

Enabling optimism

**Maximize your plant
efficiency with our
uptime solutions!**





We turn
maintenance
managers
into optimists.

Complete
confidence thanks
to ultimate control
of your process.

- » **Protect your investment**
- » **Extend your plant lifecycle**
- » **Increase your production rates**
- » **Get more uptime**

In the past, unscheduled downtimes, shortcomings in production processes and resultant extra work and costs in night shifts and special shifts have tended to turn all maintenance managers into professional pessimists.

But that's all set to change. Our uptime solutions make vastly improved planning possible. Unscheduled plant failure can be prevented, the life of your plant can be extended considerably, and a positive effect can be had on quality and process efficiency. Perfect for raising optimism levels!

Perfection in analysis, innovation and consultancy. Sounds like Schenck Process.

Uptime solutions: enabling optimism!



BENEFIT FROM OUR CONSULTANCY EXPERTISE!

We collaborate closely with you. Our service consultants digitally map your processes and start by creating a process analysis. Depending on your requirements, this will focus on either the complete process or individual parts of it.

Based on our analysis, we evaluate your processes. This includes appropriate recommended actions and concepts tailored to you and your plant. If necessary, our R&D engineers will get involved too. Be it minor adjustments or entire new developments, we provide tailored solutions to optimize your processes.

We implement the solution concepts we have produced with you to deliver efficient and highly reliable processes. And there's more. Using our digital innovations, we take preventive measures for you and therefore avoid costly repairs and prevent unscheduled downtimes.

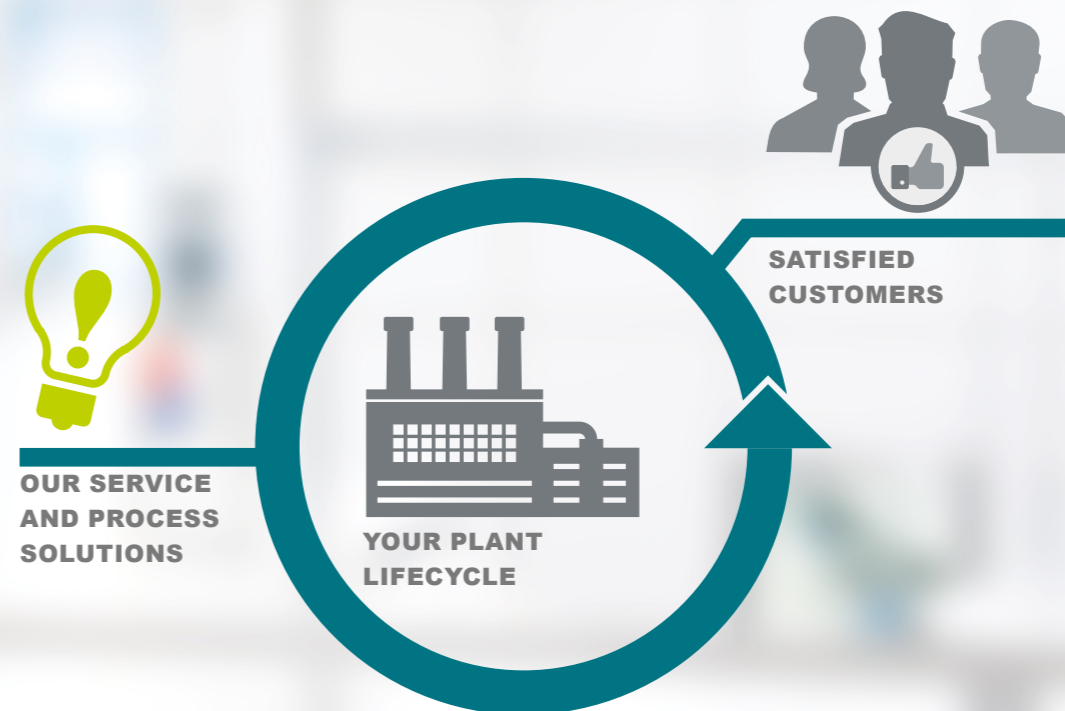
OUR COMMITMENT TO YOUR PROCESSES

- » **Maximize uptime**
We focus on your efforts and help you to meet your targets.
- » **Increased process and production efficiency**
We help you to run your assets at maximum efficiency.
- » **Extended plant lifecycle**
We inform you when maintenance is necessary to safely run your plant.

