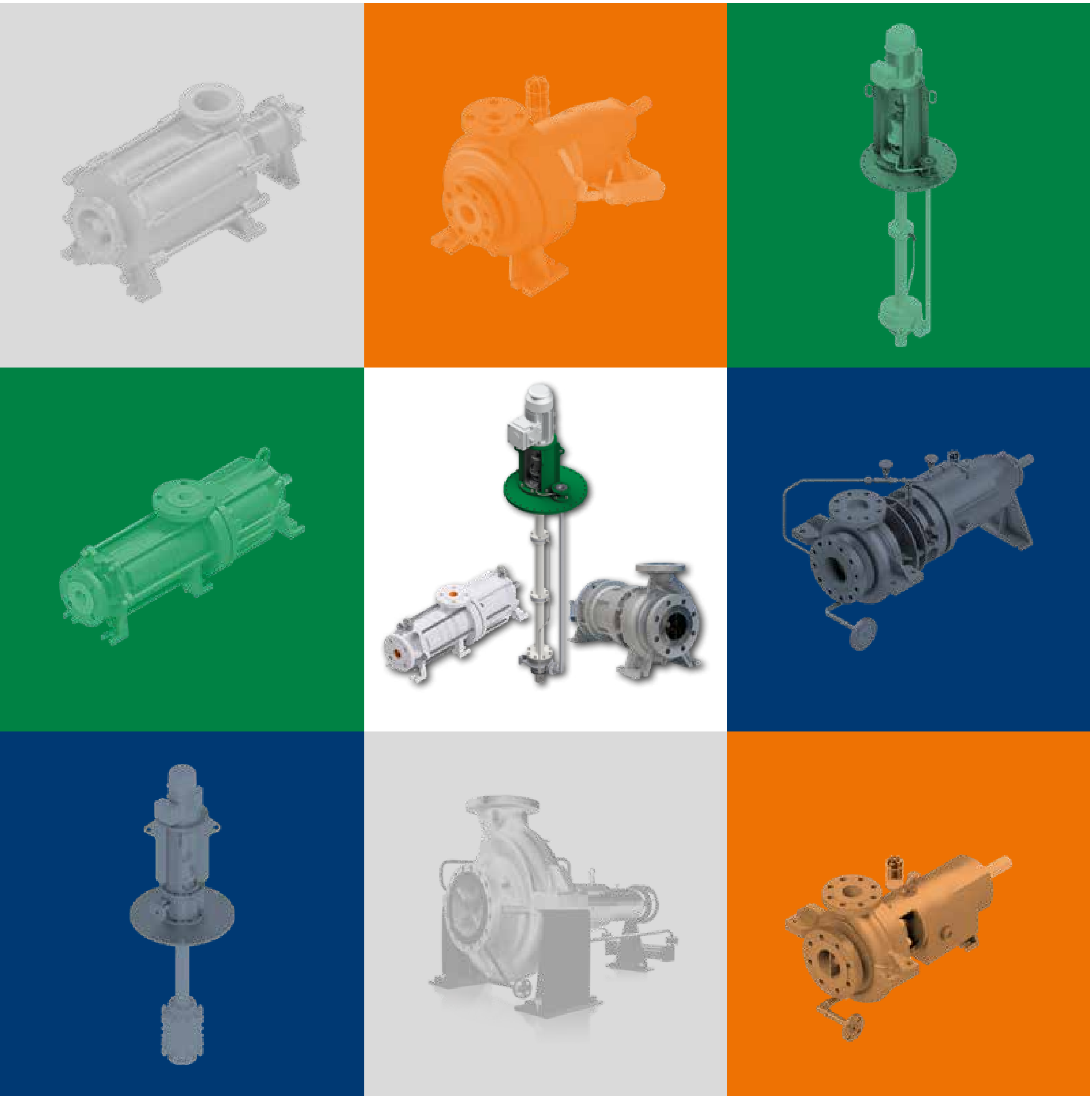


COMPANY PROFILE

THE PUMP MANUFACTURER FOR INDUSTRIAL PUMPS

1910

Foundation of DICKOW in Gablonz (Entry in the Commercial Register)

1920

Following the First World War, the company relocated from the CSSR to Görlitz.

1930

The founder Karl Dickow dies. His three sons Carl, Walter and Wilhelm, take over the management of the company, which now has 50 employees.

Carl Dickow

1945

The company is being expropriated and most of the machinery is being removed, except for a small portion that is saved by relocating it once again.

1946

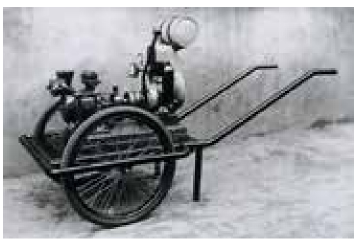
Carl Dickow begins rebuilding the company with a few employess from Görlitz and machines that were rescued and brought to the West. He dies in November of that year.

1948

After the currency reform, Wilhelm Dickow acquires the company premises on Siemensstrasse and extends the pump production.

from 1910

Heating systems and water pipes



from 1925

Automatically, patented cattle drinking pools and self-priming, patented Centrifugal Pumps

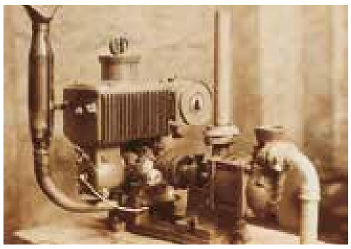
from 1930

Extensive expansion of the production range:

- Volute Casing Pumps
- Multistage Horizontal Centrifugal Pumps
- Metal Bellows Mechanical Seals

from 1946

After relocation, the production range has to be completely rebuilt.



1959
Following her husband's death, Anneliese Dickow becomes the company's managing director. Supported by the authorised manager and the operating manager, the company succeeds the upswing.

1968
Ulrich Dickow takes over executive management. Andreas Dickow is responsible for manufacturing . Ing. Harry Schommer is in charge of Engineering, Development, and Sales Management.

