



**VAN TONGEREN-
KENNEMER BV**

ENGINEERS WHO DELIVER

**DESIGN & MANUFACTURING
SINCE 1893**

ENGINEERS WHO DELIVER

High performance industrial solutions

We have a strong engineering basis to tailor the systems and components to the client's requirements, such as:

- Drying and cooling
- Combustion air
- Dust collection
- Bulk handling and transport
- Air/gas handling and cleaning

Engineers who deliver systems and components

We design and manufacture systems and components, and provide long-lasting and reliable products within:

- Fans and blowers
- Disintegrators and feeders
- Cyclones
- Screw presses
- Screw conveyors
- Mixers

- Dampers
- Bag filters
- Turnkey drying and cooling systems

Engineers who deliver a reliable process

With our extensive knowledge of the day-to-day operational challenges, we are able to deliver a reliable, stable and energy-efficient process for our clients, requiring minimal attention from the operators and ensuring maximum output for the installation.

Engineers who deliver continuous support

Although a lot of the equipment we deliver is operational for several decades, you can rely on us for spare parts, maintenance, support and repair. VTK can offer the revamping of complete systems, the repair of equipment including other brands, up to complete preventive maintenance programmes.



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Esco Aandrijvingen BV: Proud to be supplier
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Van Tongeren Kennemer are specialists in process engineering and equipment manufacturing for air/gas/solids systems. Because of our extensive experience as a preferred vendor, our combined systems contribute to an increase in knowledge that allows our clients to maximize their output.

We always focus on your organization and existing processes to achieve a maximized output.

Van Tongeren Kennemer was founded in 1893 by Martinus Witkamp. During the first couple of years, the company manufactured bicycles, in later years adding cars and motorcycles.

During the 1920s, the company specialised in manufacturing fans and blowers. The name was changed to "Kennemer Machinefabriek" (Kennemer Machine Factory) and in the early 1940s, the company started to work in close cooperation with "Ingenieursbureau van Tongeren" (Engineering Office van Tongeren).

The 1930s again brought a name change, this time to "Kennemer Luchtbehandeling" (Kennemer Air Treatment).

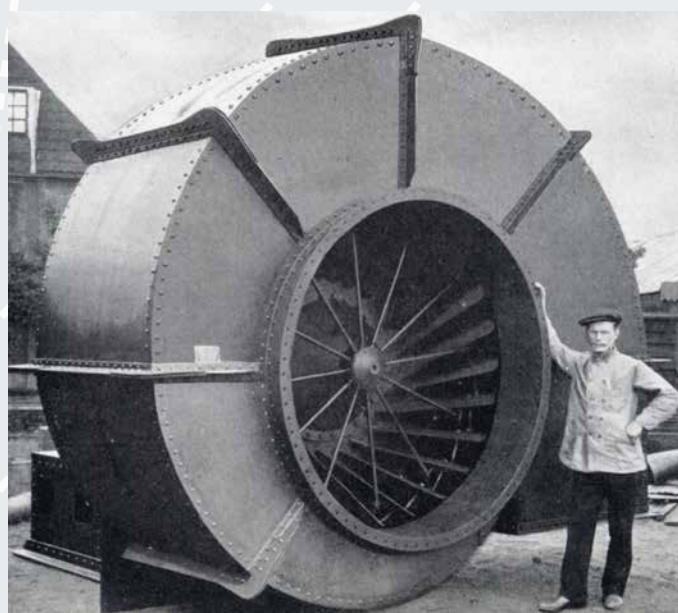
Specialised in equipment in the field of dust treatment, such as cyclones and filters. Segment-cutting machines, scissor lifts and large fans were also manufactured.

In 1991, "Kennemer Luchtbehandeling" and "Ingenieursbureau van Tongeren" merged, thus establishing Van Tongeren Kennemer B.V.. Engineering and production finally came together under one roof.

The company moved to a new, modern building in 1994. At Van Tongeren Kennemer, modern equipment, up-to-date expertise and more than 110 years of engineering and production experience meet in one company. Van Tongeren Kennemer today counts companies from food, chemical and petrochemical industries among its customers.

An important part of "Spaans Bulk Handling Systems BV" from Hoofddorp, whose screw conveyors are known all over the world, was included in the group in 2004.

In 2017 Van Tongeren Kennemer changed its tradename to VTK.



