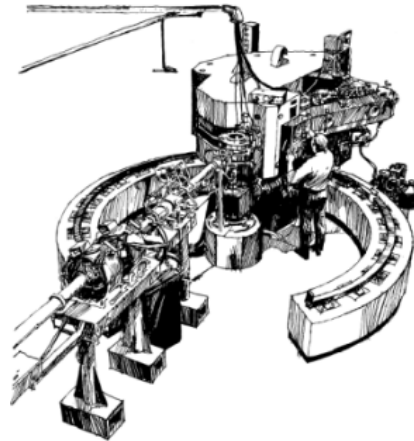
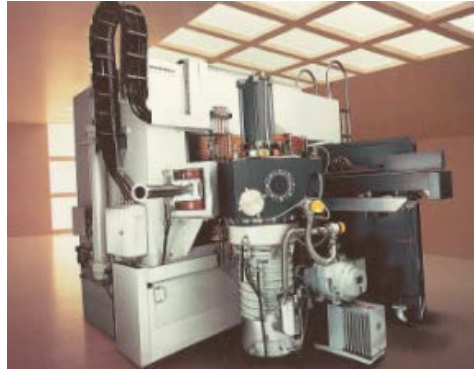


Home of magnets and coils



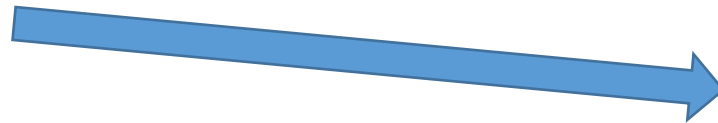
Scanditronix in Uppsala 1965–2005

- Spectrometers
- Cyclotrons
- Microtrons
- PET-Cameras
- Synchrotrons
- Gamma knives
- Electron Beam Irradiators
- **Magnets**
- Dosimetry

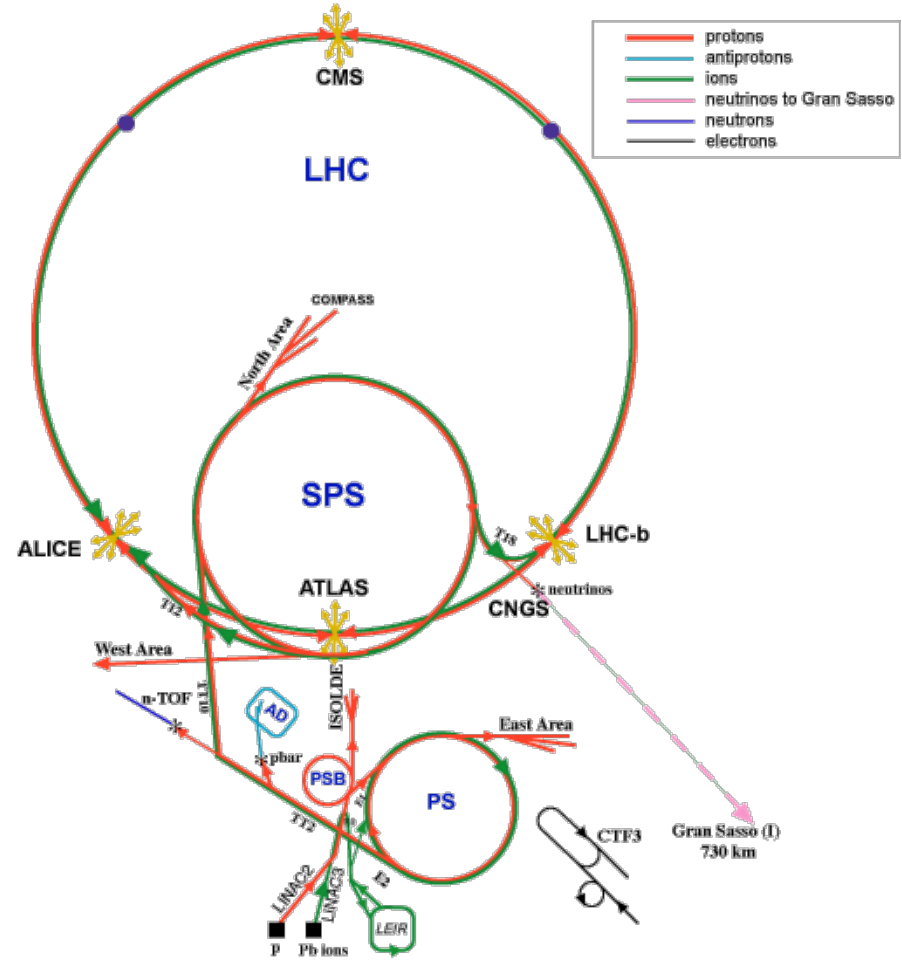


Scanditronix Magnet AB

- Specialteknik, Vislanda, founded 1980
- Part of Scanditronix group 1985–2005
- **Scanditronix Magnet 1991**

