

泵组系统
定量计量+输送
PUMP SYSTEMS
DOSING + TRANSFER



- 外齿轮泵
单联或多联
- 内齿轮泵
单联或多联
- 高压径向柱塞泵
- 高低压组合泵
- 特殊泵

百利泵 (Beinlich) 在世界上广泛应用。如液压,造船,航空,化工,塑料,制药,印染和食品行业等;也广泛应用于双组份,多组分混比。

经过六十年的技术沉淀和应对各种复杂介质的经验积累,百利泵公司能为客户提供高效且有效的解决方案。

经过多年系统性的开发,形成目前的定量泵和输送泵系列。我们按最高标准和质量来设计和开发产品。

- **EXTERNAL GEAR PUMPS
SINGLE- AND MULTI-STAGE**
- **INTERNAL GEAR PUMPS
SINGLE- AND MULTI-STAGE**
- **HIGH PRESSURE RADIAL PISTON PUMPS**
- **LOW AND HIGH PRESSURE PUMPS**
- **SPECIAL PUMPS**

Beinlich external gear dosing pumps are applied worldwide in process plants of the chemicals, plastics, pharmaceuticals, dyes, paints and food industries as well as in the areas of oil hydraulics, two- and multi-component machines, but also in shipbuilding and aircraft construction.

Based on extensive experience in dispensing difficult to handle fluids and six decades of technological knowledge, Beinlich develops customized, innovative and efficient solutions. The actual broad range of Beinlich dosing and transfer pumps is the result of systematic product development. Traditionally, the implementation of the highest possible standards, quality awareness and detailed knowledge of customer industry sectors are the focus of product design and development.



- 通过所属的 e.holding 集团的姐妹公司配合,百利泵公司能提供完整的泵组系统,例如:液压驱动,双组份设备,塑料或发泡设备,测试台,航空航天工业检修,及各种特殊应用。

- In cooperation with partner companies of the e.holding-Group, Beinlich offers complete aggregates as a system supplier for: Hydraulic drives, 2-component-machines, production of plastics and foamed plastics, testing benches, maintenance devices for the aerospace industry, special solutions for customized applications.



► 概述

► PROFILE

泵用于

- 低粘度或高粘度介质
(粘度范围从 0.8 至
1000000 mPa·s)

该范围以外 请咨询

- 腐蚀或磨耗性液体
(侵蚀性, 毒性且 (或) 高温)
- 压力范围从 3 到 700 bar
- 防爆应用 (ATEX)
- 聚氨酯工业和设备制造
(异氰酸酯, 多元醇, 催化剂, 如氨,
防火油, 添加剂, 颜料; 含或不含磨料
(加粉)).

我们提供产品从泵头到完整泵组(泵, 三相交流电机或减速电机, 变频器, 调节阀, 流量计, 联轴器, 磁联轴器, 磁联轴器和钟罩等.)

针对各种应用, 我们的泵有多种轴密封方式:

- 轴封环 (1F)
- 三层密封带油封腔 (3F-SP)
- 压盖密封 (ST)
- 压盖密封带油封腔 (ST-SP)
- 机械密封带油封腔 (GL-SP)
- 径向力平衡机械密封
带油封腔 (GL-SP-DP)
- 磁力密封 (MAG)

大排量外齿轮泵(斜齿), 配套磁联轴器. 用于钻井平台的天然气空气压机的润滑循环

High capacity external gear pump (helical geared) with magnetic coupling in offshore-application for lubricant circuits of natural gas compressor stations

PUMPS FOR

- Low and highly viscous fluids
(viscosity ranges from 0.8 to
1,000,000 mPa·s)
- Deviating viscosity ranges
on request
- Corrosive and abrasive fluids
(also aggressive, toxic and/or with
high temperatures)
- Pressure ranges from 3 up to 700 bar
- Application in explosion-proof areas
(ATEX)
- Polyurethane and machine building
industry (Isocyanates, Polyol, activators
e.g. amine, fire retardants, propellants,
dyes; with/without abrasive fillers)