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CUSTOMIZING - THE FUTURE OF VTK

VTK sees an ever growing trend of specialised processes at our customers with a demand for equally specialized equipment and systems. To VTK it comes naturally to look further than just a piece of equipment and more to the process where this piece of equipment is used in. This attitude has resulted in an extensive process knowledge of various market segments so we can provide customized solutions to our clients. The customization we already have is highly appreciated by our customers and will be further developed at VTK in the future .

We are moving fast towards the future with innovative techniques such as robot welding, 3D laser scanning of existing installations, cloud based modelling of 3D drawings, remote monitoring of equipment and/or remote controlling of processes.

Furthermore we are expanding our local work force and network of agents and local offices to be ready for the ever growing demand for our products worldwide.



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FANS AND BLOWERS

Decades of experience in design, building and testing of both customized as well as standardised industrial blowers have resulted in VTK being able to offer a solution for virtually any demand in terms of required airflow and pressure for all types of industrial gases. VTK fans and blowers offer an efficiency among the highest in our industry. Depending on the application area, various types of impellers are available in single and multistage configuration. VTK blowers and fans can be equipped with a range of options to fit your specific need, such as: vane control, surge control, silencers, acoustic enclosure, special shaft seals, inlet air filter, FD speed regulation, cooling ribs, pressure vessel design, condition monitoring, special materials, coatings.

K-type

- Standardised K-type fans for low flow, low pressure applications
- Flow up to 20 m³/sec
- Differential pressure up to 2500 Pa
- Temperature range from -20 °C to +60 °C
- Carbon or stainless steel
- Fully adjustable discharge position

E-type

- Standardised E-type for low flow, medium pressure applications
- Flow up to 15 m³/sec
- Differential pressure up to 4800 Pa
- Temperature range from -20 °C to +60°C
- Carbon- or stainless steel
- Fully adjustable discharge position

Industrial Fans & Blowers

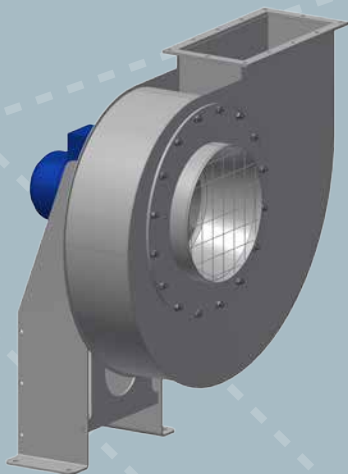
- Completely designed and built to client specification
- Flow up to 100 m³/sec
- Differential pressure up to 250,000 Pa
- System pressure up to 10 barg
- Impeller diameter up to 4000 mm
- Temperature range from -50 °C to +500 °C
- Designed for various types of industrial gasses
- Built according to API standard 560 and 673
- Suitable for Atex zones 1,2,21,22

Customized solutions

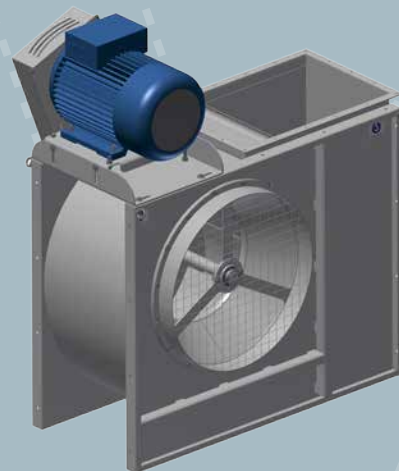
Dimensioning, material choice and impeller type depends on the actual requirements in terms of airflow, pressure, temperature and type of industrial gas to be handled. VTK can provide a tailor made solution for your specific situation.