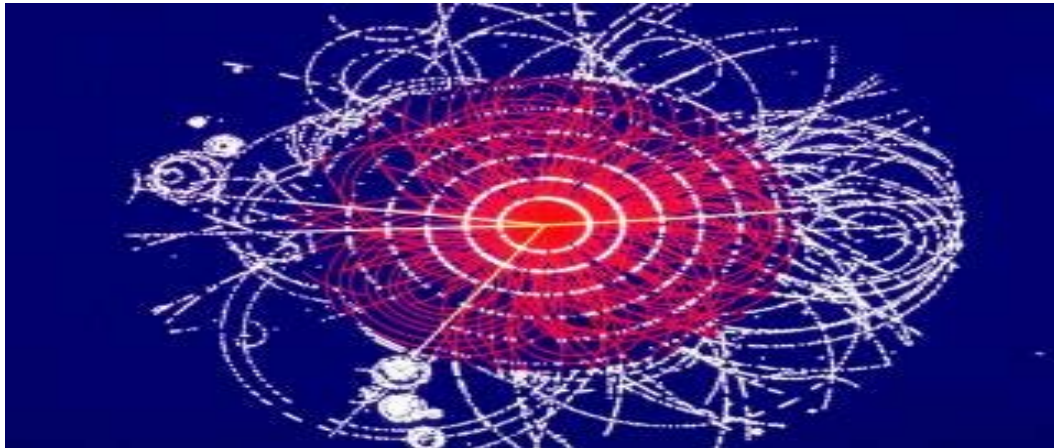


Magnets for accelerators

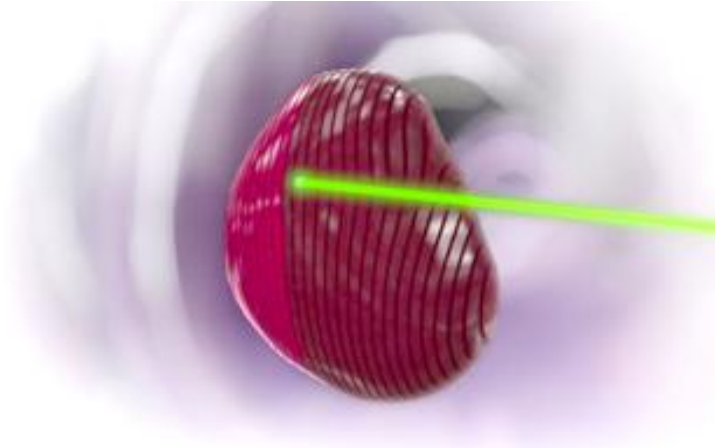


Market, applications

Research



Medicine



Industry



Customers research



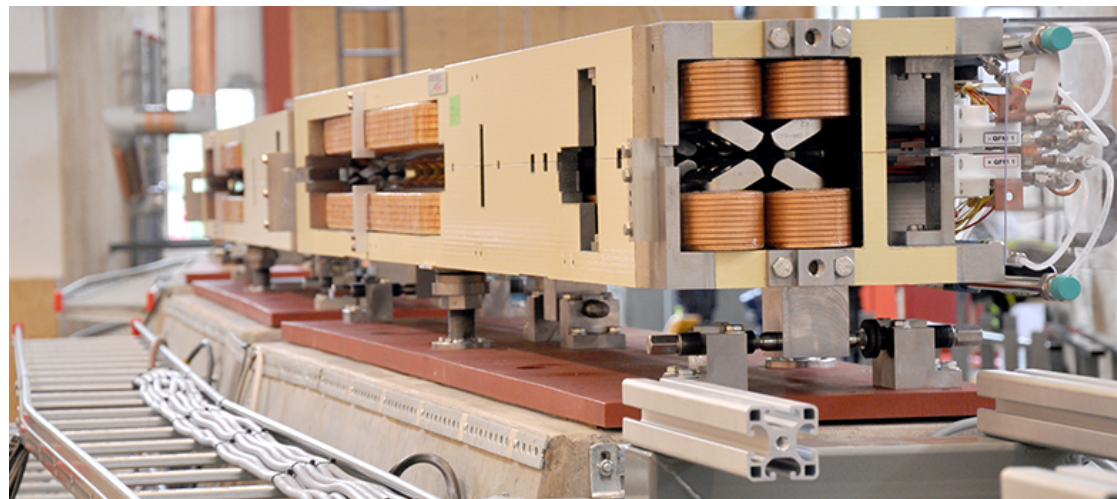
A man with dark, wavy hair, wearing a dark blue or black long-sleeved shirt, is leaning forward and looking intently at a smartphone held in his hands. The background is a workshop or factory floor, with several large, cylindrical objects (possibly rollers or parts of machinery) visible, some of which have orange and white stripes. The lighting is dramatic, with strong highlights and deep shadows, creating a focused and professional atmosphere.

