

A globe showing the continents of North America, South America, Europe, and Africa. The globe is overlaid with a complex network of blue lines representing fiber optic connections. The background is a dark blue forest with bare tree branches.

**FIBER DEVELOPMENT**

FIBER DEVELOPMENT SYSTEMS FOR THE PULP AND PAPER INDUSTRY



## Your partner for fiber development

### ADVANCED FIBER DEVELOPMENT SYSTEMS

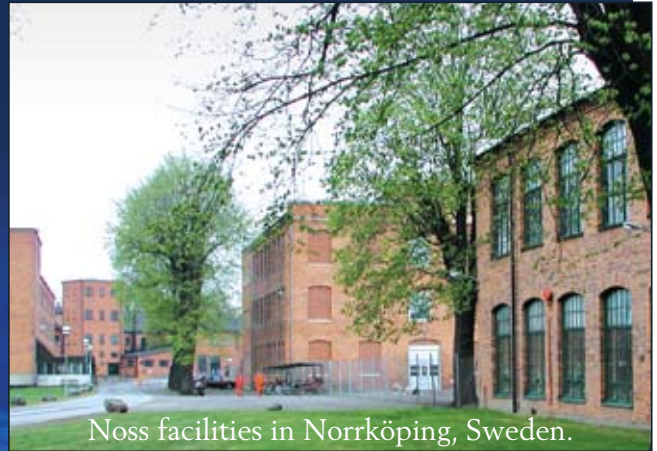
Noss is a Swedish company group serving customers in the pulp and paper industry around the world. We supply advanced Fiber Development Systems comprising equipment for hydrocycloning, screening, thickening, fiber fractionation, deaeration, refining and bleaching.

### GLOBAL REACH – LOCAL KNOWLEDGE

The global sales and service organization is committed to fast and reliable customer service. Through our strategically located branch offices, we provide know-how and after-sales service that is adapted to different local requirements.

Our professional knowledge and long time experience have made us a leading company within the fiber development segment.

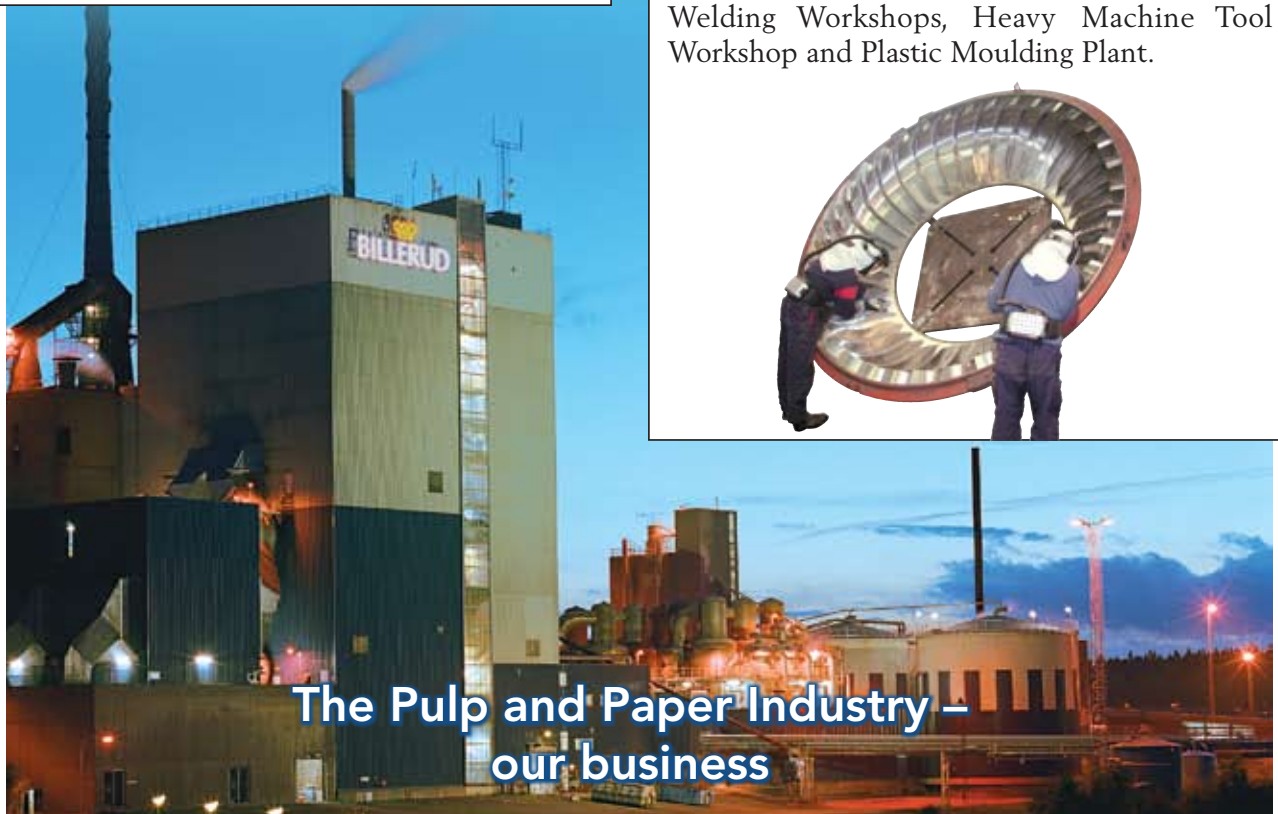
Noss has been active since the early 1950's and today over 1000 Noss installations are operating in various applications in more than 500 mills around the world.



