Pure competence in air.

COMPANY PROFILE TUNNEL VENTILATION SINCE 1970



INNOVATION AND QUALITY THANKS TO OWN PRODUCTION

With over 60 years' experience, NOVENCO Building & Industry is a leading global supplier of ventilation systems in a range of sectors. NOVENCO in Bergschenhoek specializes in ventilation systems for tunnels, car parks and special applications in the non-residential building sector.

Back in the 1970s, NOVENCO supplied the ventilation system for the Kiltunnel under the Dordtse Kil. Since then, NOVENCO has developed into a specialist in tailor-made, space-saving and low-noise tunnel ventilation systems and has grown into a leading company within the Netherlands.

Our R&D department has access to one of the most advanced aerodynamic laboratories in the world.

NOVENCO has a production facility in Denmark with a production area of approximately 30,000 m², where all fans are developed and produced.

As NOVENCO manufactures its fans in-house, you are guaranteed a tailor-made solution to your specific needs. This unique combination results in innovative products characterised by very high quality and reliability.

NOVENCO Building & Industry is ISO 9001 and ISO 14001 certified, guaranteeing all quality processes.

NOVENCO B&I B.V. is also a KIWA NCP certified smoke control company.





TUNNEL VENTILATION FOR COMFORT AND SAFETY

The design requirements of today's tunnels are very demanding. Comfort and safety are important parameters in the design. High requirements are set for the fire resistance and noise characteristics of the ventilation system. Thanks to years of experience, NOVENCO has the products and expertise to meet every challenge in tunnel ventilation.

With a special tunnel ventilation department, NOVENCO is a partner who understands how to tackle a challenge. Our team of motivated, well-trained employees forms the basis of your success through flexibility and direct communication. If required, NOVENCO also offers turn-key solutions from detailed consultation up to and including aftercare.

Every tunnel ventilation challenge requires a suitable solution. NOVENCO can provide just the products to complete systems. However, it is not the specifications that make the solution unique, but the specific user demands. This is why Novenco attaches value to clearly understanding these requirements to ensure that the system will meet all demands and wishes.

As a system supplier, NOVENCO can dimension systems using deterministic and probabilistic calculation methods.

After production, the tunnel fans are subjected to a Factory Acceptance Test (FAT), while the operation of the entire system is assessed during extensive System Acceptance Tests (SAT).





ENSURING AVAILABILITY AND SAFETY

In order to meet the obligations of the Tunnel Law regarding the availability of the ventilation system, management and maintenance of rail and road tunnels are of vital importance. Over a period of many decades, inspections and maintenance must be carried out in order to continue to meet the performance requirements and guarantee safety.

This also means that NOVENCO Building & Industry B.V. often has complete spare fans available within the maintenance contract, to ensure replacement of defective fans within the agreed time.

To ensure the availability and safety of the systems, the availability of spare parts is guaranteed by NOVENCO for at least 20 years.





REFERENCES ROAD- AND RAIL TUNNELS

Country	Location	Project	Туре	Length [m]	Construction	Year
Netherlands	Dordrecht	Kiltunnel	Road	901	Newly built	1977
Netherlands	Rotterdam	Botlektunnel	Road	1.181	Newly built	1979
Netherlands	Zaanstad	Hemtunnel	Rail	2.400	Newly built	1980
Netherlands	Amsterdam	Schipholtunnel	Road	660	Newly built	1988
Netherlands	Amsterdam	Zeeburgertunnel	Road	946	Newly built	1989
Netherlands	Alblasserdam	Noordtunnel	Road	1.270	Newly built	1991
Netherlands	Heinenoord	Heinenoordtunnel	Road	1.064	Renovation	1991
Netherlands	Dordrecht	Drechttunnel	Road	823	Renovation	1991
Netherlands	Rotterdam	Willemspoortunnel	Rail	3.164	Newly built	1992
Netherlands	Rotterdam	Botlektunnel	Road	1.181	Renovation	1994
Netherlands	Beverwijk	Wijkertunnel	Road	2.000	Newly built	1996
Netherlands	Leiden	Stationspleintunnel	Road	500	Newly built	1996
Netherlands	Amsterdam	Piet Heintunnel	Road	1.900	Newly built	1996
Netherlands	Amsterdam	Schipholspoortunnel	Rail	5.780	Newly built	1997
Portugal	Serra da Gardunha	Gardunha Tunnel	Road	1.580	Newly built	1997
Netherlands	Heinenoord	2e Heinenoordtunnel	Road	1.600	Newly built	1998
Netherlands	Amsterdam	2e Schipholtunnel	Road	660	Newly built	1998
Netherlands	The Hague	Koningstunnel	Road	750	Newly built	1998
Netherlands	Pernis	Leidingtunnel Oude Maas	Service	481	Newly built	1998
Netherlands	Amsterdam	Schipholtunnel	Road	660	Renovation	1999
Netherlands	Best	Spoortunnel Best I	Rail	1.890	Newly built	1999
Netherlands	Rotterdam	2e Beneluxtunnel	Road	1.348	Newly built	2000
Netherlands	Rozenburg	Calandtunnel	Road	1.135	Newly built	2001
Netherlands	Amsterdam	Piet Heintunnel (IJ-tramtunnel)	Rail	1.900	Newly built	2001
Netherlands	Maastricht	Tunnel Markt-Maas	Road	700	Newly built	2002
Germany	Jena	Tunnel Uniklinikum	Road		Newly built	2002
Netherlands	Best	Spoortunnel Best II	Rail	1.890	Newly built	2002
Spain	Bilbao	Ibarrekolanda Tunnel	Road	450	Newly built	2003

