

# Venti Services

We make air work for you



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Air is our medium. For us research and development, planning and consulting, production and service are all about innovative air technology.

Fans and systems from Venti Oelde are used in almost all industries worldwide. With their industry-specific know-how, our experienced and dedicated team of around 250 specialists puts the individual needs of our customers first,

without straying from important economic considerations.

#### **Our product portfolio includes:**

- Industrial fans
- Dust collection and process air cleaning plants
- Exhaust air treatment plants
- Ventilating, heating and air conditioning plants
- Recycling and waste processing plants

- Surface technology
- Services such as maintenance, repairs, testing, system modernization (also for third-party products)



#### Our expertise is in demand in many sectors:

Cement, lime and gypsum industry

Chemical industry

Printing, paper and cellulose industries

Mechanical engineering

Automotive industry

Metal production and processing

Timber industry

Energy production and generation

Waste management

Recycling industry

Glass making

Mining

Animal feed industry

Textile and fibre industry

Our comprehensive services build and promote trust for long-term, successful partnerships. Our global offices and representatives ensure we can provide qualified support close to our business partners.

Venti Oelde is certified according to these relevant international standards  
Quality guidelines:

- DIN EN ISO 9001:2015
- European product and operating guidelines for explosion protection according to ATEX
- European standards for welding pressure equipment and structural steelwork

Our specialist staff have also received extensive training in safety, health protection and environmental protection and been independently tested according to the Safety Certificate Contractors SCC occupational health and safety management system in accordance with Doc. 018.

# Research and Development – Practical Innovation

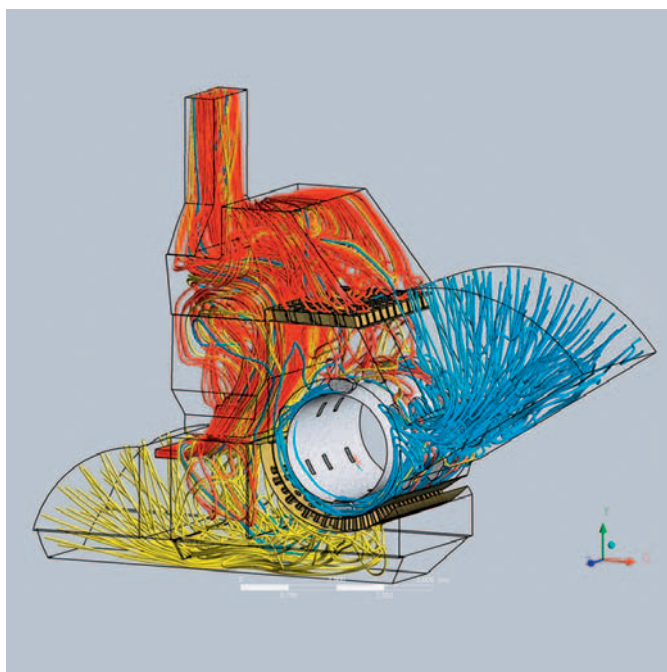
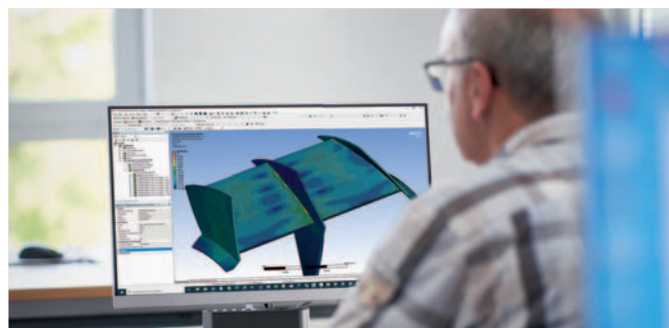
We tackle new challenges with our wide ranging expertise and a lot of curiosity.

We are always trialling new processes in our testing and experimental labs - enabling us to develop innovative, long-term strategies for complex requirement profiles. We analyse material samples in order to develop suitable processes for separation, comminution and transport. We build prototypes, test them and use them to develop optimal products together with our customers.

We employ numerical fluid dynamics (computational fluid dynamics, CFD) to precisely calculate technical flows using numerical approaches. It is indispensable for optimising and redesigning turbomachines and is also ideal for correcting flow problems on-site.

We are only satisfied when our ideas prove themselves in practice and we can identify 100% with the results. It's this high standard that allows us to offer our customers a technological edge in their competitive environment.





