



BEUMER BELT CONVEYORS **EFFICIENT SOLUTIONS FOR** **LONG DISTANCES**

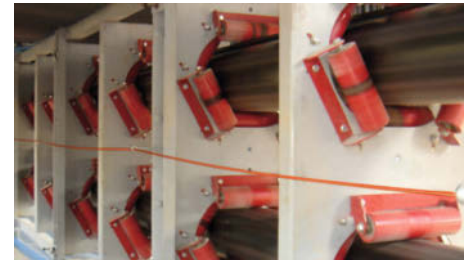


RELIABLE AND EFFICIENT BULK MATERIAL TRANSPORT FOR ANY INDUSTRIAL SECTOR

Our belt conveying systems transport any type of bulk material – whether granular or lumpy, cohesive or noncohesive – in nearly every industrial sector. This conveying equipment, field-tested and continually refined over many years, reliably connects raw material deposits with processing plants and factories.

THIS IS WHAT WE TRANSPORT

- › **Cement industry:** transport of limestone, clinker, cement, secondary combustibles, filter dusts, etc.
- › **Chemical industry:** transport of granulated material, fertilisers, etc.
- › **Steel industry:** transport of ores
- › **Power plants:** transport of coal, slag, gypsum, limestone powders, alternative fuels, etc.
- › **Waste recycling:** municipal waste, wood and sewage sludge
- › Exploitation of gravel and sand pits
- › Phosphate mining and processing plants
- › Transport of other materials such as feeding stuff, cereals, dust, chipped wood, aluminium oxide, etc.
- › Transport of dangerous, contaminated, dusty, or very lightweight substances



BEUMER – A VALUABLE PARTNER

Family spirit is a fundamental factor in the success of the BEUMER Group as a globally operating concern. Shareholders, executive management and staff are essential members of a community in which constructive cooperation is the hallmark of our corporate philosophy. The owners' commitment to considerable reinvestment in the company is a prerequisite for securing the future, and is the basis for the success-oriented partnerships between our company and our customers.

A PIONEER WITH EXPERIENCE AND KNOW-HOW

For many years BEUMER has been successfully supplying systems and plants for bulk material and item transport worldwide. Since its foundation BEUMER has substantially shaped technical development in the conveying technology sector and, with its belt conveyors, can always offer you the right solution for your transport requirements.

WE SET YOUR PRODUCTS ON THE RIGHT TRACK

Long distances, large height differences, small radii – the BEUMER system solutions are as individual as the requirements in the conveying technology sector. We keep you satisfied with our technical expertise and always work with you to identify the right solution to transport your products quickly, safely and efficiently from A to B.

EXPERTISE FROM BEGINNING TO END

Even during the planning phase, we support you with our extensive wealth of technical experience, and it is our expertise in vertical and horizontal routing that enables the implementation of systems. Extensive feasibility studies and complex simulations of the loading conditions help us to develop the best system solution for your transport tasks. Individual consultancy, optimum implementation of all processes, continuous quality assurance and a worldwide service network round out the picture and make BEUMER a strong, reliable partner.

BEUMER BELT CONVEYORS OPEN OR CLOSED – ALWAYS CUSTOMISED



The BEUMER open troughed belt conveyors ensure high mass flows for all products.

Rough, mountainous and fragmented terrain with extreme differences in height is nothing the BEUMER belt conveyors can't handle. The routing of the belt conveyors is adapted to the geographic and topographic conditions by combining horizontal and vertical curves.

EVERYTHING IN MOTION – RELIABLY AND EFFICIENTLY

In rough terrain, the transport of goods – for example by truck – involves significant effort and costs. When you use a BEUMER belt conveyor, you not only save much time and energy but reduce your costs for earthwork and transfer stations – while benefiting from low personnel expenses. At the same time you contribute to environmental protection thanks to reduced CO₂ emissions, as well as lower noise emissions compared with truck and rail transport.

Quick amortisation of the systems due to high savings potential, as well as low maintenance costs are further winning arguments. The smart feed control provides optimized usage of drives and belts when facing varying height profiles. Sophisticated drive technology and low-wear and low-maintenance components of high quality reduce system charge and increase service life.

SIMPLY ECOLOGICAL WITH ENERGY REGENERATION

In case of descending transport, the motors are run in regeneration mode, enabling the generation of electrical energy from the kinetic energy of the transported material. The motors, which are run in motor-driven and regeneration mode, are mostly adjustable. This permits an optimum load distribution over the drive units at different operating conditions. In certain loading conditions, the system is run in regeneration mode. The generated electric energy is fed to the mains by a regenerative feedback unit, enabling a reduction in operating costs of the complete system.

BEUMER belt conveyors: efficient and ecological solutions for bulk material and item transport. Designed for decades.

BEUMER TROUGHED BELT CONVEYORS

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BEUMER open troughed belt conveyors are suitable for conveying any type of material that must be transported quickly across vast distances through rough terrain. With extremely tight curve radii and large centre distances, these systems enable very high throughput and high mass flows of robust and heavy materials.

Different materials can be conveyed in the upper and lower strands at the same time. This makes troughed belt conveyors particularly flexible and efficient. In addition, low investment costs and the short amortisation time ensure high cost-effectiveness.



