

we make processes work



www.schenckprocess.com

Schenck Process Group – your partner worldwide.

one company one vision

Acting locally to support your needs, Schenck Process is working where you are.

With an unrivaled global network of operating companies and competent partners, the name Schenck Process is synonymous throughout the world with process expertise and well-engineered measuring technology for weighing, feeding, conveying, screening, automation and air filtration technology.

Whether you are planning processing plants, feeding bulk solids, controlling material flow, recording commodity flow, weighing goods or automating manufacturing and transportation operations – Schenck Process is your reliable partner.

Members of the Schenck Process Group are:

schenckprocess 

stock 
schenck process group

fairfield 
schenck process group

clydeprocess 
schenck process group

pentec 
schenck process group

schcnckAccuRate 

redler 
schenck process group

screenex 
schenck process group

macprocess 
schenck process group

Leading solutions for a wide range of industrial sectors.



These days virtually every sector of industry requires precise accuracy in bulk material handling and air filtration. Whether it's precisely fed powders for pharmaceutical manufacturing, producing the optimum rubber for tires, or reducing explosive dust in a sugar processing plant – Schenck Process makes processes work.

The Schenck Process Group is a global market leader in
industrial weighing and feeding technology /// screening and separation systems for bulk materials ///
dust collection and air filtration technology /// pneumatic and mechanical conveying solutions ///
automation and diagnostic technology.

Unshakable. Under the Harshest Conditions.

Our solutions for cement, gypsum, sand and gravel, steel and non-ferrous metals, bulk material handling, filtration and RailTec.



Bulk material handling involves feeding, screening and conveying from the finest to the most complicated materials in the manufacture of cement, building materials, steel and non-ferrous metals. Schenck Process has a proven track record for handling those materials in the most challenging environments. Dust collection is handled by a wide range of filtration products that can satisfy requirements from a single point collector up to a full plant system. Our RailTec product line ensures rail safety with precision weighing systems that help reduce overload possibilities along with legal-for-trade measuring technology to confirm actual railcar weights used in commerce.

OUR APPLICATIONS



Manufacture of steel

Highly efficient weighing, feeding, conveying, pneumatic injection and screening technology for all relevant process stages.



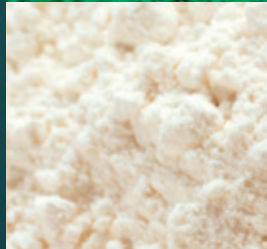
Production of pig iron

Weighing and feeding technology is the foundation for highest product quality and process stability.



Cement blending

Perfect cement is the result of processes where Schenck Process equipment plays a major role. Materials are mixed, fed and metered accurately. Pneumatic injection technology is available for additive blending.



Feeding of powered materials for environmental control systems

Feeding consistency for high product quality, efficient kiln operation and optimum emission values.



Alternative fuels

Metering alternative fuels to the main burner and calciner of a cement or lime kiln provides great savings potential on energy costs by reducing the need for non-renewable fossil fuels such as coal.



RailTec

The modular MULTIRAIL® system provides optimum and economical solutions for static or dynamic weighing, monitoring and diagnostic systems for rail applications, and testing and documentation for production and maintenance.



LOGiQ® – loading automation system

This efficient system offers modular concepts for integration into existing structures, facilities and workflows.

When accuracy counts.

Our solutions for chemicals, food, pet food, pharmaceuticals and plastics.



High-tech solutions for weighing, feeding, pneumatic conveying and filtration

Precisely handled bulk materials are critical to the manufacture of chemicals, food, pet food, pharmaceuticals and plastics. Our adaptable high-tech solutions are specially designed for this complex task. Whether you need a gravimetric feeder, weighbelt, dilute or dense phase conveying system or a dust collector – we have the right solution to meet your specific needs.

Complex process, precise solutions

Our weighing and measuring systems are perfectly suited for both batch and continuous processes. The dilute and dense phase pneumatic conveying systems we offer provide energy efficiency and low breakage for easily damaged materials. For dust collection and explosion protection our air filtration systems deliver proven results.

OUR APPLICATIONS



Plastics

Precision feeding and conveying for accurate dosing of additives in plastic processes. Easily disassembled feeders are perfect for multiple process changeovers.



Polyester production

Precision feeding processes are a necessity in polyester production. By combining Schenck Process feeders and mass flow meters, the ideal system is possible.



Food industry

Whether conveying sugar or feeding cereal products, Schenck Process has the experience to design and build the ideal system for your food processing application.