We believe that economic operations are built on sound planning. Based on a review of the current situation and performance measurements, Venti Oelde configures fans according to the individual requirements of our customers. We also investigate the potential to optimise existing systems.

We leverage our expertise in aerodynamics, acoustics and vibration technology to continuously develop our fans and systems.

# Installation and Commissioning – Experts On-Site



Installation and commissioning of the systems and fans that we design and manufacture are performed by our specially trained experts. They will configure the system to the defined requirements and regulate it.

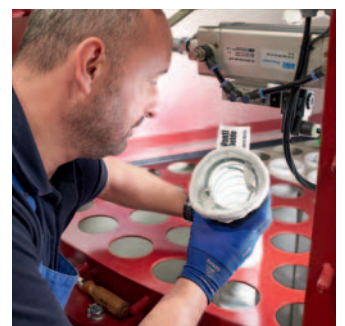
The service includes, among other things:

- Trial runs
- Vibration measurements
- Laser optical alignment
- Sound measurements
- Operational data measurements

We document any balancing work in a balancing report. Finally, we instruct your employees thoroughly and train them in system operation as well as its functions.

If the customer's own team takes over installation and commissioning, our experts can monitor the work in parallel.

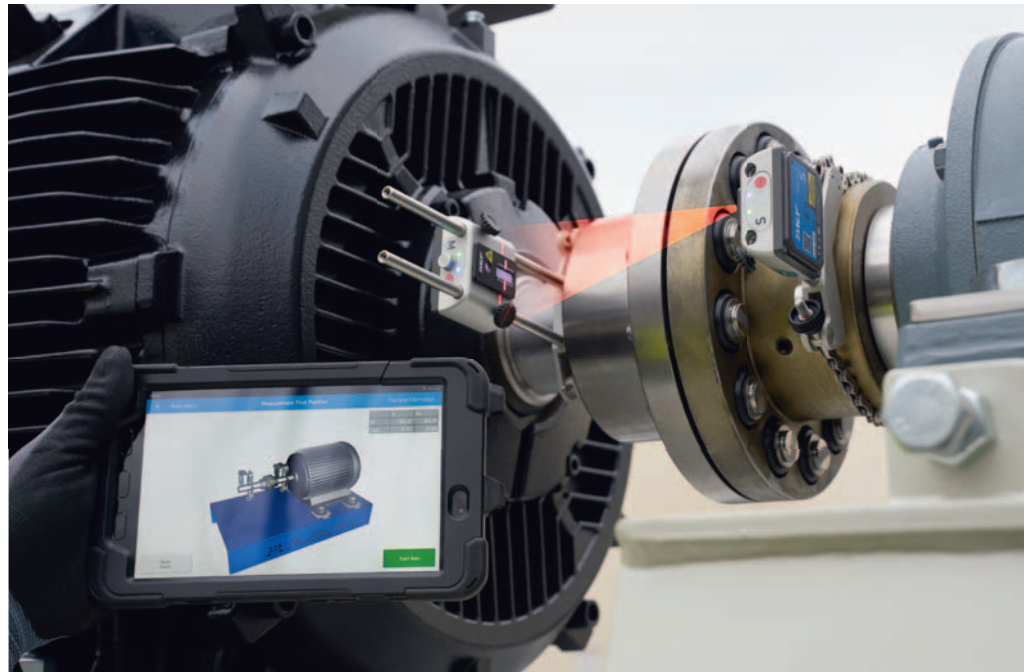
If a process has to be interrupted to expand or repair a system during operation, we can also work nights and weekends to minimise downtime.





We use laser optics to align the shaft, coupling, motor or belt drive of our fans to high precision – horizontally and vertically. Logs and reports are used to document the results.

This avoids increased vibrations, prevents wear, increases reliability and extends the service life of our fans.



# After-Sales Service – Own Systems and Third-Party Products

We'll still be happy to assist you, even after installation and commissioning. We offer all of our after-sales services for our own products as well as those of third-parties.



