

brainpower your pumps!



INTELLIGENT PUMP TECHNOLOGY
CONVINCING PRODUCTS AND SERVICES

BRINKMANN PUMPS AT A GLANCE



As an independent family owned business with over 70 years of experience we develop customized pump solutions for customer specific needs and systems.

Our pump technology is primarily applied in the machine tool industry. Companies within the printing, plastics and beverage industry are also beneficiaries of our know-how and research and development in the field of high quality coolant pumps.

We are the technology leader in our industry and stand for supplying products of the highest quality. We are forward thinking and drive innovation.

We serve our customers' needs from our headquarters in the middle part of Germany as well as from our subsidiaries in the USA and Japan. In addition, we have global presence through a tight network of world wide representatives that make our products and services available anywhere around the globe.

Overall we offer a seamless portfolio of innovative pump solutions for all imaginable applications and desirable services.

OUR KNOW-HOW FOR YOUR SUCCESS



“ We are looking at systems and applications through our customers' eyes and are applying our competencies to maximize the added value for our clients.

Our thorough understanding of all technologies applied in the field in combination with our extensive experience and ability to innovate allows us to serve as a strategic partner and as a problem solver at the same time.

As a technology leader we are capable of thinking outside of the box in order to find new and ideal pump solutions. At the same time, we never lose focus of our current tasks at hand and feel always responsible to strive for the best possible solution while adding value for our customers.

On the basis of competent consulting we develop sound relationships with our customers which are exemplified by transparency and commitment.

Particularly during research and development projects with our customers we put strong emphasis on continuous and in-depth exchanges and communication with our customers to ensure the success of our engineering.

The service package Advance resembles and strives for the highest level of customer satisfaction. It ensures quick support and allows you to remain operational without interruption.

OUR ENGINEERING FOR YOUR PERFECT PUMP SOLUTION



“ In cooperation with our customers we develop solutions that are sustainable for the future.

With intelligent engineering and our commitment to highest quality we create technically sophisticated products.

During the creation of customer specific solutions we count on the in-depth knowledge and experience of our engineering team in terms of pump technologies, electric motor design and application know-how.

The in-depth knowledge of all characteristics and behaviors of our materials of construction builds the basis for efficient and market oriented solutions.



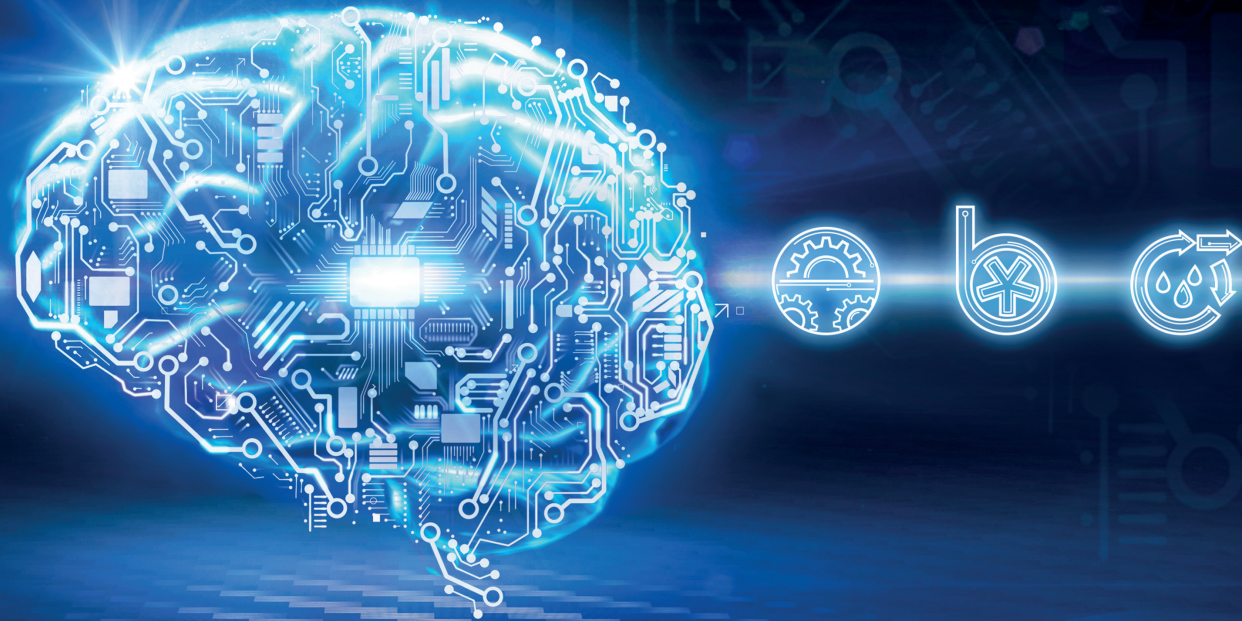
Close interaction amongst our engineers, production and quality specialists in conjunction with high tech measuring and testing processes in accordance to latest ISO standards allows us to consistently generate high quality results at comparatively short development times.