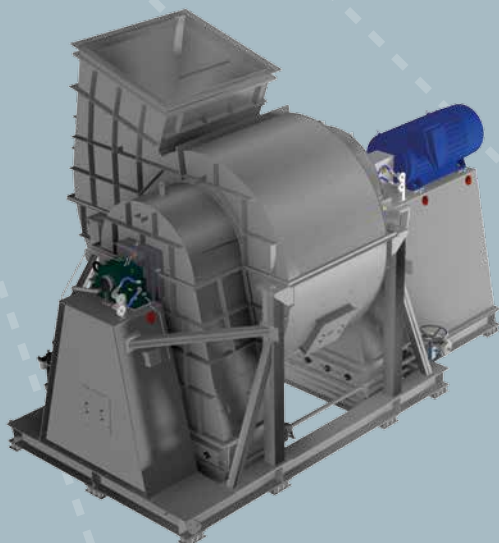
K-type



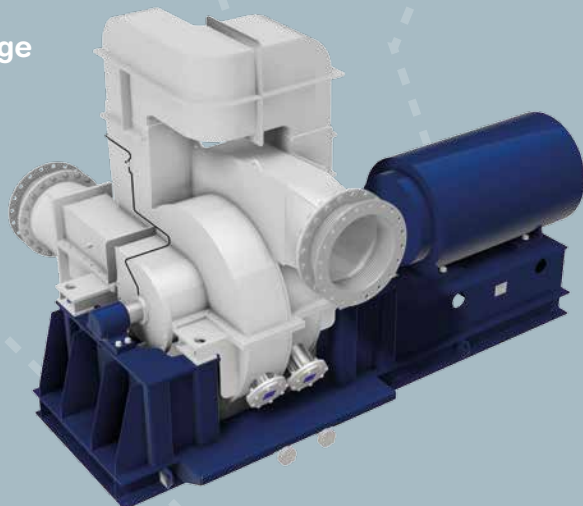
E-type



Industrial fan



Multistage blower



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TUBE BENDING AND MORE

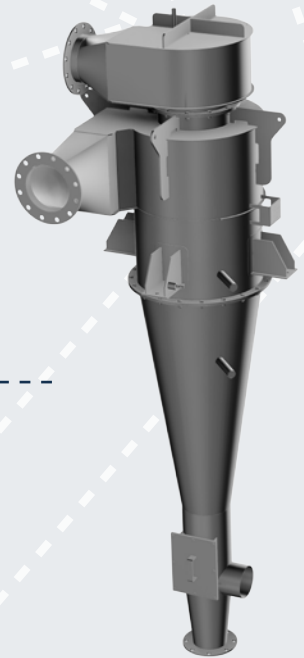
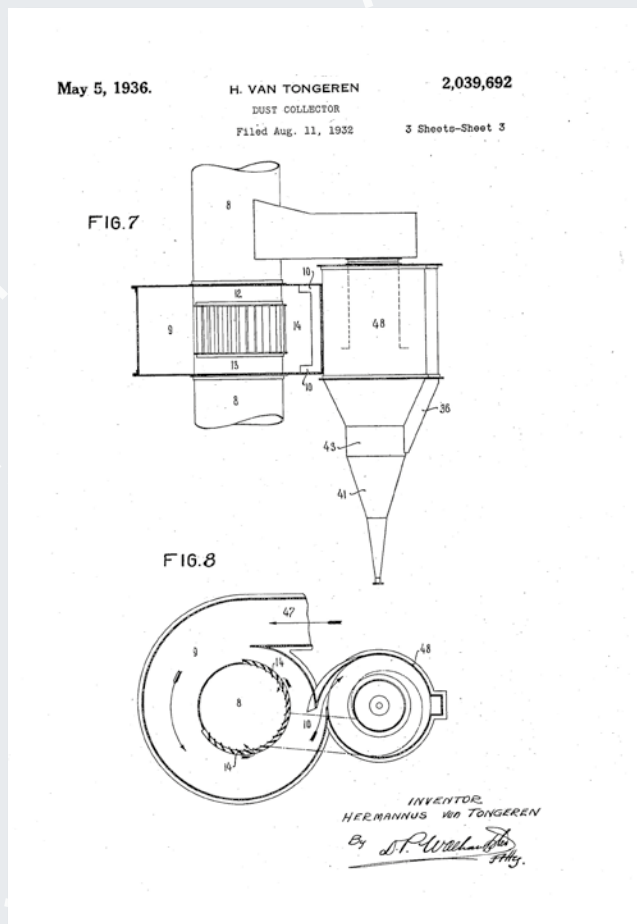


CYCLONES AND FILTERS

Clean air/dust reduction has been an important drive for VTK from the beginning, more than a century ago. Not only did VTK invent a far superior cyclone system in 1927, now copied worldwide we also continue to develop systems to improve dust reduction. VTK offers a wide range of solutions to deal with this issue, ranging from bag filters and special cyclones to Barcol scrubbers. We are happy to assist you in finding the right solution.

Cyclones

- For materials that cannot be filtered using conventional filtering techniques.
- Conventional cyclones
- Axial cyclones
- Multicyclones
- High-temperature cyclones
- Cyclones as pressure vessels





FILTERS

VTK bag filters with pulse-jet cleaning, for product recovery and/or as dust collector to meet the required emission level. VTK delivers high quality standard or tailor made bag filters in rectangular or cylindrical execution from carbon steel or stainless steel with the following features :

- Filtration area ranging from 5 to 3000 m².
- Operating temperature up to 250°C.
- Design pressure from -0,5 to +20 bar(g)
- Anti-static execution with earthed filter bags through stainless steel wire or carbon fibre.
- Atex execution with bursting panels or explosion hatches, designed for the reduced explosion pressure.
- Food grade execution possible.
- Pre-separator part for high dust loads.
- Insulation and/or tracing possible.