Pet food batching

When making a choice for pneumatic conveying, filtration, weighing and feeding solutions for pet food manufacturing processes, Schenck Process offers multiple options.



Fertilizer

Accurate feeding and conveying systems along with dust collection are critical components in the manufacture of fertilizers. Schenck Process offers multiple solutions.



Detergent production

An integrated weighing, feeding and conveying system is critical to the manufacture of detergents. Schenck Process has successfully implemented these systems around the globe.



Pneumatic conveying

Schenck Process is an expert in dilute and dense phase conveying systems. We have the solutions to transport a wide range of dry bulk materials in a simple and cost-efficient manner.

Durable, robust and extremely reliable under the toughest of conditions.

Our solutions for coal, iron ore, base metals and minerals.



The processing of non-ferrous metals, applications in coal mining, preparation in mines and loading of the finished products require technology and materials capable of withstanding the most extreme conditions. Schenck Process solutions prevail where others give up. Our products are durable and extremely reliable with high availability under the most difficult conditions.

Whether large lumps or the finest grain, wet or dry and irrespective of whether using iron ore, gold, bauxite, coal, copper, oil sands, aggregates or lime powder – vibratory equipment supplied by Schenck Process can deal with all types of bulk materials.

Every year, over 100 million tons of raw coal are freed of impurities with the help of our coal preparation plants – which represents our contribution to environmentally friendly energy production.

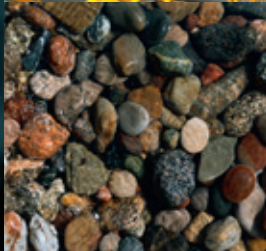
Technological solutions are our specialty, whether they are used for recording the most minute mass flow of raw materials, for feeding and separating and loading various minerals, or complete processing in some of the largest coal preparation plants built in the world. Our customized application solutions include weighing technology, materials handling, feeding, screening, processing and train loading. From planning and design through to the construction of the plant sections, reliable controls and connections to data systems. We operate around the globe, wherever we're needed.

OUR APPLICATIONS



Coal preparation plants

Schenck Process provides services for site design, detailed engineering, manufacturing and procurement of equipment, site project management and commissioning, as well as full turnkey packages.



Screening

Schenck Process provides state-of-the-art screening technology with G-force exciters and robust design, coupled with in-house manufacturing and application experience of screen panels.



Train loading systems

Schenck Process offers customized bin designs, integrated weighing systems for fast, safe, consistent and highly accurate rail car loading, as well as legal-for-trade loading and weighing systems.

Efficient. Safe. Precise.

**Our solutions for coal- and biomass-fired power plants,
electric utility and process industries.**



With the most trusted brands in the industry, Schenck Process offers a diverse range of bulk material handling systems, equipment and components to cover almost any need in the power industry. Our material handling systems convey millions of tons of raw material annually including coal, limestone, biomass and alternative fuels. Our products are also used to handle plant by-products such as ash and gypsum. Schenck Process material handling solutions offer a wide variety of conveying and feeding methods to get the job done reliably and efficiently throughout the life of the equipment.

No matter what your facility or boiler type, the Schenck Process Group delivers superior reliability and accuracy in raw material weighing, feeding and handling.

Accurate fuel flow and the resulting improved control of NO_x emissions are crucial for the modern power plant. With accurate flow management and precise weighing accountability, you'll get safe, reliable, uninterrupted material flow. And that's going to increase efficiency, eliminate downtime and keep your plant running smoothly. In addition, our innovative products increase efficiency, reduce fuel consumption, and CO₂ emissions. That's why Schenck Process Group's gravimetric feed systems are the most widely used and most trusted fuel feeding systems in modern power generation.

OUR APPLICATIONS



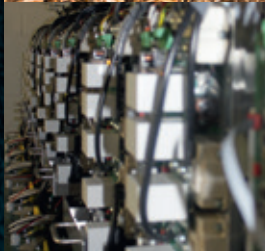
Gravimetric and volumetric coal feeding systems for boilers

Feed system design and fabrication to meet the needs of your plant regardless of system size.



Biomass and EFW/WTE fuel feeding and handling

Fuel handling, dosing and feeding systems regardless of fuel type.



Power supplies and ESP controls

Integrated precipitator control systems and power supplies to maximize your ESP particulate collection efficiency.



Ash handling

The unique dense phase technology safely and economically handles high volumes of ash.



Mechanical conveying for the power industry

Bulk material handling systems with main focus on chain and belt conveyors and elevators.



Feeding of sorbent materials for environmental control systems

Proven systems for the reduction of Hg, SO_x and HCl emissions and other toxic air pollutants from coal-fired power plants including dry sorbent injection for flue-gas cleaning.



