



FROM TIMBER TO PULP

 The logs are floated down the River Kymi and then sorted at the mouth of the river. (The Provincial museum of Kymenlaakso (PMK) / Trond Hedström 1963.)
 Receiving the finished pulp sheet. Staff photographic competition entries. (PMK / The Matti Kanto Collection.)



The timber was floated along the River Kymi in 15-ton bundles and then lifted with a cable crane into the wood yard to be stored, or was transferred with another type of crane directly to the de-barking plant, where the wood was cut and then transferred to debarking drums where it was turned into screened wood chips and then moved via silos into boilers. In the boiling agent the lignin dissolved from the wood leaving the solid matter, the cellulose fibre. The fibre mass was then

d The boiling agent separated from the cellulose was recycled through an evaporation plant and the remaining lye was dried. The dried lye and the condensed lignin were burned in a furnace and the heat energy produced from it was recovered. When the separated chemicals were mixed in water it produced a sodium hydroxide solution. This was caustisized with lime, clarified and thus attaining a usable boiling agent.
0 The boiling agent continued its unending cycle within the factory and losses

The boiling agent separated from were replaced with Glauber's salt, but the cellulose was recycled through an the timber was taken as pulp bales out vaporation plant and the remaining lye into the world via railway or onto ships ras dried. The dried lye and the con-

oday the production of chemical pulp follows similar principles. The factory is, however, automated, all parts of the process have been completely renewed, the pulp is bleached and the waste water is biologically purified. There have also been air pollution protection stipulations to take into ac-



THE STORY OF THE FACTORY

SUNILA) SUNILA

he beginning of factory opera- circumstances they made up 10% of the next stage of expansion in 1958-1960 tions was difficult: the demand total workforce.

for pulp was small and production had

to be limited. During the Winter War picked up. High inflation as well as dif-(26.11.1939–13.3.1940) the factory op- ficulties in acquiring timber, coal and erations were mostly suspended and a lime, however, slowed down the devellarge part of the workforce was in the opment of operations. In 1951 the facfront-line troops or otherwise engaged tory reached its original annual proin the service of the Finnish defence duction target of 80,000 tons and that forces. During the war years Sunila was same year the first extension project

raised the annual production to over When the war ended the pulp market 200,000 tons.

included the renewal and extension of mental issues began to become more the power plant and the construction of a new turbine and water purification plant. Production records again rose with the extension of the semi-bleaching plant. The new state-of-the-art fullrun to a significant extent by women. As was initiated, after the completion of bleaching plant started operating in ing in 1995. Today the emissions from much as 65% of the staff operating the which, three years later, annual produc- 1970, and this large investment was Sunila are at the same levels as in other machines were women – under normal tion increased to 120,000 tons. The followed by the construction of a large modern factories.

wood-handling plant. Like in many other fields, automation and information technology took over also in the The large-scale projects of the 1960s pulp processing industry, and environpronounced also in investments. From 1978 onwards the effluent from the process was led to a new mechanical purification plant, and the biological activated sludge plant began operat-





THE FUTURE OF THE PRODUCTION

The annual production capacity of the Sunila company in 2003 is 350,000 tons, for which 2 million cubic metres of spruce and pine is needed. Over 50% of the wood and chips arrives to the factory by road, 15% by rail and 30% by sea (mainly from the Baltic States) via the factory's own harbour. The ready pulp is delivered mainly by road to clients in Finland and a part is shipped abroad.

In 2002 the factory, owned by the Myllykoski Paper company and the Stora Enso company, had a permanent workforce of 300.

The factory lives in its own time, and time leaves its mark on the appearance of the factory. Original working methods required facilities of a specific size, into which, however, it is not possible to place new equipment.Large factory halls have been abandoned and the newest extensions have been built outside the red



brick envelope of the original factory building, and new massive 35-metre-tall silos, built for storing wood chips, have been located even further away.

 Glauber salt store, and pulp bale-, salt- and coal transporters. (PMK / Trond Hedström 1963.)