SCRUBBERS

VTK scrubbers for dust emission reduction and/or heat recovery. VTK delivers high quality standard or tailor made scrubbers in stainless steel with the following features :

- High efficiency.
- Low energy consumption.
- Fixed pressure drop so stabile process.
- Possible re-circulation of spraying fluid to reduce liquid consumption.
- Food grade execution possible.

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VTK SCREW CONVEYORS

Transport. From A to B. Horizontally, vertically or diagonally. That is, what VTK screw conveyors are meant to do. But there is more to it than just that!

From sifting to dewatering

What makes our screw conveyors special, is the additional functionality we can add to them. Functionality like sifting, conditioning, dosage, blending or dewatering. Besides the extra functionality, we design each screw conveyor specifically for the load it is supposed to transport, thus realising a total solution that flawlessly connects to your process.

Reliable screw conveyors

Our screw conveyors are renowned for their reliability. We add as little vulnerable parts as possible, reinforce the construction by using flexible intermediate bearings and ensure that maintenance will be an easy job for you to do. In this way, VTK screw conveyors will stay in shape, last for a long time and become a stable factor within your production process.

VTK designs and delivers

- Horizontal screw conveyors
- Inclined screw conveyors
- Vertical screw conveyors
- Mixers, single or multiple shafted
- Cooling and heating screws
- Residence time screw conveyors
- Sludge conveyors
- Underwater screw conveyors
- Screw presses
- Sieve screws
- Live bottoms with multiple screws
- Screw blanchers
- Screw blades and screw components

Design variables

The actual configuration of a screw conveyor or mixer depends not only on the type of bulk material to be handled, but also on aspects such as humidity, temperature, Atex zoning as well as the actual process requirements. VTK/Spaans conveyors can be equipped with a range of blade types (full blade, ribbon, paddle blade and a combination of these), blade configurations (wear resistant, perforated blades, synthetic cladding) as well as pitch and diameter variations.

Futhermore the screw conveyors are available with a range of inlet- and discharge systems, and various types of housing (carbon or stainless steel, flexible housing, pressure vessel design).



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DRYERS AND COOLERS

VTK engineers, manufactures and install pneumatic dryers (flash dryers, P-type dryers or ring dryers), suitable for all applications that include powder-type bulk products.

The process is easily controlled by monitoring a limited number of parameters and regulating the inlet temperature and the product feed. Indirectly heated through heat exchangers or directly fired through a burner, the pneumatic dryers will convey the product through the system by means of a centrifugal fan to the cyclones or filters.

Flash Dryer

- Removal of surface moisture in a single stage
- Short residence time
- Easy to operate

Ring Dryer

- Removal of surface moisture and bound water
- Extended residence time due to internal recycling of heavier wetter particles
- For products less sensitive to heat. Internal recycling to a section with high temperature to minimize the size of the dryer.
- Possibility of coating of wet feed with external recycle material

Designing a dryer system, suitable to work with your products and your production volume and furthermore have an ease of operation, maximal up-time, minimal energy consumption, maximum energy recovery and minimal exhaust pollution is very much a tailor-made process.



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VTK IS COMMITTED TO HELPING OUR CUSTOMERS PROSPER

One of the main goals at VTK is decreasing the customers energy consumption and therefore reducing their environmental impact and carbon foot print. VTK delivers high efficiency equipment from which we can build low energy consuming systems, contributing to the clients efficient production every single day.

Environmental improvement is becoming ever more important in the industry but for VTK this is nothing new, it is incorporated in our DNA. As inventor of the cyclone by engineer Van Tongeren in the 1920's we are reducing dust emissions for almost a century, where even nowadays we often still can meet the stringent environmental requirements for dust emissions using Van Tongeren cyclones.

Another example is the development of the Kennemer centrifugal fans, which started in the 1960's and resulted in fans with exceptionally high efficiencies up to 90%.

Apart from the high efficiency, our products have a high sustainability with a long lifetime using renewable and eco-friendly materials, contributing to a circular economy. An equipment lifetime of more than 30 years is more of a rule than an exception.

VTK is always improving through Research & Development to make our equipment more efficient and to developing ingenious process solutions.



