



COILS AND ELECTROMAGNETS FOR PARTICLE ACCELERATORS



[www.sef-](http://www.sef-technologies.com)



ABOUT US

SEF manufactures electromagnets used in particle accelerators, mainly synchrotrons and linear accelerators.

Based in the Toulouse area, SEF has over 40 years' unique expertise in this high-tech sector.



Agile team, highly experienced professionals including operators, technicians and engineers



CORE COMPETENCIES

SEF is an expert in producing coils and electromagnets for particle accelerators.

SEF develops prototypes and manufactures products to customer specifications. We control the entire production cycle from magnetic and design studies to delivery of the finished product, guaranteeing optimal production quality, respect for deadlines, and customised solutions.



ENGINEERING



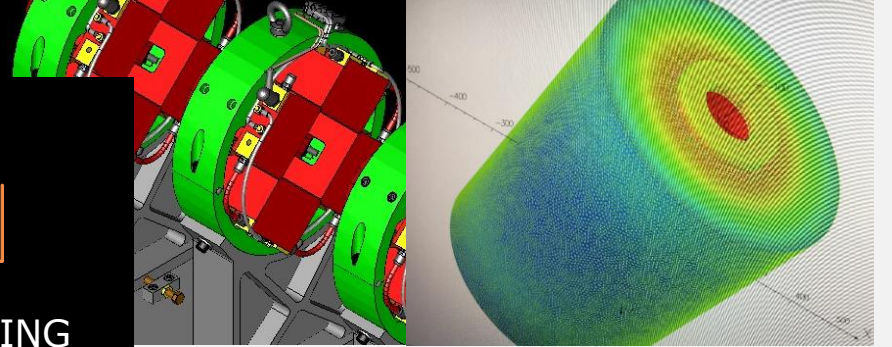
PRODUCTION
OF COILS



MACHINING



ASSEMBLY,
CONTROL
AND TESTING



PRODUCTS

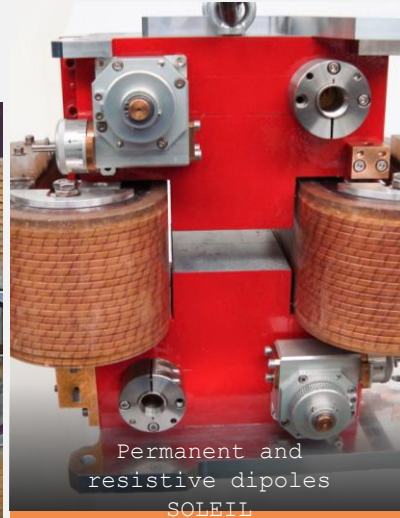
SEF expertise includes the manufacture of the following products:



Octupole CERN

> RESISTIVE MAGNETS

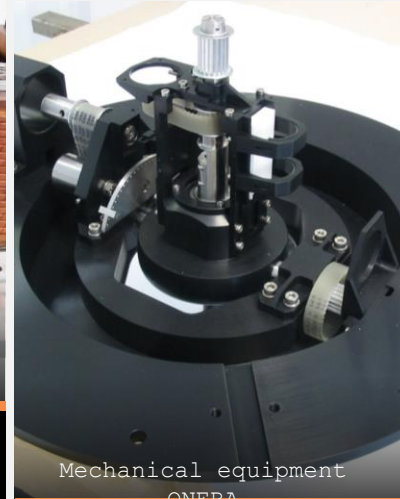
Dipoles, quadrupoles, sextupoles, solenoids, cyclotron main coils, cyclotron correction coils, focusers, inverters, special shaped coils



Permanent and resistive dipoles SOLEIL

> PERMANENT MAGNETS

Dipoles, quadrupoles, inverters



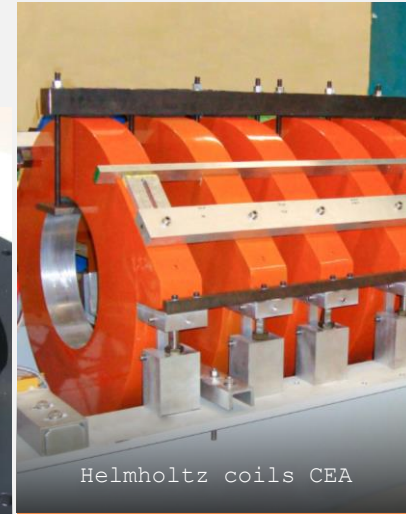
Mechanical equipment ONERA

> MECHANICAL ASSEMBLY

Prototypes of electric motors for aeronautics, automotive, and drone sectors

Venturi injectors

Radar antennas



Helmholtz coils CEA

> INTEGRATION ON INSTALLATION

Installation on customer premises

Equipment integration (ex .: routing device)

EXPERTISE



Technological expertise, human and material resources to handle every aspect of production in its workshops from : finalisation of design to delivery of the finished product.



