



Bulk Materials Handling Equipment

TENOVA is a world-wide supplier of advanced technologies, products and services for the metal and mining industries



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 customer, 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.

Bulk Materials Handling Equipment

As a major competitor on the international market, Tenova TAKRAF offers system solutions for handling and transporting bulk materials.

The employment of the latest techniques in planning, design and production ensures fast delivery.

Alongside individual machines, we also supply complete installations for the handling and storage of raw materials and other bulk goods.

We will advise you on-site to be able to take into account territorial specifics and regulations right from the start.

Our installations take care of unloading, storage, blending, sampling and reloading.

Up-to-date manufacturing techniques ensure that Tenova TAKRAF machines and systems for bulk handling are top quality products - providing you with benefits such as high output, high efficiency and high availability.



Our quality assurance system, coupled with efficient project management, ensures that the customer receives consistently high quality, and not only for products manufactured in our own factories.

We ensure economical operation of our individual machines and systems, working reliably under all climatic conditions and with low impact on the environment.



Tenova TAKRAF's technical planning services focus on:

- Advice during solution development
- Feasibility studies
- Studies into capacity expansion and the refurbishment of existing facilities

We perform services in the planning and realisation phases, such as:

- Complete supply, erection and commissioning of bulk material facilities
- Project management and quality control
- Preventive and regular maintenance refurbishment and modernisation of existing facilities



Tenova TAKRAF supplies:

- Complete systems for bulk materials handling, transportation and storage, including requirements of sizing, blending and sampling
- Coaling and ash removal systems for power plants
- Handling systems for technological processes
- Port handling systems
- Stackers
- Reclaimers
- Stacker/reclaimers
- Scraper reclaimers

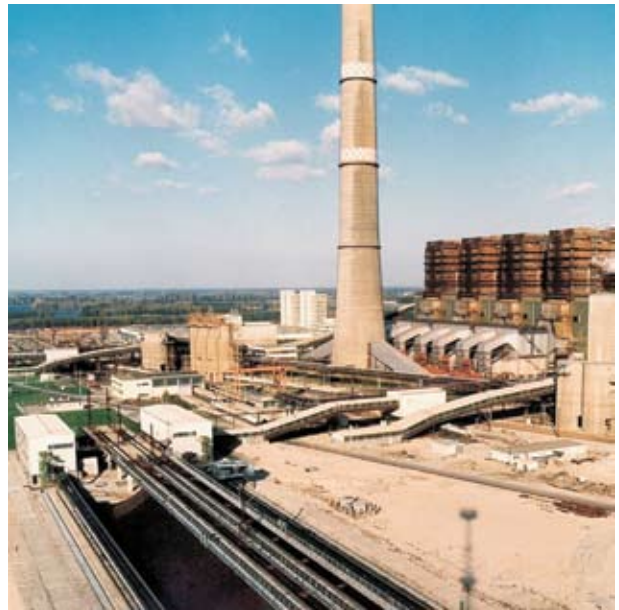


Coal Feeding and Ash Removal Facilities

Tenova TAKRAF has decades of experience in this field.

Our technical know-how ensures the incorporation of optimum solutions in power plant construction. We supply machines and complete systems for:

- Coaling facilities
- Stockyard management facilities
- Systems based on delivery by rail or road
- Mechanical conveying in ash removal facilities





Facilities for the Treatment and Transport of Bulk Materials

Tenova TAKRAF offers tailored solutions for various requirements and numerous applications.

For the treatment and transport of bulk materials, we supply:

- Process-controlled facilities with continuous or discontinuous handling
- Stacking and reclaiming equipment
- Interim transport facilities
- Facilities for the transport of sensitive materials



The Tenova TAKRAF tube conveyor has been specially developed for the environmentally friendly transport of bulk materials. Compared to typical belt conveyors tube conveyors have got very small curve radii. This often allows a reduction of the numbers of transfer points.



Powerful stockyard systems complete Tenova TAKRAF's range of bulk materials handling products. The line-up includes:

- Stackers
- Reclaimers
- Scraper reclaimers
- Stacker/reclaimers
- Facilities for blending and circular stockyards for all capacities



Facilities for Bulk Materials Handling at Ports

Tenova TAKRAF's unloading, storage and loading systems for sea and river ports are always designed as custom solutions.

Tenova TAKRAF's port facilities are used throughout the world. With their high technical standards and state-of-the-art design, our systems satisfy the tough demands faced by modern ports.

Tenova TAKRAF's product range includes:

- Ship to shore handling facilities using ship unloaders featuring grab operation and continuous handling
- Equipment for the continuous mechanical transport of bulk goods on land, including loading facilities
- Shore to ship handling facilities with mechanical slewing ship loaders featuring shuttle conveyors for sensitive bulk materials



Products and Services

Open Cast Mining Equipment

- Complete open cast mining systems
- Bucket wheel excavators
- Bucket chain excavators
- Surface Miners
- Mobile transfer conveyors
- Conveyor systems (overland, curved, shiftable, inclined, etc.)
- Slope conveyor bridges
- Spreaders/Cross pit spreaders
- Mobile conveyor bridges
- Mobile and semi-mobile crushing stations
- Transport crawlers
- Heap-Leach Systems

Bulk Materials Handling Equipment

- Bulk materials handling systems
- Stackers
- Reclaimers
- Stacker/reclaimers
- Scraper reclaimers
- Ship loaders
- Continuous ship unloaders
- Grab type ship unloaders
- Tube conveyors
- Waggon tippers

Fabrication/Technical Service

- Component supplies
- Service, Maintenance
- Work farmed out by other industrial contractors
- Work assemblies
- Erection
- Quality assurance
- Operational assistance
- Inspection





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