

# JK MILL ENGINEERING OY

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## COMPANY BUSINESS PLAN

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- JK Mill Engineering Ltd offers industrial design services, including to major forest and technology industry manufacturers, in which the entrepreneur has solid expertise spanning 25 years.
- The company focuses on layout and plant design for customers' factory sites.
- The design encompasses versatile plant engineering, including the placement of the main operating equipment—such as a steam boiler—into the building, along with all necessary process devices according to process flow diagrams, positioned in the most optimal locations.
- All necessary service levels are defined to support the main operating equipment, its process devices, and maintenance. The building and its dimensions are determined and optimized to ensure that access routes meet regulatory standards, equipment is easily maintainable, and the facility is highly functional.
- The basic layout includes, in accordance with process flow diagrams, the main operating equipment, process devices, high- and low-pressure piping systems, combustion air ducting, as well as the building's levels, columns, walls, floor ducts, roof, stairs, staircases, elevator shaft, and lifting shaft for plant maintenance. Additionally, it comprises HVAC systems and electrical rooms, along with the necessary lifting rails for safe maintenance of the equipment.

**I offer my aforementioned expertise in layout design across all phases of the customer process lifecycle.**

- Layout design for proposal
- Layout design for project
- Layout design for service

## PRODUCT / SERVICES

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*Industrial design services for customers*

### Layout and plant design

- Comprehensive placement of buildings and equipment
- Installation, lifting, and maintainability planning for facilities
- High-pressure and low-pressure piping design
- Ducting design
- Factory site layouts

## Main industry:

### **Bioenergy projects in the forest industry**

- Circulating fluidized bed (CFB) and bubbling fluidized bed (BFB) boilers
- Recovery boilers and evaporators
- NCG systems → scrubbers, burners, and boilers

### **Side Streams of the forest industry**

- Lignin plants
- Sulfuric acid plant
- NCG systems → Scrubbers, burners, and boilers
- Methanol plants

## Their comprehensive design

- Proposal layout planning in 2D / 3D
- New plant deliveries – layout and related design
- Service planning / deliveries

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## SERVICE DEVELOPMENT

- Construction site supervision and planning

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## OTHER ADDITIONAL INFORMATION

### **Entrepreneur's strengths**

- Strong 25 years of experience in factory layout design
- Able to avoid design pitfalls
- A versatile expert with strong knowledge of processes and equipment
- A natural problem solver
- A driving force in projects, not someone who needs to be pulled along
- Is proactive and customer-oriented
- Is motivated and committed