



Ingenious solutions for perfect logistics.

The modular conveyor system for applications involving bulk goods



H+E Logistik has been relying on innovative engineering services since it was founded in the year 1999. Our core competence lies in providing reliable, flexible and profitable conveyor belt systems as well as established engineering expertise.

H+E industrial – our solution for bulk goods applications

H+E has developed conveyor belt systems using a modular design specifically for applications involving bulk goods. These systems not only reduce the time and effort required for design and planning, but also facilitate flexible adaptations to on-site requirements.

Progress as a matter of principle

Innovation, reliability and the competitive edge form the cornerstones of our corporate philosophy. We live up to this claim by continually adapting our production to the latest technical requirements. To this end, we built a new H+E facility for high-quality production of conveyor belt systems in Aschersleben, near Magdeburg, in 2010.

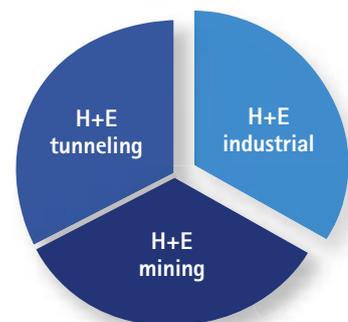
Modular construction for maximum flexibility.

Project execution from A to Z

Our company, a subsidiary of Herrenknecht AG, has implemented conveyor belt systems for tunnelling projects all over the world. Moreover, H+E systems are also suitable for the transportation and distribution of raw and construction materials. We design, produce, supply and install all systems – whether they are only a few metres or thirty and more kilometres long – as turnkey projects. In doing so, our focus lies on the needs and requirements of the customer.

It goes without saying that H+E Logistik GmbH also develops customized designs and constructions and finds the optimal

solution for any distance and conveyor capacity requirement in the shortest period of time. Our many years of experience in the H+E tunnelling and H+E mining divisions give us a valuable asset to succeed.





H+E.industrial: the perfect solution for all cases.

H+E.industrial is suitable for almost any bulk-goods application. The modular concept provides unprecedented flexibility combined with the highest level of engineering expertise. Ingenious design and construction guarantee the speed of planning and ease of installation of the system. This way we ensure efficient operation of the system without delays for our customers.

Our industrial conveyor belt systems can be deployed in confined spaces. Simple construction permits the transport of bulk goods over the most varied distances.

H+E.industrial provides motors of various power ratings and belt widths so that the perfectly matched system can be assembled for any installation condition. The high level of reliability of the system and high capacities of up to 2000 tons/hour contribute decisively to the profitability and efficiency of, for example, separation and preparatory plants as well as gravel and cement factories.

Building materials:

Sand, gravel, cement...

Raw materials:

Ore, coal, road salt...

Powders:

Pigments, fillers, granules, pellets...





H+E.industrial benefits from several years of experience in the fields of tunnelling and mining.

3 components – endless options.

H+E.industrial conveyor systems can be expanded to meet specific requirements on account of their modular design concept. By the use of appropriate module combinations, we can ensure a perfect match for all the requirements of the conveyor system.

Consistently flexible installation

Our conveyor systems consist of three components:

Drive module



Bridging module

Lengths of 1 m, 2 m and 6 m



Reversing module



With ingenious German planning and competent service, our customers get more than "just" conveyor belt systems.



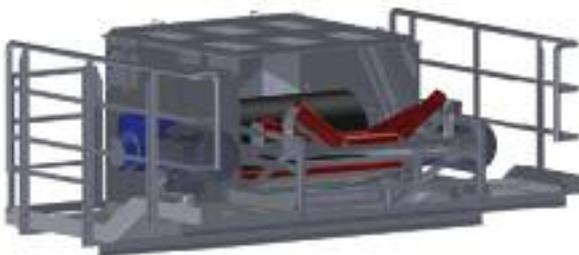
Great performance.



