can include the right to call and obtain service within 24 hours even on holidays and in August.

The service is completed with the supply, at market prices, of spare parts such as brushes, brush carriers, filters, bearings, motor ventilators, tachometric dynamos etc.



EMAS
ELETTROMECCANICA

3) Wide range of completely reconditioned electric machines on special offer available at our offices in Bareggio or at European dimension dealers, covered by our guarantees. New electric motors using both direct and alternating current are also readily available.



Reconstitution of layered and ring collectors and current distributors

LOCAL AGENT

EMAS ELETTROMECCANICA s.r.l.

Operative Offices: Via Gran Sasso, 15/17
20010 BAREGGIO (Milano)

Telephone (02) 90360355/514 - Fax (02) 90360786

Legal Address: Via Carducci, 32 - 20123 MILANO

www.emas-temax.it