Pneumatic conveying and injection for the power industry

Pneumatic conveying, feeding and injection of coal dust, biomass and other materials.



Dedusting and air filtration

Dust collection and air filtration systems enhance plant air quality and meet regulations.

For the entire life of your products – and beyond ...

Spare parts, service and components.



Once you have received your new machine or system, our global Aftermarket Team is here to help. We will provide services, spare part solutions and components tailored to your needs to advise and assist you.

The extensive Process Advanced Service System (PASS) provides you with after-sales services – customized to your specific requirements. With the guidance of our experienced Schenck Process team, you can create PASS packages to meet your needs. PASS is based on a modular principle – you can choose any individual PASS product or a combination thereof.

We would be pleased to provide you with individual consultation, either as part of a PASS contract or on individual inquiry. Whatever Full Service means to you – let's create it together!

Your exemplary key-benefits of a partnership with us include:

- ❖ Increase of plant availability
- ❖ Optimized spare parts stockkeeping
- ❖ Service strategy tailored to your needs
- ❖ Short response times
- ❖ Life-cycle extension

To give you an idea what is included in our PASS program, you can find a selection of PASS products on the right-hand side.

Process
Advanced
Service
System

PASS



Remote service

Real-time remote maintenance and individual hotline.



Maintenance and spare parts management

Pass your maintenance on to us and avoid double inventory.



Condition monitoring

Real-time equipment monitoring.



FitnessCheck

Overall health inspection including recommendations.



Exchange program

Minimize downtimes and turnaround times of critical parts.



Refurbishment program

Planned refurbishment to extend your equipment's life cycle.

PRODUCT LIFE CYCLE

LIFE CYCLE EXTENSION

From 20 grams to 20,000 tons.

The perfect solutions for challenges of any size.

Experts in weighing and feeding
at very low feed rates

20 g/h



Experts in weighing and feeding
in the harshest mining environment

20,000 t/h



Schenck Process is one of the world market leaders in applied measuring and process technology. Our employees around the globe develop innovative solutions used in the cement, steel, chemical, plastics, food, pharmaceutical, mining, coal and biomass-fired power plants, transport and automation industries, to name a few.

The product range stretches from feeders for small volumes used in the pharmaceutical industry, processing 20 grams per hour up to 20,000 tons of coal per hour in train loading applications. Our highly sensitive weighing and feeding electronics provide precise accuracy for a wide range of material handling applications.

Test results you can rely on.

Schenck Process Group TestCenters around the globe.



If you work with cement or steel, in mining or chemicals, in the plastic, food or pharmaceutical industries, you'll know that no matter what materials you use, processes need to run smoothly. When processing your products, if you want peace of mind that your materials are perfectly matched with the correct equipment, then simulating testing in our TestCenters is what you need. Which feeder is best for which bulk material? How can you select the ideal screen panel for maximum screening efficiency? What needs to be considered for pneumatic conveying and dust collection? And what requirements do alternative fuels place on feeding and conveying systems?

Schenck Process operates TestCenters around the globe which are tailored to your individual requirements. Two of these centers are located in Darmstadt, Germany. Additional test facilities can be found at our locations in the UK, Austria, the Czech Republic and the USA.

Our TestCenters are equipped to simulate loss-in-weight feeding, refilling, weighing, dilute and dense phase conveying and filtration to help confirm the configured design meets the most efficient, economical method of processing your material ahead of time.