YOUR PROBLEM IS OUR CHALLENGE

Your number one objective is to reliably and efficiently operate capital equipment in your factories and process plants. Naturally, you want to do this with minimal maintenance and operating costs. Sit back and look into the future with optimism! Our service model is totally focused on your individual processes, ensuring that your goals are met and at the same time, the full potential of your plant is exploited.

Flexible, individual, effective. Adapted especially to your needs, we work with you to develop and implement your tailored service concept. No matter what the job in hand, we make suitable specialists available to you.





WE ENABLE YOUR OPTIMISM WITH OUR SERVICE PRODUCTS:

Service solutions

- » Installation and commissioning
- » Technical product support
- » Spare parts and repairs
- » Field service
- » FitnessCheck
- » Shutdown and emergency service
- » Warranty extension
- » Components

Process solutions

- » Consultancy and process optimization
- » Inspection contracts
- » Modifications and upgrades
- » Condition monitoring
- » Maintenance contracts
- » In-house training
- » Replacement program
- » Overhaul program

A PERIODIC FITNESSCHECK ALWAYS PAYS DIVIDENDS!

The FitnessCheck will provide a detailed report including comprehensive recommendations on how to improve the performance and functioning of all your equipment. It includes customized test procedures of individual items of equipment, for example frequency analysis of screens.

As a result, you will get a detailed understanding of the current status of individual production instruments and you will identify any requirement to make an intervention before damage – or worse still, a complete outage – occurs.

Using latest digital innovations, FitnessChecks include recommendations on how to improve efficiency and/or process accuracy, providing a boost to production quality and output.

The pay back principle

» **More uptime**

» **More reliable processes**

» **More efficiency**



Complete peace of mind

OUR CORE COMPETENCY IS UNDERSTANDING YOUR MATERIALS AND PROCESSES.

Digitalization has a key role to play in transferring our know-how to your processes, e.g. through preventive maintenance and process monitoring.

Make the most of our experienced service consultants. In an individual analysis using technical tools, such as condition monitoring systems, apps, 3D laser scans, etc., we start by determining your requirements. Then we can produce a service package tailored to these.

Not only does this give you high-quality equipment but Schenck Process precision and repeatable success too. That means getting the right materials to the right place and in exactly the right quantity. Every time, time and again.

We increase the efficiency of your materials handling, from heavy stones to fine powders.

Our experienced Schenck Process team will be happy to put together packages to suit your needs.

We look forward to providing you with one-to-one advice and helping you deliver your ideal product with us by your side!

We make your processes more transparent.
Anytime. Anywhere.
For unbeatable efficiency.

Predict!

PREDICTIVE MAINTENANCE WITH OUR CONDITION MONITORING SYSTEMS

- » Proactive care for your vibrating equipment
- » Maximum uptime – for a lifetime
- » Up to 10 times quicker reaction time

