



Open cast mining & bulk materials handling technologies

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Tenova is a world-wide supplier of advanced technologies, products and services for the metal and mining industries providing innovative integrated solutions. Combined process automation and metallurgical know-how enhance the value delivered to the customers.

Tenova is committed further to develop its technology in the areas that mostly impact the future of the industries it serves: quality of the products delivered by the customers, energy saving and environmental safeguard.

Tenova TAKRAF specializes in the engineering and supply of open-pit mining and bulk materials handling equipment. It provides complete systems, as well as individual machines, to clients all over the world, in all climatic conditions.

Global Presence

With more than 700 employees in Germany, Italy, Australia, Brazil, Bulgaria, Canada, Chile, India, South Africa and the USA, as well as representative offices on all continents, Tenova TAKRAF is close to its customers with technological support and real-time service.



Heritage

Tenova TAKRAF is the result of the successful merger of the historic TAKRAF and Italmimpianti brands, and their underlying know-how, traditions and experience.

TAKRAF is a German company with headquarters in Leipzig and modern production facilities in Lauchhammer. With roots dating back to 1725, TAKRAF has built up a wealth of experience in development, design, fabrication, erection and commissioning of mining equipment and materials handling facilities.

Italmimpianti, an Italian engineering company founded in Genoa in 1957, was a leading integrated supplier of technology and turnkey industrial plants. It boasted, amongst others, expertise in the design and supply of large-scale complex bulk materials handling equipment and plant, bringing its customers advanced cost-effective technology as well as exceptional value for their investments.

Now part of the Tenova network, TAKRAF and Italmimpianti have joined forces and combined cultures to become the leading supplier for the mining and bulk materials handling industry.



Business

Tenova TAKRAF combines German and Italian engineering skills to offer its customers a full range of project services: planning, engineering, fabrication, erection and commissioning for complete new mines, marine terminals and stockyards, expansion and revamping of existing operations, equipment refitting, operation and maintenance of supplied or existing plants, relocation or retrofitting of conveyor systems.



Bulk materials handling equipment developed by Tenova TAKRAF is utilized in ports, mines, power stations, steel mills, cement plants and many other locations. Mining companies all over the world put their trust in Tenova TAKRAF equipment - bucket wheel excavators, spreaders, crushing plants, belt conveyors - as the backbone of their mine production.

The wide variety of materials handled by Tenova TAKRAF, its know-how and use of cutting-edge technologies guarantee that customer needs are fully served. Iron, copper, gold or nickel ore, coal, ash, petroleum coke, lignite, bauxite, fertilizer: whatever the bulk material, Tenova TAKRAF provides the solution.



Products

Tenova TAKRAF possesses the financial and technical resources to support any form of product supply in the categories of:

- Open Cast Mining Equipment
- Port Equipment
- Yard Equipment.



Open Cast Mining Equipment

Tenova TAKRAF supplies equipment for continuous mining, conveying, and spreading operations, including:

- Bucket Wheel Excavators
- Bucket Chain Excavators
- Surface Miners
- Mobile, Semi-Mobile and Stationary Crushing Systems
- Mobile Transfer Conveyors / Belt Wagons
- Spreaders / Cross Pit Spreaders (XPS)
- Heap - Leach Systems
- Belt Conveyor Systems
- Long Distance Conveyors
- Conveyor Bridges
- Slope Conveyor Bridges
- Transport Crawlers.



Port Equipment

For this market segment, Tenova TAKRAF offers a variety of batch and continuous loaders and unloaders, including:

- Bucket Chain Continuous Ship Unloaders
- Grab Type Ship Unloaders
- Ship Loaders of any kind.



Yard Equipment

Stockyard equipment provided by Tenova TAKRAF includes:

- Boom Stackers
- Boom Bucket Wheel Reclaimers
- Bridge Type Bucket Wheel Reclaimers
- Bridge and Portal Scraper Reclaimers
- Barrel Reclaimers
- Combined Bucket Wheel Stacker Reclaimers
- Circular Stockyard Systems
- Tube Conveyors
- Belt Conveyor Systems
- Train Loading and Unloading Systems.



