

Engineering and Design

# **PRESSURE VESSEL ANALYSIS**



# ENGINEERING AND DESIGN

**Mechanical engineering and design proficiency, with the technical calculations you need.**

Our experienced industrial engineers design technically sound machines and production lines for you. We offer high-quality mechanical engineering and technical calculation services. With Makron, you always get great customer service and project management. Makron can also manufacture the machines and handle the full-scope of delivery. We choose the right employees, with the right expertise and know-how, to meet your needs. Our experts have the skills to take responsibility for the entire product development process, from idea to production.

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## PRESSURE VESSEL ANALYSIS

Makron offers pressure vessel analyses carried out with solid expertise and in accordance with the EN 13445 and ASME VIII standards. We will perform the calculations on the basis of your drawings, or, alternatively, a Makron mechanical engineer can prepare the required drawings. Also, we can help you upgrade your existing systems by calculating the strength of the pressure vessel and designing the necessary changes. We can help you to optimize the structures, which creates savings at the production stage because the required structural strength can often be achieved with smaller quantities of raw materials.

### What Makron does

We perform strength calculations by means of both analytical and finite-element methods. We also offer consultation services related to structural drawings. We check the welding markings and joints to make sure they meet the requirements set by the standards. We can also take care of the pressure vessel design, prepare the required documents, obtain the required approvals, and coordinate the manufacturing.

### Products & expertise

- Pressure vessel design and calculations (PED 2014/68/EU and ASME VIII)
  - Inspection of drawings
  - Structural optimization
  - Modernization of pressure vessels
  - Determination of the inspections required for welded joints
  - Comprehensive pressure vessel deliveries
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## Contact



### **VERNERI VÄISÄNEN**

*Business*

*Director, Engineering*

Headquarters

+358 44 065 9510

[verneri.vaisanen@makron.com](mailto:verneri.vaisanen@makron.com)

Languages: EN, FI