Our products

Magnets

- Solid Steel Magnets
- Laminated Magnets

Bending magnets, Switching magnets,
Correction Magnets, Quadrupoles,
Sextupoles, Octupoles, Solenoids,
Toroids, Klystron magnets, Septum
magnets



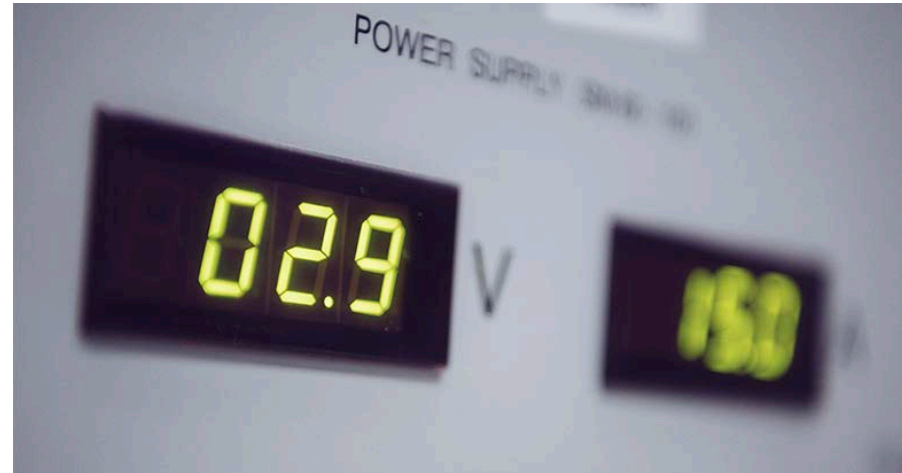
Coils

- Hollow Conductor or Solid Conductor
- Copper or Aluminium
- Water Cooling or Air Cooling



