

ESRF Quadrupole Magnets

In December 1988 the Company was awarded a contract for the manufacture of 326 Quadrupoles to be installed in the European Synchrotron Radiation Facility 6 GeV Storage Ring in Grenoble, France.



MAGNETS FOR FUSION



MAGNETS FOR HIGH ENERGY PHYSICS



MAGNETS FOR MEDICAL APPLICATIONS



SYSTEMS FOR ENERGY



SERVICES & REPAIRS

	Short	Long	
Energy	6		GeV
Gradient	9.05	14.3	T/m
Magnet Bore Diameter	36		mm
Good Field Region	±32		mm
Field Quality	<2 10 ⁻³		
Magnetic Length	400	900	mm
Ampere-Turns per Pole	7485	9500	
Current	499	475	A
Conductor Size	13.2 x 9		mm ²
Coolant Hole Diam.	5		mm
Magnet Resistance	0.06		Ohm
Power	12.9		kW
Water Circuits per Magnet	4		
Pressure Drop per Circuit	7		atm
Water Temp. Rise	10		°C

Type: **Laminated Yoke Quadrupole**
 Yoke: **Low carbon steel Magnetil B-C**
 Conductor: **OFHC copper**



Insertion of the coil moulds in autoclave for curing



View of the workshop final assembly