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## **ITR/P5-12: ITER Machine Assembly –Challenges and Progress**

*Thursday, 11 October 2012 08:30 (4 hours)*

The basic ITER machine has around 1 million parts which must be successfully integrated and assembled. This complex and challenging task requires robust planning, processes, heavy lifting, welding and precise alignment and tolerance control.

The ITER Organization (IO) is responsible for the assembly of the ITER Tokamak machine from components delivered in-kind from each of the Domestic Agencies. IO is currently undertaking detailed design and planning for the assembly of the machine, to define the sequence and kinematics of each operation.

This poster will present the current status of the design and planning for ITER Machine Assembly and will describe the overall strategy, schedule and critical technical challenges and ways they are being mitigated.

In addition to technical descriptions and diagrams, this poster shall show the progress and challenges of the Phase 1 Tokamak Assembly, through a 5 minute high definition animated video based on actual CAD data, with audio commentary. This video shows actual CAD data taken from assembly studies and allows viewers to better understand the scale and complexity of the assembly process.

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