

Engineering and Design

# TECHNICAL CALCULATIONS



# 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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# TECHNICAL CALCULATIONS

Technical calculations are required for making sure a process or machine will function safely and withstand normal use. We perform structural strength calculations by means of both analytical and finite-element methods. We carry out pressure vessel analyses in accordance with the EN 13445 and ASME VIII standards. Our expertise covers requirements pertaining to lifting equipment also. We provide technical calculations and analyses as a separate service or in combination with our other engineering services.

## What Makron does

You get precise calculations completed with professionalism. We make sure that all strength calculations are done properly and completely accurate. Our pressure vessel analyses are done according to the EN 13445 and ASME VIII standards.

## Products & expertise

- Static and dynamic strength calculations
  - FEM analyses
  - Fatigue life evaluation for welded structures
  - Pressure vessel analysis (EN 13445 and ASME VIII)
  - Consultation
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## Contact



### **VERNERI VÄISÄNEN**

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