REFERENCES





TUNNEL A2 LEIDSCHE RIJN



GARDUNHA TUNNEL

Country	Location	Project	Туре	Length [m]	Construction	Year
Netherlands	Dordrecht	Spoortunnel Dordtsche Kil	Rail	2.588	Newly built	2004
Netherlands	Zwijndrecht	Tunnel Oude Maas	Rail	2.500	Newly built	2004
Netherlands	Leiderdorp	Tunnel Groene Hart	Rail	8.670	Newly built	2004
Portugal	Porto	City Tunnel Oporto	Road		Newly built	2006
Portugal	Porto	Aeroporto Metro Porto	Rail		Newly built	2006
Finland	Helsinki	Outer Ring Road III	Road	1.520	Newly built	2007
Netherlands	The Hague	Randstadrail	Rail	1.250	Newly built	2007
Netherlands	Dronten	Drontermeertunnel	Rail	1.300	Newly built	2007
Netherlands	Rotterdam	Botlektunnel	Road	1.181	Renovation	2008
Sweden	Stockholm	Söderleds Tunnel	Road	1.550	Renovation	2008
Finland	Muurla	E18 Expressway	Road	2.242	Newly built	2008
Netherlands	Utrecht	Tunnel A2 Leidsche Rijn	Road	1.650	Newly built	2009
Netherlands	Zuid-Beveland	Vlaketunnel (escape routes)	Road	774	Renovation	2009
Portugal	Porto	Trofa tunnel	Rail	1.404	Newly built	2009
Iceland	Ólafsfjördur	Héðinsfjarðargöng tunnel I	Road	3.700	Newly built	2010
Iceland	Ólafsfjördur	Héðinsfjarðargöng tunnel II	Road	6.900	Newly built	2010
Netherlands	Amsterdam	Metro Amsterdam (East Line)	Rail		Renovation	2010
Netherlands	Alblasserdam	Noordtunnel	Road	1.270	Renovation	2011
Netherlands	Amsterdam	Zeeburgertunnel	Road	946	Renovation	2011
Netherlands	Amsterdam	Coentunnel	Road	1.283	Newly built	2012
Netherlands	Amsterdam	IJtunnel	Road	1.682	Renovation	2012
Netherlands	Nijverdal	Salland-Twentetunnel	Road	1.500	Newly built	2013
Belgium	Brussel	Schuman-Josafattunnel	Rail	1.250	Newly built	2013
Netherlands	Utrecht	Stadsbaantunnel Leidsche Rijn	Rail	1.650	Newly built	2014
Netherlands	Amsterdam	Michiel de Ruytertunnel	Road	360	Newly built	2014
Netherlands	Schiedam	Ketheltunnel (escape routes)	Road	1.950	Newly built	2014
Netherlands	Sluiskil	Sluiskiltunnel	Road	1.145	Newly built	2015
Netherlands	Amsterdam	Abdijtunnel	Road	1.800	Renovation	2015
Netherlands	Maastricht	Koning Willem-Alexandertunnel	Road	2.300	Newly built	2015
Netherlands	Amsterdam	Gaasperdammertunnel	Road	3.000	Newly built	2016
Netherlands	Rotterdam	Beneluxtunnel	Road	1.300	Renovation	2016
Netherlands	Dordrecht	Drechttunnel	Road	823	Renovation	2016
Netherlands	Rotterdam	Maastunnel	Road	1.373	Renovation	2017
Netherlands	Voorschoten	Tunnel Rijnlandroute	Road	2.520	Newly built	2018
Netherlands	The Hague	Koningstunnel	Road	750	Renovation	2018
Nethenanas						
Netherlands	Rotterdam	Rottemerentunnel	Road	2.235	Newly built	2019

SLUISKILTUNNEL GHENT-TERNEUZEN

11

The Sluiskil Tunnel was opened in 2015 and is a road tunnel with a total length of 1.145 m under the Ghent-Terneuzen Canal near Sluiskil.