1994
Quality management system certified acc. to ISO 9001 for the first time.

2003
After the death of Ulrich Dickow and Andreas Dickow, Michaela Dickow is the new CEO.

2014
A new hall with an integrated automated storage system is being built to extend pump production and assembly.

2017
Change of legal form to GmbH & Co. KG and transfer of management to Dipl.-Kfm. Jörg Bornemann.

2021
The ownership of the company is transfered to the Astrid Dickow-Foundation.

Dr.-Ing. Wolfgang Schmitz and Alexander Hammer

2025
Dr.-Ing. Wolfgang Schmitz and Alexander Hammer become managing directors.

from 1968
First Chemical Standard Pumps

from 1981
Process Pumps acc. to API 610

1983
Delivery of the first Chemical Standard- and Side Channel Pumps with magnetic coupling.

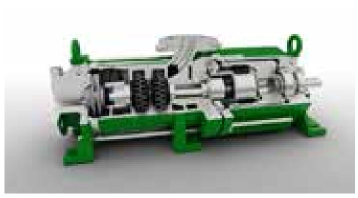
from 1985
Launch of magnetic coupling for all kinds of pumps

1996
Patent for "mag-safe"

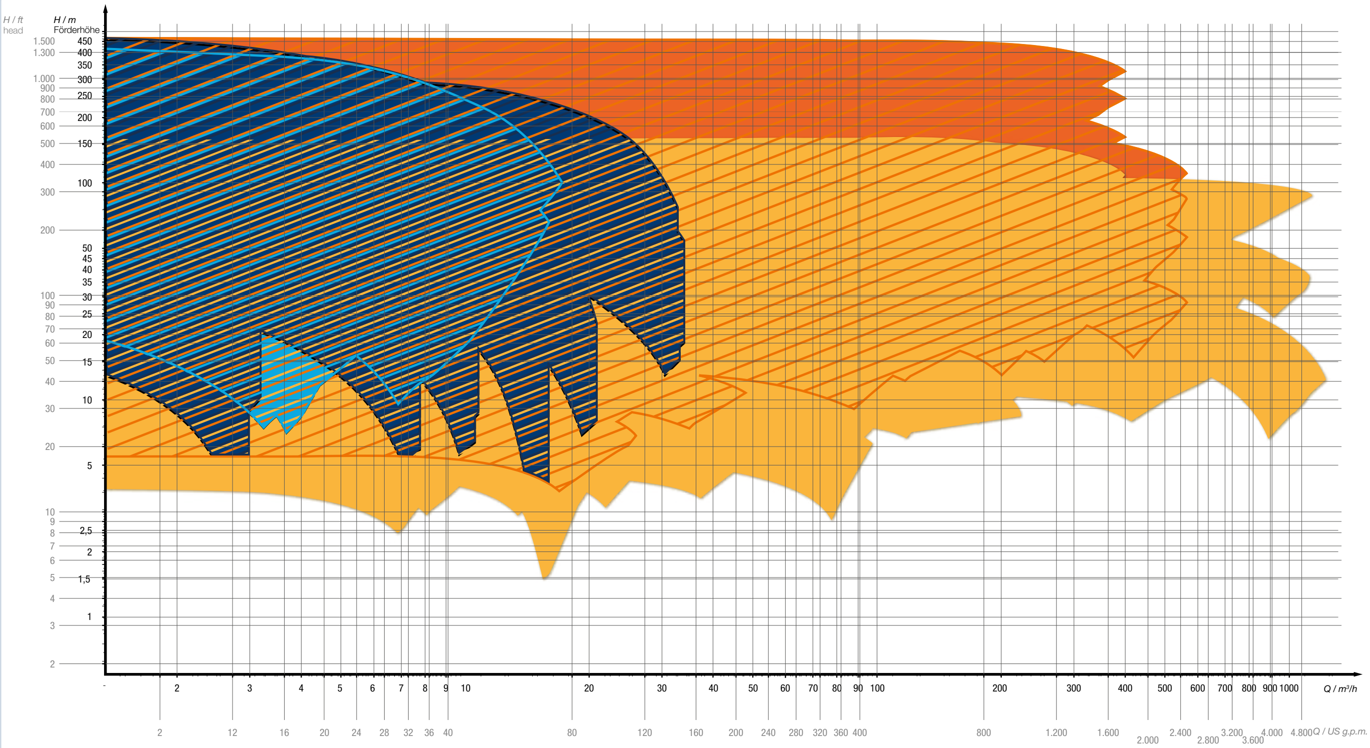
from 2000
Process Pumps acc. to API 685

from 2004
Process Pumps acc. to API 610 with mechanical seals acc. to API 682

2015
Launch "shell-safe" and "double-safe"



2024
Launch of first Peripheral Pumps



Multistage Centrifugal Pumps
Side Channel Pumps
Peripheral Pumps
Volute Casing Pumps

The displayed performance ranges represents our standard portfolio. Higher flow rates and pressures are possible upon request.

Almost the whole portfolio is available with magnetic coupling or as a mechanical seal version, as well as different designs, flange positions and types of installation. The performance range of the Multistage Centrifugal-, Side Channel-, Peripheral and Volute Casing Pumps are overlapping. In addition to capacity and differential pressure, there are also other factors that are important in selecting the right technology and therefore the most suitable pump for your application. Higher capacities and differential pressure are available on request.

Our experts will be pleased to assist.

Our pumps are used in many industries and applications.

Oil & Gas

Chemistry

Offshore

Marine

Aviation

Industrial Heating Systems / Heat Transfer

Tank Farms

Renewable Energy/ Environmental Technology

Petrochemistry

VOLUTE CASING PUMPS

Characteristics:

- High efficiency, pulsation-free conveyance, wide range of materials
- Simple design, high flexibility, wide range of applications
- Vertical or horizontal installation or as submersible pump
- Various (hermetic) sealing systems
- Complete drainage of pump possible

Liquids:

Low-viscosity fluids, fuels of all kinds, acids, alkalis, washing solutions, hydrocarbons, solvents, heat- and cooling-transfer media, hot and cooling water, condensate, liquefied gases

MULTISTAGE CENTRIFUGAL PUMPS

Characteristics:

- High total head
- Single or multi-stage pumps with shaft sealing or magnetic coupling in horizontal installation or submersible pump
- Flexible flange position, optional self-priming version with integrated side channel stage
- High efficiency, pulsation-free conveyance

Liquids:

Low-viscosity fluids, fuels of all kinds, acids, alkalis, washing solutions, hydrocarbons, solvents, heat- and cooling-transfer media, hot and cooling water, condensate, liquefied gases

