



armoured pumps



*for installations in the
chemical industry
for treatment systems
for tunnel and special
civil engineering*

enduring
innovative

HABERMANN Pumps for the Hydraulic Transport of Solids

HABERMANN armoured pumps are synonymous with long service lives and low life-cycle costs in ISO-certified quality. Service and customer proximity are the practised corporate philosophy at HABERMANN.

HABERMANN armoured pumps are used wherever abrasive and/or corrosive media are pumped. Two product lines are available:

■ Elastically lined pumps

HPK: corrosive media and light to heavy wear and tear

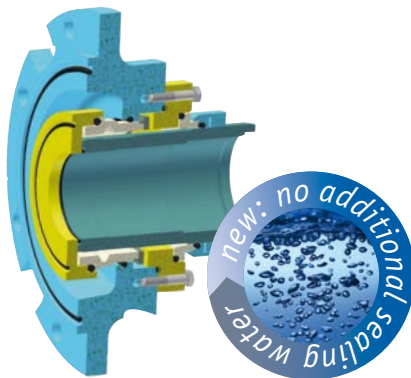
■ Metallic pumps (also for corrosive media!)

NPW:
slight to medium wear and tear

NPK:
medium to heavy wear and tear

KB/KBK/KBPL:
heavy wear and tear

All over the world we support operators with the construction process by supplying them with special pumps and original spare parts from our own stainless steel and polyurethane foundry. In order to ensure your success, we only use products **Made in Germany**.



Now available for all HABERMANN pumps: The innovative mechanical shaft seal. It protects the environment, increases the service life – and thereby saves costs.

HABERMANN innovation: The new HGD mechanical shaft seal

The shaft sealing of pumps used for solid-laden slurries and suspensions requires design solutions which are adapted to the task at hand.

Our many years of experience results in long-lasting innovations. One of them is the development of our own mechanical shaft seal. The mechanical shaft seal is supplied with cooling and rinsing liquid from an unpressurised storage vessel. The continuous addition of fluid is therefore no longer necessary. For the sliding and counter seal rings we use materials optimised for the application. In both the single-acting and double-acting design the mechanical shaft seal today ensures reliable operation in numerous pump applications.



For various requirements, for example in fertiliser production, our solid matter pumps are ideal when pumping strongly abrasive or abrasive/corrosive mixtures of solids.



Pumps where the chemistry is right

Thanks to optimum material concepts, HABERMANN pumps are the perfect solution for the chemical industry.

With their many years of experience in the hydraulic, abrasive/corrosive transport of solids, our experienced specialists are able to offer you an ideal, cost-effective solution which is developed and implemented together with you.

Our products stand out due to their flexibility, quality and long life cycles. We achieve this with our high vertical range of manufacture and a wide variety of materials. Our pumps are used in the chemical industry for the production of titanium dioxide or iron oxide, amongst other things.

With our experience in pump construction we are able to determine the ideal material for your application and guarantee extremely high, consistent quality. A large proportion of the parts we offer are manufactured in our own production facilities, e.g. from polyurethane or stainless steel castings.

The entire field of application of elastically lined and metallic pumps is covered by the HABERMANN pump range.

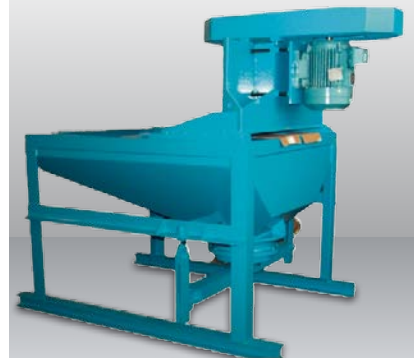
Of course we also offer you individual and special solutions, which also make up a large share of our production

We recommend the HPK, HPK-N and HPK-V type series for:

- ▶ Sulphate processes
- ▶ Chloride processes
- ▶ Pigment production
- ▶ Fertiliser production

in each case with

- ▶ HAWIFLEX® lining
- ▶ Rubber HAWISIL® lining



Recycling and Treatment

HABERMANN sump pumps with their own sump pit are mainly used in manufacturing industry, chemicals, mining, processing technology, in the field of non-metallic minerals and in power stations – wherever media with air pockets, foaming suspensions or discontinuous inflow conditions prevail and a high level of corrosion resistance is required.

Through the special design of the infeed tank, the sump pit can be perfectly adapted to the medium and the operating conditions. The N design sump pump does not require any shaft seal.

The design of the pump parts essentially corresponds to that of the single-stage armoured pumps of types HPK and NPK. It is therefore possible, depending on the application, to use elastically lined and metallic pumps. The tank and other parts are of course made of appropriate materials.

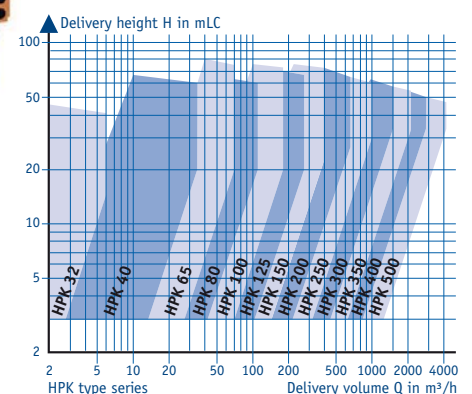
HABERMANN sump pumps open up new possibilities, particularly in recycling and treatment plants – to the benefit of our environment.