CONiQ® Cloud Cloud-based dashboard for condition monitoring

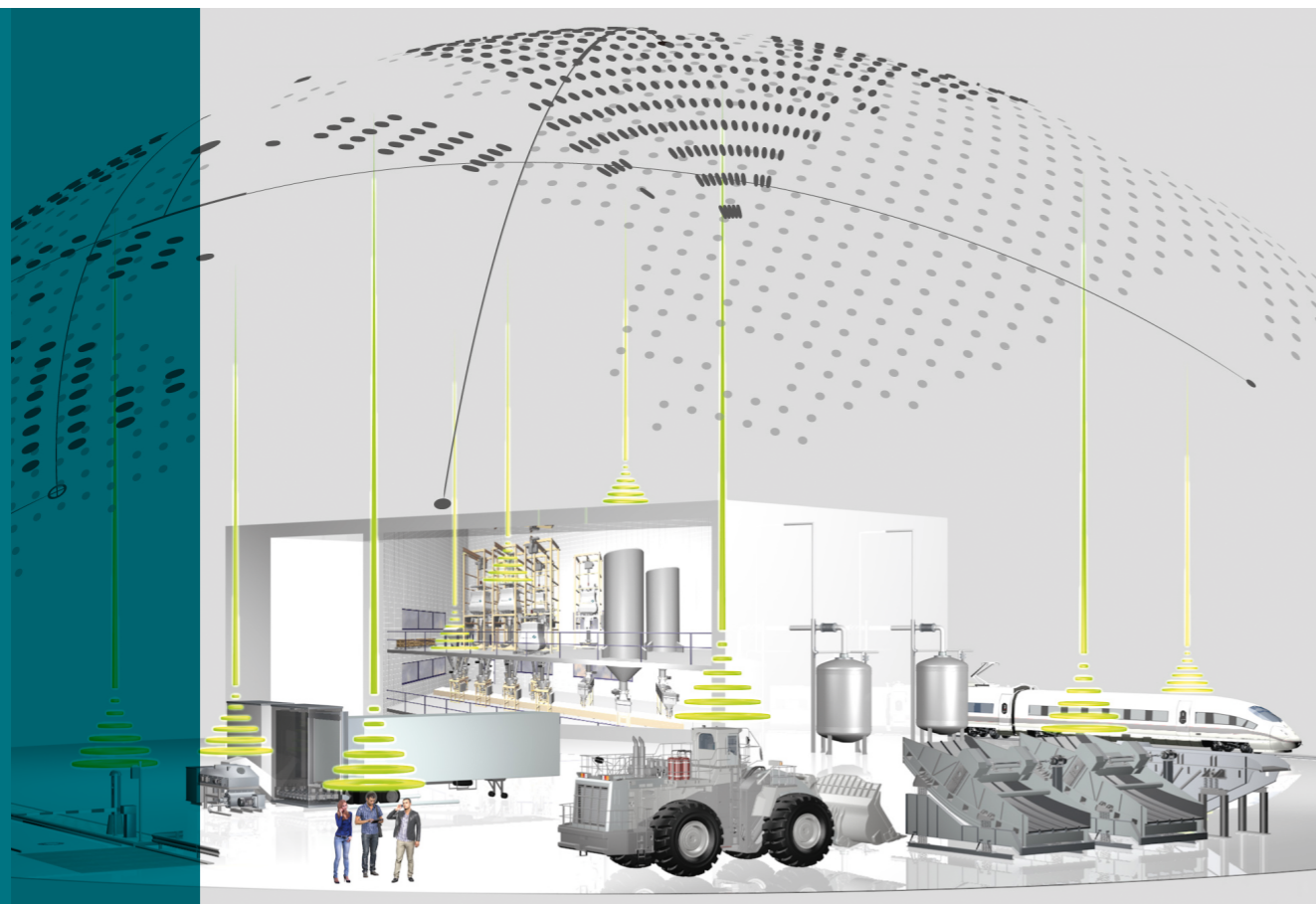
CONiQ Cloud is the IoT backbone, connecting your Schenck Process machine to value-adding services. It is not limited to one specific machine type but is open to any Schenck Process equipment. In addition, the CONiQ® Cloud includes easy-to-use dashboards with KPI information directly on your mobile device, so you have all relevant information with you - any time, any place.

CONiQ® Monitor Condition monitoring for screening machines and vibrating feeders

By continually monitoring the condition of various parameters, for example temperature and mechanical vibration, it protects the machine and its components. The condition monitoring system ensures early detection of damage and condition-based maintenance of the machine. The real-time monitoring of critical variables delivers additional peace of mind and makes sure the machine is energy-efficient.

CONiQ® Assist (Mixed-reality) service tool for troubleshooting, commissioning and maintenance work

Enhance your troubleshooting and workflow experience by leveraging our Schenck Process expertise in real-time to solve your operational issues. Using either Smartglasses or other mobile devices, CONiQ® Assist combines our process expertise with Augmented Reality solutions. We bring our experts to your plant virtually supported by interactive features or stored step-by-step instructions to help you without waiting for a technician to arrive.



- » Immediate ROI
- » 300% more uptime
- » Costs reduced significantly
- » Machine downtime reduced by 76%
- » Maximization of safety
- » Manual work reduced by almost 90%

You will find additional information, whitepapers and videos here:
www.schenckprocess.com

“Well-designed, efficient and much safer — I really do like it. And that’s saying something!”

▲ THE CHALLENGE

20,000 tons of iron ore an hour are loaded into wagons using Schenck Process loading systems. Due to the vast amount of manual work involved and the huge safety risks, maintenance of this critical unit was always very costly. Even using a chute exchange concept, it would take 100 hours, require around 50 members of staff on site and involve large numbers of additional resources. Expensive and dangerous.