SIDE CHANNEL/PERIPHERAL PUMPS

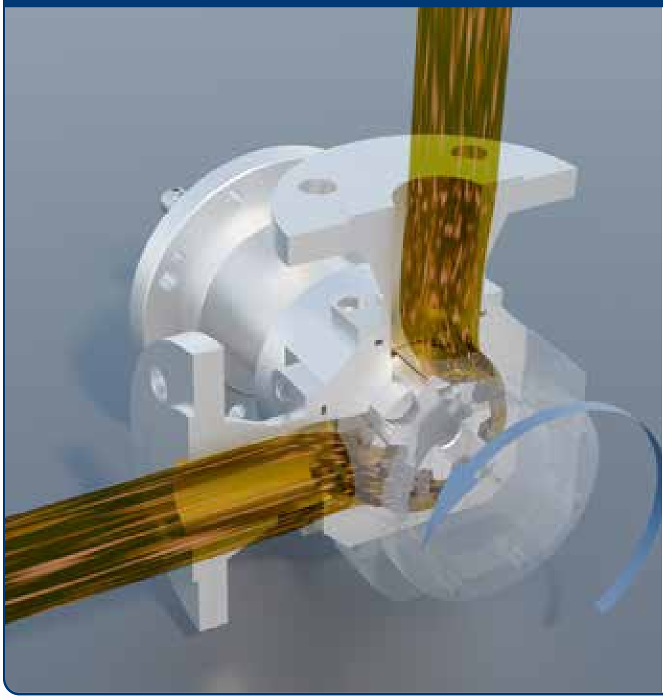
Characteristics:

- Particularly suitable for low flow - high head applications
- Low NPSH requirements, liquids with a high gas content transportable
- Sensitive to abrasive components in liquids

Liquids:

Pure liquids without solid content, low-viscosity liquids, fluids close to vapor pressure curve (fuels, industrial refrigerants, propellants, volatile chemicals, aromatics and solvents, hydrocarbons, water, acids, alkalis, detergent solutions, heat transfer fluids)

GEAR PUMPS



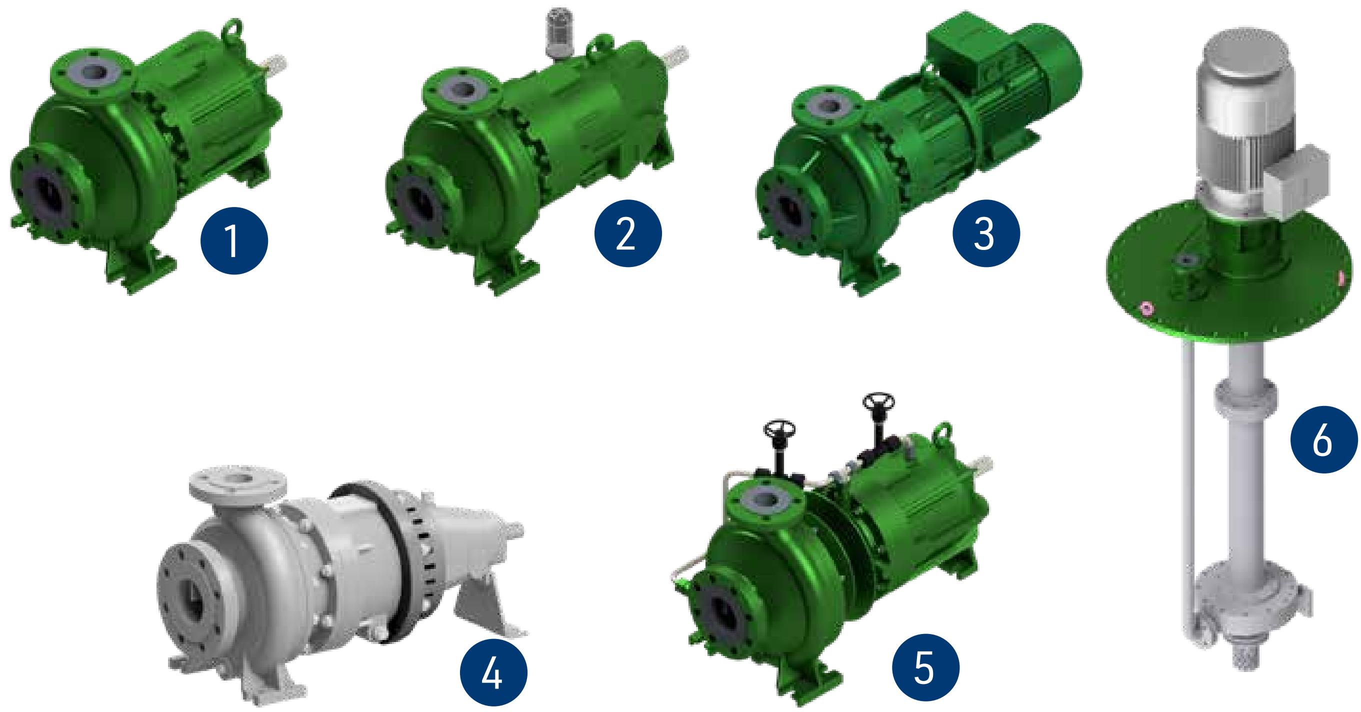
(Only available within our CLASSIC portfolio)

Characteristics:

- For liquids of high viscosity
- Only available with magnet coupling
- Sensitive to solids and abrasive components
- Dosing and pumping toxic, explosive and generally environmentally hazardous liquids

Liquids:

Polymers, asphalt, adhesives, resins, alcohols, additives, bitumen, tar, wax, acids and bases, esters, glycerin, isocyanates, monomers, oils and phenols



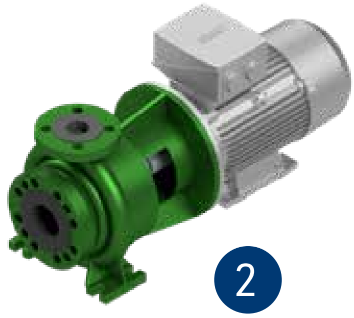
NM-Series

Chemical Standard Pumps acc. to ISO

(Q_{max} 1400 m^3/h / 6160 gpm, H_{max} 250 m/820 ft)

	Type	Description	Temperature	Standard
1	NML	Chemical Standard Pump	200° C / 392° F	ISO 2858
2	NMR	Chemical Standard Pump with reinforced, oil lubricated bearing bracket	300° C / 572° F	
3	NMB	Chemical Standard Pump in block design	200° C / 392° F	
4	NMX	Heat Transfer Pump with oil lubricated bearing bracket, self-venting	450° C / 840° F	
5	NMWR	Heat Transfer Pump with oil lubricated bearing bracket, two chamber system, not self-venting	450° C / 840° F	
6	NMT	Submersible Pump (standard submersible depth ≤ 6 m)	200° C / 392° F	ISO 15783

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.



