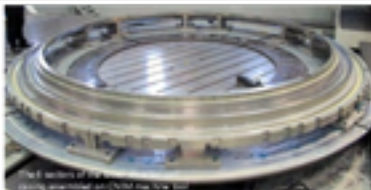


Load assembly enters a new phase

After the careful installation of about 200 magnetic sensors, of the 48 stainless steel protection panels that cover the outer part of the vacuum vessel and of the 12 lower divertor supporting legs WEST is ready to start the assembling of the divertor coils inside the vacuum vessel.

The first phase of the WEST load assembly which started in October last year was successfully concluded by a metrology campaign with our partner SETE-HEXAGON in order to set up the new magnetic reference. The second phase is now focused on the construction of the lower and upper divertor coils inside the vacuum vessel.

The machining of the lower divertor coil casing has been recently completed in the CNHM premises. It consists in 6-60° stainless steel sectors that will be assembled inside the vacuum vessel in the coming weeks. The accuracy of the positioning is in the order of tens of millimeter. The assembly and



positioning of the upper coil casing still in manufacturing will follow before the winding up of the conductor constituted of about 130x90° copper segments and provided by AVANTEC Concept. This operation is very challenging as it requires brazing and insulation operations for each of the 130 segments. The construction of the coils will mobilize the assembly team until the end of the year.

Series Production launched for complementary Divertor components

In addition to the ITER-like prototypes to be tested in WEST, the divertor is constituted of complementary elements based on alternative technologies. The series production of these key plasma-facing components has been launched.

Component (ITER-like)	Steady state heat flux (MW/m ²)	Number of components	Supplier	Picture (ITER-like)
Lower divertor Shear-up-throat (SUT)	Neutral	934	SGL Carbon (Germany) MITSUBISHI INDUSTRIAL CORPORATION (Japan)	
Lower divertor Blanks (LDB)	Up to 3MW/m ²	144	AVANTEC France SGL Carbon (Germany)	
Upper divertor Throat (UDT)	Up to 3MW/m ²	456	SDMS France SDMS	

The contracts for series production were placed end of 2014 with different suppliers for the procurement of the divertor component variants. The first series delivery is planned in June 2015, the last one in November 2015. A W-coating phase of the plasma-facing surface of each component (not included in these contracts) will follow progressively for a final reception of all divertor components end of 2015. The pre-assembly phase in 30° sectors is planned in early 2016 before integration into the WEST vacuum chamber.