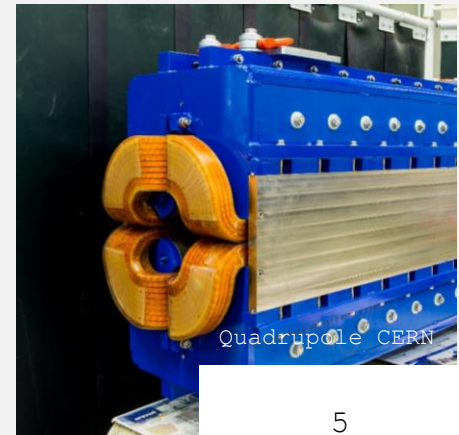
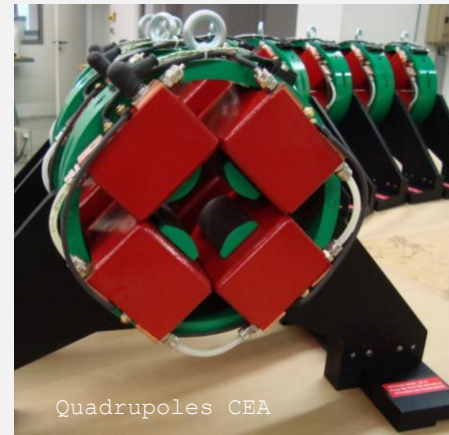
Our magnets comply with very precise specifications and all quality standards required for this type of product: electromagnetic functioning, robustness, and resistance to radiation.



Quality is a key, non-negotiable foundation of our trust-based relationships with our customers,



Expertise combining the excellence of craftsmanship and the rigour of industrial



SYNCHROTRON MARKET

SEF has specialised in **large-scale particle accelerators** (synchrotrons, cyclotrons, linear accelerators..).

SEF has acquired the experience and customer references to be considered for inclusion on fourth generation projects.



THALES

GANIL



MECHANICAL EQUIPMENT MARKET

SEF also produces and assembles **mechanical equipment** for industrial leaders.

AIRBUS
GROUP

SAFRAN

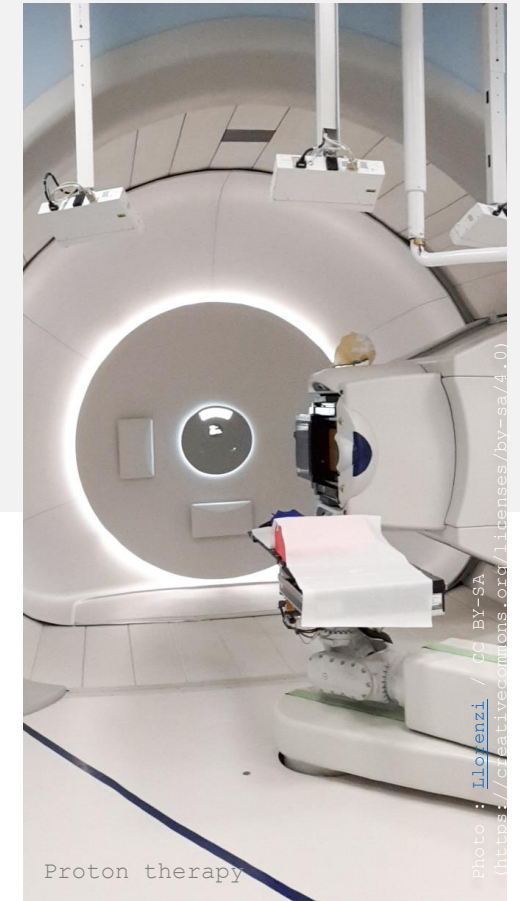
ONERA
THE FRENCH AEROSPACE LAB

TARAMM

SOTEREM

PROTON THERAPY MARKET

Proton therapy, among the many uses of cyclotrons, is a source of considerable hope in cancer treatment. Many centres are being planned throughout the world, and SEF is equipped to become a supplier to players in this sector.



THANK YOU

FOR YOUR ATTENTION

Eric FANIO | CEO

eric.fanio@sef-technologies.com

06 52 61 19 16

Pierre DEGUILHEM | Operations director

pierre.deguilhem@sef-technologies.com

06 22 35 30 67

320 rue du Chêne vert
31670 LABÈGE (Toulouse, FRANCE)

[www.sef-](http://www.sef-technologies.com)