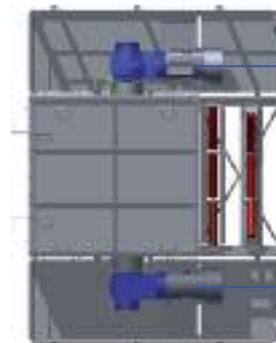
The drive module

At the heart of the drive module are the geared motors that are always installed in pairs on the drive drum. They guarantee an even and powerful driving force. H+E offers four performance ratings, and thus has the

optimal solution ready at hand for any requirement and any customer. Moreover, the drive module has a discharge hood with a deflector flap as well as primary and secondary scrapers.



Drive module with discharge hood



Currently available motor ratings

- 2 x 7.5 kW = 15 kW
- 2 x 15 kW = 30 kW
- 2 x 22 kW = 44 kW
- 2 x 30 kW = 60 kW

Top view: Position of the motor and available power ratings



Stability on the running belt.



Bridging modules

Bridging modules are available with belt widths of 650 mm to 1200 mm and lengths of 1, 2 and 6 m. Thanks to the robust screw connections, they may be flanged to one another easily and quickly. The number and lengths of the modules determine the overall length of the conveyor belt system.

Each bridging module supports the roller blocks and can be supplied without a walkway or with a walkway on one or both sides. We supply modules with a highly anti-slip design for conveyor belts used on steep gradients. At the transfer point for the material, the bridge has considerably more and particularly robust supporting rollers.



Bridging module with no walkway



Bridging module with walkway on one side



Bridging module with walkways on both sides



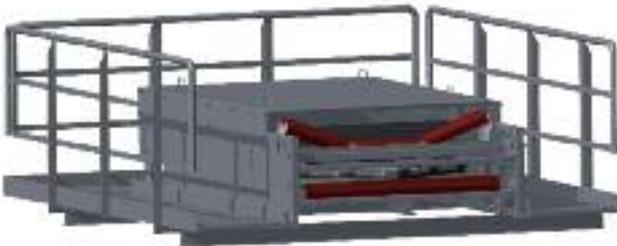
Unlimited functionality.



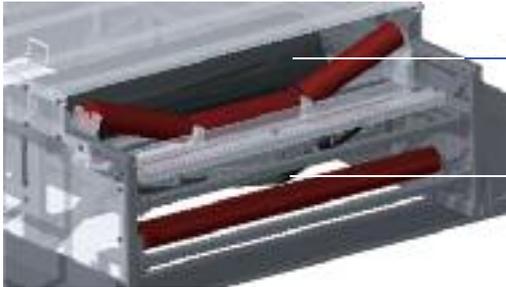
Reversing module

The reversing module, consisting of a deflection drum, tensioning mechanism and plough scraper, is also extremely resilient. Its robust design ensures that it will function reliably over a long period of time.

The reversing module forms the undriven end of the conveyor system. It has a deflection drum, one spindle-tensioning mechanism and a plough scraper that prevents the material being transported from getting between the belt and the deflection drum.



Reversing module



Deflection drum

Plough scraper

Reversing module (details)



The optimally controlled and reliable operation of our high-performance conveyor systems ensures their profitability in large and small applications.

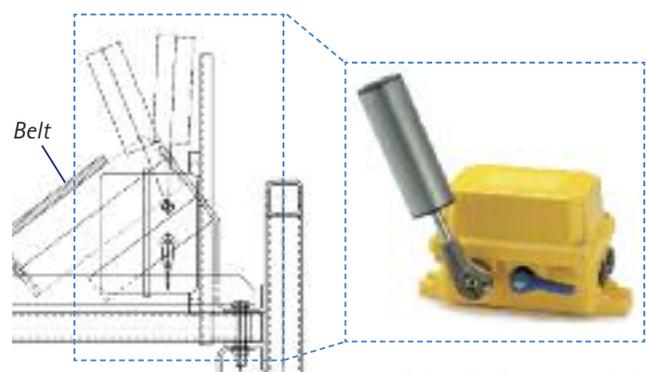
A focus on safety.

Electrical system and controls

The electrical arrangement of the system, equipped with a frequency converter or soft starter is built into a control cabinet. Adjustable belt-misalignment switches are installed near the reversing point and the drive (see the illustration). They enable the system to be stopped automatically in the case that the belt runs dangerously or problematically offset from the centreline. Speed monitors, emergency-stop and start-up warning indicators supplement the safety equipment.