Our modular hydraulic design system builds the basis for allowing us to precisely meet your specific application requirements.

OUR LARGE PRODUCT PORTFOLIO FOR YOUR SPECIFIC APPLICATION

brainpower your pumps!

Intelligent pumps for your future



Efficient and powerful – we offer precisely fitting pump solutions, sustainable motor drives, digital solutions and intelligent services for many industrial applications.

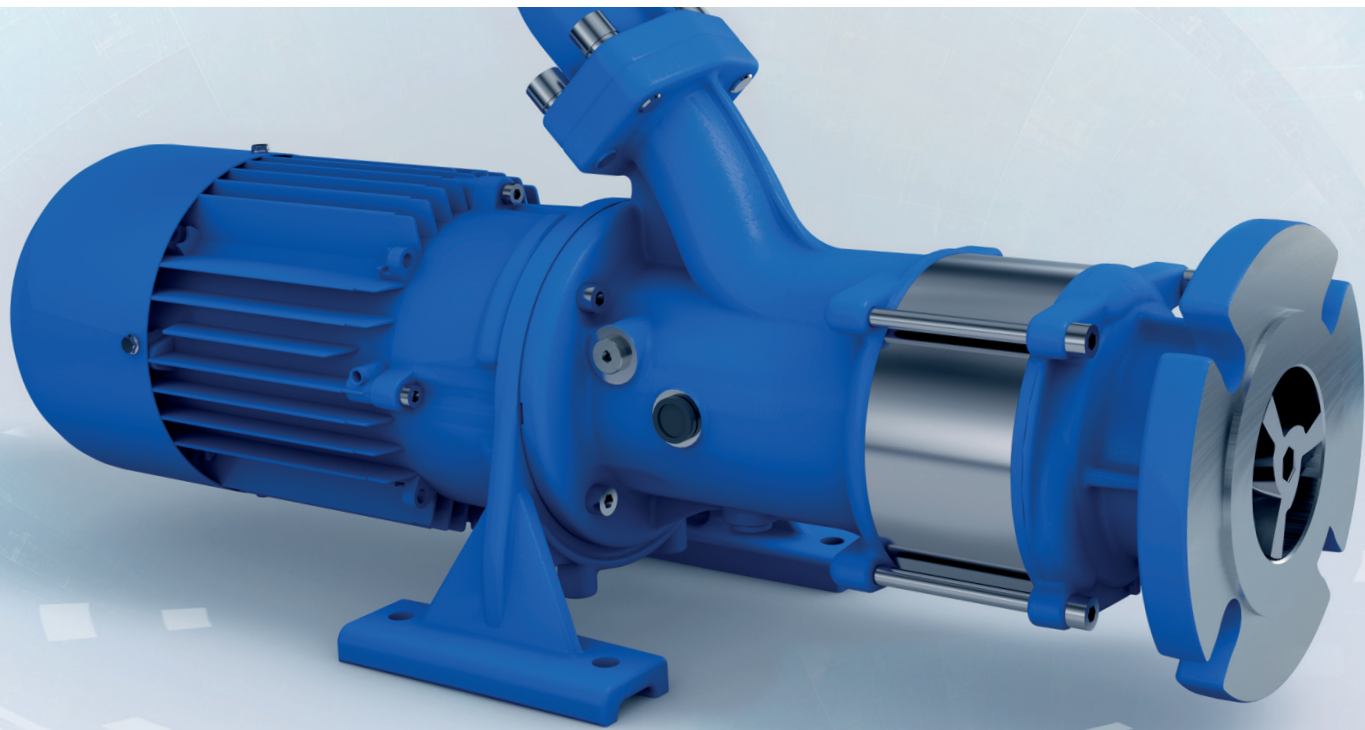
No matter if immersion pumps, lift pumps or high pressure pumps, our customers from various industries know that they can always count on our wide and reliable product portfolio of centrifugal and screw pumps for their applications.

