

Poloidal and Toroidal Coils for COMPASS



MAGNETS
FOR FUSION

In 1987 the Company manufactured the poloidal and toroidal coils for the COMPASS Tokamak installed by UKAEA laboratories at Culham (UK).

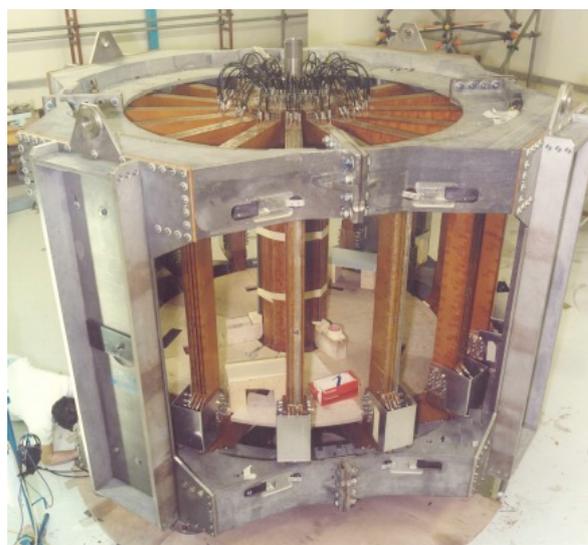
This Tokamak has the peculiarity that the toroidal coils can be disassembled to replace the vacuum chamber. This allows for maximum working flexibility of the magnet.

Its 16 toroidal coils are water cooled and electrically connected by butt and lap joints (for disassembly in two halves). The 12 poloidal coils consisted of 18 x 18 mm hollow copper spirals.



MAGNETS FOR HIGH
ENERGY PHYSICS

TOROIDAL COILS



Type of winding	N° 16 rectangular coils, 1750 x 1200 composed in a torus \varnothing 2600 mm outer diam.
Nominal peak current	91,000 A
Conductor	N° 4 oxygen-free copper turns per coil
Type of cooling	Water cooling
Coil weight	400 Kg



MAGNETS FOR
MEDICAL
APPLICATIONS

POLOIDAL COILS



Type of winding	Solenoid
Conductor	Oxygen-free copper conductor 8x15 mm ²
Type of cooling	Water cooling



SYSTEMS
FOR ENERGY



SERVICES & REPAIRS