TECHNICAL DATA

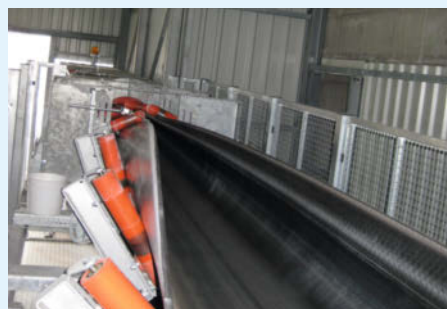
- › Centre distance: depending on the topographical conditions, conveyors of 20 km and longer are possible
- › Curve radius – standard values: > 400 m for horizontal curves, vertical curves depending on the application
- › Conveying capacity: up to 10,000 t/h, e.g. iron ore
- › Conveying speed: up to 6.5 m/s
- › Angles of inclination: up to 20° depending on the material to be conveyed

BEUMER PIPE CONVEYORS

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BEUMER pipe conveyors are closed belt conveyors that reliably transport products that must be protected from external influences during transport – or transport products when the environment must be protected from dust. In the pipe-shaped belts with diameters between 150 and 650 mm, it is possible to transport products downhill and to convey different materials in the upper and lower strands.

With tight curve radii and large angles of inclination, BEUMER pipe conveyors handle even extreme topographical challenges with ease. The elimination of transfer towers is a key factor resulting in structural flexibility and low space requirement. All this makes BEUMER pipe conveyors cost-effective, low-maintenance conveying solutions with high operational safety.



TECHNICAL DATA

- › Centre distance: up to 10 km
- › Curve radius – standard values: min. 300 x d for fabric belts and min. 600 x d for steel wire belts
- › Conveying capacity: up to 6,000 t/h
- › Conveying speed: up to 6.5 m/s
- › Angles of inclination: up to 30° depending on the material to be conveyed

BEUMER WORLDWIDE INTELLIGENT SOLUTIONS FROM THE INTRALOGISTICS EXPERTS



BEUMER - WE ARE ALWAYS THERE WHEN YOU NEED US

As one of the international leaders in the manufacture of intralogistics for conveying, loading, palletising, packaging, sortation and distribution technologies, we know the routes your products take and their unique handling characteristics. This knowledge is integrated into the development and manufacturing processes for all our equipment and systems. We maintain and ensure proximity to our customers in every part of the world through a global sales and service network.

With a large number of wholly owned subsidiaries and holding companies on each continent and representatives in over 70 countries, BEUMER is available to you worldwide and around the clock. And our presence on the ground ensures individual adaptation to local requirements. Location-relevant solutions are the result of our constant close cooperation with our customers.

WE KNOW THE WAY - WORLDWIDE

Our service managers' regular inspections ensure:

- › Sustained operational capability of your equipment
- › Reduction of downtimes
- › Sharing of best practices
- › Qualification of the maintenance team
- › Continuous product optimisation
- › Spare parts optimization

TROUBLESHOOTING - BEUMER HOTLINE

- › Qualified worldwide support on short notice
- › Online troubleshooting
- › Worldwide availability of service engineers
- › On-demand deployment option
- › Fast, responsive service on the ground in real time

TECHNICAL CONSULTING

We can advise and train your staff, either in our own training centre or at your designated facility. This ensures:

- › Optimal equipment and system operation
- › Qualified evaluation of equipment condition
- › Long-term optimisation strategies

MAINTENANCE AND REPAIRS

- › Personnel specifically qualified for your equipment
- › Foundation for superior operational reliability
- › Qualification of your personnel in all facets of maintenance



Linz AG, Austria



Indocement Tunggal Prakarsa, Indonesia



Asia Cement Group, Sichuan, China



Mělník, Czech Republic



Siam Cement, Thailand

REFERENCES FOR TROUGHED BELT CONVEYORS

- › Märker Zement Harburg, Harburg, Germany, 1,120 m
- › Rohrbach Zement, Dotternhausen, Germany, 2,360 m
- › Schäfer Kalk GmbH & Co. KG, Diez, Germany, 1,550 m
- › Ciments Vigier S.A., Reuchenette, Switzerland, 2,397 m
- › Holcim Zement AG, Untervaz, Switzerland, 1,300 m
- › Tudela Veguin, La Robla, Spain, 4,000 m
- › Halla Cement Manufacturing Corporation, South Korea, 4,196 m
- › Asia Cement Group, Sichuan, China, 12,560 m
- › Binh Phuoc, Vietnam, 9,950 m
- › National Cement Company, Ragland, Alabama, United States, 3,378 m
- › Portlandzementwerk Wittekind, Erwitte, Germany, 750 m
- › Dyckerhoff Zement, Lengerich, Germany, Two pipe conveyors, 82 m
- › Ciments Vigier S.A., Reuchenette, Switzerland, 244 m
- › Linz AG, Austria, 475 m
- › ČEZ a.s., Mělník, Czech Republic, 2,019 m
- › ČEZ a.s., Ledvice, Czech Republic, Double pipe conveyor, 486/488 m
- › Cementownia Warta S.A., Działoszyn, Poland, 500 m
- › Heidelberger Cement Group – PT Indocement, Tunggal Prakarsa, Indonesia, 340 m

REFERENCES FOR PIPE CONVEYORS

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Beumer reserves the right to make
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*Products and technologies carrying BEUMER's
"made different" seal are characterised by their
sustainability based on their economic, environ-
mental, and social performance as measured by
the BEUMER Sustainability Index (BSI).*