## Spare Parts Service

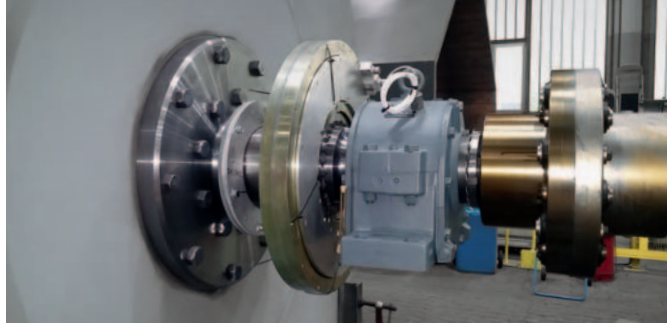
Rapid technical support from Venti Oelde also includes a fast and comprehensive supply of spare parts. We can also help you decide which parts to keep in stock yourself.



## Machine Diagnostics

We'll increase the reliability of your production via a visual inspection of your systems and fans, using measurements, spare parts analysis as well as consulting and engineering. This prevents costs due to failures in closely linked production processes.





### System optimisation

Our engineers will also advise you on optimising your systems and fans, for example to adapt them to changing requirements. Benefit from our raft of experience in comparable applications.

We exploit our knowledge in aerodynamics, acoustics and vibration engineering in the continuing optimisation process of our systems.

### Preventive Maintenance

We perform preventive maintain on systems and fan impellers, because oscillations, vibrations or noise can build up if an impeller becomes unbalanced, leading it to wear out faster or become damaged.

We therefore balance rotors statically and dynamically in our factory. We also offer mobile balancing on-site, where we measure each individual part and take their cumulative influence into account. This saves on disassembly and re-assembly.

# Maintenance and Monitoring – Prevention Is the Best Medicine



## Maintenance Contracts

A maintenance contract from Venti Oelde guarantees regular inspection and maintenance. We also check the systems and fans against the current accident prevention regulations (UVV). We are happy to arrange schedules to suit your operational needs, for example to coincide with company holidays.

### That speaks for itself

- Longer lifetime
- Increased availability
- Minimal disruption
- Maximum operational safety
- Optimised operational processes
- Far-reaching planning security
- On-time delivery & quality control



## Monitoring with Venti SmartControl

Venti **SmartControl** allows us to offer our customers remote system monitoring. This digital measurement and control technology consists of hardware and software. By measuring, monitoring, reporting and recording the most important parameters of industrial systems, it provides early warning of specific irregularities. This allows us to perform fast and precise error analysis.

The tool is recommended for all industrial systems in which temperatures, pressures, operational performance, consumption, fill levels and numerous other parameters are important.



**Venti SmartControl is available in two variants**

### Venti Tool Box

The Venti Tool Box is primarily used to modernise existing Venti systems. It is largely pre-configured, making it sufficient to record the previously known measuring points and to coordinate them to the individual plant.

### Advanced Control Technology

For new and old systems where the control system is being replaced, we customise Venti **SmartControl** to match your specific requirements precisely. This opens up numerous additional functions such as operating hours counter and energy monitoring, daily, shift and monthly overviews – as well as operating data processing in Excel and PDF format.



#### The advantages

Longer running times

Minimised risk of failure

Efficient operation

Reduced consumption

Low maintenance

Time saving

Convenient operation

# Repairs and Refurbishment – Low Cost Renewal of Old Systems

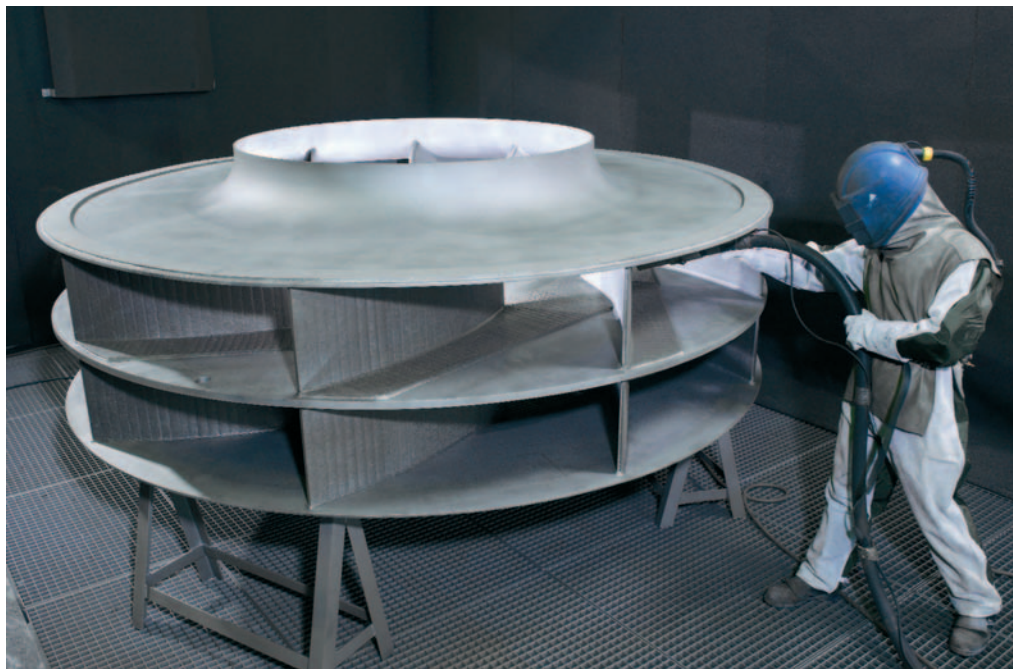
Refurbishing old systems is a cost-effective alternative to purchasing new ones. That is why Venti Oelde offers a comprehensive service concept for both its own products as well as those of third-parties.

