

Superconducting Dipole D2



MAGNETS
FOR FUSION



MAGNETS FOR HIGH
ENERGY PHYSICS



MAGNETS FOR
MEDICAL
APPLICATIONS



SYSTEMS
FOR ENERGY



SERVICES & REPAIRS

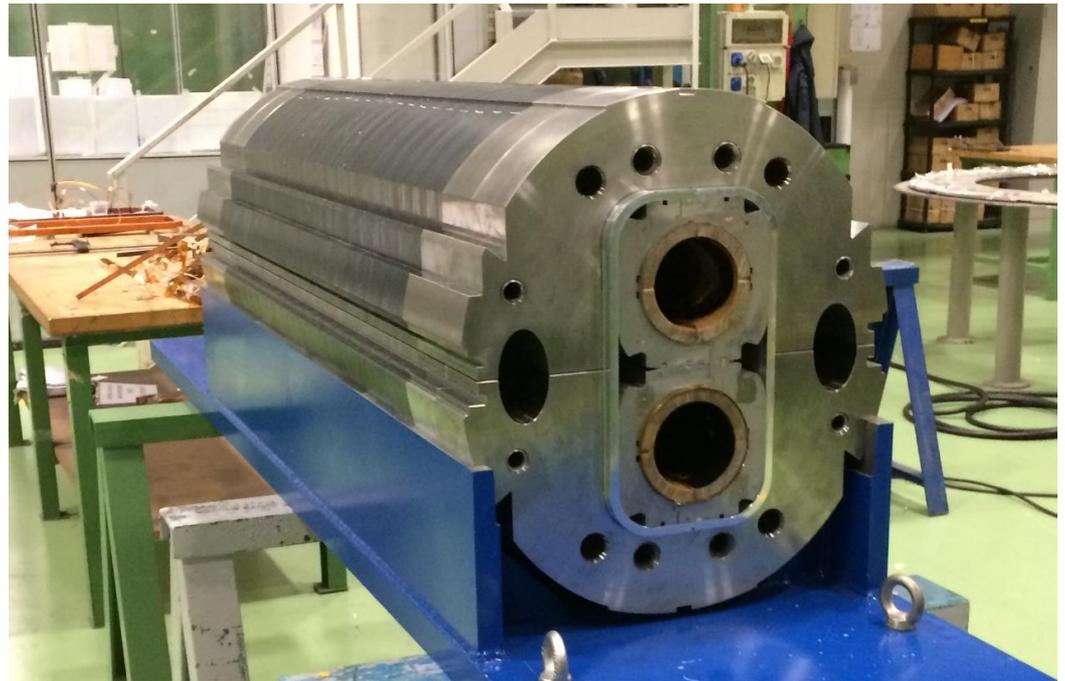
High Luminosity LHC (HL-LHC) is a project aiming to upgrade the LHC collider after 2026 in order to maintain scientific progress and exploit its fully capacity.

By increasing its peak luminosity by a factor five over nominal value it will be able to reach a higher level of integrated luminosity, nearly ten times the initial LHC design target.

ASG manufactured a short model of a Superconducting Dipole D2 for the High Luminosity Upgrade of LHC and has been awarded of a contract for the construction of the prototype.

The short model of D2 magnet is a 1.6 m twin aperture (105 mm each one) magnet with a separation between apertures of 188 mm, generating an integrated magnetic dipolar field of 35 T·m with the same polarity.

The prototype of D2 magnet is 8.155 m twin aperture (105 mm each one) magnet with a separation between apertures at 1.9 K of 188 mm, generating in both apertures an integrated magnetic dipolar field of 35 T·m with the same polarity.





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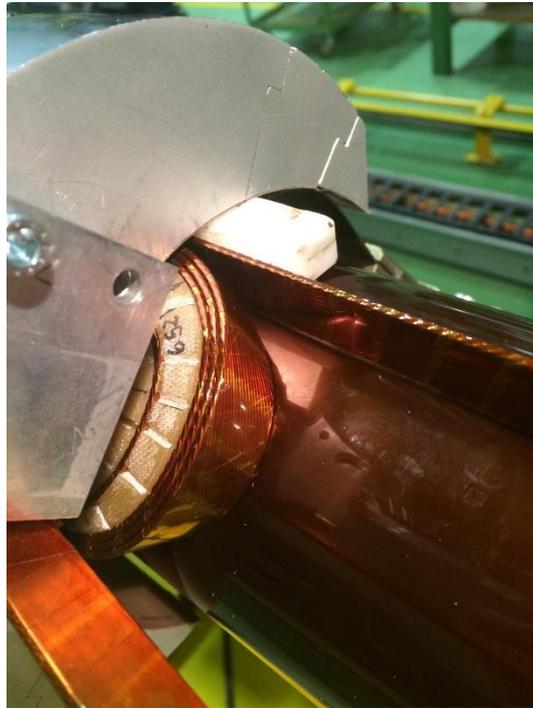
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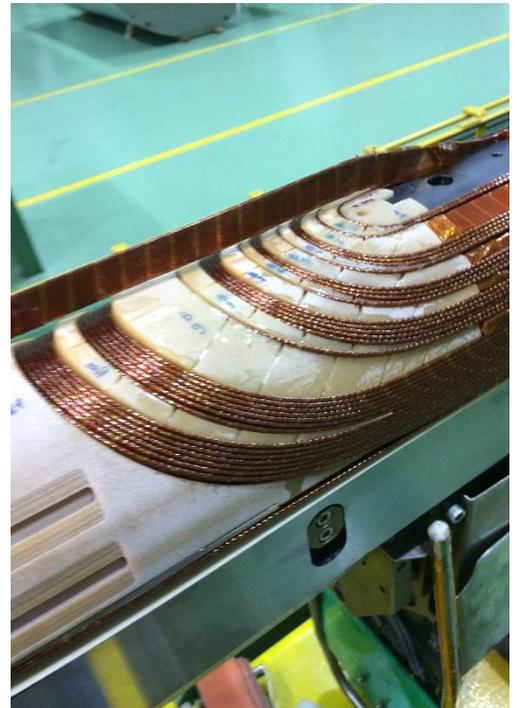
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D2 short model – detail of winding



D2 short model – coil detail



D2 model collared coils



D2 model ready for shipment