Accessories

- Supports
- Vacuum chambers
- Alignment details
- Power supplies

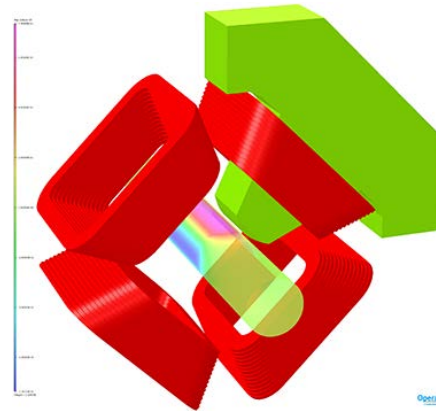




Our services

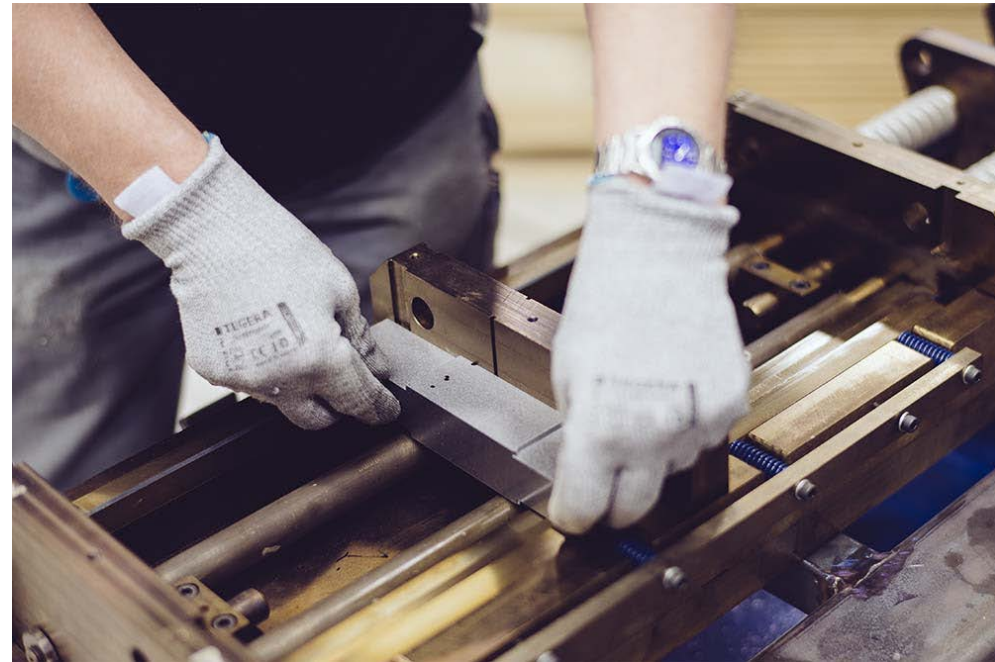
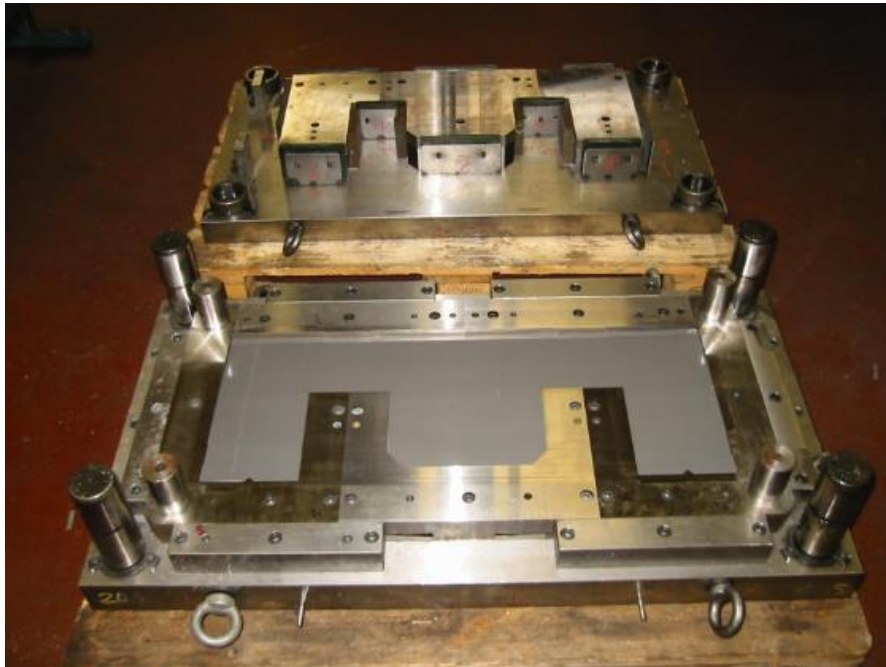
Services

- Project management
- Field calculations
- Design
- Manufacturing
 - Stacking and bonding of yokes in-house
 - Coil production in-house
 - Subcontractors machining etc.
- Assembly
- Tests
- Field measurements



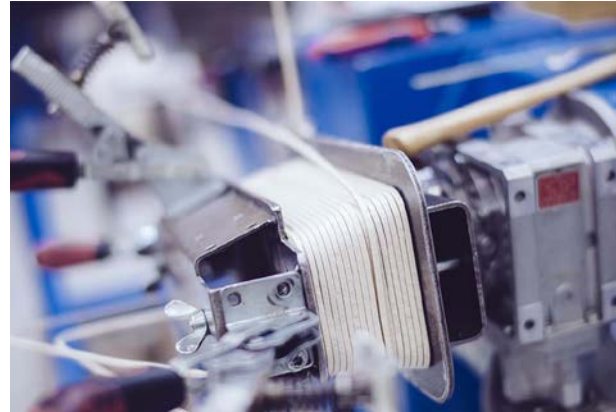
Laminated yokes

- Stamping
- Stacking and bonding



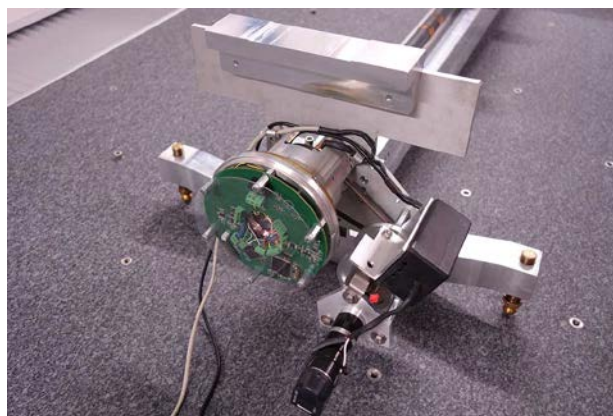
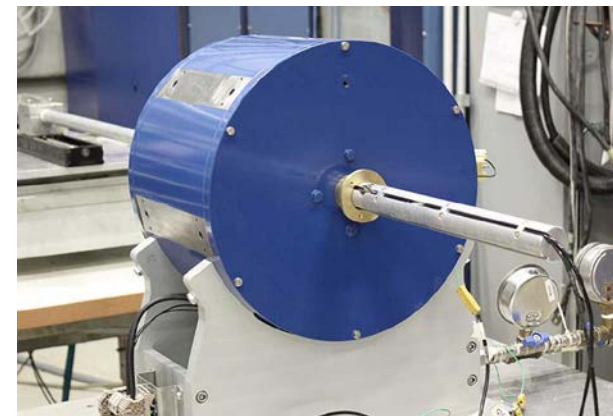
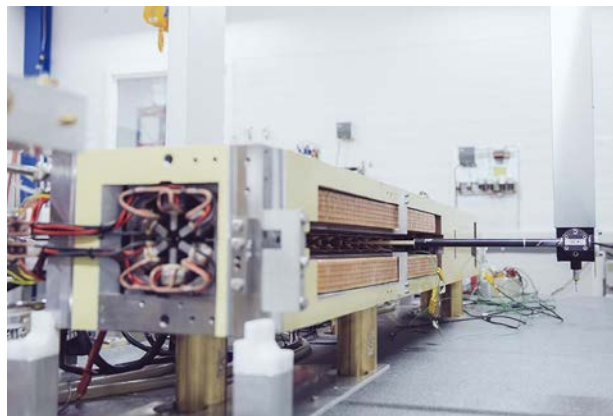
Coils