### MANUFACTURING

All Noss machinery and spare parts are manufactured at our 85000 m<sup>2</sup> plant in Norrköping, Sweden. This gives us complete overall control and ensures top quality products.

Our plant comprises Sheet Metal and Welding Workshops, Heavy Machine Tool Workshop and Plastic Moulding Plant.

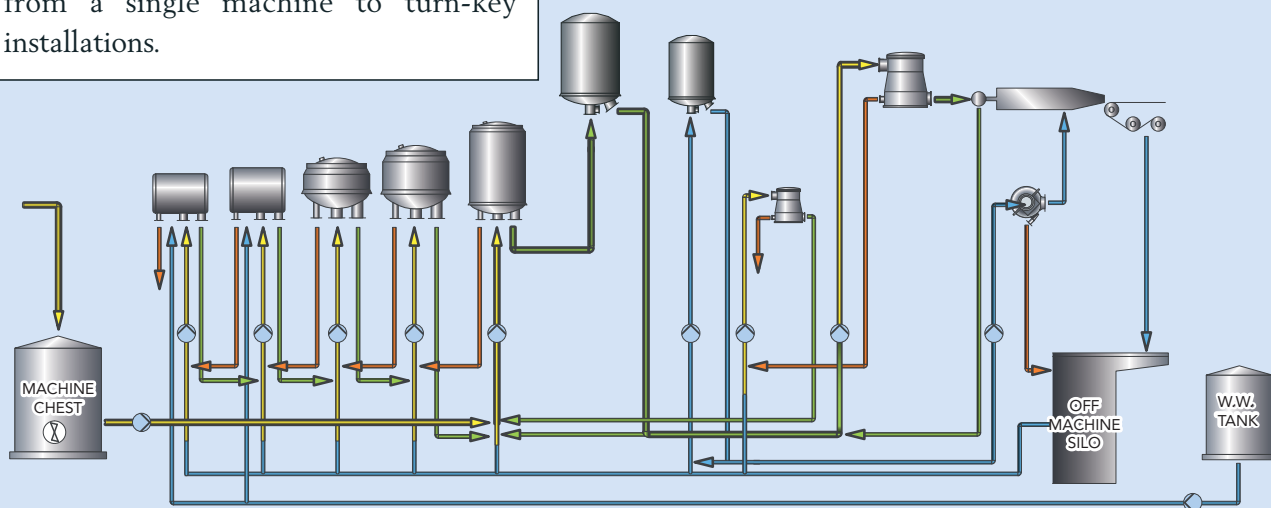


The Pulp and Paper Industry –  
our business

# Our products and services

## SYSTEM DELIVERIES

Our extensive technological and human resources enable us to provide complete system deliveries comprising everything from a single machine to turn-key installations.



## TAILOR-MADE SOLUTIONS

We focus on customer-oriented solutions in order to enhance process performance and to achieve the fiber and paper characteristics demanded by the end-user.

## ENGINEERING

### Engineering Services

All our deliveries include engineering services.

We provide

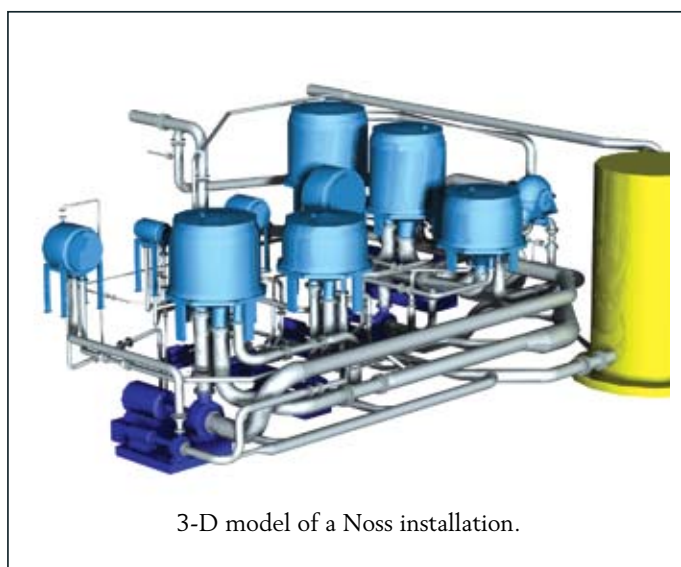
- Feasibility studies
- Project management
- Process engineering
- Mechanical engineering
- Procurement of auxiliary equipment
- Construction management

### Turn-key Installations

We undertake the supply of complete turn-key installations including the procurement of suitable auxiliary equipment, which enables us to take full responsibility of the installation.