NC-Series

Chemical Standard Pumps acc. to ISO

(Q_{max} 1400 m³/h / 6160 gpm, H_{max} 250 m / 820 ft)

	Type	Description	Temperature	Standard
1	NCL	Chemical Standard Pump	250° C / 480° F	ISO 2858
2	NCB	Chemical Standard Pump in block design	200° C / 392° F	
3	NHX	Hot Water Pump with patented cooling and degassing system	220° C / 428° F	
4	NCX	Heat transfer pump with patented cooling and degassing system	350° C / 660° F	
5	NCV	Inline Pump, vertically mounted	180° C / 356° F	ISO 5199
6	NCT	Submersible Pump (standard submersible depth ≤ 6 m)	200° C / 392° F	

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.

1

2

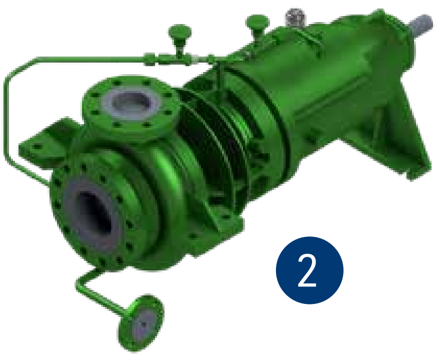
KM-Series

small Chemical Standard Pumps acc. to ISO
(Q_{max} 100 m³/h / 440 gpm, H_{max} 80 m / 262 ft))

	Type	Description	Temperature	Standard
1	KMV	Inline Pump, vertically mounted	180° C / 356° F	ISO 15783
2	KMB	Chemical standard pump in block design		

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.

1



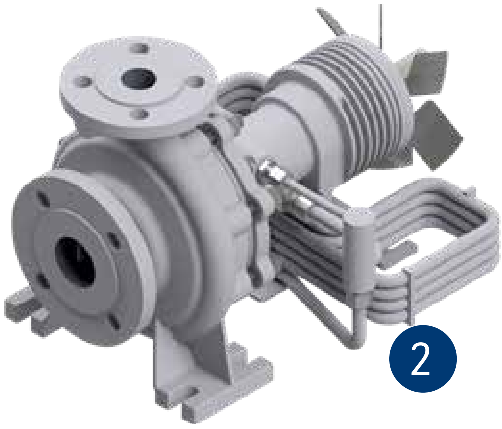
2

PM-Series

Chemical Standard Pumps acc. to API 685
(Q_{max} 1400 m³/h / 6160 gpm, H_{max} 250 m / 820 ft)

	Type	Description	Temperature	Standard
1	PRM	Process Pump	300° C / 572° F	API 685 OH2
2	PRMW	Heat Transfer Pump with oil lubricated bearing bracket, two-chamber system, not self-venting	450° C / 840° F	

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.



NK-Series

Chemical Standard Pumps acc. to DIN EN 733
(Q_{max} 500 m³/h / 2200 gpm, H_{max} 140 m / 460 ft)

	Type	Description	Temperature	Standard
1	NKL	Standard Pump in light design	140° C / 284 °F	EN 733 / ISO 5199
2	NKX	Heat Transfer Pump with patented cooling and degassing system	350°C / 670 °F	

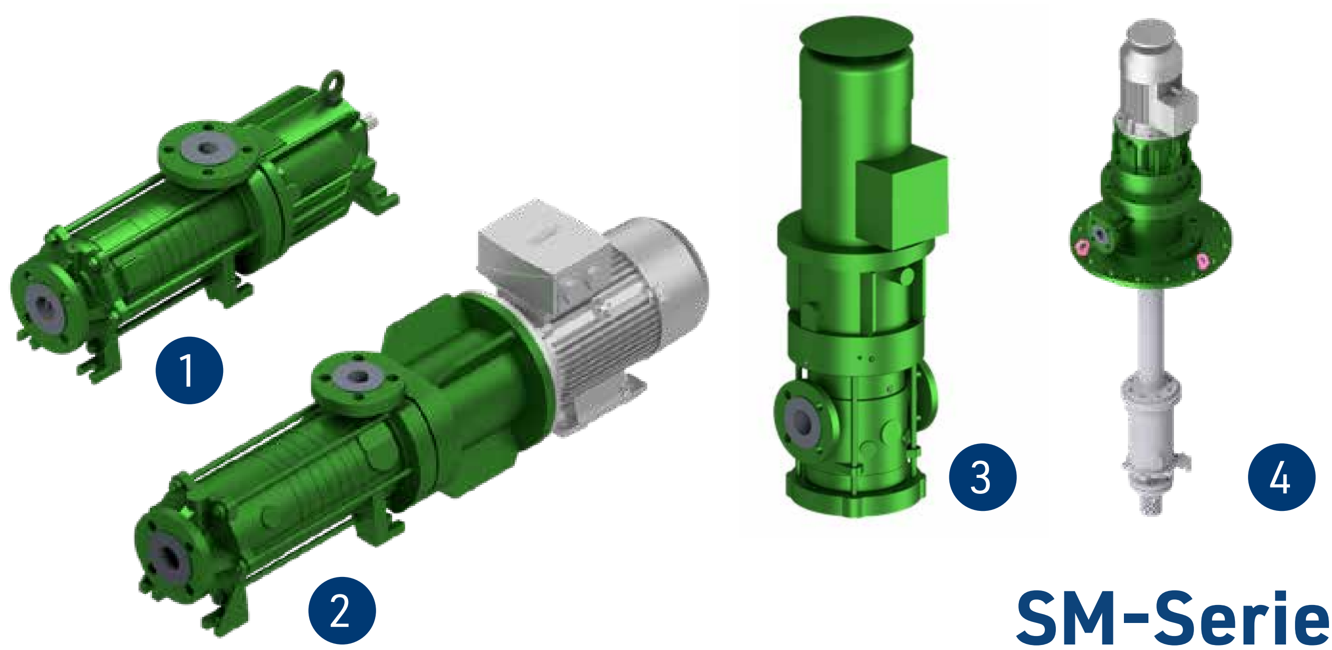
These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.