- Winding machines for different type of coils
- Large vacuum chambers for moulding
- Insulation test equipment
- Equipment for pressure test and flow measurements



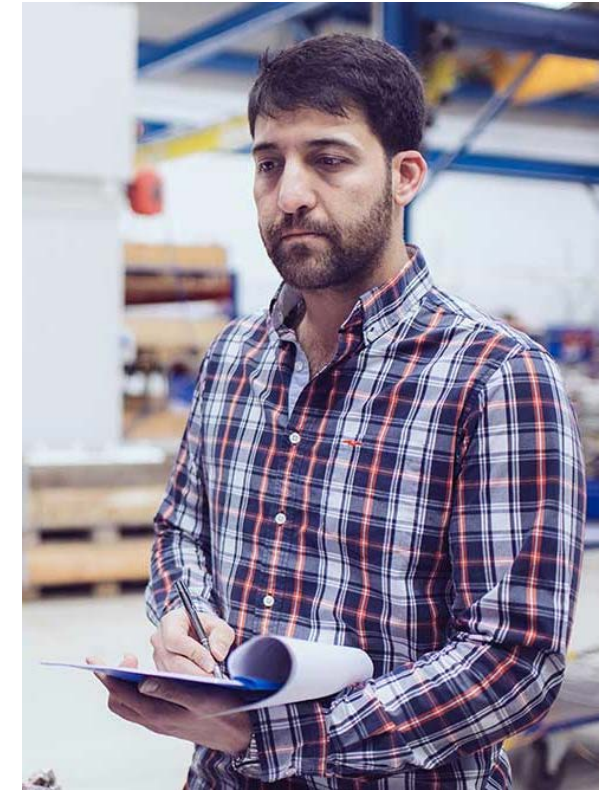
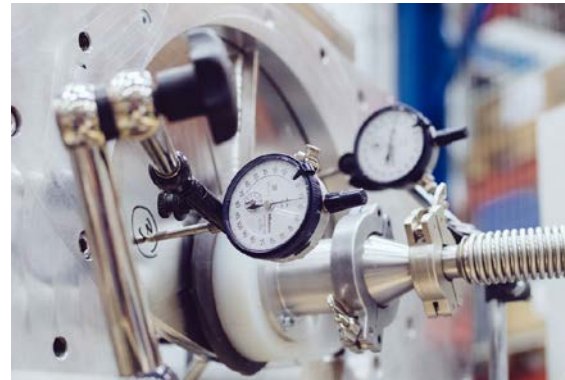
Field measurements

- Temperature controlled measurement room
- Hall probe mapping bench based on 3D CMM
- Rotating coil systems
- Power supplies up to 900A/100V



Testing and quality assurance

- Project travellers
- Manufacturing instructions, internal and for subcontractors
- Testing and measurement instructions, internal and for subcontractors
- Test reports
- Calibration of measurement tools and testing equipment
- CE certification

