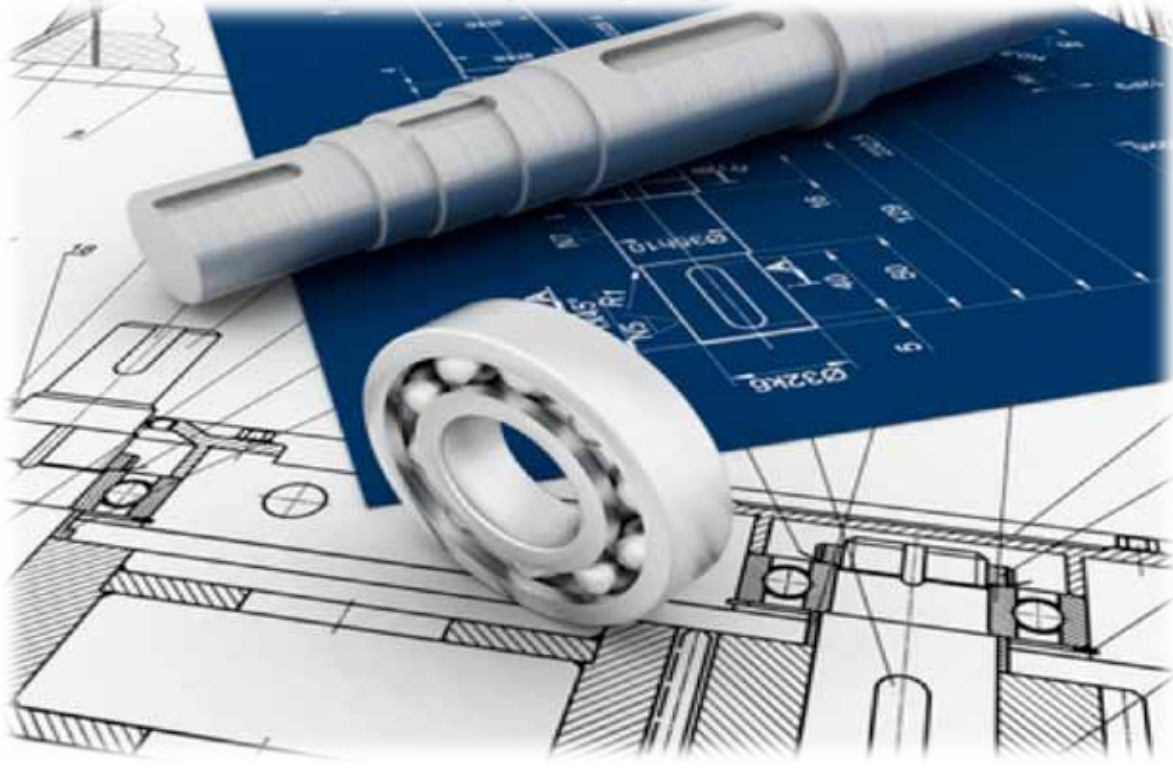
FELM srl

Engineering Company of Electric Motors



ANIE FEDERAZIONE — FEDERAZIONE NAZIONALE IMPRESE ELETTROTECNICHE ED ELETTRONICHE — CONFINDUSTRIA

150° ANNIVERSARIO UNITÀ D'ITALIA

ICIM — CISQ — IQNet

QS — SWISS CERTIFICATION — SCES 061 — ISO 14001

ENERGY CLUSTER MEMBER

Industrial cluster for power generation, transmission and distribution

ENERGY CLUSTER

FELM has been operating in the electric motor sector since 1960 and has a well-consolidated background in the market of electrical machines. Thanks to the considerable experience of its staff, it can guarantee a technical back-up able to satisfy the most sophisticated technical requirements, both installations and maintenance, ensuring an International Service to its customers.