Depending on requirements, we carry out a quick repair on-site, replace worn parts, balance the system or perform general optimisation work. We undertake extensive repairs in

the Oelde factory, where our quality management ensures fast procedures at the lowest costs. Finally, we thoroughly check and log all work.

By refurbishing fans and old systems, Venti Oelde is able to meet its goals of contributing to the regenerative recycling economy: re-using components and materials to conserve natural resources. A sustainable and economical solution.

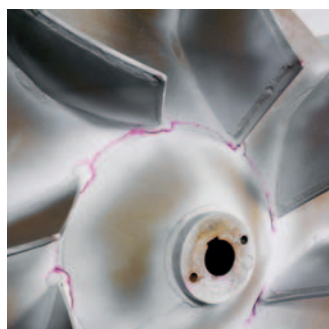




In many cases, just updating the fan can lead to significant improvements in performance and energy savings. Venti RetroFit allows us to make centrifugal fans as good as new – at significantly reduced costs compared to new purchases.

The benefit of a RetroFit is obvious:

- Higher efficiency through energy savings
- Extension of system service life
- Increase in production volume
- Reduction of noise level
- Reduction of your CO<sub>2</sub> emissions
- Minimisation of downtime
- Reduction of operating and maintenance costs
- Assured spare parts availability
- Compliance with legal requirements



# Modular Wear Protection – Highly Efficient and Cost-Effective

We supplement obligatory wear protection for fans with six modules for areas that are particularly risk prone. Depending on the load, we'll only have to replace individual modules or use wear protection materials in a very targeted manner. This saves costs and space when storing replacement modules.

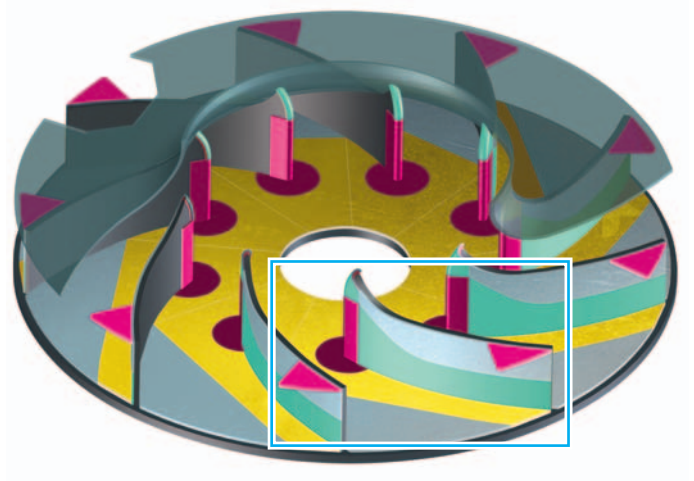
This includes in particular five modules:

1. Wrap-around edge protection liners for blade inlet edges
2. Wear plates on blade inlet edge
3. Wear strips for the impeller centreplate
4. Wear plates for the blades
5. Wear plates for impeller shroud protection