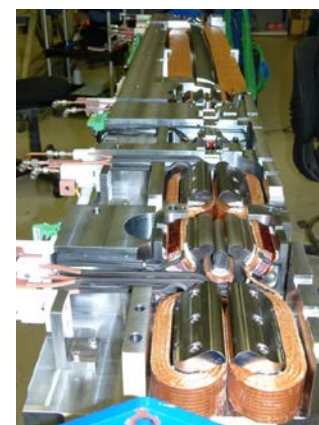
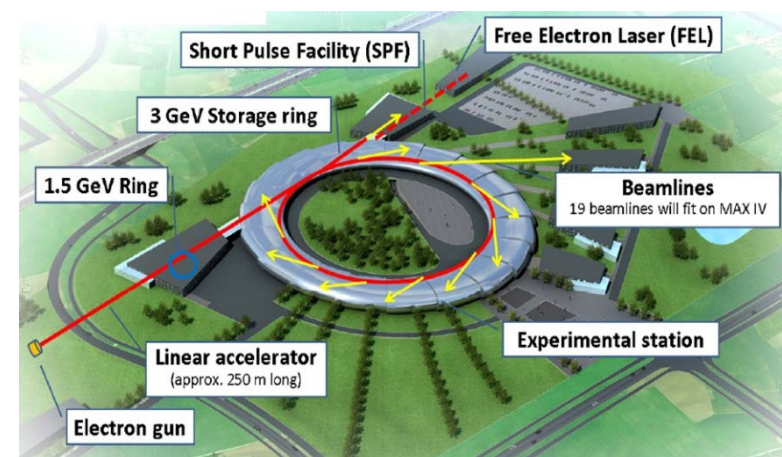




CASE

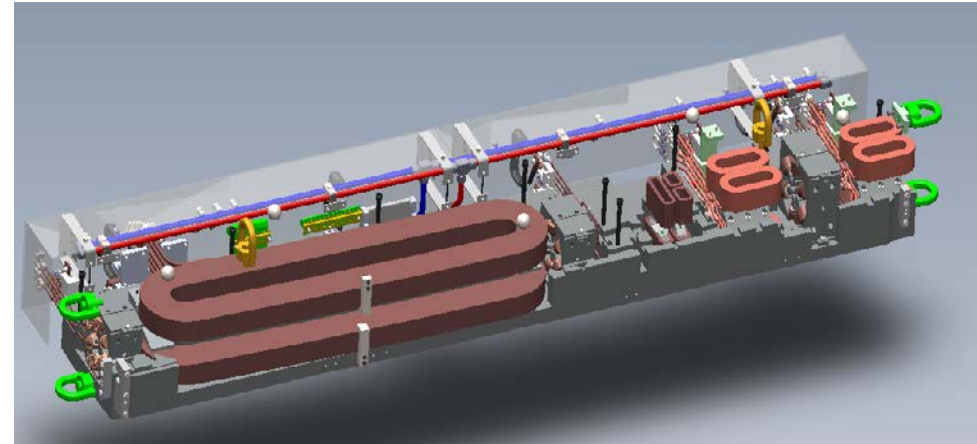
MAX-IV

MAX-IV 3 GeV Synchrotron Light Source



MAX-IV 3 GeV Storage Ring Magnets

- 80 magnet segments each containing dipole, sextupoles, quadrupoles and correction magnets in a common iron block
- Machining tolerance examples:
Flatness: 0,04 mm, Pole profile: 0,02 mm
- Field measurements: Rotating coil measurements and Hall probe mapping performed in temperature controlled room



