

## Service and Consultation for Drive Solutions in Mining and Raw Material Processing.



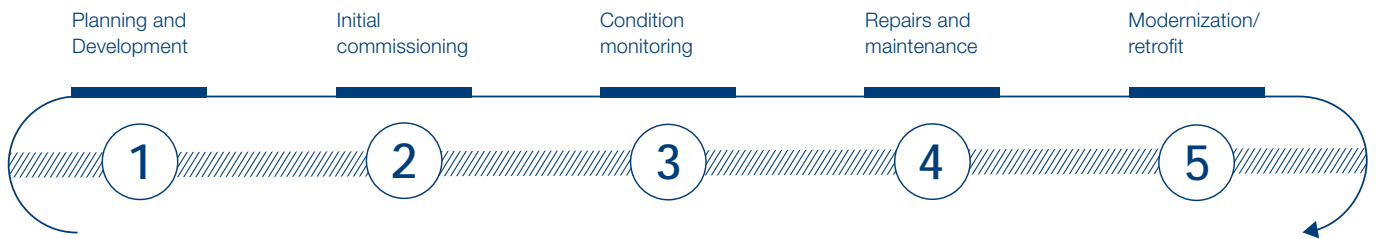


## Voith provides it all — from a single source.

From planning and development to initial commissioning, from regular service and maintenance to the modernization of existing systems, Voith is there for you. This includes analyzing your requirements, one-on-one consultation, and delivering the resulting solution that best fits your needs. Our experts don't just consider the drive. They look at your entire system.

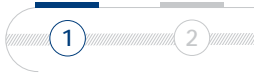
Would you like a detailed consultation? Your Voith contact person is waiting to hear from you!





**Voith consultation and services for the following drive solutions in mining and in raw material processing:**

- Belt conveyors
- Armored face conveyors
- Crushers, mills and shredders
- Fans
- Pumps



# Voith combines innovative technology with first-class consultation.

Our challenge is finding the best drive solution for you. We meet it with high-grade products on the one hand, and expert consultation on the other. When planning and designing complete drive systems, we develop the solution that makes your day-to-day work easier, more efficient and safer – starting with high-grade components and the right coupling, all the way to training your employees.

Voith engineers are able to test every coupling on specially designed test rigs under real conditions. Only then are they installed at your plant. You can be sure that your new system will be running at maximum performance from the onset. During this early phase, we train your employees on the new drive system, thus ensuring an optimum start.

### Voith services during planning and development

---

- Consultation – which coupling and drive system is the best choice for you?
- TurboSim – software for simulating start-up processes
- Test rig – this is where the coupling is fine-tuned for optimum operation
- Planning and designing complete drivelines
- User training – explaining the fluid coupling and how it's controlled

1 We analyze the requirements and develop solutions on site

2 Vibration measurement on a belt conveyor drive, Chile

1



# Voith starts the complete driveline for smooth operation.

For us, proper assembly and commissioning of the driveline are all part of our comprehensive service. Together, they form an important building block toward reliable system operation.

The Voith service technician is on-site personally and by your side during the commissioning phase. This ensures that the coupling in the driveline is perfectly aligned. Using special metrology, we collect data for optimal system operation. These data serve as reference values so that any future deviations can be quickly detected and remedied by Voith service technicians. Your production performance remains consistently high.

Educating your employees is also an important factor. We provide training sessions for system operators to explain how to operate and maintain the couplings so that you always get the most from your drive solution.

Voith offers a variety of bundled services as part of its service agreements. These help ensure productivity. If you have questions on operation or use outside the service intervals in the agreement, you can contact Voith service technicians 24/7.

## Voith installation and commissioning services

---

- Service technicians and engineers with you during commissioning
- Complete on-site driveline assembly and alignment
- Training for operating personnel
- On-site acceptance and performance measurement
- Documentation of the optimum performance state as a reference point for later checks: Temperature levels, vibrations, performance check, infrared measurement, efficiency screening, functional testing
- Individual service agreements for trouble-free operation