### Detailed Engineering

We provide detailed engineering for all disciplines such as mechanical automation, electrification, piping etc.



3-D model of a Noss installation.

Our highly skilled professional engineers combine their experience and know-how with the latest CAD system in order to meet today's and the future's rigorous demands.

### UNIQUELY DESIGNED EQUIPMENT

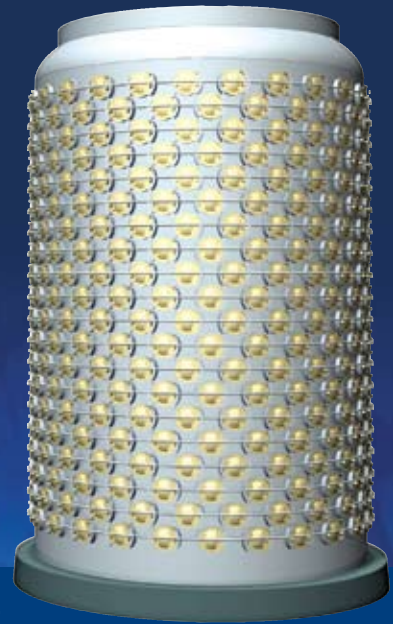
Noss process systems are based on uniquely developed equipment for fractionation, screening, hydrocycloning, deaeration, washing and dewatering.

### WORLDWIDE SERVICE ORGANIZATION

The worldwide Noss service organization makes sure that every Noss installation is served on a regular basis.

### FAST SPARE PART SUPPLIES

Our strategically located warehouses around the world ensure fast and reliable supply of spare parts.



### RADICLONE

Hydrocyclone systems for high pulp and paper quality. RADICLONE systems enable efficient fiber development processes for fractionation, heavy and lightweight contaminant removal and thickening.



### RADITRIM

The RADITRIM is designed for most efficient fiber recovery and is used for various applications and different pulp qualities. The RADITRIM is available either as a secondary knotter screen designed to operate along with Noss primary knotter or as a tailing fine screen in a Noss fine screening system.



### RADISCREEN

Pressurized screens widely used for knotter, fine, coarse and machine screening as well as fractionation.



### PERISCREEN

Pressurized screens for fine and machine screening of all pulp and stock types.



### PERIVAC

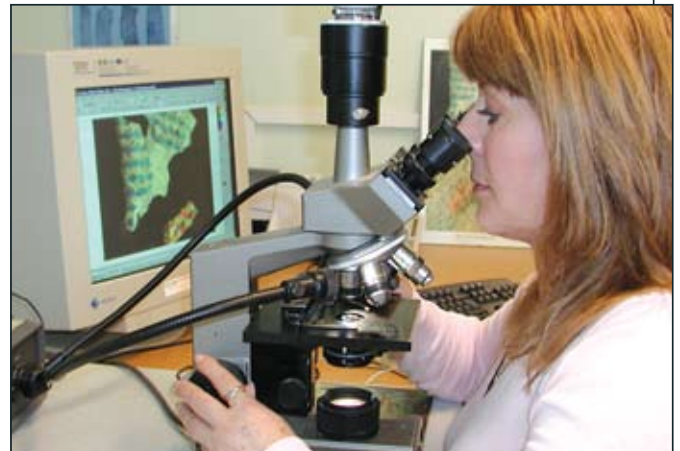
Space-saving deaerator designed for 100% air removal from all types of pulps.

# Laboratories and Pilot Plant

## Customer-oriented Research & Development

### DEVELOPMENT OF NEW PROCESSES AND EQUIPMENT

Noss puts high emphasis on the continuous development of new processes for the pulp and paper industry. In close cooperation with our customers we meet the challenge of finding solutions to future problems and requirements, taking into account our customers' own experience and specific knowledge. The activities at our Research and Development Department constitute the basis for the implementation of new systems and machinery.



Microscopic analysis at the Noss laboratories

### FIBER RELATED STUDIES AND RESEARCH

In our well-equipped laboratories we can carry out virtually any kind of fiber related study. We undertake analyses and investigations of paper characteristics, fiber properties, impurities and printability as well as dynamic flow processes.



Our full-scale pilot plant is adapted to perform reality-based trials for a variety of processes.



Advanced analysis methods are the basis for continuous research.

### CUSTOMER TRIALS

We perform customer trials both at our pilot plant in Norrköping and on site with mobile equipment. These experiments, carried out with the collaboration of our customers, are of vital importance in the constant quest of finding optimal process solutions. The pilot plant includes equipment for screening, cycloning, fractionation and selective treatment, such as beating and refining.





## LOCAL SUPPORT – WORLDWIDE

The global Noss organization is adapted to the pulp and paper industry's regional requirements. Through our own offices around the world we provide our customers with service and support close to their operations. Our service engineers regularly service all Noss installations in order to secure optimal operating conditions.

Warehouses in Europe, Asia and North America ensure fast availability of spare parts.



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