Our pumps are typically applied in applications such as central filtration systems, pumpback stations, individual filtration systems, dampening systems, tempering systems and beverage cooling.

With our smart bplagic pump control we support you in your digitalization efforts towards Industry 4.0. The intelligent control module paves the path for the Internet of Things (IoT) and optimizes the use of variable frequency drives (VFD) in a perfect way.

In addition to this, our Advance Service Package offers a wide array of services, ranging from consulting for proper pump selection all the way to start-up support and repair services.

LOW PRESSURE PUMPS FOR MACHINE TOOL COOLANT SUPPLY



Contamination resistant coolant pumps with semi-open impellers find their applications primarily in machine tool applications (i.e. in coolant filtration systems for cooling or machine bed flushing). Pumps with our patented de-aeration feature are particularly well suited for highly air entrained water-soluble coolants and grinding oils. In addition to single and multi-stage pumps we also offer pumps with immersion depth extensions as well as space saving horizontal and vertical inline solutions.



IMMERSION PUMPS

TB|STE|STA

DESCRIPTION

- Standard centrifugal pump
- Backflush filter supply
- For use in chip conveyors
- For externally cooled tools
- Machine bed flushing
- Optional immersion depth extensions are available

Impellers: semi-open
Volumetric delivery: max. 5000 l/min
Delivery head: max. 120 m



STAINLESS STEEL PUMPS

TVG|TVA

DESCRIPTION

- Centrifugal pump suitable for industrial washing and part cleaning applications
- For corrosive fluids
- Also available as fully assembled package with mounting plate and piping

Impellers: closed / semi-open
Volumetric delivery: max. 1000 l/min
Delivery head: max. 50 m



QUICK SUCTIONING
IMMERSION PUMPS

STL|SAL|SGL|SZG

DESCRIPTION

- Centrifugal pump with suction de-aeration system
- For oil/water-soluble coolants with high air-entrainment
- Single stage lift pump
- Pumpback pumps for grinding applications
- Optional immersion depth extensions are available

Impellers: axial / semi-open
Volumetric delivery: max. 2600 l/min
Delivery head: max. 115 m



HORIZONTAL
END-SUCTION PUMPS

SBA|SBG

DESCRIPTION

- For oil and water-soluble coolant/air mixtures
- Pump back pumps for grinding applications
- Single stage lift pump
- Space saving design

Impellers: axial / semi-open
Volumetric delivery: max. 2250 l/min
Delivery head: max. 62 m



VERTICAL
END-SUCTION PUMPS

SBA-V|SBG-V

DESCRIPTION

- For oil and water-soluble coolant/air mixtures
- Pump back pumps for grinding applications
- Particularly space-saving design

Impellers: axial / semi-open
Volumetric delivery: max. 2250 l/min
Delivery head: max. 75 m



