

TG EMME SERVICE  
**RAIL MOTOR SERVICE**



[www.tgemmeservice.com](http://www.tgemmeservice.com)



## RAIL MOTOR SERVICE

*Dedicated division specialized in the maintenance of electric motors in the rail transport sector.*

The maintenance and regenerative needs for this type of application of electric motors, both traction and auxiliary, induced **TG EMME Service** to create a division within its structure, with adequately trained personnel and dedicated equipment.

The diagnostic checks and repair procedures in the production process are adequate and comply with the main supply specifications expressly requested by the main users and manufacturers, for this reason TG EMME Service, has decided to obtain the **ISO TS 22163 IRIS Certification**.



**80**  
motors

overhauled  
each year

**+ 150**  
on-board  
auxiliary  
motors

overhauled  
every year

**70**  
traction  
motors

repaired with rewinding  
of parts every year

## **Rail motor Service**

***Systematic overhaul and repair of electric traction motors in A.C. and D.C. for Railways, Underground, Trolleybuses and freight transport.***

TG Emme service srl performs all the operations necessary for systematic revision and complete rewinding of parts.

**Main plants:** Winding machines, taping machines, Test room for load testing, Testing room for mechanical surveys, Molds for the execution of DC stator coils, Balancing machines, commutator cutter and automatic chamfering machine, VPI plant.

***Systematic overhaul and repair of auxiliary electric motors in A.C. and D.C for Railways, Underground, Trolleybuses and freight transport .***

TG Emme service srl performs all the operations necessary for systematic overhaul or repair of small auxiliary electrical machines including:

Ventilation towers, Fans for air conditioning carriages, Alternators, Starter engines for Diesel traction.

## Diagnostic Center

*"We don't just understand what to do, we understand how it happened"*

**TG EMME Service**, equipped with the most modern and appropriate tools for diagnostic surveys, offers:

- ▶ Diagnostic surveys at electrical, mechanical and electronic level.
- ▶ Constantly trained staff.
- ▶ Analysis on low and medium voltage electric motors, gearboxes, drives.
- ▶ Precise, transparent and complete answer.
- ▶ Indication and respect of recovery times.

### **Impregnation VPI (VAACUM PRESSURE IMPREGNATION)**

*The electric motors overhauled or repaired, are subjected to impregnation treatments in the case of new winding or reprep in case of maintenance.*

The execution of an impregnation in a VPI tank with an adequate cycle guarantees the tightness of the insulation, preserves the degradation of the active windings and avoids the formation of mold. For motors installed in particular working environments, a double impregnation cycle is envisaged, in order to guarantee greater sealing thickness.





## Testing Rooms

*Each component Repaired or Overhauled at our Company, is subjected to Static and Dynamic testing.*

Where required or necessary, we **perform dynamic tests at partial or full load.**

Each overhauled component is accompanied by a **test report** that certifies the tests and reports its characteristics.

We have the capability to test electric motors in A.C and D.C. both in low and medium voltage.

## Balancing

*Balancing of regenerated or rewound of rotating parts.*

The rotors are balanced in the class of balancing origin, in compliance with the directives suggested by the legislation to which they belong. Each balanced rotor is accompanied by a bulletin indicating the initial imbalances and the final residue.



## **BE A PARTNER**

***Traction motors, auxiliary motors, load test, in according to the standard IEC 60034 rotating electrical machines***

The construction of new railway and metro lines has led TG EMME to invest more and more

in apparatus, equipment and specific training for its staff, to perform work on traction motors.



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