

Building & Industry

NOVENCO 

SCHAKO Group

Tunnel ventilation

More than 50 years of thrust



Reliable ventilation built for high performance

Building on a long tradition of engineering expertise, NOVENCO Building & Industry delivers reliable, high-performance ventilation systems for tunnels, car parks and complex non-residential buildings.

We design tailor-made, space-saving and low-sound solutions that fit your project exactly - improving safety, comfort and operational efficiency. Our long-standing expertise in tunnel ventilation, built on decades of successful projects in the Netherlands and beyond, ensures proven performance in critical environments.

Because we develop and manufacture all fans in-house at our advanced production facility in Denmark, you benefit from full design control, consistent quality and dependable delivery. Our access to one of the world's most advanced aerodynamic laboratories guarantees optimized performance and energy efficiency.

Certified to ISO 9001, ISO 14001, and KIWA NCP, NOVENCO offers you peace of mind: compliant, durable ventilation systems you can trust - today and in the future.

Ensuring tunnel safety and compliance for decades




Ensuring compliance with the Tunnel Law and the safe operation of rail and road tunnels requires continuous management and maintenance of ventilation systems.

Over decades, regular inspections and maintenance are essential to meet performance requirements and guarantee safety. To support this, NOVENCO Building & Industry often provides complete spare

fans as part of maintenance contracts, ensuring that any defective fan can be replaced within the agreed timeframe.

To maintain system reliability and safety, NOVENCO guarantees the availability of spare parts for at least 20 years, giving you peace of mind for long-term tunnel operation.



Trusted and efficient ventilation in the world's first energy-neutral tunnel

The Rottemeren tunnel near Rotterdam is the world's first energy-neutral tunnel. NOVENCO Building & Industry provided high-performance ventilation fans that ensure safe air quality by removing vehicle exhaust fumes and provide critical smoke extraction in case of fire.

This project demonstrates NOVENCO's expertise in delivering reliable, efficient and safety-critical ventilation solutions for cutting-edge tunnel projects across Europe.

Proven expertise across Europe

NOVENCO Building & Industry has a long history of successful tunnel projects across Europe. With numerous references in the Netherlands, Germany, Belgium, Sweden, Portugal, Spain, Iceland and Finland, we are recognized as a trusted partner in tunnel ventilation.

Our extensive experience in the Netherlands, home to many complex tunnels, has made NOVENCO a leading authority in delivering safe, reliable, and high-performance ventilation solutions.

From routine installations to highly specialized systems, our projects demonstrate our ability to meet stringent safety standards while providing long-term operational reliability. These references show our ability to deliver customized solutions that work in the most demanding conditions.

By choosing NOVENCO, you gain a partner with proven expertise and a track record of successful, long-lasting tunnel ventilation systems.



Corbulo tunnel



A2 Leidscherijn tunnel



Heinenoord tunnel



Gaasperdammer tunnel

Designed to save space

For projects with limited installation space, NOVENCO offers a specially designed range of rectangular tunnel jet fans.

Their compact design requires at least 20% less installation height compared to standard round tunnel fans, making them ideal for tunnels with restricted clearances or rectangular profiles.

This space-saving solution builds on NOVENCO's extensive experience in tunnel ventilation. For this particular design, specially engineered aerodynamic wing-shaped deflectors are used, resulting in significantly higher overall system efficiency than conventional air deflectors.

By reducing the required installation height, these fans allow for a lower overall tunnel height, delivering substantial construction cost savings over the entire tunnel length. At the same time, they maintain the high efficiency and proven performance of NOVENCO's renowned NovAx™ axial flow fan technology.


The result for you: greater design flexibility, lower construction costs, and dependable, high-performance ventilation - without compromising on safety or efficiency.

Compact fans for iconic tunnels

NOVENCO's space-saving tunnel jet fans have been installed in numerous underwater and city tunnels, where minimal installation height is critical.

Among our many prestigious references are the Maastunnel in Rotterdam, Piet Hein Tunnel in Amsterdam, A2 Leidsche Rijntunnel near Utrecht, Koningstunnel in Den Haag and Abdijtunnel in Hoofddorp.

These projects demonstrate NOVENCO's expertise in delivering compact, efficient and reliable ventilation solutions for some of the most challenging tunnel environments.



NOVENCO[®] rectangular tunnel
jet fans save installation
height by 20% while delivering
the proven efficiency and
performance of NovAx[™] fans
- compact, cost-effective and
reliable ventilation

About NOVENCO

NOVENCO Building & Industry is a global leader in high-efficiency ventilation solutions. With decades of engineering expertise, we develop fans and fan solutions that deliver exceptional energy efficiency, reliable performance and long-term durability - even under the harshest conditions.

The flagship ZerAx® fan series sets the benchmark for efficiency, durability and environmental performance across industrial and commercial applications.

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