SELF-PRIMING
END-SUCTION PUMPS

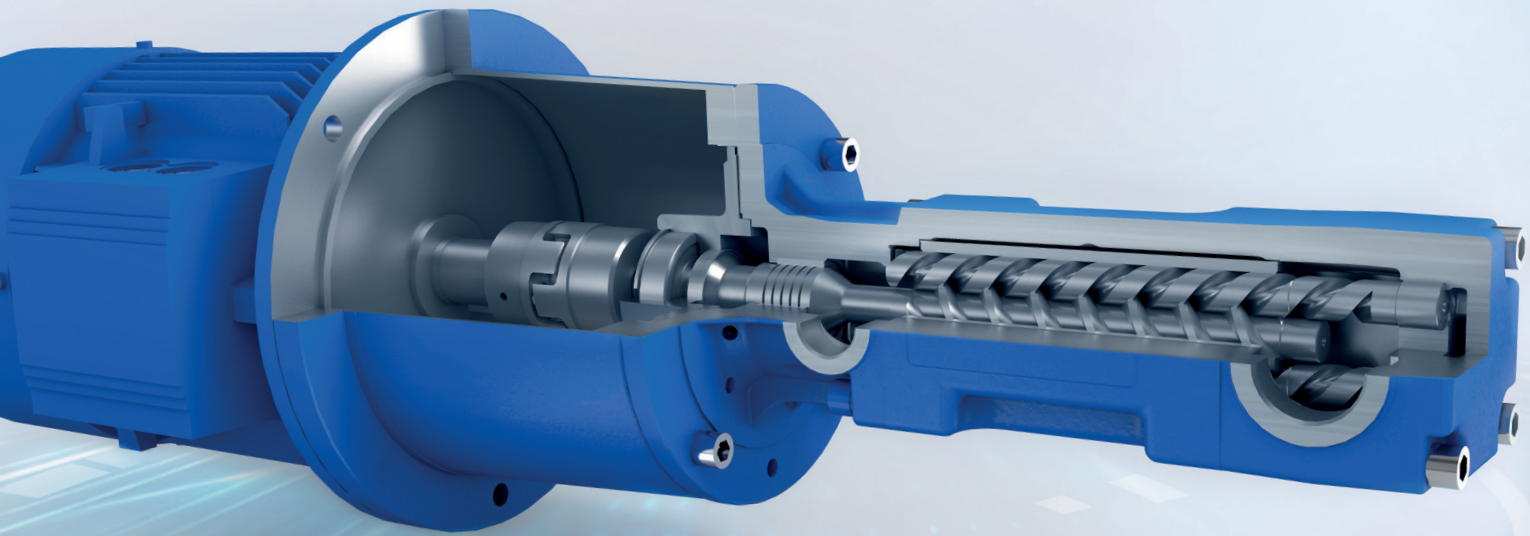
SBM

DESCRIPTION

- Classic end-suction pump
- Self-priming after initial filling
- Suction head of up to 5 m
- Excellent suction capability

Impellers: semi-open
Volumetric delivery: max. 440 l/min
Delivery head: max. 20 m

MEDIUM AND HIGH PRESSURE PUMPS FOR MACHINE TOOL COOLANT SUPPLY



The requirements for the supply of filtered, lubricating coolants (i.e. water-soluble coolants and oils) to machine tools vary to a large degree. They require different pump solutions: small and compact pumps for external cooling, centrifugal pumps with closed impellers for medium pressure applications (up to 50 bar) or high pressure pumps (up to 200 bar) based on screw spindle technology for internally cooled tools. They must either be designed exactly for a specific working point or controlled by a variable frequency drive.



IMMERSION PUMPS

TS

DESCRIPTION

- For externally or internally cooled tools
- Use in shallow tanks or chip conveyors
- Spray pistols
- Compact design

Impellers: peripheral
Volumetric delivery: max. 70 l/min
Delivery head: max. 95 m



IMMERSION PUMPS

STC

DESCRIPTION

- For externally or internally cooled tools
- Use in filter systems, central coolant systems or chip conveyors
- Very wear resistant in grinding applications

Impellers: closed
Volumetric delivery: max. 600 l/min
Delivery head: max. 225 m



IMMERSION PUMPS

STH

DESCRIPTION

- For externally or internally cooled tools
- Use in filter systems, central coolant systems or chip conveyors
- Special versions for grinding applications
- To reach a specifically targeted working point
- Available in stainless steel

Impellers: closed
Volumetric delivery: max. 640 l/min
Delivery head: max. 520 m



PRESSURE BOOSTING PUMPS

FH

DESCRIPTION

- For externally or internally cooled tools
- Use in pressure boosting systems
- Pressure boosting at the machine (within central coolant systems)
- To reach a specifically targeted working point

Impellers: closed
Volumetric delivery: max. 640 l/min
Delivery head: max. 520 m



SCREW SPINDLE PUMPS IMMERSION STYLE

BFS|BFG|TFS

DESCRIPTION

- High pressure applications, such as, grinding or deep hole drilling
- Demand based pump control with frequency converter (VFD)
- Pump housing execution in silicon carbide or in hardened cast iron
- Available fully assembled with mounting plate, pressure relief valve and piping
- Discharge port either below or above the mounting plate

Impellers: hardened, precision ground
Förderleistung: max. 878 l/min
Delivery pressure: max. 200 bar