WEIGHING AND FEEDING TECHNOLOGY



AccuRate® Series
Volumetric feeding systems



MechaTron® Coni-Flex®
Loss-in-weight feeder



MechaTron® Coni-Steel®
Loss-in-weight feeder



MechaTron® 3-A
Sanitary feeder



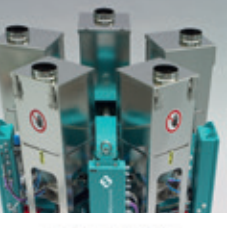
MechaTron® Min
Loss-in-weight feeder



MechaTron® LQ
Loss-in-weight liquid feeder



SacMaster
Bulk bag discharge system



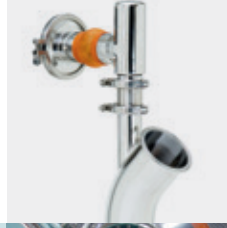
MULTIGRAV®
Multiple feed station



ProFlex®
Loss-in-weight feeder



ProFlex® F
Loss-in-weight feeder
in hygienic design



PureFeed® D
Feeder in hygienic design



MULTICOR® K
Coal dust feeding



MULTICOR® S
Feeding of powdered materials
and meal



MULTICELL
Coal dust feeding



MULTIBELT®
Belt weigher



SolidsFlow®
In-line vibratory feeder



MULTISTREAM® B
Solid flow meter



MULTISTREAM® G
Solid flow meter



MULTIDOS® VPD
Apron weighfeeder



MULTIDOS® H
MULTIDOS® E
Weighfeeder



MULTIDOS® L
Weighfeeder



MULTIDOS® F
Weighfeeder in hygienic design



MULTIDOS® HPG
MULTIDOS® MPG
MULTIDOS® LPG
Pressurized gravimetric feeders



MULTIDOS® NPG
Non-pressurized gravimetric feeder



IDMS blow-through rotary valve



MultiFlex
Gravimetric screw feeder



RotoFeed
Pneumatic injection



RotoScrew
Pneumatic injection



IntraBulk®
Bulk reception unit



MULTIRAIL® WheelScan
Precise in-transit wheel diagnosis



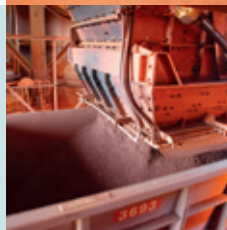
MULTIRAIL® LegalWeight
Dynamic weighing for solids



MULTIRAIL® LiquidWeight
Dynamic weighing for liquids



MULTIRAIL® TrainLoadOut
Optimized rail car loading for bulk materials



FulFiller® W
Train loading system



MULTIRAIL® SandPiper
Train & tram sandbox filling systems



Weighbridge



Crane scales



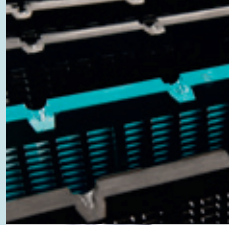
Bin weighing system kits



Weighbeams and weighing sensors



Discharge screws and spirals



Screen panels



Weighing and feeding electronics



Rotary force exciters



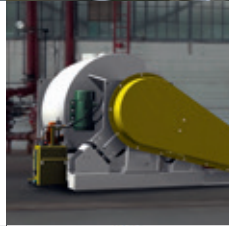
**SCREENING AND SEPARATION
SYSTEMS FOR BULK MATERIALS**



Direct force exciters



RotaClass®
Rotary vibrating screens



Centrifuge



LinaClass®
Grizzly unloading screens



Fine coal slurry separator



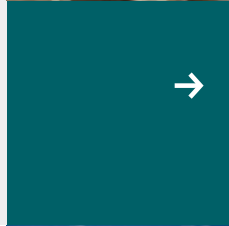
LinaClass®
Banana screens



Wet drum magnetic separators



LinaClass®
Linear vibrating screens



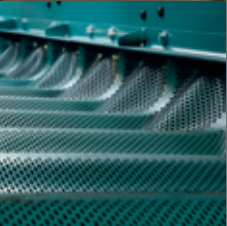
**DUST COLLECTION AND
AIR FILTRATION TECHNOLOGY**



LinaClass®
Dewatering screens



Industrial air filtration



FlexaClass
Flip-flop screen



MCF Power Safer
Energy-saving filters using medium
pressure air



Vibrating feeder



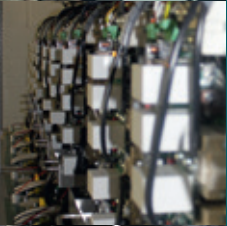
Fly ash handling



ModuPower™
Switch mode power supply
for precipitators



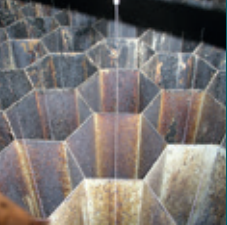
MoveMaster®
En-masse chain conveyor



Precipitator enhancement



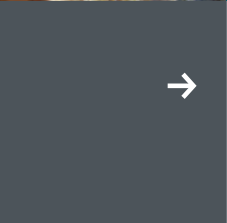
MoveMaster®
Tube belt conveyor
U belt conveyor
Corrugated belt conveyor



ModuPlasma™
Odor abatement



Burner line knife gate valves



PNEUMATIC AND MECHANICAL CONVEYING SOLUTIONS



AUTOMATION AND DIAGNOSTIC TECHNOLOGY



Pneumatic conveying



MULTIRAIL® BogieLoad pro
MULTIRAIL® BogieLoad plus
MULTIRAIL® BogieLoad eco
Truck test rig



