CUTTING-EDGE TECHNOLOGY
MINING • ENERGY • INFRASTRUCTURE
A NAME WITH TRADITION AND PERSPECTIVE

THE WORLD’S LEADING SYSTEM PROVIDER IN THE FIELD OF SHAFT HOISTING TECHNOLOGY

As a system provider of mechanical and plant engineering for hoisting technology in the domain of shaft and heavy duty hoisting systems, as well as mine and tunnel cooling, SIEMAG TECBERG is a global market leader.

The main area of expertise at SIEMAG TECBERG is the use of knowledge-based services in the fields of engineering, project management, product realisation and technical service. The company’s technically oriented corporate culture and highly-motivated and qualified members of staff are the driving force behind its respectable position in the global market and its innovative products and services.

Thanks to this corporate philosophy, SIEMAG TECBERG has a first-rate standing as a specialist in a niche market.

Haiger-Kalteiche, north of Frankfurt-on-Main, Germany
The headquarters of the SIEMAG TECBERG Group and the Centre for Development, Engineering and Innovation
In line with our target-oriented corporate policy, which places a major focus on sustainability, the needs and requirements of our customers form the core of our business philosophy, while the development of innovative product and system solutions is the driving force behind how we think and act.

When it comes to our corporate activities, the satisfaction of our customers with regard to the quality, reliability and operating efficiency of our made-to-measure systems is our main priority.

As an owner-managed company, we provide direct contacts and short decision-making processes and ensure a high level of personal identification with the company.

“Our above-average growth is proof of our excellent understanding of relevant future trends.”

Juergen Peschke | CEO
DEDICATION TO THE JOB AND PROFESSIONAL QUALIFICATION AS FOUNDATIONS OF SUCCESS

International and project-oriented networks of expertise form an integral part of our business model.

KNOWLEDGE-BASED SERVICES ON THE BASIS OF EXCELLENT ENGINEERING EXPERTISE

The high level of commitment shown by our qualified staff is one of the main factors behind the excellent reputation of our products and services. Approx. 400 engineers and technicians, business administrators and technical specialists form the backbone of our international and project-oriented networks of expertise.

Our constant qualification programmes ensure that our team is always up to date with state-of-the-art technology. This enables us to guarantee maximum quality and to permanently increase our level of knowledge. A wide variety of cooperations with universities in Germany provide us with valuable insights into the most recent developments in fundamental research.

All of our business processes use a certified quality management system in accordance with the DIN EN ISO standards 9001:2008.

Engineering
Project management
Product manufacturing and assembly
Technical service
The constantly growing global demand for resources is being met by the development of raw material mines at ever-increasing depths. This requires efficient shaft and inclined hoisting systems with challenging technical dimensions. The demand for high-performance mine cooling systems is also increasing. These developments go hand in hand with extremely strict safety and quality requirements.

SIEMAG TECBERG recognised these trends at an early stage and has therefore been able to prepare for the challenges of the markets. In line with the boom in the extraction of raw materials, we are converting our engineering expertise into developments for innovative applications, for example in the field of heavy-duty hoisting technology.

These include public infrastructure projects that are officially commissioned by governments, for example the construction of the Gotthard Base Tunnel in Switzerland, or the special tasks and work that we have taken on in the field of civil engineering, for example in connection with the installation of a ship lifting plant in Niederfinow, in the German Land of Brandenburg.

We are strategically oriented towards mining and primary energy carriers, as well as civil engineering for public infrastructure projects.
SIEMAG TECBERG builds systems for underground mining based on expertise that it has gathered during the development and construction of over 200 complete systems and more than 1,000 hoists.

The wealth of experience that we have acquired through a multitude of installation and service activities at a wide variety of sites all over the world sets the pace for the constant development of the knowledge base of our staff.

On top of this, the operation of our own shaft hoisting plant in Sedrun (Switzerland) as part of the tunnelling for the Gotthard Base Tunnel keeps us even more in tune with operator-oriented technical system solutions.

**SERVICES**
- Supplying complete shaft hoisting systems for underground mining
- Carrying out the planning, design and engineering of comprehensive solutions for hoisting raw materials

**PRODUCT PORTFOLIO**
- Shaft and inclined hoisting systems
- Brake systems
- Winches and rope changing equipment

**SHAFT HOISTING SYSTEMS FOR RAW MATERIALS**

**South Deep Gold Mine**
Efficient hoisting operations from a depth of 3,000 m
The world’s largest hoist

**Technical specifications:**
- Hoisting capacity: 255 kt/month
- Drum diameter: 7.1 m
- Drive power: 13 MW
When it comes to storing radioactive waste in former mines and/or suitable caverns, the safety of the shaft hoisting systems used is of vital importance. Cases involving the storage of contaminated waste require the systems used to be designed in accordance with the requirements and standards of the German Nuclear Safety Standards Commission (Kerntechnischer Ausschuss - KTA).

