



Manufacturing for extreme conditions

Title

# Engineering

*Sub-title*

Maritime Hydraulic and MHD Offshore engineering strength is based on advanced mechanical, hydraulic and electrical design and analysis capabilities used to solve complex problems.

We have the resources to simulate advanced operational scenarios

1. Advanced Modelica solutions to provide a way to create and test complex simulations of actual systems.
2. Development of work scope (scope of supply), functional design specifications, design basis documents, test procedures, data sheet, storage, maintenance and commissioning procedures.
3. Analysis carried out for components / structures that are beyond the normal scope of hand calculations using Finite Element Analysis (FEA) method. Various analysis performed are stress, strain, deformation, fatigue and computational fluid dynamics.
4. MathCAD and Mathematica for presenting design calculations by eliminating human errors.
5. Applying international standards, including: 5.1 API, 5.2 ASME, 5.3. ASTM, 5.4 ANSI, 5.5. DNV, 5.6 ABS, 5.7. IEC, 5.8 NEMA.
6. Scale Rapid Prototyping. We understand the importance of being able to convert engineering design into scale prototyping. We have an in-house mechatronics labs, precision machine tools, and 3D Printing capabilities to produce scale prototype units.

# Offices

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MHD Offshore is a sister company of Maritime Hydraulic focused in Offshore solutions