



The **tailored** solution for industrial ventilation



Lindab **Industrial Solutions**

Tailored solutions for ventilation and sound attenuation in industrial applications

Over 15 years of

Developing long-lasting solutions, tailored for tough environments and the most demanding requirements

Anyone that in some way works in industrial environments knows this; industrial applications are special. The environment is tough and the demands are in most cases extremely high. This, in turn, places huge demands on every component delivered to the application.

For more than 15 years, we have delivered more than 5,000 ventilation solutions for industrial applications. Each solution tailored to meet the highest standards of noise attenuation, efficiency and reliability in both performance, service and delivery.

More than
5,000
deliveries



Strong partnerships through tailor made services

Commitment to our customers and high-quality interaction during complex projects allows us to build long-term relationships with excellent results. We also know that saving time for designers and architects is important, which is why we offer simplifying services such as our own detailed selection software and an experienced technical support team. A rapid response and quick delivery of a completed system solution is our top priority.

A service level that simplifies your project

Our mindset is that your project should run as smooth and simple for you as possible, while the solution delivered to you is one you can trust for years to come. Through leading know-how, extensive project experience and a complete spectrum of industrial ventilation expertise, we keep our promise of simplifying construction.



Sound attenuation with guarantee

We provide sound attenuation solutions which include acoustic dimensioning and product manufacturing.

Case specific solutions

We offer our own designing and produce your products in our own factory. This means that we do not need to use external contractors. Instead we can flexibly tailor your products and the solution you require.

Metsä Group's
bioproduct mill in
Äänekoski

One of our many
references

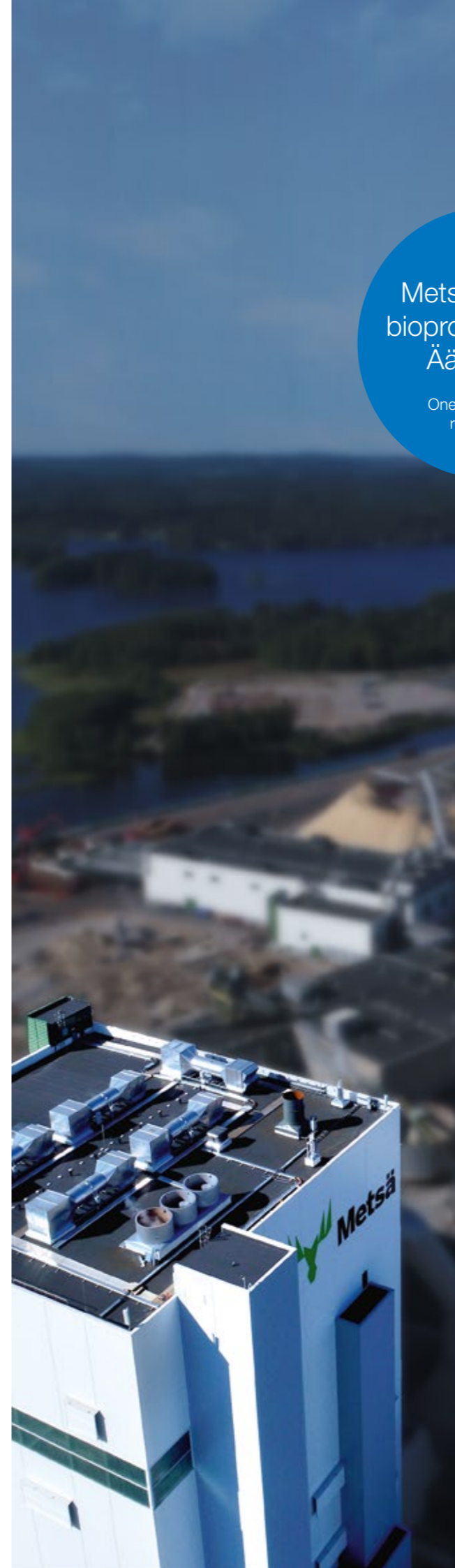


Sound mapping services

To find the perfect solution, we perform sound mapping at our customers premises. This way it is possible to tailor our products according to your specific needs.

The right products, in the right materials

To meet the requirements for successful implementation in demanding industrial projects, we help you get the right products developed in the right materials, and with the correct standard.



Case specific solutions, flexibly

We offer our own designing and produce your products in our own factory in Jyväskylä.
This means that we do not need to use external contractors. Instead we can flexibly tailor your products and the solution you require.

Simply tailored for your requirements.