SCREW SPINDLE PUMPS INLINE STYLE

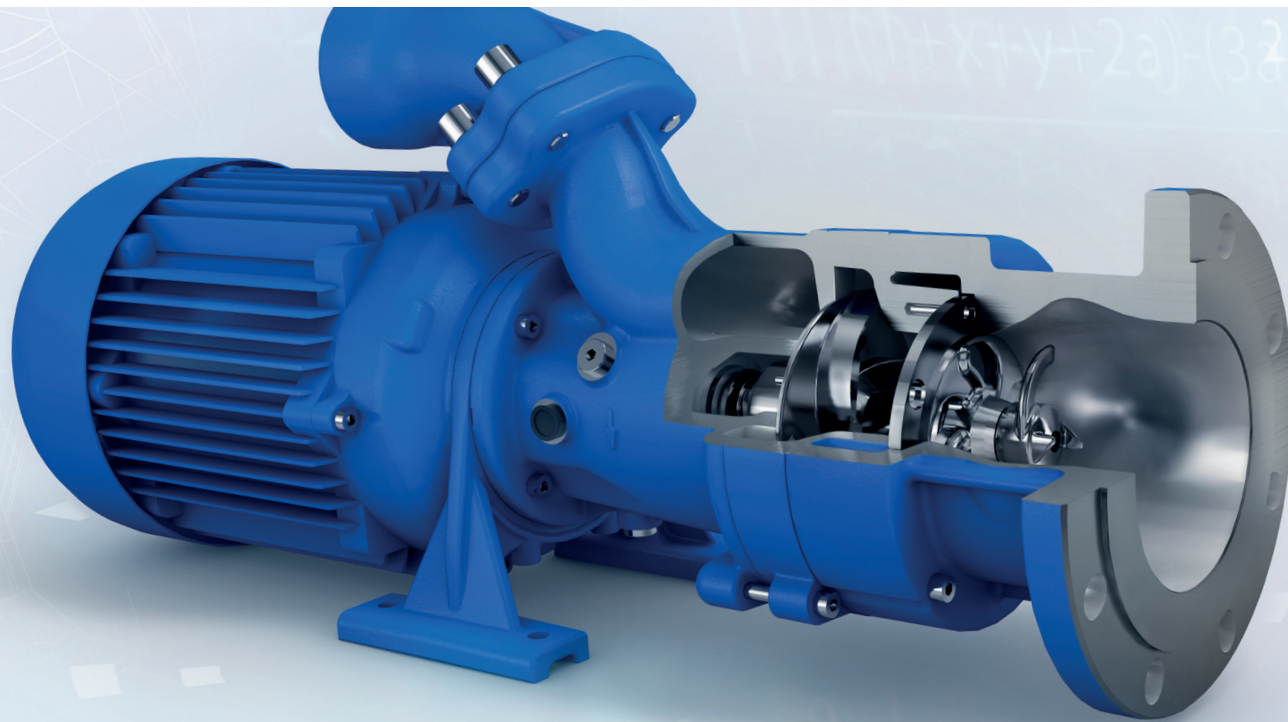
FFS

DESCRIPTION

- High pressure applications, such as, grinding or deep hole drilling
- In combination with central coolant systems as pressure boosting skid
- Demand based pump control with frequency converter (VFD)
- Pump housing execution in silicon carbide or in hardened cast iron
- Foot mounted inline version with mechanical seal

Impellers: hardened, precision ground
Volumetric delivery: max. 878 l/min
Delivery pressure: max. 200 bar

LIFTING PUMPS FOR CHIP HANDLING



To handle coolant lubricants along with chips and other contamination our pumps offer a multitude of flexible installation and application options. For example, they can be used as lift pumps for filters directly located at the machine. In the wear resistant execution they can be used as pumpback pumps on central filter systems. The use of a cutter pump which cuts and pumps large chips along with the coolant fluid is also possible. In many applications this pump can also eliminate the need for additional shredders. In addition, our pumps are also available as vertical immersion pumps or as space saving horizontal or vertical inline pumps.



QUICK SUCTIONING IMMERSION PUMPS

SFL

DESCRIPTION

- Centrifugal pump with suction de-aeration system
- For water-soluble coolant or oil with increased chip load
- Pumping back of various chip and material types
- Use in pump back systems
- Optional immersion depth extensions are available

Impellers: axial / semi-open
Volumetric delivery: max. 2500 l/min
Delivery head: max. 46 m



HORIZONTAL END-SUCTION PUMPS

SBF

DESCRIPTION

- Pumpback without pump over tank
- For water-soluble coolant or oil with increased chip load
- Pumping back of various chip and material types

Impellers: axial / semi-open
Volumetric delivery: max. 2000 l/min
Delivery head: max. 35 m