Our delivery range reaches from „pump free shaft“ to a complete unit (Pump, three-phase-motor or gear motor, frequency converter, pressure control valve, flow meter VSE GmbH, mechanical coupling or magnetic coupling, bell housing)

For specific applications various sealing types are available for the drive shaft of the pump:

- Single shaft sealing ring (1F)
- Triple shaft seal with block chamber (3F-SP)
- Gland (ST)
- Gland with block chamber (ST-SP)
- Mechanical seal with block chamber (GL-SP)
- Mechanical seal with block chamber and Axial bearing (GL-SP-DP)
- Canister through magnetic coupling (MAG)



定量加注设备 用于牛油和人造黄油
Dosing unit for butter and margarine



定量泵集成流量计, 用于双组份或多组份混合系统

Gear dosing pump with assembled flow meter for 2- or multi-component-dosing systems



► 泵类型

► PUMP TYPES



大排量外齿轮泵

High capacity external gear pump

- 除了标准的不锈钢材料, 我们可提供特殊不锈钢, 钛合金或黄铜等材料
- 温度范围可高达 350°C (662°F), 如 泵应用与热油输送
- 更高压力等级的应用请咨询, 需综合粘度因素
- 液体加热 (导热油) 或 电加热 (加热夹套或加热装置)
- 外齿轮泵, 内齿轮泵, 可选单联或多联泵



不锈钢齿轮定量泵
特殊设计

Stainless steel gear dosing pump in special design

- Beside our standard stainless steel materials matching, we can offer special stainless steels, titanium or bronze
- Temperature ranges up to 350°C (662°F), e.g. pumps for heat transfer oil
- High system pressures available upon request, depending on viscosity
- Hydraulically heated (heat transfer media) or electrically heated (heating jacket or heating element)
- External and internal gear pumps, single- and multi-stage available



高压径向柱塞泵

High pressure radial piston pump



大排量内齿轮泵
集成安全阀
低噪音

High capacity internal gear pump with integral pressure limiting valve for low noise application

关于我们的外齿轮泵和不锈钢定量泵及特殊泵的更多信息, 请参考我们的 ZPD 产品样本或登录我们的网站查看 www.beinlich-pumps.com

Detailed information about our high capacity external gear pumps and stainless steel gear dosing pumps in special design is available in our ZPD catalogue or online at www.beinlich-pumps.com



► 规格及体积 排量

► SIZES AND VOLUMETRIC DISPLACEMENTS

模块化设计 产品范围

- 使用模块化设计原理,
我们可以实现各种组合,
组合出适合各种特定应用领域的
最佳方案。

选取一个合适的泵,
最基本的参数是每转的排量。
需要考虑的其它重要参数还有输
送的介质的润滑性、粘度和系统的
压力范围。

PUMP PROGRAMME DELIVERY RANGES

- By using the component building
block principle, a large number of
combination possibilities are availa-
ble for each individual solution in
practically every application area.

The selection of an adequate pump
occurs on the basis of the volume-
tric displacement per rotation. Further
important factors are also the lubricity
and the viscosity of the pumped me-
dium as well as the pressure ratio
within the system.

外齿轮泵 定量泵和输送泵

- 外齿轮泵 排量范围从 0.1 到
2600 毫升/转

EXTERNAL GEAR PUMPS DOSING AND TRANSFER PUMPS

- External gear pumps with volumetric
displacements from 0.1 up to 2,600
cc/rev



内齿轮泵

- 排量范围从 1 到 207 毫升/转

INTERNAL GEAR PUMPS

- Internal gear pumps with volumetric
displacements from 1 up to 207 cc/rev



径向柱塞泵

- 径向柱塞泵
排量范围从 0.42 到 42.9 毫升/转

RADIAL PISTON PUMPS

- Radial piston pumps with volumetric
displacements from 0.42 up to 42.9
cc/rev



► 排量范围
(毫升/转)

► PERFORMANCE RANGE
(CC/REV)

外齿轮泵
(规格范围)

EXTERNAL GEAR PUMPS
(PREFERENTIAL MODEL RANGE)