In the construction of large tunnels covered by an appropriate rock overburden, an access shaft is used to shorten the project duration of the tunnelling. In this shaft, the shaft hoisting system is used both to hoist the excavated material and to provide the underground construction site with material and staff.

The hoisting technology of a ship lifting plant functions on the basis of use of the counterweight principle, as has also been the case in shaft hoisting systems in mining engineering for decades.

**SERVICES**
- Supplying complete systems for hoisting and storing heavy-duty materials to private or national infrastructure developers
- Project business in the field of civil engineering

**PRODUCT PORTFOLIO**
- Underground final storage systems for nuclear or toxic waste
- Complete shaft hoisting systems in accordance with the stipulations and requirements of the German Nuclear Safety Standards Commission (KTA)
- Key components for ship lifting plants
Penetration into greater depths and the growing amount of waste heat resulting from the advancing mechanisation of high-performance mines are placing increasingly high demands on underground climate conditions and ventilation equipment.

With its patented pressure exchange system (P.E.S.), SIEMAG TECBERG uses one of the most state-of-the-art mining and tunnel cooling systems on the market. As an independent system integrator for shaft control systems we provide our customers with comprehensive complete systems expertise. At SIEMAG TECBERG, our own automation engineering has developed to become the strategic driving force behind our innovations.

Our after sales services, which we provide in the form of a comprehensive spare parts and maintenance concept, ensure the maximum safety, performance quality and availability of the systems supplied.

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**SERVICES**
- Mine and tunnel cooling systems
- Automation and drive technology for shaft hoisting systems
- Service and spare parts

**PRODUCT PORTFOLIO**
- Pressure exchangers for mine cooling
- Underground cooling systems
- Machine control systems
- Brake control systems
- Winch control systems

**Underground Cooling**

4 complete three-chamber pipe feeders (P.E.S.) for the central cooling of the MOAB KHOTSONG Gold Mine. With an exchange power of 60 MW, this is the largest system in the world.

**Technical specifications:**
- Site: Level -1,200 m / Level77 -2,400 m
- Volumetric flow per P.E.S.: 1,150 m³/h
- Complete length per P.E.S.: 37 m
OUR CALLING CARD

OVER 1,500 OUTSTANDING REFERENCES WORLDWIDE

Many of the world’s leading companies from the mining and energy industries are convinced by the work carried out by SIEMAG TECBERG. Our 140 years of tradition form the basis of our outstanding number of successful reference customers all over the world, to whom we provide lasting customer-oriented support.

This support lays the foundations for continuous technological improvements and developments related to our systems and equipment. SIEMAG TECBERG is the owner of over 50 international patents and authorized components according to BVOS.

CUSTOMERS PLACE THEIR TRUST IN SIEMAG TECBERG
GLOBAL NETWORKING OF LOCAL CENTRES OF EXPERTISE WITH THE HEAD OFFICE IN HAIGER

REGION 1
EUROPE, CIS, THE MIDDLE EAST AND NORTH AFRICA
Company headquarters in Germany, a subsidiary company in Poland and partners for Russia/CIS.

REGION 2
CHINA
Two subsidiary companies

REGION 3
AUSTRALIA AND THE PACIFIC AREA
One subsidiary company

REGION 4
SOUTHERN AFRICA
Two subsidiary companies in South Africa and one sales partner

REGION 5
THE AMERICAS
One subsidiary company in the USA and partnerships in Canada and Chile

The industrial park of Haiger-Kalteiche (Cold Oak) in Germany is the location of our company headquarters, the backbone of our network of expertise. This network is made up of subsidiary companies, representations and strategic partners and stretches across the whole world. Our network enables us to provide close customer relations and lasting customer-oriented support combined with the appropriate quality of service and maintenance for systems that are in operation.

We also run the "Technikum Cold Oak" training centre, which supports software development as a significant discipline of the automation engineering carried out by SIEMAG TECBERG. The model system, which is installed in the shaft building of a former headframe, enables all modes of operation of a modern shaft hoisting plant to be tested and simulated in a practically real-life situation. These characteristics mean that the "Technikum" can also be used as a novel training centre in order to introduce customers' machine operators to the operation of the hoisting systems and equipment supplied by SIEMAG TECBERG.
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