

Industrial Circular Economy Solutions

# **PULP MANUFACTURING MACHINERY**



# INDUSTRIAL CIRCULAR ECONOMY SOLUTIONS

**Complete technology solutions and engineering, automation, and production services as a single partner.**

Recycled cellulose fiber is an excellent material for thermal insulation and asphalt additives. It is an ecological and sustainable solution because it is made from recycled paper or cardboard. Makron offers you complete production technology to manufacture cellulose fiber insulation and additives from recycled raw material. We have developed these production lines in close collaboration with our long-term customers. The production lines run smoothly by Makron designed automation control system. Makron also works as a subcontracting partner of pulp technology providers and waste-to-energy industry. We offer our expertise in engineering, manufacturing, and automation as a single partner to complete your processes and technology.

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## PULP MANUFACTURING MACHINERY

Pulp manufacturing starts with an efficient wood handling process and continues on the fiber line, where the wood material is separated into fibers in a chemical pulping process. The pulp is then washed, bleached, and dried. By-products of the process can be used e.g. for energy production. Our mechanical engineers offer you design and technical calculations expertise for the different phases of the pulping process. In close collaboration with XAMK, we design and manufacture research equipment. And we can provide you with electrical control cabinets and automation services to complete your process.

### What Makron does

As a subcontractor, we design machinery for technology providers who serve pulp mills and innovative bioproduct mills. To complete your needs, we also offer electrical control cabinet manufacturing and automation services.

### Products & expertise

- Mechanical engineering
  - Plant and process engineering
  - Technical calculations
  - Product development
  - Automation engineering
  - Electrical engineering
  - Machinery manufacturing
  - Electrical control cabinets
  - Electrical installations
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