BG 1 0,1 - 7,3 毫升/转

BG 1 0.1 - 7.3 cc/rev

BG 2 3,9 - 23,6 毫升/转

BG 2 3.9 - 23.6 cc/rev

BG 3 17,3 - 72,0 毫升/转

BG 3 17.3 - 72.0 cc/rev

BG 4 44,4 - 517,0 毫升/转

BG 4 44.4 - 517.0 cc/rev

每系列中间排量规格请咨询

BG 5 289,0 - 900,0 毫升/转

BG 5 289.0 - 900.0 cc/rev

BG 6 550,0 - 900,0 毫升/转

BG 6 550.0 - 900.0 cc/rev

BG 7 1100,0 - 1600,0 毫升/转

BG 7 1100.0 - 1600.0 cc/rev

BG 8 2100,0 - 2600,0 毫升/转

BG 8 2100.0 - 2600.0 cc/rev

Intermediate sizes of the single types on request

内齿轮泵

INTERNAL GEAR PUMPS

BG 1 1,0 - 6,9 毫升/转

BG 1 1.0 - 6.9 cc/rev

BG 2 3,5 - 17,0 毫升/转

BG 2 3.5 - 17.0 cc/rev

BG 3 18,0 - 69,0 ccm/U

BG 3 18.0 - 69.0 cc/rev

BG 4 55,0 - 207,0 ccm/U

BG 4 55.0 - 207.0 cc/rev

径向柱塞泵

RADIAL PISTON PUMPS

1-级 0,4 - 10,0 毫升/转

1-stage 0.4 - 10.0 cc/rev

2-级 0,8 - 21,0 毫升/转

2-stage 0.8 - 21.0 cc/rev

特殊要求请咨询

3-级 1,2 - 32,0 毫升/转

3-stage 1.2 - 32.0 cc/rev

4-级 1,6 - 42,0 毫升/转

4-stage 1.6 - 42.0 cc/rev

Customer specific designs on request

► 询价参数表

可登录网站填写

www.beinlich-pumps.com/deutsch/anfrage-formular.php

► DATA-SHEET FOR ENQUIRY

also available online on

www.beinlich-pumps.com/english/enquiry.php



► 特殊泵

► SPECIAL PUMPS

轴封类型举例

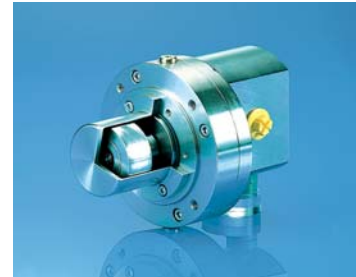
- 单层密封环
- 三层密封带油封腔
- 机械密封
- 机械密封带油封腔
用于入口压力高场合
- 无泄漏磁力密封,
如 有毒液体

SHAFT SEALING EXAMPLES

- Single shaft sealing ring
- Triple shaft seal with block chamber
- Mechanical contact seal
- Mechanical contact seal with block chamber for high inlet pressure
- Leakage-free magnetic coupling, e.g. for toxic liquids

不锈钢定量泵 带磁力密封

Stainless steel gear dosing pump with magnetic coupling



计量泵,用于食品工业 带清洗回路 用于 CIP 清洁

Metering pump for the food industry with flushing connections and passages for CIP cleaning



高压径向柱塞泵 (闭式设计)

High pressure radial piston pump (closed design)



高精度定量泵 微量定量

High precision dosing pump for low dosing rates





► 泵组方案

► SYSTEM SOLUTIONS

合作的集团子公司

VSE Volumentechnik GmbH

高精度流量计

各种配套仪表

个性化方案

DST Dauermagnet-SystemTechnik GmbH

► 新型永磁联轴器

(采用 BOROHARDCAN® 硼硅隔离罩节省 30% 能量损失)

完整传递组件

个性化方案

HBE GmbH Hydraulik-Komponenten

钟罩

脚架

减震装置

COOPERATION WITHIN THE GROUP

VSE Volumentechnik GmbH

High precision flow measurement

Complex electronic readouts

Customer specific solutions

DST Dauermagnet-SystemTechnik GmbH

► **NEW** Permanent magnetic couplings

(30% energy savings with Borosilicate canister BOROHARDCAN®)