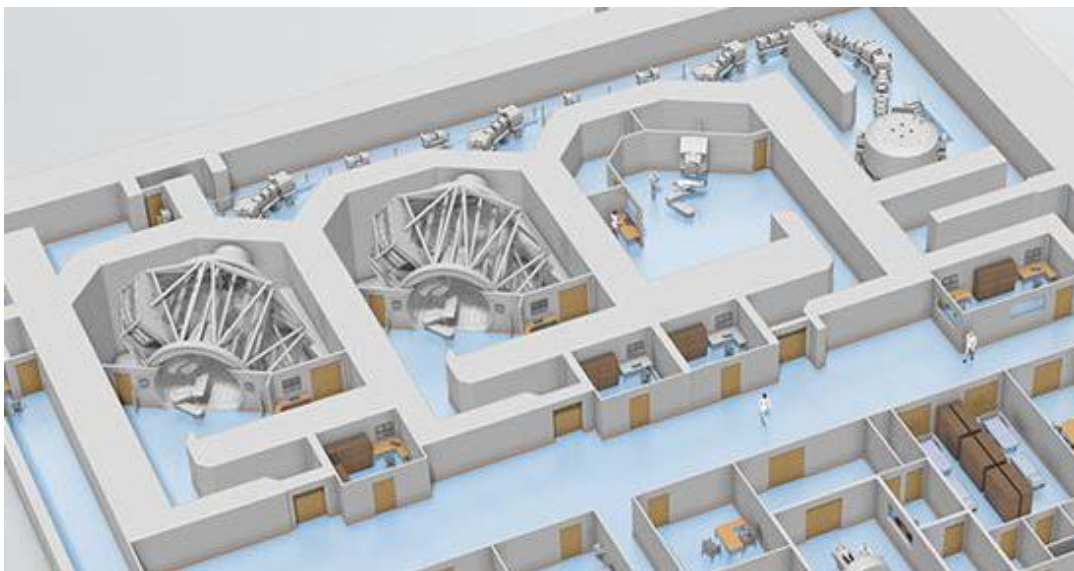


CASE

Magnets for Proton Therapy

Magnets for Proton Therapy

- > 50 systems
- > 1.500 Quadrupoles
- > 400 Dipoles





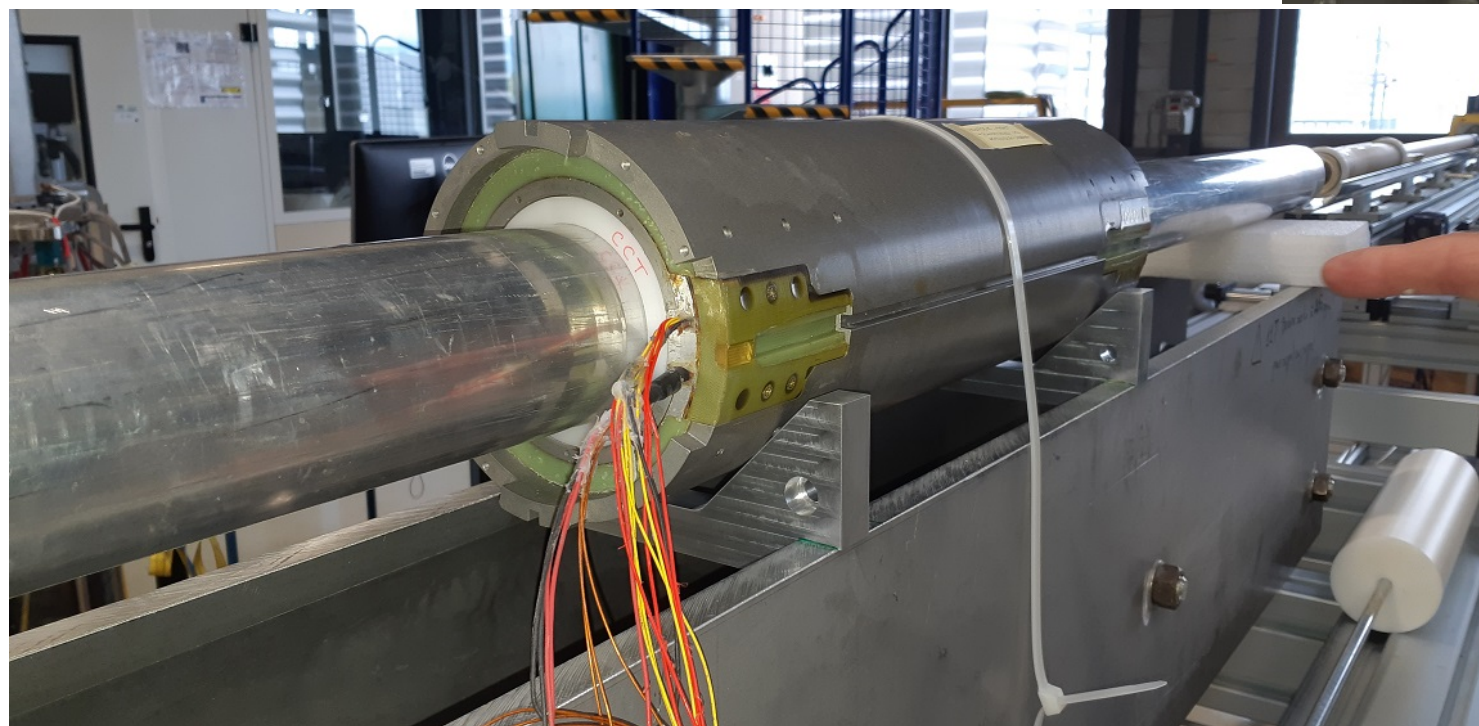
CASE

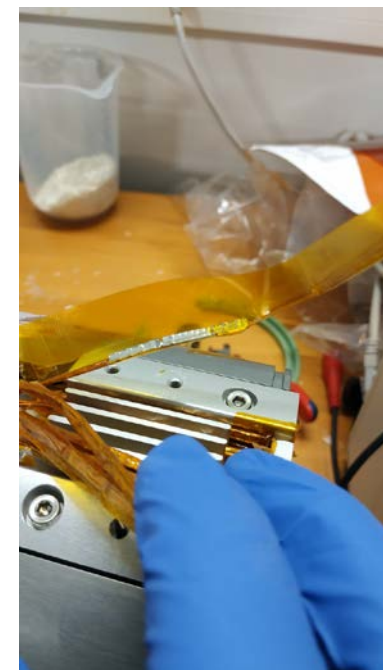
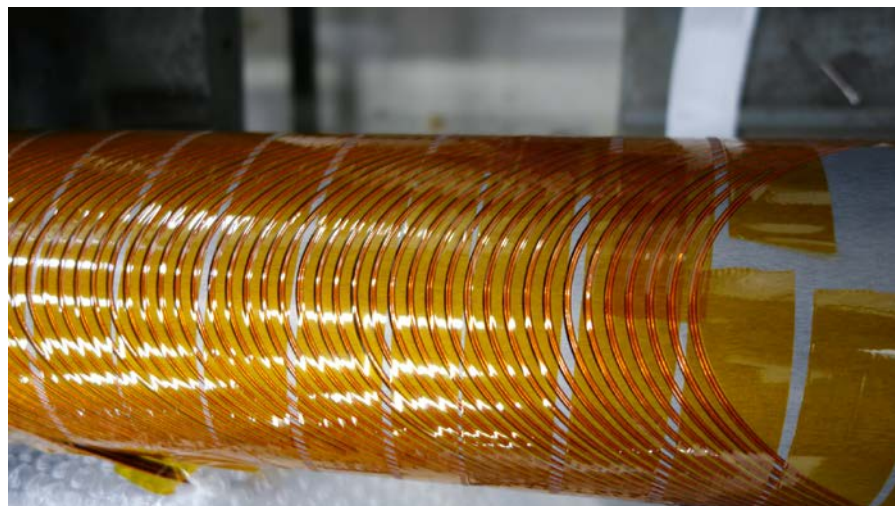
Canted cosine theta magnet

CCT Super Conducting Magnet