Fly ash handling



MULTIRAIL® WheelScan
Precise in-transit wheel diagnosis



Dome Valve / Spheri Valve
Bulk materials handling valve



LOGiQ® loading automation system



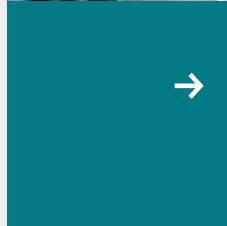
Airlocks



CONiQ®
Condition monitoring system



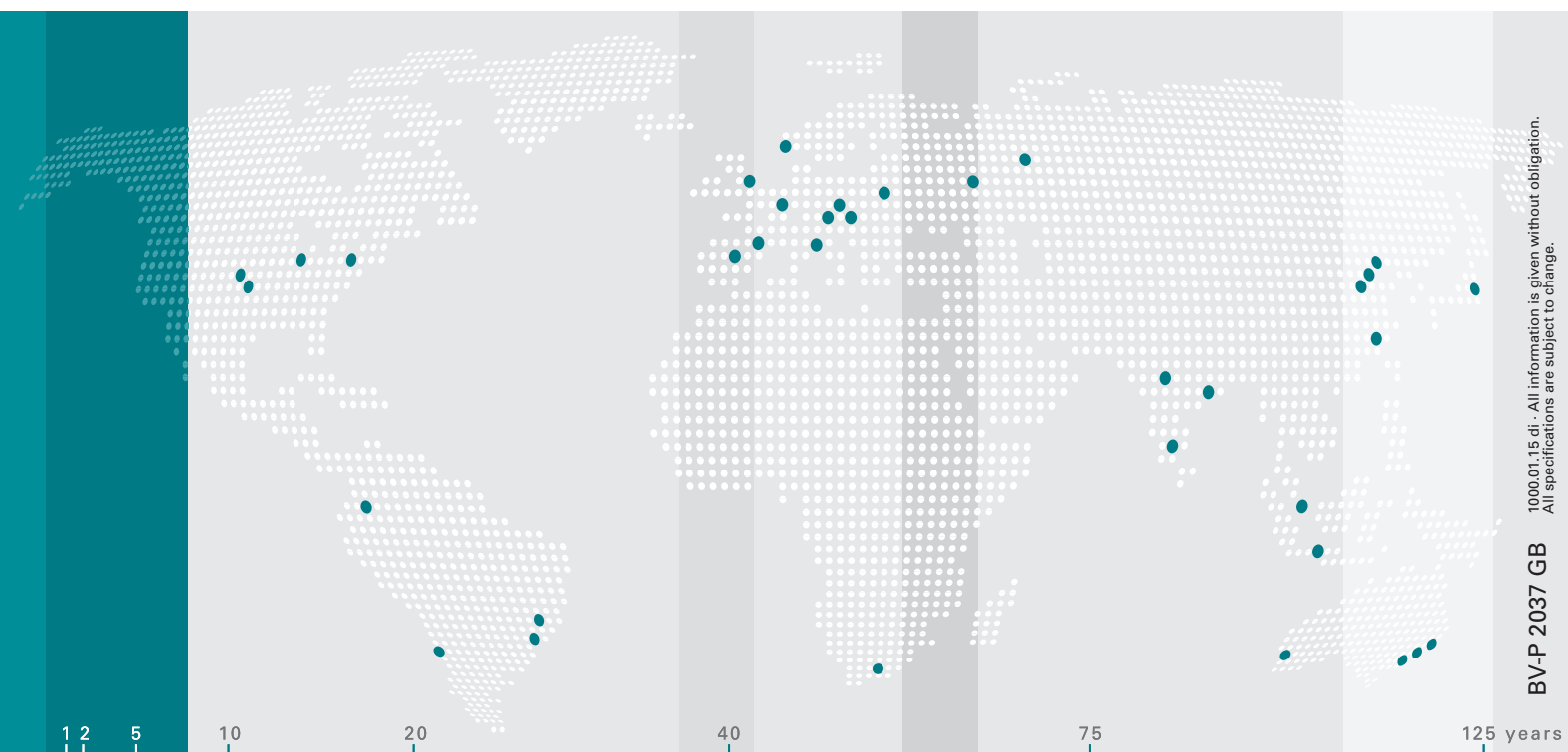
E-Finity



FURTHER INFORMATION
www.schenckprocess.com



MoveMaster®
Belt and bucket elevator



1000.01.15 di - All information is given without obligation.
All specifications are subject to change.

BV-P 2037 GB

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air filtration technology /// pneumatic and mechanical conveying solutions /// automation and diagnostic technology

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