Conversion kits

Customer specific solutions

HBE GmbH Hydraulic Components

Bell housings

Footbrackets

Damping elements

完整泵组,采用黄铜材料,应用于泡沫液,集成流量计和安全阀

Complete unit in bronze version for foam agent pump with integrated flow meter and safety valve



计量泵,用于含填料(加粉)的多元醇;带旁路阀门

Metering pumps for polyols with abrasive fillers with separate bypass valves



齿轮泵,用于热油循环
---特殊设计

Gear pump for hot oil circulation
- special design



计量泵组,用于聚氨酯工业;含油封腔,减速电机,钟罩和联轴器

Metering pump with block chamber for the polyurethane industry as a complete unit with gear box motor, bell housing and coupling





► 技术支持

► SUPPORT

胜任

应用建议

产品设计基于输送介质

兼容性

机械学

泵组方案

COMPETENT

APPLICATION ADVICE

Application design according to the pumped fluid

Compatibility

Mechanics

Pump as part of a system solution



应用服务

Application service

个性化

方案

内部研发

内部设计

内部加工

CUSTOMER SPECIFIC

SOLUTIONS

In-house development

In-house design

In-house production



CNC 制造

CNC-Production

为客户量身订做

文档

用于安装

用于操作和维护

CUSTOMER ORIENTATED

DOCUMENTATION

For installation, operation and maintenance

安装+服务

全球范围

INSTALLATION +

SERVICE

On request world-wide

维修服务

德国厂内维修

MAINTENANCE SERVICE

Repair service if requested on location



德国制造

100% 质量控制

QUALITY "MADE IN GERMANY"

100% quality control

100% 质量控制

100% Quality control

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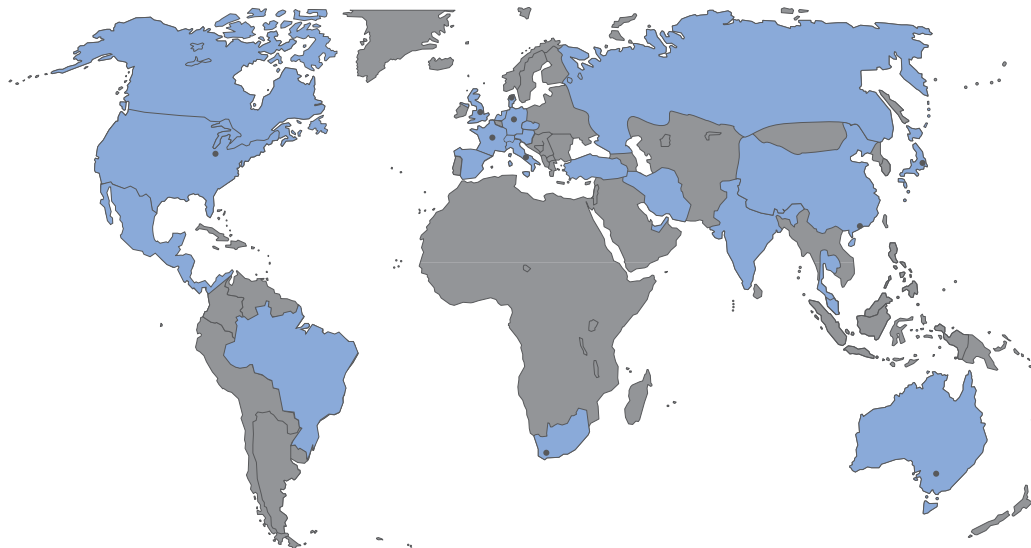
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► 备注

► NOTES





全球网络

长期合作伙伴和集团子公司

- 个人
- 胜任
- 高效

WORLDWIDE SERVICE

qualified advice through
longstanding cooperation partners
and own distribution companies

- personal
- competent
- efficient

GFS German Fluid
Systems
德国流体系统有限公司

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荷兰

The Netherlands

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阿联酋

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