NCR-Series

Volute Casing Pumps acc. to API 610
(Q_{max} 1400 m³/h / 6160 gpm, H_{max} 250 m / 820 ft)

	Type	Description	Temperature	Standard
1	NCR	Process Pump	250° C / 500 °F	API 610
2	NCTR	Submersible Pump (standard submersible depth ≤ 6 m), design acc. to API VS4	200° C / 390 °F	

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.

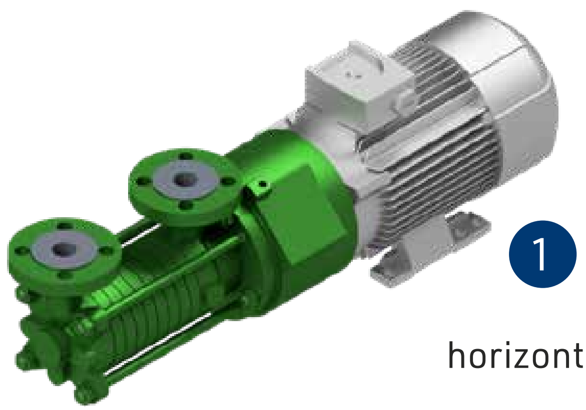


SM-Series

Side Channel Pumps acc. to DIN EN
(Q$_{max}$ 32 m^3/h / 140 gpm, H$_{max}$ 600 m/1969 ft)

	Type	Description	Temperature	Standard
1	SCM	Single- or multi-stage self-priming, horizontal Side Channel Pump	180° C / 356° F	
2	SCMB	Single- or multi-stage self-priming horizontal Side Channel Pump in block design		DIN EN 734
3	SMV	Single-stage self-priming vertical Side Channel Pump	120° C / 248° F	ISO 15783
4	SCMT	Submersible, single- or multi-stage, self-priming Side Channel Pump	180° C / 356° F	

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.



Type WPM

horizontal, single- or multi-stage **Side Channel Pump**
(Q$_{max}$ 2,4 m^3/h / 10,5 gpm H$_{max}$ 260 m/853 ft)

	Type	Description	Temperature	Standard
1	WPM	Compact Side Channel Pump for low capacity at high heads	150° C / 302° F	ISO 15783

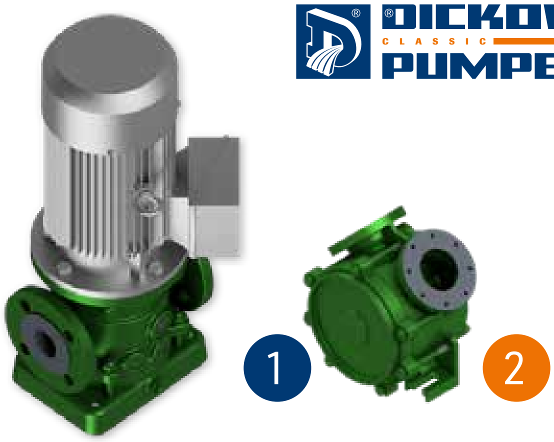
These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.

Type SC

Side Channel Pump acc. to DIN EN
(Q_{max} 32 m³/h / 140 gpm, H_{max} 600 m / 1969 ft)

	Type	Description	Temperature	Standard
1	SC	Single- or multi-stage self-priming, horizontal Side Channel Pump	180° C / 356° F	DIN EN 734

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.