💡 OUR SOLUTION

Schenck Process has simplified the expensive and dangerous process and raised it to a new level. Schenck Process has developed a revolutionary solution for replacing chutes in the shape of ProLift, a mobile lifting platform on rails. This allows the chute to be replaced in an automated process taking less than 24 hours and requiring just six members of staff. Maximum safety without any costly associated trades. This means improved scope for planning with better safety, reduced costs and maximum production benefits. An idea that more than pays off.

⚙️ OUR IMPLEMENTATION

Our innovative service concept with minimal plant downtimes during maintenance includes: Spare parts and repairs | Replacement program | Field service | Consultancy and process optimization

“I wouldn’t have thought it was possible to significantly reduce downtime even under the toughest conditions!”

MAINTENANCE PROGRAM IN FACTS AND FIGURES

- » **ROI pays off within 1 day**
- » **150% more uptime**
- » **Increased life cycle up to 18 months**
- » **Reduction of servicing measures**
- » **Considerably improved reliability**

▲ THE CHALLENGE

High temperatures, abrasive material and long transport distances in cement factories place very tough demands on conveyor chains. If the weakest chain link fails due to corrosion, material defects, incorrect loads or excessive stress, production comes to a stop and the follow-on costs are high.

💡 OUR SOLUTION

Sometimes it's the little things that make a big difference. Thanks to 50 years of experience in bulk material technology and by using higher quality materials, design and installations, Schenck Process has been able to extend the life of conveyor chains to 18 months. A detail, that pays for itself overnight.

⚙️ OUR IMPLEMENTATION

Proactive lengthening of the plant's life and reduction in failure-related downtimes of loops through use of the following products: Maintenance contracts | Modifications and upgrades | Consultancy and process optimization | FitnessCheck | Spare parts and repairs

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“It’s precisely what we needed. And it’s as precise as we needed it to be.”

MODIFICATIONS AND UPGRADES IN FACTS AND FIGURES

- » **ROI after 6 months**
- » **120% more uptime**
- » **Reduced time and improved safety**
- » **Increase life cycle by 10 years**
- » **Manual work reduced by 50%**

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▲ THE CHALLENGE

Over the years the production costs of our customer in the food industry have increased many times over. High-precision feeding and conveying are the key factors for maximizing product quality and minimizing production costs. Even the smallest of deviations in measurement accuracy have a huge impact on efficiency. Flow characteristics and the properties of the bulk material also affect weighing accuracy significantly.

💡 OUR SOLUTION

Our process analysis uncovered deviations in the feed accuracy. Also, the mechanics and electronics were not perfectly matched. After upgrading from volumetric to gravimetric feeding and matching the electronics better, feed accuracy was improved by two percent and production costs vastly reduced.

⚙️ OUR IMPLEMENTATION

Process analysis and the services deployed in the concept deliver maximum efficiency! Realized with the following products:
Modifications and upgrades | Technical product support | Consultancy and process optimization

- » **ROI CONiQ® Online system: < 1 hour**
- » **Early identification for plant shutdown**
- » **Maximizes the value of your production assets**
- » **Enables you to meet production commitments**
- » **Lowers operating and maintenance expenses**
- » **Helps you to ensure continued operation**
- » **Savings up to several millions per unscheduled outage**

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“Shortly after commissioning we have successfully detected at least three gear failures before they occurred and were able to plan in repair.”