Depending on the application, a flow rate of up to 1400 m³/h and a pump speed of up to 2000 min⁻¹ is available.

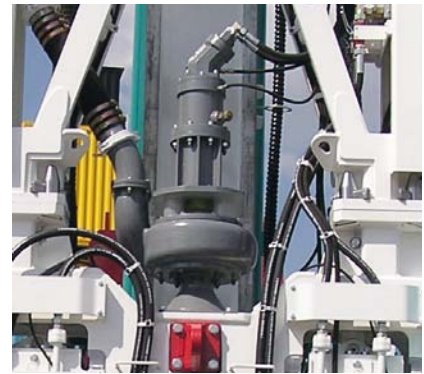
Nominal connection diameters from DN 32 to DN 300 are possible. The pump can withstand an operating pressure of 10 bar and a temperature of the medium conveyed of up to 80°C.

Product recommendation:

- Sump pump HPK/N



In order to prevent **leakage** make use of our **standstill seal** which has been specially designed for pumps with their own sump pit and which prevents the tank from running empty.



Traffic and Utility Tunnelling

HABERMANN special pumps for challenging fields of application in tunnelling have been designed for both horizontal and vertical drilling.

The wide range of HABERMANN models and materials offers a large number of innovative solutions for all forms of applications in machine tunnelling and special civil engineering. All over the world we support operators with the construction process by supplying them with special pumps and original spare parts from our own stainless steel and polyurethane foundry.

Whether as a reliable feed pump for supplying the working face with bentonite suspension or as a wear-resistant discharge pump for the slurry produced there from mixing the soil material and bentonite suspension: our pumps are an integral part of the hydraulic conveyor system of the tunnel boring machine.

Product recommendation:

- KBPL and NPK

Compact design for cramped installation conditions

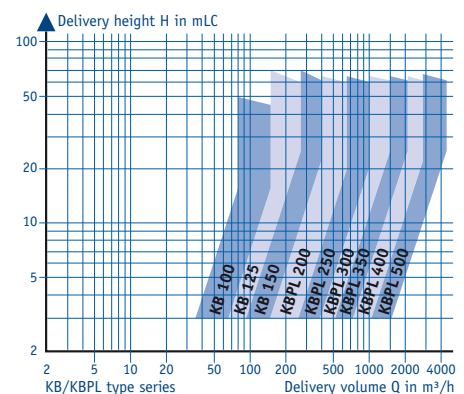
Perfectly adapted for use as a discharge pump or feed pump in cramped installation conditions in micro-tunnelling: You will also be impressed by our high-performance, wear-resistant pumps of the KB, KBK, KBKT and NPW type series with their compact design.

With the highest quality demands we have manufactured our products exclusively in Germany from the very beginning. Take advantage of our many years of experience.

Product recommendation:

- KB

All over the world operators and manufacturers of tunnel boring machines for the field of **traffic tunnelling** rely on the high levels of performance of our rugged excavator and armoured pumps of the KBPL and NPK type series – for example the type KBPL feed pump used for the Wehrhahn line project in Düsseldorf.



More than pumps ...

HABERMANN is a successful, medium-sized enterprise with more than 80 years of tradition and experience in the hydraulic transport of solids.

Based on our extensive experience in the manufacturing of pumps, our product range today also covers the market segments of suction dredgers, high-tech plastics and mixer technology, as well as stainless steel and stonecast. In the field of highly wear-resistant materials HABERMANN has an innovative and diverse range of offers with potential for synergy effects across various fields of application.

Armoured pumps represent the heart and soul of the company. The experience gained from the successful use of more than 30,000 pumps is continuously incorporated into the further development of our product range. Many of the pumps are custom-made as they are manufactured specifically in accordance with our customers' requirements.

The **Suction Dredger** Division comprises not only the production of various suction dredger vessels and accessories, but also an extensive range of services.

Since 1967 the **Plastics** Division has been successfully working in the production of the elastomer HAWIFLEX®, a highly elastic material which stands out due to its enormous ability to withstand stress and resist wear.

In the **Mixer Technology** Division HABERMANN offers a wide range of spare parts for concrete mixers, e.g. linings made of various materials for protecting against wear and tear, and is therefore a leading partner of the concrete industry.

The range of materials in the field of **stainless steel and stonecast** includes all common types of cast steel, including highly wear-resistant developments of our own, which we produce in our own stainless steel foundry. These products are successfully used in the construction of HABERMANN armoured pumps and suction dredger pumps.

HABERMANN manufactures its products entirely from a single source in its own production facilities in Germany – thereby enabling the highest levels of flexibility and customer orientation.

Take advantage of our experience and varied range of services for your application!
We look forward to receiving your enquiry.

Pumps
Suction dredger
Plastic
Mixer technology
Stainless steel casting
Mineral casting
Electrical Engineering

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