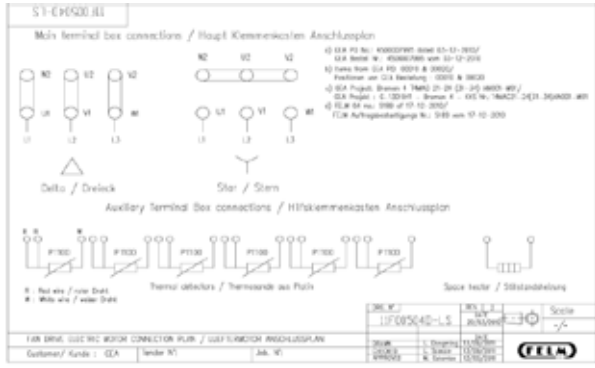
Our offices and warehouse cover an area of 10.000 square meters.
Felm has a large stock, motors from KW 0, 12 up to 800 kW in different speed and thank to this and to the great distribution net can guarantee a good product availability and fast delivery in all Italy and Europe.

New warehouse and workshop 2011

Warehouse and Workshop

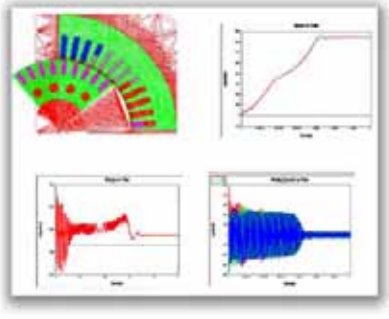
Technical office and Service

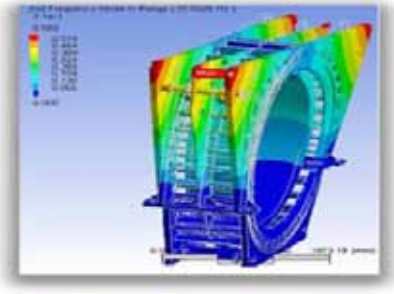
Composed by persons with various experiences matured in manufacturing prestigious companies of electric motors.
Software Programs:
PDF, AutoCAD, DWG , 3D and motors program calculation.

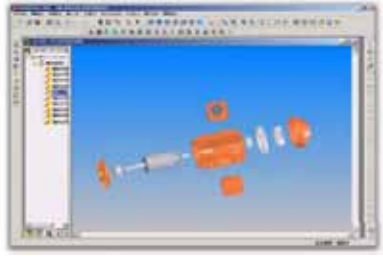


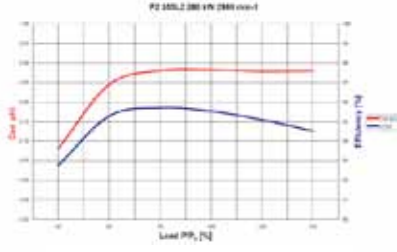
FEA/CAD/CAE

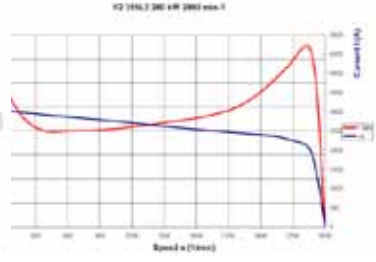
- 3-D CAD (Solidworks)
- Electromagnetic design (Ansoft)
- Mechanical Design (Ansys)

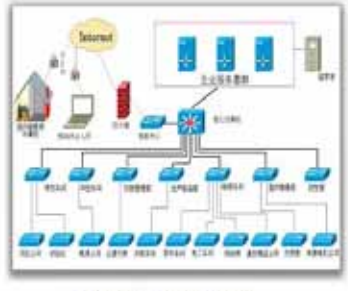




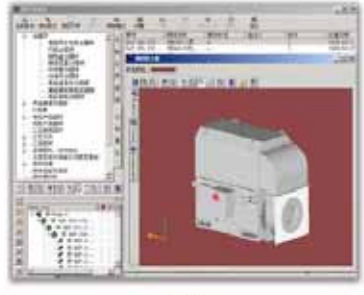








Network Topogram



PDM

Workshop Winding

Low Voltage and High Voltage Motors Winding up to 1000 kW.