If required, the system can be PROFIBUS networked and centrally controlled by a

PLC (programmable logic controller) from a touch-screen panel. Similarly, the transfer points may be monitored by integration of an optional camera system.



Installed belt-misalignment switch

*Belt-misalignment switch
source: Dittelbach & Kerzler*

We focus on the needs and requirements of our customers – and meet them using our optimally matched components.



Ingenious extras.

Accessories

For the innovative conveyor belt systems, H+E provides cover hoods for the upper belt (see the illustration) and lower-belt covers as accessories. Belt scales, metal detectors and overflow sensors may be installed as optional accessories.



The belt construction is securely braced by telescopic supports. The modular design, which is implemented consistently here too, and the ease of adjustments ensure flexibility and a problem-free execution of the installation.

The product range of H+E telescopic supports covers the following standard heights:

1400 mm – 2000 mm
2000 mm – 2900 mm
2900 mm – 4400 mm
4400 mm – 5900 mm
5900 mm – 7400 mm
7400 mm – 8900 mm
8900 mm – 10400 mm



Variants Available and Technical Specifications

Belt type	EP 800/43+S K
Belt speed	2.5 m/s
Material density	1.66 t/m ³

Max. height of supports, H+E	10.4 m
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Belt width [m]	Max. discharge height [m]	Min. length [m]	Max. length [m]	Max. installed power [kW]	Capacity [t/hour]	Rilling level [%]	
1200	0	7 m	60 m	2x22 kW	2000	77	
	2.5	9 m	60 m	2x30 kW		77	
	5	18 m	40 m	2x30 kW		78	
	0	7 m	60 m	2x15 kW	1750	67	
	2.5	9 m	60 m	2x22 kW		67	
	5	18 m	60 m	2x30 kW		68	
	0	7 m	60 m	2x15 kW	1500	57	
	2.5	9 m	60 m	2x22 kW		57	
	5	18 m	60 m	2x30 kW		58	
	7.5	26 m	40 m	2x30 kW		60	
	1000	0	7 m	60 m	2x15 kW	1250	70
		2.5	9 m	60 m	2x22 kW		70
5		18 m	60 m	2x22 kW	71		
7.5		26 m	60 m	2x30 kW	71		
10		35 m	36 m	2x30 kW	77		
0		7 m	60 m	2x15 kW	1000	56	
2.5		9 m	60 m	2x15 kW		56	
5		18 m	60 m	2x22 kW		57	
7.5		26 m	60 m	2x30 kW		57	
10		35 m	60 m	2x30 kW		58	
12.5		43 m	55 m	2x30 kW		60	
800		0	7 m	60 m	2x15 kW	750	68
	2.5	9 m	60 m	2x15 kW	68		
	5	18 m	60 m	2x15 kW	69		
	7.5	26 m	60 m	2x22 kW	70		
	10	35 m	60 m	2x22 kW	71		
	12.5	43 m	60 m	2x30 kW	72		
	15	52 m	60 m	2x30 kW	75		
	17.5	60 m	60 m	2x30 kW	77		
650	0	7 m	60 m	2x7.5 kW	500	71	
	2.5	9 m	60 m	2x15 kW		71	
	5	18 m	60 m	2x15 kW		72	
	7.5	26 m	60 m	2x15 kW		73	
	10	35 m	60 m	2x15 kW		74	
	12.5	43 m	60 m	2x22 kW		75	
	15	52 m	60 m	2x22 kW		78	
	17.5	60 m	60 m	2x22 kW		80	
	0	7 m	60 m	2x7.5 kW	250	36	
	2.5	9 m	60 m	2x7.5 kW		36	
	5	18 m	60 m	2x15 kW		36	
	7.5	26 m	60 m	2x15 kW		36	
	10	34 m	60 m	2x15 kW		37	
	12.5	43 m	60 m	2x15 kW		38	
	15	52 m	60 m	2x15 kW		39	
	17.5	60 m	60 m	2x15 kW		40	

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