

PRODUCT RANGE.

Horizontal pumps

with hydrodynamic shaft seal

Vertical pumps

- for dry installations, short design
- for wet installations, without bearing in the liquid
- for wet installations, with slide bearing
- with feeder propeller for space-saving installation

Tank pumps

with intake from above

Horizontal- and Vertical pumps

- with semi-open impellers
- with closed impellers
- with torque flow impellers

Downstream seals

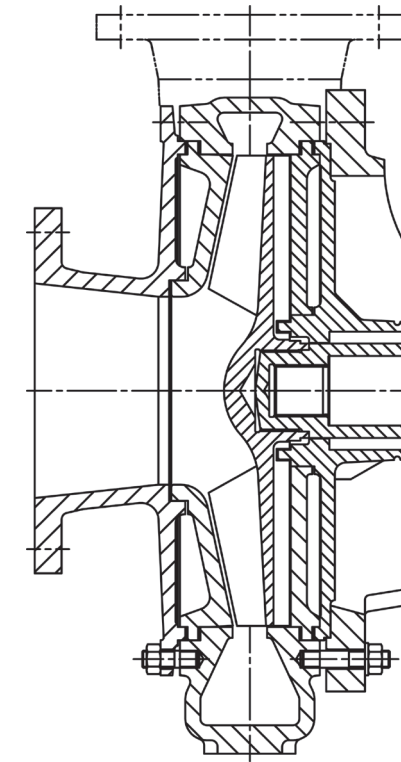
for pumps with hydrodynamic relief of the shaft gap

- packing gland
- mechanical seal
- magnetic drive
- particular solution for problem cases

Comprehensive information about each type of pumps is featured in individual product brochures.

MATERIALS.

- all castable and weldable stainless steel qualities
- castable and weldable special alloys
- grey cast iron, rubber lined
- special materials such as titanium, zirconium, etc.



BUNGARTZ
CENTRIFUGAL PUMPS
SiC-MATERIAL

PAUL BUNGARTZ GMBH & CO. KG

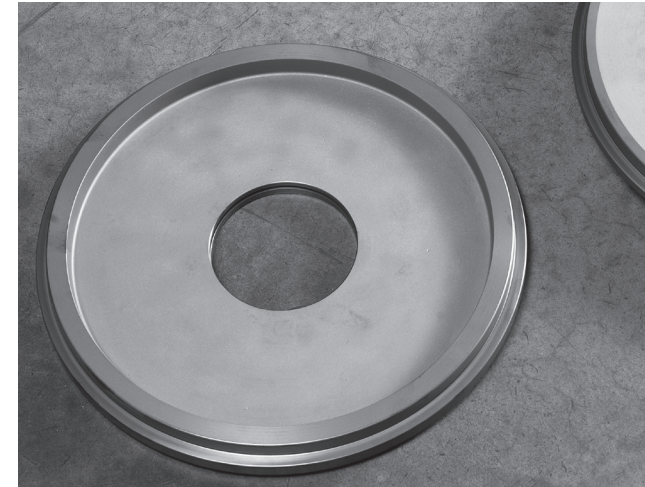
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ROBUST AND DURABLE. INNOVATIVE USE OF MATERIAL IN HORIZONTAL CENTRIFUGAL PUMPS.

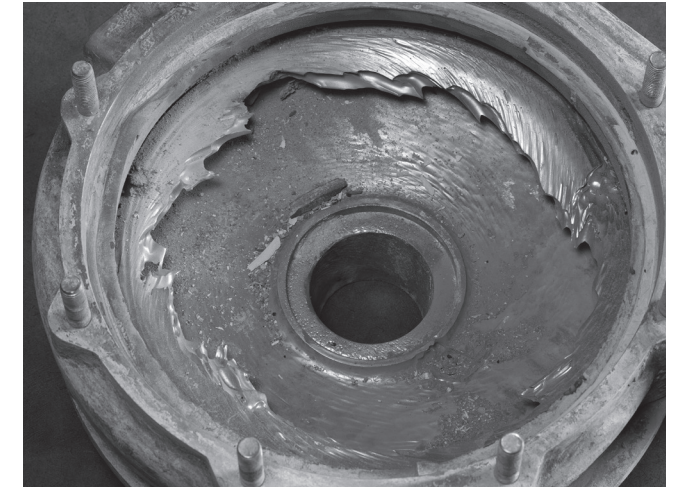
Our horizontal centrifugal pumps **M-MOR/S** and **M-UMOR/S** are robust problem solvers. Used around the world, they master the most difficult tasks. Unique: They reliably deliver even extreme media that are abrasive and corrosive at the same time. The slurry pumps are specifically designed for this demanding work. Basis is the contact-free hydrodynamic shaft seal developed by Bungartz. **The principle is that** through the use of back vanes on the impeller, the shaft gap is hydrodynamically sealed during operation.

NEW:

The innovative use of a hard-wearing material based on SiC. Thus, the service life of the impeller is significantly extended. In terms of its structure and properties, silicon carbide is similar to a diamond – in particular with regard to hardness and abrasion resistance. The abrasion-resistant pumps also gain from the all-rounder – they are designed with semi-open or open impellers and equipped with additional wear plates. Here, the high-performance material has stood the test.



with SiC



without SiC

INNOVATIVE AND COST-SAVING:

Use of the abrasion-resistant material immediately within the casing of the reliable centrifugal pump. SiC ceramic is used exactly in the zone in which the immediate wear occurs. The selective use of SiC ceramic in abrasion-intensive zones saves costs.

Further advantages are that the system is significantly improved in its operational reliability and that the maintenance intervals are extended.

TRIED AND TESTED.

The wear plate made from duplex material shows significant signs of wear after approx. 4 months.

The consequence: the wear plate has to be replaced. The wear plate made from the innovative SiC material, however, does not show any sign of abrasion or corrosion. It is still running smoothly.

RANGE OF THE PUMP APPLICATION.

Delivering extreme media, which may be abrasive and corrosive at the same time.

APPLICATION EXAMPLES.

Ammonium nitrate with dolomite, iron oxide, gypsum and dust slurries, flotation pulps, crystal mush, cement slurry, pulps, sinter and production waste water and many other things.

OUTPUTS.

- Q = 10 — 1200 m³/ h
- H = 100 — 15 m liquid column

ADVANTAGES.

- Significant extension of the service life of zones prone to wear
- Improvement of the high operational reliability
- Increasingly generous maintenance intervals
- Substantial cost benefits