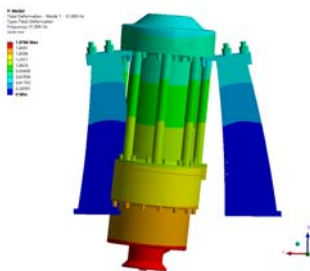


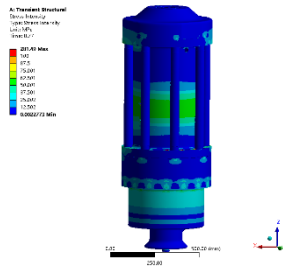
研发中心案例研究分享 R&D CASE STUDY BRIEFING

先进的结构动力学仿真技术 保证海洋晃动工况产品设计可靠性 Advanced structural dynamics simulation technology Ensures the Reliability of Product Design under Ocean Swings Loads

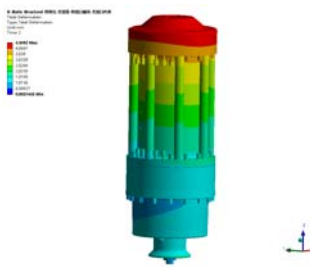
IPT 拥有对船用泵和浮式装置用泵产品在海洋晃动工况下结构应力、变形及疲劳寿命综合评估的核心技术。采用先进的有限元分析及倾斜试验等技术手段，保障产品长期安全可靠运行。IPT has the core technology of professional comprehensive evaluation of stress, deformation and fatigue life of Marine pump and floating device pump products under ocean swings loads. The use of advanced finite element analysis and inclining experimental technologies to ensure long-term safe and reliable operation of products.



结构动力学模态分析振型图 Modal Shape of Structural Dynamics Modal Analysis



结构动力学分析应力云图 Stress Diagram of Structural Dynamics Analysis



结构动力学分析变形云图 Deformation Diagram of Structural Dynamics Analysis

适用的产品 Applicable products 全部产品 All Products

客户需求 Voice of Customer

- 产品运行安全可靠 Safe and reliable operation of the product
- 低振动、低噪音和长使用寿命 Low vibration, low noise, and long service life

核心技术 Core Technology

- 通过采用有限元分析和试验分析来评估产品机械完整性，保障产品安全可靠运行 Product mechanical integrity is evaluated by finite element analysis and test technology to ensure safe and reliable operation of products
- 采用专业的结构动力学分析技术对海洋晃动工况摇摆载荷下的应力、变形及疲劳寿命进行分析评估，以确保在极端海洋条件下泵的完整性和可靠性 The professional structural dynamic analysis is performed to evaluate the stress, deformation and fatigue life of the pump under ocean swings loads to ensure the integrity and reliability of the pump under extreme ocean conditions
- 采用专业的结构动力学分析技术对海洋晃动工况摇摆载荷下的振动进行分析评估，保证产品稳定运行 The professional structural dynamic analysis is used to analyze and evaluate the vibration under ocean swings loads to ensure the stable operation of the pump
- 通过倾斜试验技术验证产品可靠性 Inclining test is used to verify the reliability of the product

客户收益 Customer benefits

- 产品可靠性满足客户需求 Reliable product performance meeting customer needs.
- 产品长使用寿命并且低振动 Long products service life with low vibration
- 产品能在极端海洋条件下稳定运行 Products that can stably operate under extreme ocean conditions

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