Duct and fittings

- For process ducting welded products: ducts, bends, reducers, T-brances. Also according to customers drawings.
- For standard ventilation products and Safe fittings
- Also rectangular duct selection available



Diffusers for hall ventilation and offices

- A lot of different options for different air flows. Selection available www.lindqst.com



Grilles to inlet and outlet

- H3, H3 industrial grille
- Installation to wall
- Openable
- Lower pressure loss with special industrial grille



Smoke duct and fittings

- Circular and rectangular
- Classification according to EN13501-4



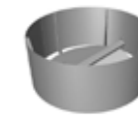
Silencers

- For processfan attenuation
- Hall ventilation
- Office ventilation

Benefits

For industrial requirements

- ✓ Higher air flows
- ✓ Total air tightness, gas tightness and water tightness if needed
- ✓ Material thickness up to 6 mm
- ✓ Material black steel, stainless steel, AlMg3 etc



Outlet dampers

- UPP, circular roof hood is intended for exhaust air for high airflows (Especially for industrial applications)
- VH is constructed as outdoor air inlet for industrial ventilation. Can also be used as exhaust air hood.



Fire dampers

- Circular and rectangular duct
- EI60, EI90 and EI120



Dampers

- Circular and rectangular duct

Tailored outlet duct solution for the Jokilaakso paper mill

Being a modern paper mill with the highest level of quality, the paper mill in Jokilaakso, Finland, have very high demands on all details concerning their business. Naturally, these demands also affected the planning, production and delivery of their new ventilation solution.

UPM Specialty Papers is located in Jämsänkoski, Finland. As the name implies, the mill produces special paper to cover labelling, packing, wrapping and printing needs.

Delivered duct system was installed as a part of exhaust duct. As mill has to fulfill environmental requirements also sound pressure level of the exhaust duct has to be taken care of.

Welded structures solved the problem

In the beginning of the project, representatives from Lindab and the Jokilaakso mill met to go through their different requirements regarding the ducts, such as sizes, materials and environmental requirements.



The products had to be produced in a thick, black steel, and no leaking through the seams was allowed. These requirements meant that we could not manufacture the ducts

and fittings in our Spiro machine. Instead, to come up with a solution to solve the problem, we did all parts as welded structures. Thickness of the plate was 1,5 mm and all parts was equipped with flanges to make the installation easier.



The outlet duct was assembled inside an existing paper machine hall. For the installation to not conflict with the customer's other installations and layout adjustments, we had to make sure that the delivery was just in time. The delivery included outlet ducts with bends, reductions and a silencer. The Silencer had to attenuate 15 dB of fan noise and it had to be openable with removable baffles.

Precise measurements

We specified the silencers according to the requirements while the sizes of ducts, bends and reductions, had to be measured precisely in the hall to make sure that they would not interfere with any existing bars or pillars.



Photo: UPM Paper

"Lindab fulfilled the expectations for managing duct and silencer designing and manufacturing, and practical implementation proceeded in good cooperation."

Aleksi Kyllästinen, Operation Manager, UPM Specialty Papers Production Unit

Simplifying complex solutions

With this delivery, the Jokilaakso mill got all products from one distributor. At Lindab, we made sure that all parts were compatible with each other and delivered on time. The attenuation of the silencer was as we had calculated while the measurements were taken and confirmed after the installation.

With Lindab's solutions, all ventilation parts can be manufactured from thicker materials and also as welded structures in our factory in Jyväskylä. All we have to know is the material and thickness of the duct system and the part sizes and connection types. After that we are able to offer a duct system tailored just for you, just like we did for this paper mill.

We simplify construction

At Lindab, we are driven by a strong desire to continuously generate improvements – for all the customers and partners who use our products and solutions, and for all the people who live or work in our buildings. We simplify construction and help create a healthy indoor climate. This means that fewer resources are used, to the benefit of the environment, and that people feel better and healthier. Our vision, optimal comfort, is about achieving the best possible indoor environment, where fresh air is naturally a fundamental requirement. With passion and knowledge, we are reinforcing our efforts to offer the best indoor climate solutions in healthy, sustainable buildings.

A good thinking company

Good thinking is a deeply rooted philosophy that guides us in everything we do. We believe that good thinking makes good solutions to the challenges we all face. Taking responsibility for what we do and how we do things is therefore important to us. Because good thinking is not only about making life simpler and more comfortable for our customers and end users. It's also about thinking in a global perspective, all the time. Knowing that we at Lindab are helping to make the world a better place.





Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do this by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do this by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. This means less carbon emissions in nature and less energy wasted.

We simplify construction