CUTTER PUMPS

SFC|SXC|SPC

DESCRIPTION

- For water-soluble coolant with chips
- Cutting of aluminum chips (SFC), defined, low alloyed steel chips (SXC) and plastic chips (SPC)
- Use in pump back systems
- Often replaces shredders

Impellers: axial / semi-open
Volumetric delivery: max. 1700 l/min
Delivery head: max. 45 m



HORIZONTAL CUTTER PUMPS

SBC

DESCRIPTION

- Pumpback without pump over tank
- For water-soluble coolant with chips
- Cutting of aluminum chips
- Often replaces shredders

Impellers: axial / semi-open
Volumetric delivery: max. 1400 l/min
Delivery head: max. 34 m



FREE-FLOW IMMERSION PUMPS (VORTEX PUMPS)

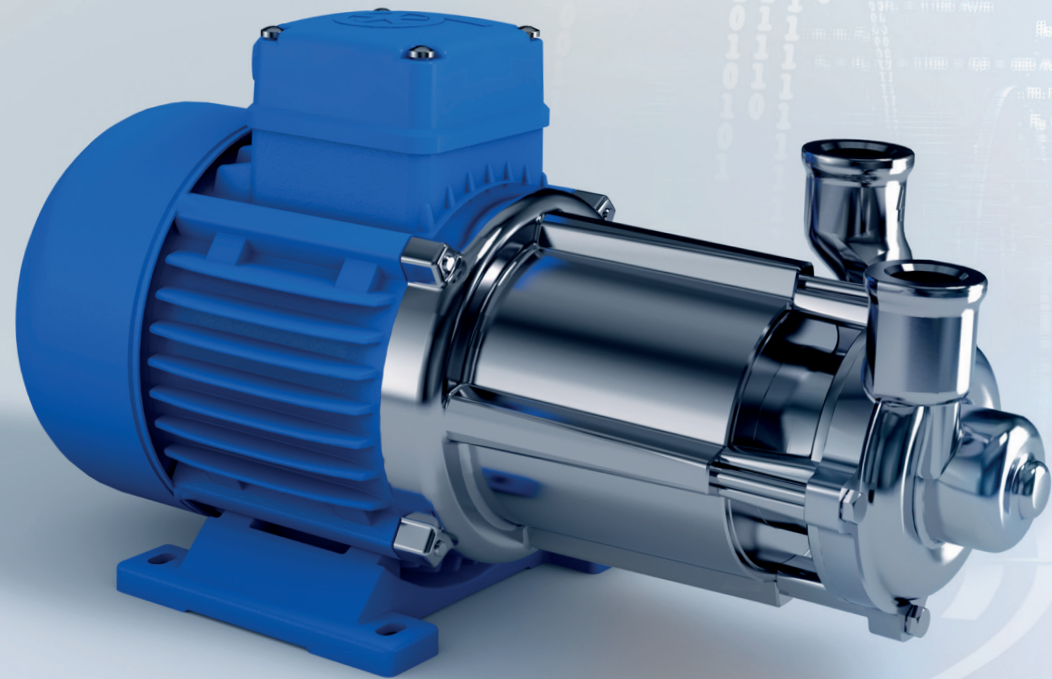
SFT|FTA

DESCRIPTION

- For water-soluble coolant with chips
- Pumping back of various chip and material types
- Use in pump back systems
- Large sphere size passages
- Some as cantilever design (Vortex)

Impellers: semi-open
Volumetric delivery: max. 2500 l/min
Delivery head: max. 20 m

PLASTIC PUMPS AND MINIATURE CENTRIFUGAL PUMPS



Compact plastic pumps and small centrifugal pumps for high temperature applications (up to 160° C) complement our pump portfolio for applications outside of classic machine tool applications. As design versions with semi-open and peripheral, turbine style impellers these models have found their solid foothold in several specific applications. In addition to special solutions for tempering systems and for industrial water applications, such as glass grinding or dampening systems our pumps are also found in cooling applications of electric vehicles.