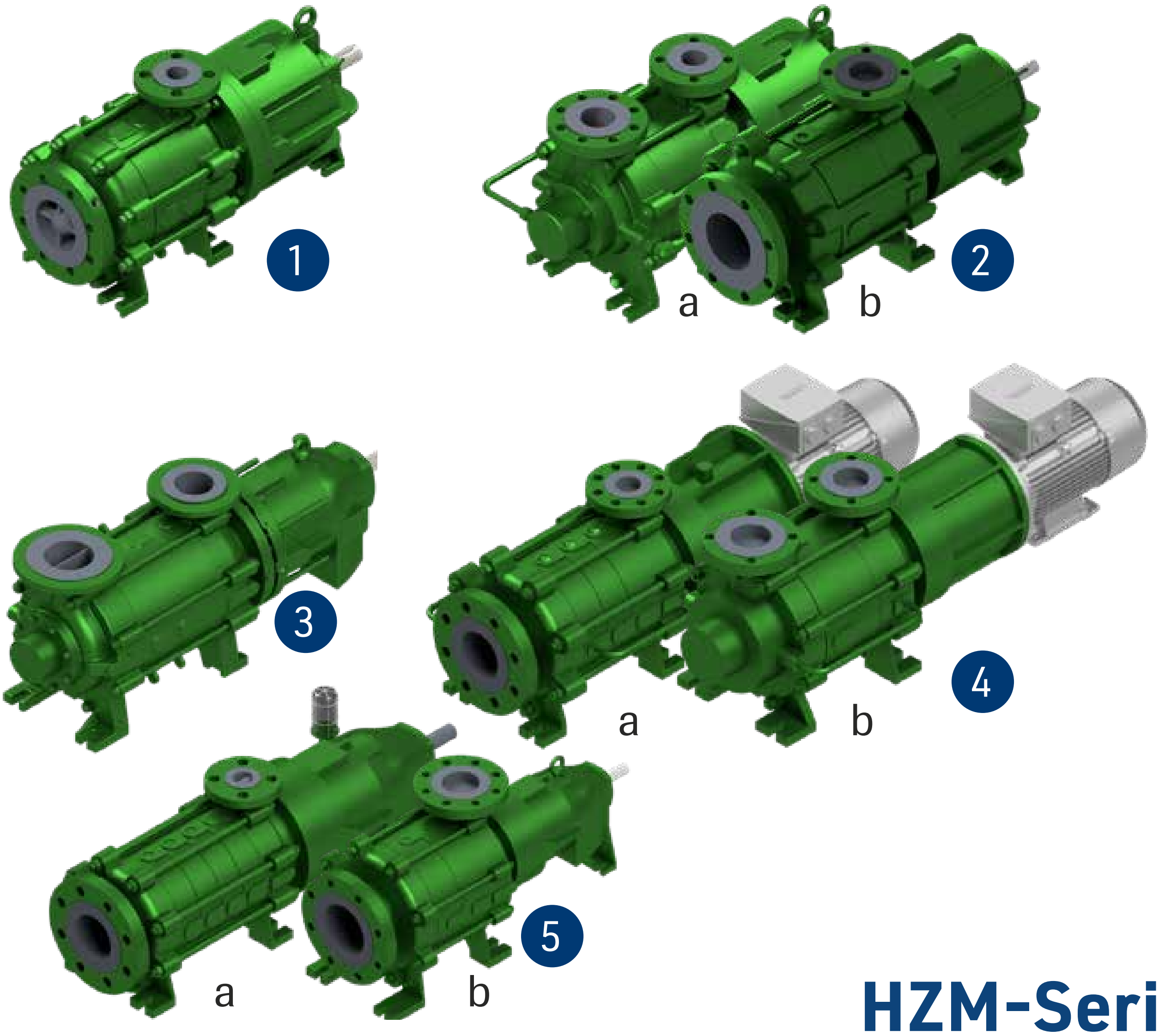
WP-Series

Side Channel Pumps with mechanical seal
(Q_{max} 55 m³/h / 242 gpm, H_{max} 110 m / 361 ft)

	Type	Description	Temperature	Standard
1	WPV	Single-stage self-priming, vertical Inline Pump	100° C / 212° F	ISO 5199
2	WPC 831T	Tank vehicle pump, single stage, self-priming and very compact design		

(1) This pump is part of our standard portfolio. Higher flow rates and pressures are possible on request.

(2) Pumps with orange marking are only avaible in the DICKOW CLASSIC portfolio.



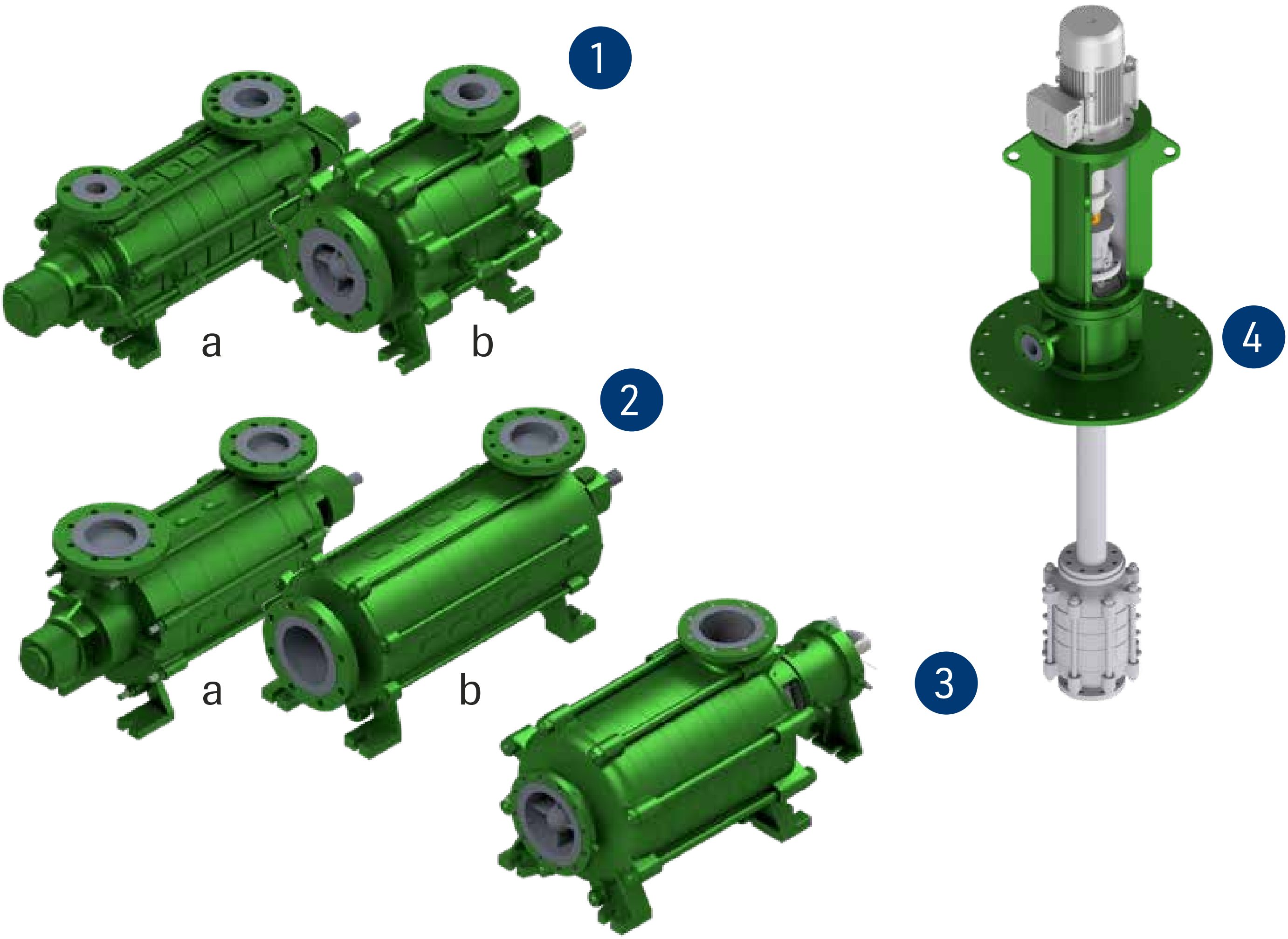
HZM-Series

Multistage Pumps acc. to ISO or API

(Q_{max} 600 m³/h / 2640 gpm, H_{max} 500 m / 1640 ft)

	Type	Description	Temperature	Norm
1	HZMA	Single- or multi-stage horizontal Centrifugal Pump	200° C / 392° F	ISO 15783
2	HZSM/ HZSMA	Single- or multi-stage horizontal Centrifugal Pump with venting stage (a) or with axial inlet (b)	100° C / 212° F	
3	HZSMR	Single- or multi-stage horizontal Centrifugal Pump with venting stage, oil lubricated bearing bracket		
4	HZMAB/ HZSMB	Single- or multi-stage horizontal Centrifugal Pump in block design (a) or with venting stage (b)	a: 200° C / 392° F b: 100° C / 212° F	
5	HZMAR/ HZSMAR	Single- or multi-stage horizontal Centrifugal Pump acc. to API 685 (a) or with venting stage (b)	a: 200° C / 392° F b: 100° C / 212° F	API 685 BB4

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.