Collaboration with CERN and FREIA

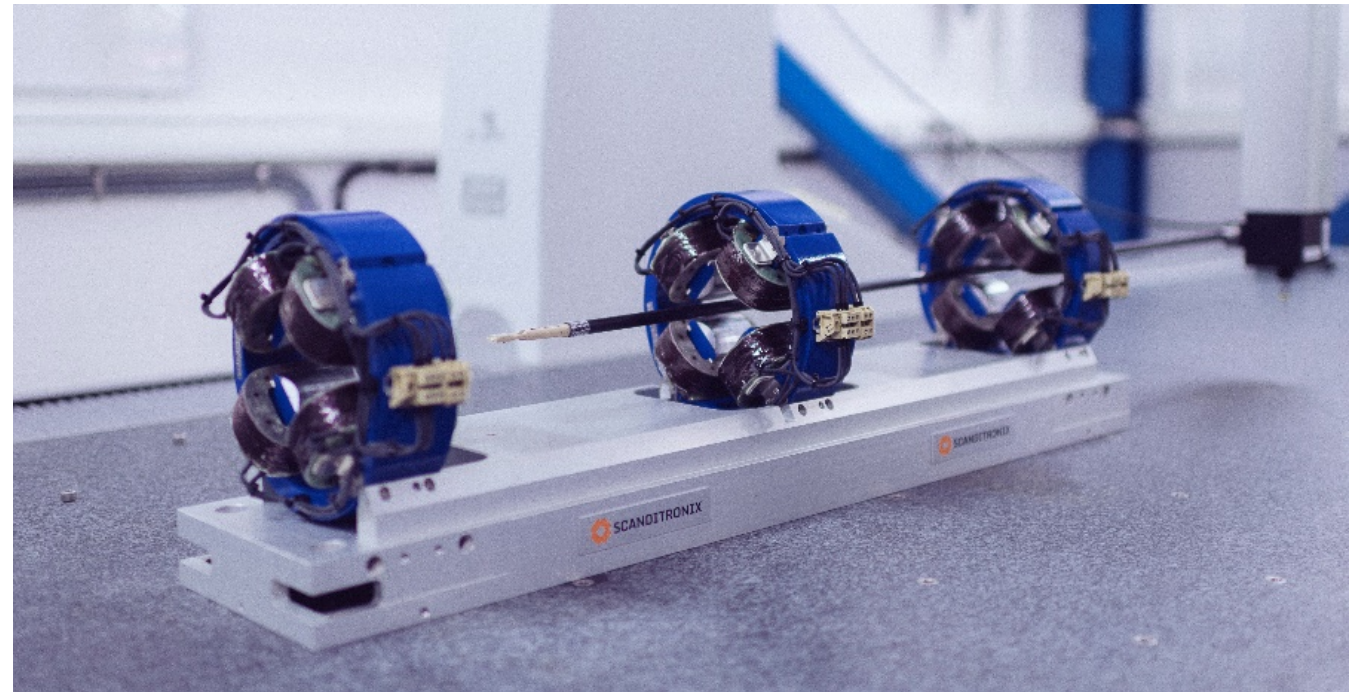
Financed partly by Vinnova





Working with research laboratories

- Hard technical requirements
- Collaboration with the customer
- Collaboration with suppliers
- Public procurement
- Financing
- Language



Thank you!

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+46 (0)70 55 341 80