▲ THE CHALLENGE

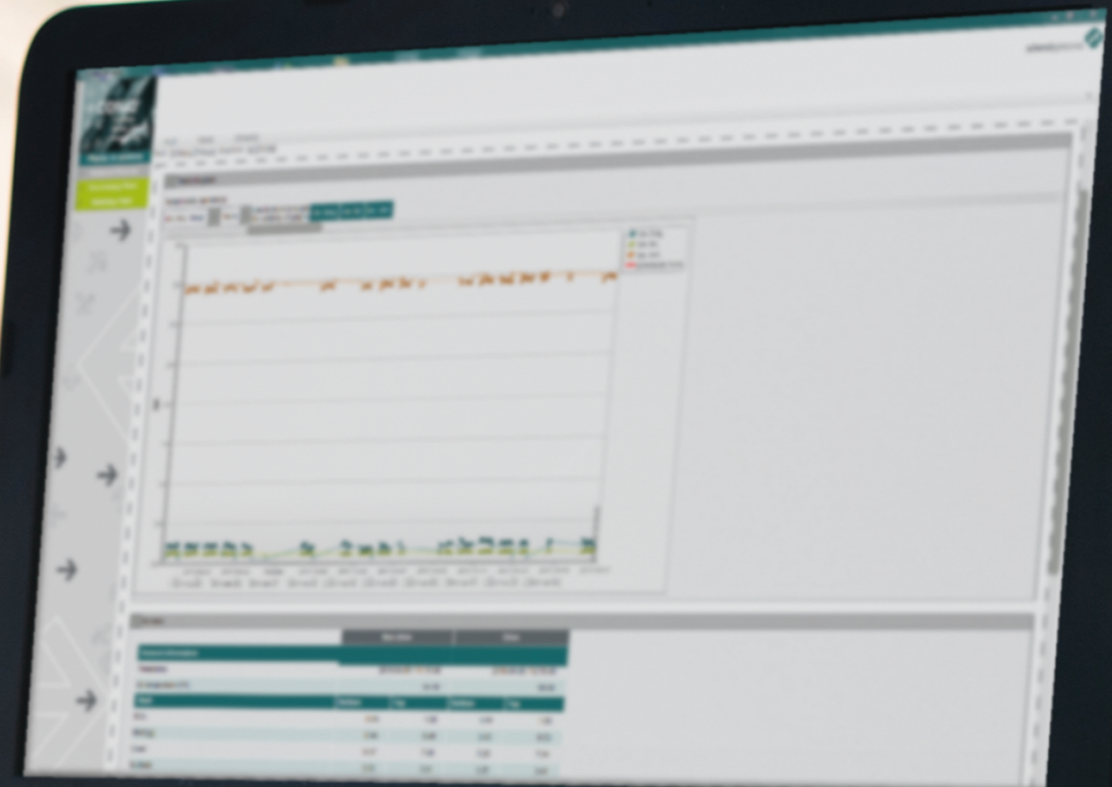
Failure of a screening machine in large bulk material plants is very costly. The pressure on operators to act is huge. In an iron ore mine for example, downtime costs soon run into the millions. Alongside failure costs, the operator also has to pay express surcharges on the repairs and additional costs for having the spare parts available as quickly as possible.

💡 OUR SOLUTION

Say goodbye to unscheduled machine downtimes with condition monitoring systems from Schenck Process. Permanently installing the CONiQ® Online system on the vibratory equipment's exciter can reliably reduce the risk of expensive plant downtimes. To minimize unnecessary maintenance work, CONiQ® Online provides continuous sensor-based condition monitoring. Should the measurements exceed or fall below upper and lower limits, a warning is generated. But there is another purpose too. In addition to the conditioning monitoring function, CONiQ® Online – along with CONiQ® Check – also provides an anticipatory analysis. Knowledge is generated from the information gathered. And this knowledge can be used to determine the plant's condition and thereby make reliable predictions and produce appropriate recommended actions.

⚙️ OUR IMPLEMENTATION

Minimum plant downtimes during installation and database services ensure better scope for planning and proactive action. Realized with the following products: Modifications and upgrades | Shutdown and emergency service | Maintenance contracts | Installation and commissioning | Condition monitoring | FitnessCheck | Training





Leading solutions for a wide range of industrial sectors.

Schenck Process is the global technology and market leader in applied measuring technology. We have more than 130 years of process experience and provide first-class equipment for weighing, feeding, conveying, screening, automation and air filtration technology.

Our experience and specialist knowledge, coupled with ongoing product development, enable us to produce innovative service concepts for a whole host of industries.

When you connect with Schenck Process, you also connect with our locations around the globe. Thinking globally and acting locally isn't a call from a central telephone support center, it's a team nearby guiding and planning everything for you – from optimizing processes to developing customized solutions.



Service & Process Solutions

1. GET IN TOUCH WITH US TODAY. CALL +49 61 51-15 31 15 31.

Let's analyse your process by a FitnessCheck to identify your potentials!
Receive a detailed report and your individual return of invest calculation.

2. RECEIVE YOUR INDIVIDUAL PROPOSAL.

Convince yourself by trial operation and experience your individual solution live!

3. WE ARE TAKING CARE OF YOUR ENTIRE PROCESS.

We counsel you comprehensively and competently about maintenance service management to maximize your uptime!

That's all it takes to be optimistic.

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we make processes work