PLASTIC IMMERSION PUMPS

KTF|KTB

DESCRIPTION

- For beer cooling systems
- Dampening cooling system
- Glass grinding
- For industrial water

Impellers: semi-open
Volumetric delivery: max. 400 l/min
Delivery head: max. 42 m



MINIATURE CENTRIFUGAL PUMPS

KC

DESCRIPTION

- Removal of water-soluble coolants
- For cooling circuits
- Foot mounted, self-priming after initial filling
- For industrial water, coolants, fuel oil

Impellers: open / peripheral
Volumetric delivery: max. 45 l/min
Delivery head: max. 45 m



SUCTION PUMPS

SB

DESCRIPTION

- Removal of water-soluble coolants
- For cooling circuits
- Foot mounted, self-priming after initial filling
- For coolants, cooling/cutting oils, fuel oil, industrial water

Impellers: open
Volumetric delivery: max. 50 l/min
Delivery head: max. 16 m



MINIATURE CENTRIFUGAL PUMPS

B|BMK

DESCRIPTION

- For tempering systems, open or closed loop
- Foot mounted, inline pump; gravity fed suction
- Suitable for industrial water up to 160° C
- With magnetic coupling (BMK)

Impellers: peripheral
Volumetric delivery: max. 55 l/min
Delivery head: max. 60 m



IMMERSION PUMPS

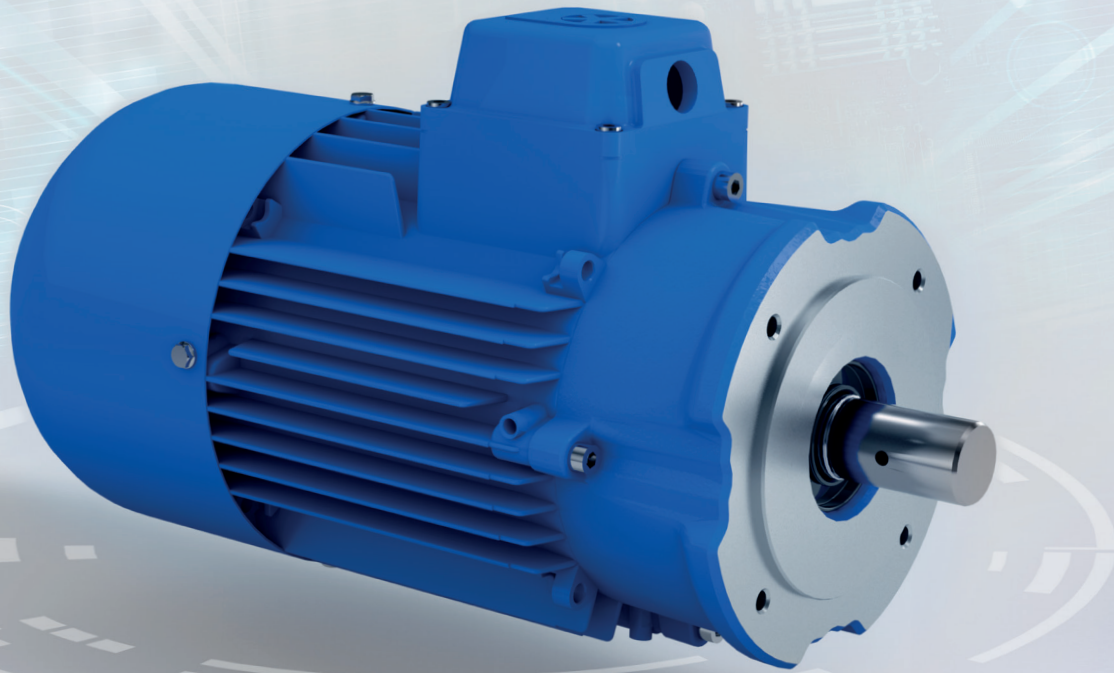
TB-M

DESCRIPTION

- Standard centrifugal pump
- Suitable for fluids up to 130° C

Impellers: semi-open
Volumetric delivery: max. 90 l/min
Delivery head: max. 6,5 m

BPDRIVETEC DRIVE TECHNOLOGY



Tens of thousands of electric motors from our own production are in operation world wide and ensure 100 % of up time of our coolant pumps every day. Suitable motor drives are available in multiple voltage and cycle combinations and with several country labels - also for small batch production sizes outside of modern pump applications. Thanks to numerous special designs and a multitude of options, such as custom flange geometries, adaptations to specific applications are easily feasible.

Particularly sustainable are water cooled motors which are in combination with our pumps extremely quiet and offer the option for targeted heat removal and its potential use.