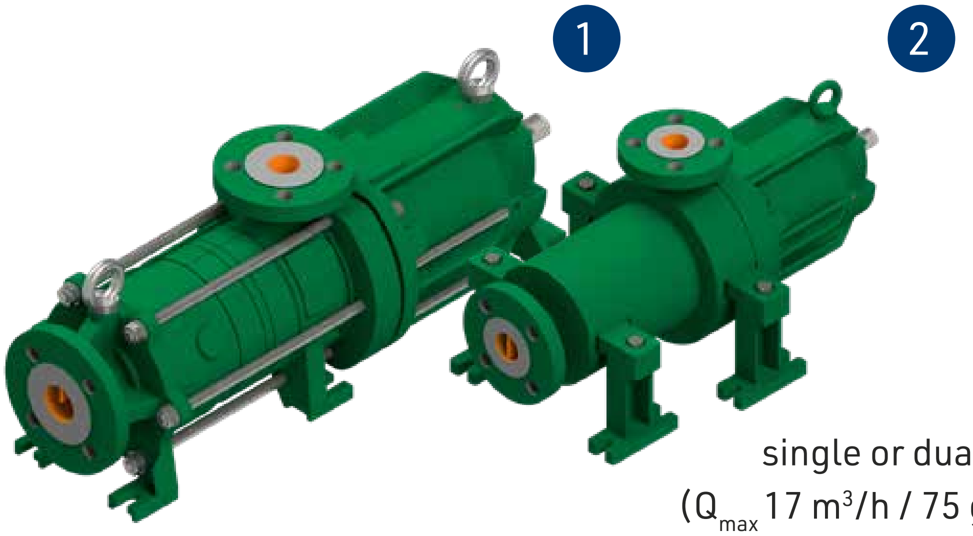
HZ-Series

Multistage Pumps acc. to ISO or API

(Q_{max} 600 m³/h / 2640 gpm, H_{max} 500 m / 1640 ft)

	Type	Description	Temperatur	Norm
1	HZ/ HZA	Single- or multi-stage horizontal Centrifugal Pump, flexible flange position (a) or with axial inlet (b)	200° C / 392° F	ISO 5199
2	HZS/ HZSA	Single- or multi-stage horizontal Centrifugal Pump with venting stage (a) or with axial inlet (b)	100° C / 212° F	
3	HZAR	Single- or multi-stage, horizontal Centrifugal Pump acc. to API 610, design BB4	200° C / 392° F	API 610 BB4
4	HZV	Single- or multi-stage Submersible Centrifugal Pump, optional: NATO design, Cat. 1 version, barrel-casing design, API 610 VS1 or VS6		API 610 VS1/VS6 ISO 5199

These pumps are part of our standard portfolio. Higher flow rates and pressures are possible on request.



TPM-Series

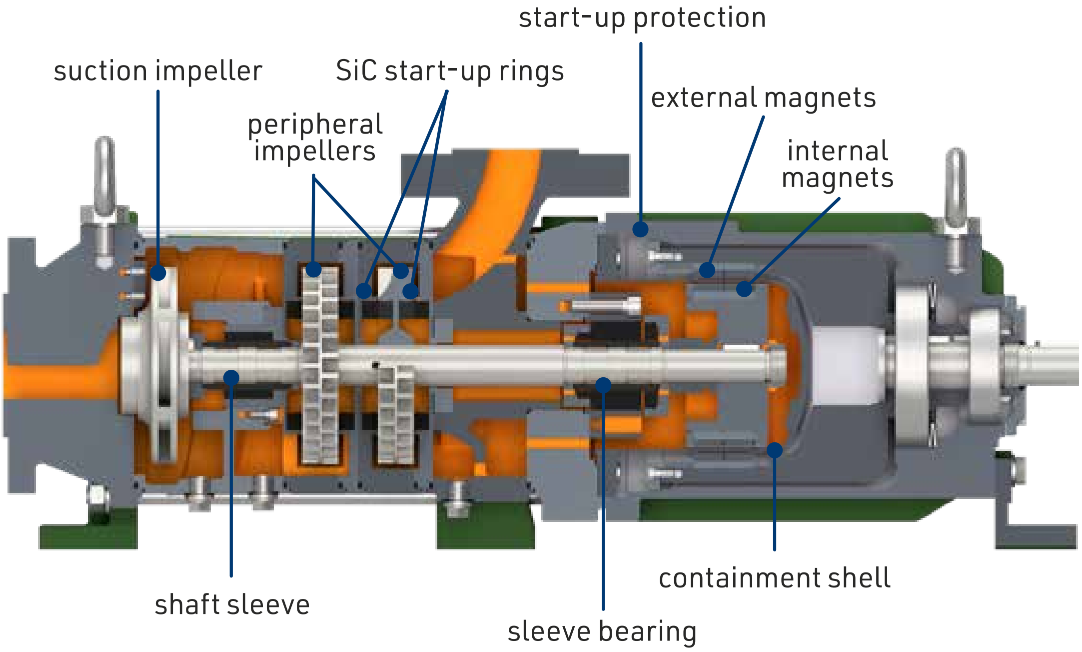
single or dual stage **Peripheral Pumps**

(Q_{max} 17 m³/h / 75 gpm, H_{max} 400 m / 1312 ft)

	Type	Description	Temperature	Standard
1	TPM	Peripheral Pump with suction impeller	180° C / 356° F	
	TPMR	Peripheral Pump with suction impeller in high temperature design	300° C / 572° F	ISO 15783
2	TPMBD	Peripheral Pump with suction impeller in barrel design, design features acc. to API 685 BB5		

These pumps are part of our standard portfolio. Higher flow rates and discharge heads are possible on request.