Full Service Provider

Tenova TAKRAF offers time-effective service and a highly regarded experience-based approach. Operational readiness for an immediate response to customer needs, reliability and a proactive style are integral elements of its business.

Skilled teams of Tenova TAKRAF technicians and engineers guarantee a rapid on-site response in an emergency, giving customers the security of engineering added value.

Tenova TAKRAF provides a wide range of services:

- Supervision & Commissioning
- Spare Parts & After Sales Support
- Inspection
- Maintenance & Management System.



Manufacturing Facilities

The Tenova TAKRAF factory in Lauchhammer (Germany) is located in Lusatia, the cradle of the European surface mining equipment manufacturing industry.

With a covered production area of about 18,000 sq.m, the workshop is divided into four separate bays for metal prefabrication, steel and machine construction and assembly of core components for the Tenova TAKRAF product range, as well as spare and wear parts manufacture.

Products manufactured in Lauchhammer include top-quality structural and mechanical engineering components: compact, weld-intensive steelwork, bucket wheel drives, crawler links, ball bearing slewing rims with diameters up to 20 m.

Efficient IT systems support production.

Thanks to computer-integrated process technology, a highly skilled workforce and the certified quality management system, the Lauchhammer facility is able to meet the most demanding delivery schedules.

Tenova also has a production facility in China, in the industrial area of Tanggu (Tianjin) close to China's third largest port. The Timec factory specializes in steel structures, pipe to pipe and heavy plate parts for Tenova's products.

Excellent production quality is guaranteed under Tenova's worldwide quality assurance program aligned with the top international standards. A combination of best available fabrication competences and compliance with leading-edge quality standards make Timec one of the reference manufacturing facilities not only for Tenova but also for other high-profile customers around the world.



Performance and Reliability

Tenova TAKRAF is committed to offering tailored solutions to meet customer requirements and targets.

Full attention is dedicated to each construction and operating element, for an approach designed to ensure the best product in terms of functionality, quality and schedule, starting from the basics.

As a combination of size and effectiveness, every project is a new challenge. Through its experience and technology, coupled with outstanding know-how developed entirely in house, Tenova TAKRAF offers the customer optimum solutions for specific needs, particularly with regard to giant machines.



Commitment to Innovation

Technological innovation is the foundation of Tenova TAKRAF competitiveness.

At Tenova TAKRAF, engineering is the driver of R&D.

Developing flexible, individual and effective design concepts is the key to finding the ideal solution for each customer, and may in some cases differ from prevailing design concepts.

By embracing innovation, Tenova TAKRAF is able to offer customers the cutting-edge solutions they expect and maintain its position at the forefront of industry developments.

Quality

To meet and even exceed customer expectations, quality and continuous improvement of services in line with the best industry practices and standards are priorities at Tenova TAKRAF.

The Tenova TAKRAF quality management system is certified for compliance with DIN EN ISO 9001: 2008 quality standards and is reviewed on a regular basis to enhance effectiveness and ensure alignment with the best quality standards.



Environmental Responsibility

Tenova TAKRAF has an overriding commitment to environmental responsibility and actively pursues a balance between economic results, development of industrial capability and sustainability.

In its operations Tenova TAKRAF aims to:

- Reduce energy consumption and wear effect
- Reduce emissions into air and water
- Reduce noise
- Provide open cast mining systems offering alternative technologies to mineral blasting.



Focus on People

People are vital to success and growth at Tenova TAKRAF. Qualified engineers and technicians throughout 5 continents are the lifeblood of the company network.

Outstanding technical and management expertise in every area of activity, a strong focus on the customer, a passion for innovation and continuous flexibility: these are the features that distinguish Tenova TAKRAF professionals.

With their different nationalities and varied operating experience, Tenova TAKRAF specialists execute projects all over the world. Their multicultural backgrounds equip them to take on new challenges in any location.

Tenova TAKRAF enhances and optimizes the talents of the individual for the good of the team and to the benefit of the customer. By supervising every stage of professional growth and providing on-going knowledge and skills training, Tenova TAKRAF guarantees the expertise of its people.







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