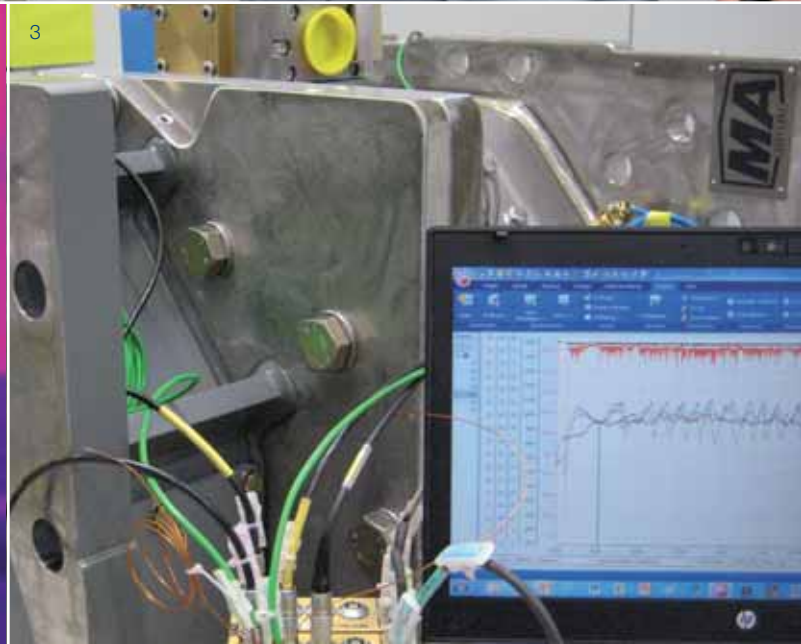




1



2



3



# Voith checks to ensure your system is always running perfectly and reliably.

Even short system downtimes often translate into high losses. This is exactly where Voith follow-up service comes into play. We continue to support you and your employees in how best to properly handle your coupling, even after commissioning.

Regular service intervals are also important to keep your driveline operating at its best. This runs from simple services like coupling filter and oil checks to detailed services like performance checks that evaluates overall system performance. We adapt our service to your system's service intervals, so that no additional production stops are necessary.

Make use of these service intervals to keep your system running at maximum performance over the long haul.

## Voith services for condition monitoring

---

- Regular checks for optimal equipment status referenced to the acceptance check in order to detect trends and prevent damage
- Ensure availability using regular performance checks
- Oil check, filter replacement, provisioning of consumable spares, intelligent spare parts management
- Driveline measurements: endoscopy, thermography, vibration analysis, performance checks, laser alignment, noise emission measurement

1 Service technicians and engineers ensure your system remains available

2 Driveline performance measurement following recommissioning

3 Complete system performance check

# The name Voith means service with first-class quality.

Whether your repair needs are scheduled or unscheduled, our shops are available for you worldwide. They are equipped to service complete drive systems. We are your first point of contact, regardless of whether the coupling or the complete drive system is involved.

The global networking of our shops allows us to have the relevant coupling parts on-site worldwide. This means that you can rely on the fact that only genuine Voith parts with manufacturer's warranty are installed in your system.

And what's more: Voith can also service the couplings of other manufacturers.

### Voith services during repairs and maintenance

- Worldwide repair shop network
- Customer service for maintenance work and repairs
- On-site spare parts supply, anywhere in the world
- After repairs or maintenance, the fluid coupling is just like new
- Balancing the fluid coupling
- Testing the repaired fluid coupling
- Genuine spare parts to ensure warranty service
- Available 24 hours/7 days a week worldwide
- Preventive services calibrated to the system stresses

1 Worldwide availability of the most essential Voith genuine spare parts in all shops

2 Expert repairs make the coupling is like new again





Voith service workshops for fluid couplings and drive solutions

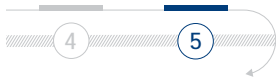
---





1

## Modernization/retrofit



# Voith helps your system stage a high-performance comeback.

Requirements change. Sometimes this means replacing older systems with newer ones. Other times, a modernization upgrade is enough. In this case, Voith experts analyze the data from the existing system and then bring it up to the state-of-the-art using conversions. With this approach, you increase the service life of your driveline and also elevate your system's performance.

To ensure a successful comeback for your system, Voith service technicians perform an equipment condition analysis on site and determine the potential. If modernization is performed based on these results, we offer you the same services available for a new system: Test and simulation runs,

the personal presence of Voith service technicians during the commissioning phase and documentation of the optimal performance condition for future checks.

Of course, your employees will be trained on the operation of the new components. We ensure optimal operation of your driveline with regular service intervals and personal support over the entire service life of the system.



2

- 1 Productivity increase with the modernized Voith fluid coupling and drives
- 2 Testing and simulation runs in our test bench prior to installation

### **Voith services during modernization and retrofit**

---

- Increasing the performance of the existing system
- Conversion and recommissioning by service technicians on site
- Overhaul of complete drivelines
- Conversion in Voith shops worldwide
- Training on the operation of new components and systems



Voith Turbo GmbH & Co. KG  
Voithstr. 1  
74564 Crailsheim, Germany  
Tel. +49 7951 32-1020  
Fax +49 7951 32 554  
vtcr-ait.service@voith.com  
Helpline +49 7951 32 599  
[voith.com/fluid-couplings](http://voith.com/fluid-couplings)

**VOITH**  
Engineered Reliability