Video (YouTube)



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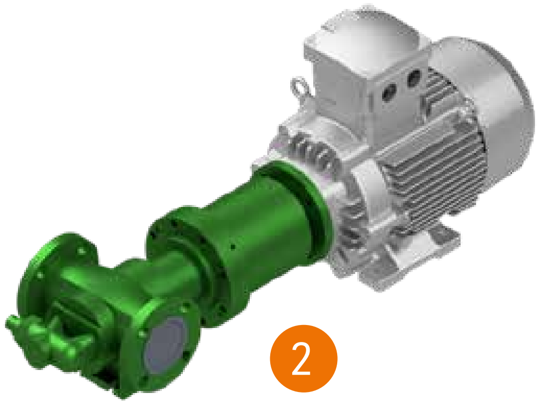


2

GM-Series

Gear Pumps with magnetic coupling

	Type	Description	Q max	Pressure	Temperature	Viscosity
1	GML	Internal Gear Pump	40 m³/h / 176 gpm	12 bar / 174 psi	250° C / 480° F	15000 mPas
2	GMB	Internal Gear Pump in block design				

Pumps with an orange marking are part of our DICKOW CLASSIC portfolio.

SAFESYSTEME

1

2

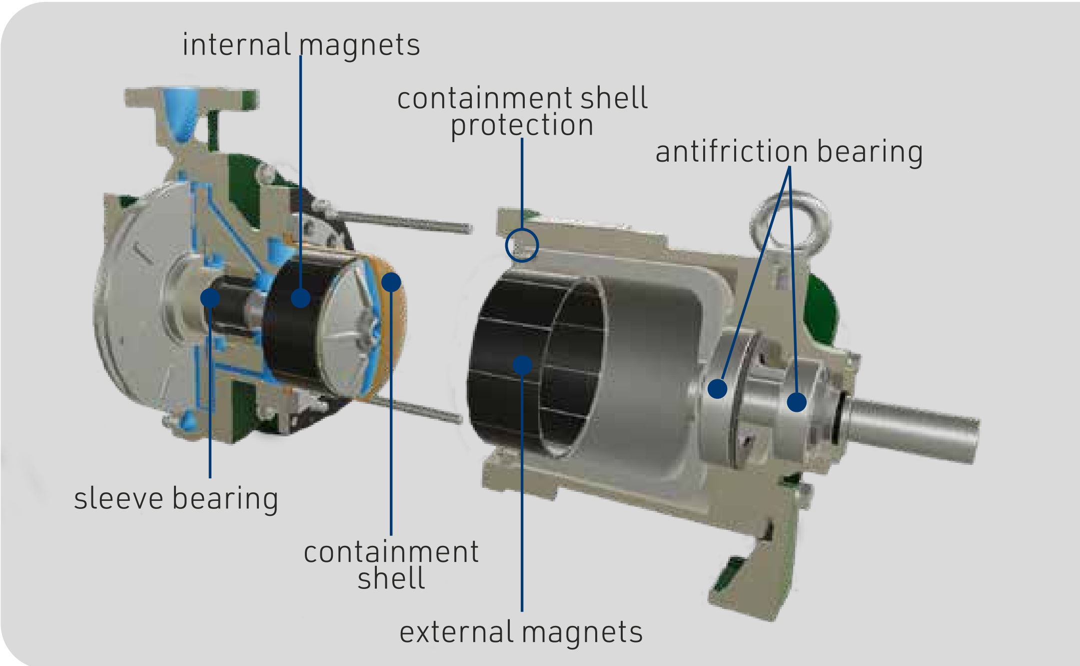
3

safe-systeme

Safety devices for pumps with magnetic coupling

	Type	Monitoring	Protects against the effects of:
1	mag-safe	Temperature changes at the containment shell	▪ Dry run (due to exceeding boiling point) ▪ Overheating of magnetic coupling ▪ Containment shell breakage
2	shell-safe	Detects the breakage of non-metallic containment shells	▪ Uncontrolled product leakage and consequential damage
3	double-safe	Detects the breakage (of the inner or outer shell) of a double-walled containment shell	▪ Product leakage
	contact-safe	Damage to the roller bearing	▪ Containment shell breakage ▪ Product leakage

Magnetic couplings are used wherever leakages are not permitted, i.e. when pumping toxic, explosive and generally environmentally harmful fluids for which shaft sealing with mechanical seals is not sufficient. ***Outer magnets***, arranged on the drive shaft, magnetically drive the ***inner magnets*** by acting through the stationary installed containment shell. External and internal magnets are connected by their magnetic field lines, run synchronously with each other and transfer the torque to the impeller. Depending on the application, the ***containment shell*** is made of different materials such as stainless steel, hastelloy, zirconium oxide, titanium or PEEK.



Containment shell protection

The gaps between the external driving magnets, the bearing bracket and the containment shell are dimensioned to prevent the driving magnets from start-up, if the antifriction bearing is deflected. Due to the fact that there are two shafts, a bearing for the pump shaft is necessary. This is carried out in, wear-resistant ***sleeve bearings*** which are in contact with the medium.

The thrust load of the closed impellers is hydraulically balanced by wear rings, relief wells, back vanes and/or auxiliary impellers. Impeller and pump shaft are floating mounted.

Pumps with magnetic couplings operate ***maintenance-free*** and have a much longer service life than conventional pumps with mechanical seals. There is no need for double-acting mechanical seal systems with complex seal support systems or reservoir tanks.

from professionals - for professionals

Best-Practice-Seminar for pumps with magnetic coupling

- Magnetic coupled pumps in theory and practice
- Installation instructions
- Commissioning
- Failure analysis and assessment
- Performance test
- Questions and answers

Best-Practice-Seminar for pumps with mechanical seal

- Mechanical seals in theory and practice
- API-Plans and their benefits
- Types of mechanical seals and field of application
- Ffailure analysis and assessment
- Performance test
- Questions and answers

Deepen your knowledge now live, individually or on-site

Whether an open seminar at the Dickow Academy in Waldkraiburg, a customised training for your team, or an on-site training at your premises—we create a practical and results-oriented training experience for you.

Scan the QR code to discover the current appointments or contact us directly:

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01/2026