BRINKMANN STANDARD MOTOR

DESCRIPTION

- Long proven drive technology
- Reinforced bearing for application in coolant pumps
- Available in all global voltage and cycle configurations
- Various country specific energy and safety labels



BRINKMANN MULTI COUNTRY MOTOR

DESCRIPTION

- One motor for many different voltages and frequencies
- Several country specific energy and safety labels
- International efficiency class IE3
- Reduces required inventory and simplifies serial production
- Reinforced bearing for application in coolant pumps
- Power ratings from 1.1 kW to 5.5 kW



SPECIAL MOTORS

DESCRIPTION

- Various flange and shaft designs
- In small series, fast delivery times
- Available in all global voltages and frequency combinations
- Several country specific energy and safety labels



WATER-COOLED PUMP MOTOR

DESCRIPTION

- Positive impact on CO₂ footprint
- Targeted heat removal via the cooling fluid
- Allows the utilization of waste heat
- IMB5 motor design and special layout with reinforced bearing to allow closed coupled assembly to the BRINKMANN PUMPS product line



NOISE REDUCED MOTOR

DESCRIPTION

- Uni-directional axial fan
- Noise reduced fan
- Forced ventilator
- In comparison, water cooled motors offer the lowest noise emission



OPTIONS

DESCRIPTION

- Various connector options (i.e. Harting)
- PTC resistor with temperature sensor
- Special windings
- Motor with directly mounted variable frequency drive

DIGITAL SOLUTIONS FOR SMART NETWORKING

bplogic



Controlling, optimizing, digitalizing – the intelligent bplogic pump controller conveniently places our know-how in between your machine tool, pump, filtration system and other components.

Industry 4.0 and the Internet of Things (IoT): bplogic simplifies the transition towards digitalization. Digital pump control allows for predictive maintenance, monitoring (i.e. energy consumption) and additional customer specific features without any programming knowledge. Upon request this smart control device can also control valves and other hardware components.

Due to its minimal installation requirements the bplogic controller easily integrates into any existing system, independent of the type of variable frequency drive used.

Our offer: Our highly capable service team is eager to assist you throughout the entire start-up process.

bplogic.brinkmannpumps.de/en



When using our advanced variable frequency drive, you automatically increase the energy efficiency of your pumps. Intelligent controls ensure the correct supply pressure at all times.

The digital variable frequency drive allows for precisely adjusting the required working point thereby ensuring highest possible energy savings. The patented BRINKMANN PUMPS offset-control operation calculates the desired target pressure and minimizes any pressure spikes that can occur during tool changes.

The modular control unit can easily be configured and features an unventilated design (up to 7,5 kW). It can easily be retrofitted as no additional control panel space is necessary. Communication via PROFIBUS, PROFINET, CAN-open and EtherCAT is optional and available.

Our service: In close cooperation with our customers, all variable frequency drives are always sent out with preprogrammed parameters.

OUR SERVICE FOR YOUR SATISFACTION

advance



expert



smart



express



connect

More Know-how

With our vast knowledge, experience and well trained personnel, we can support you during all stages of the purchase of our high quality pumps.

- Customized and on point pump development
- On site application consulting
- Customized seminars
- Flow simulation and testing in actual conditions
- Pump return and replacement options for machine retooling and rebuilds
- Extensive product warrantee
- Support for trouble shooting

Intelligent Solutions

We provide you with all necessary support for selecting the pump that perfectly matches your requirements and we are here for you throughout the entire life cycle of the project.

- Active consulting to ensure all necessary pump requirements are precisely determined hand in hand with on site visits to see applications first hand
- Calculation software for optimal pump sizing
- Global support service for pump start-up, maintenance and repair
- Fast remote service
- Retrofitting and modernization of existing systems
- Simple product sourcing and consulting – from pump selection to shipping options

Fast Service

We know that fast processing time is just as important for customer satisfaction as product quality. We will also impress you in this respect.

- Demand oriented delivery options i.e. customer specified carrier or express delivery service
- Expedited repair service
- Fast availability of spare parts and replacement pumps
- Fast response times for customer contact
- Taking advantage of digital processes

Excellent Availability

We are always available to answer any of your questions or give you the expert advice: in person, by phone or through our website.

- Excellent phone support and availability
- Personal consulting contacts in inside and outside sales
- Direct exchange of information at trade shows
- Unlimited access to information on our website



 Locations  Representatives

Presented by:



www.brinkmannpumps.de/en

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