Workshop repair

Specialize on Repair and Motors Winding for D.C. and Sleeve Ring Motors.
Specialize on Repair H.V. Motors Windings from 300 to 3 MW.

Specialize on Repair and Low Voltage Motors Winding up to 1000 kW, and brake motors up to 55 kW.

Products

Aluminium housing frame 63 – 180
IE1 - IE2

Cast Iron housing frame 71 – 630
IE1 - IE2
IE3 available on request

Cast Iron housing frame 280 - 630
Inverter Duty Motors

Compact Series
Cast Iron housing frame 315 - 560
Hight Power L.V.

Hight Voltage Motors
Cast Iron housing frame 315 - 630

Hight Voltage Motors frame 355-630
With cooler

Products

Explosion-proof motors

Cast Iron housing/ Aluminium frame 71 – 400 Marine Motors

Hight Voltage Motors frame 355-630 IP23

Cast Iron housing frame 180 – 355
IP23 motors
IE1 – IE2
IE3 available on request

Special Motors frame 63 - 630

Roller Table Motors

Workshop

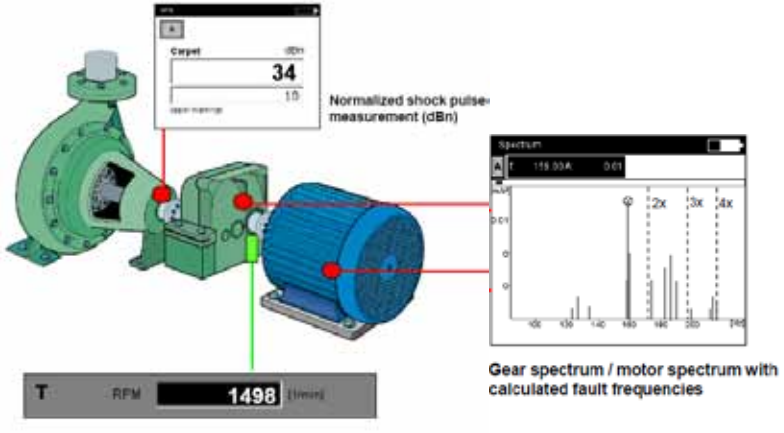
Equipped for modifications on the Electric motors until 2000 kw.
Force-ventilation, application PT100 and Heaters elements on the windings, isolated bearing for inverter use and mechanical modifications.
Specialize on workmanship of special shafts and heavy mechanical workmanship of shafts and sheet.

Workshop Customization Motor

Shape arrangement
Special Forced ventilation
Special cable connection
Special customer request
Special painting
Bearings arrangement
Accessories
Selection of material for heavy environmental conditions

Analysis on site

Preliminary analysis.
Predictive monitoring.
Vibration frequency analysis.
Sound pressure measurement.
Sound pressure octave band analysis.
Check of alignment motor - driven machine.
Wave shape analysis.
Check od dielectric strength.
Insulation resistance measurement.
Polarization index measurement.
Diagnostic functionally to confirm unbalance.
Balancing - built-in ISO balancing grades.
Balancing in Velocity, Acceleration or Displacement.
Different types of balancing corrections: Degrees, fixed mass or location, tape measure, “negative mass”

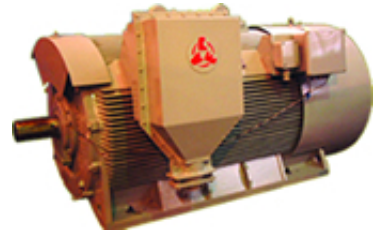


Gear spectrum / motor spectrum with calculated fault frequencies

FELM srl

Allen-Bradley
RELIANCE ELECTRIC
DODGE
ROCKWELL SOFTWARE

Rockwell Automation



NANYANG EXPLOSION PROTECTION GROUP CO., LTD.

References, Experiences and Applications

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CONTATCS

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