Abacus shaft seals and seal gas control systems for industrial fans, blowers, compressors, steam turbines, centrifuges, ovens for heat treatment, etc.

LeakProof bv • Attn. Mr. Rob Godlieb

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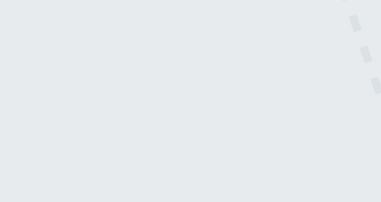
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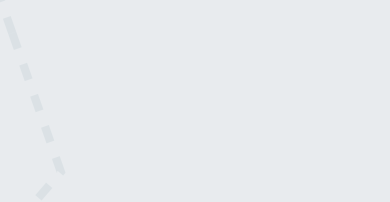
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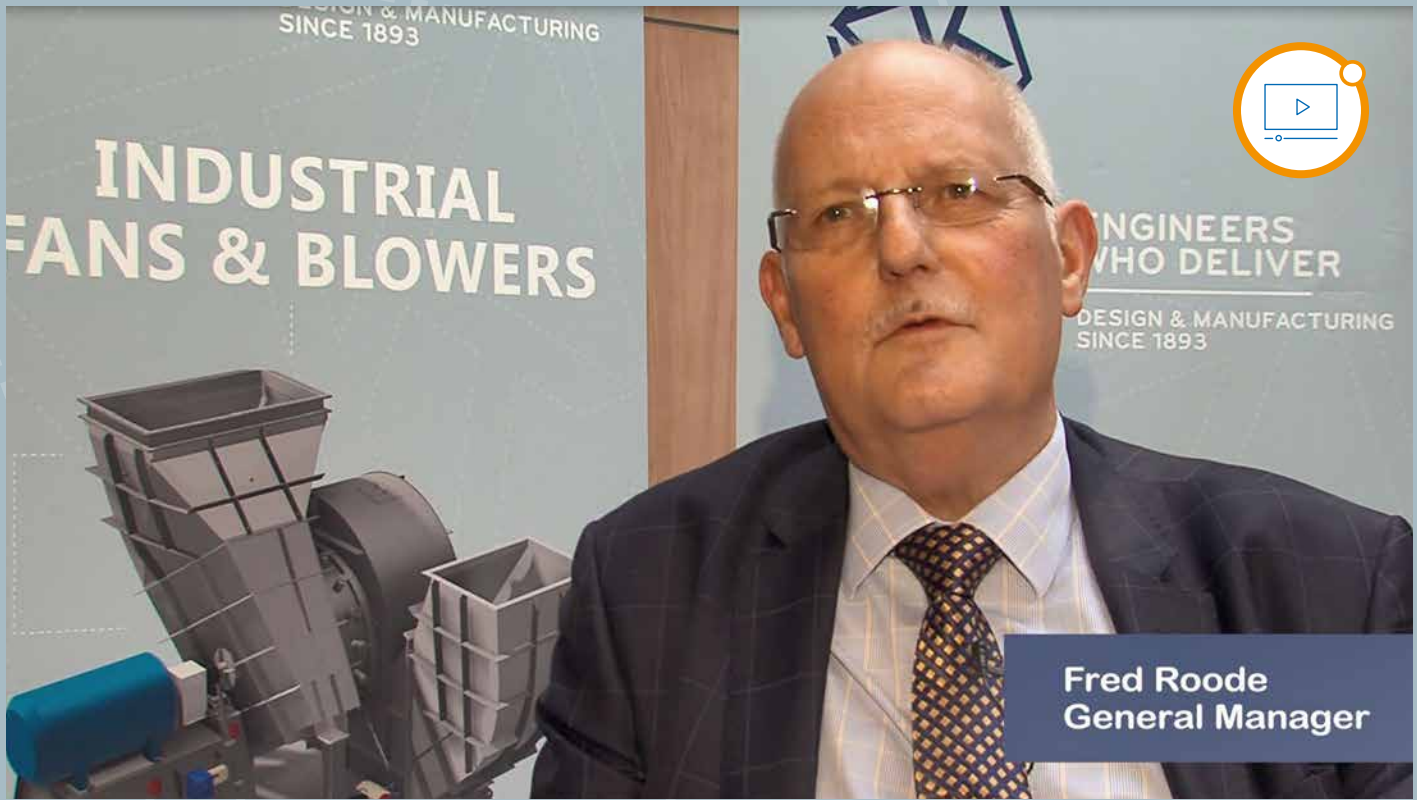
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