

# DeMaCo Holland bv

## Full size prototype cryogenic vacuum pump for the ITER torus.

DeMaCo designs and builds the first full size prototype ITER cryogenic vacuum pump. The cooperation between DeMaCo, EFDA and the Forschungszentrum Karlsruhe (D), is based on its long-lasting experience in Cryo and Vacuum Technology.

The ITER machine will contain ten cryopumps to operate the torus and the cryostat. The ITER torus pumps are unique in that they must function in a fast cycled mode continuously pumping and regenerating. It removes the exhaust of the plasma, including the helium produced as a result of fusion. The pump will take 18 months to build and will undergo a period of intensive testing at the TIMO-2 pump test facility at Forschungszentrum Karlsruhe. This prototype pump will enable validation of the design and fabrication methods prior to procuring the main batch of ten pumps for ITER.

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