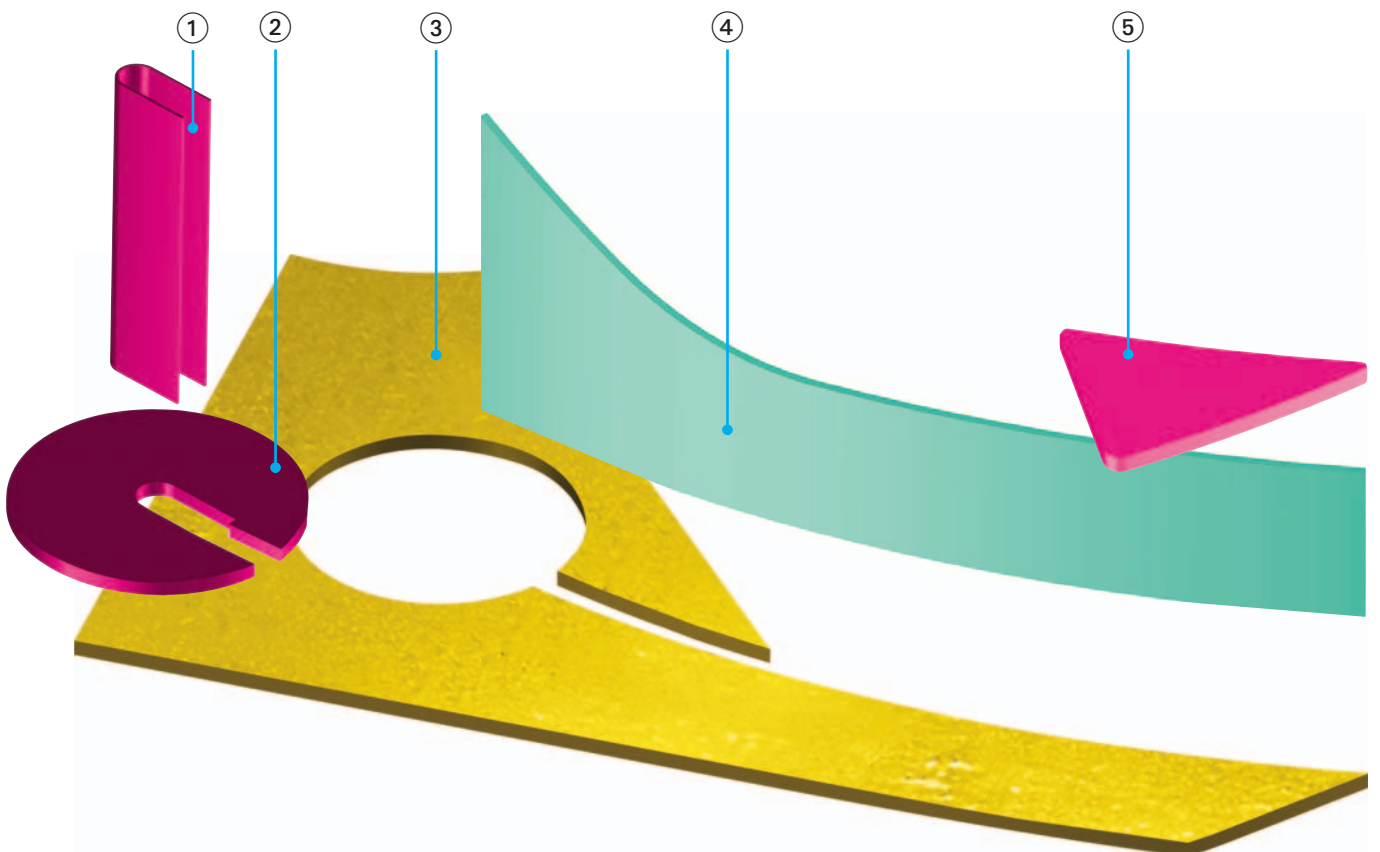
You can find more about this in our brochures

- Wear protection for centrifugal fans
- Economic factor fan impeller

## Modular wear protection for centrifugal process fan rotors



Grey areas receive additional protection from wear as required.





You can contact our hotline  
24 hours a day.

Venti hotline:  
**+49 1 71/1 95 57 50**

Contact our customer service desk during business hours:

**Phone: +49 25 22 75-2 53**

**Fax: +49 25 22 75-5 70**

**E-mail: [service@venti-oelde.de](mailto:service@venti-oelde.de)**



- Industrial fans
- Dust collection and process air cleaning plants
- Exhaust air treatment plants
- Ventilating, heating and air conditioning plants
- Recycling and waste processing plants
- Surface technology



Ventilatorenfabrik Oelde GmbH  
Robert-Schuman-Ring 21  
59302 Oelde, Germany  
Phone: +49 25 22/75 - 0  
Fax: +49 25 22/75 - 2 50  
info@venti-oelde.de  
www.venti-oelde.de