

## Side channel pumps

*SK and ASK series  
with mechanical seal or magnetic coupling  
PN 40*

# Research and development with recent test stands



Computer-controlled and fully automated test stands on the premises of Speck in Roth.

Measuring of hydraulics, power requirements, axial thrust, vibrations and NPSH values. Heads of up to 400 m and flow rates of up to 750 m<sup>3</sup>/h are possible.



Thermal oil test stand with pump surveillance system on the premises of Speck in Roth.

Research of impacts of high temperatures up to 350 °C on the lifetime of the pumps.

## Your contacts

### **Speck Pumpen Walter Speck GmbH & Co. KG Speck Pumpen Systemtechnik GmbH**

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### **International representatives** → page 15

# Side channel pumps made by Speck

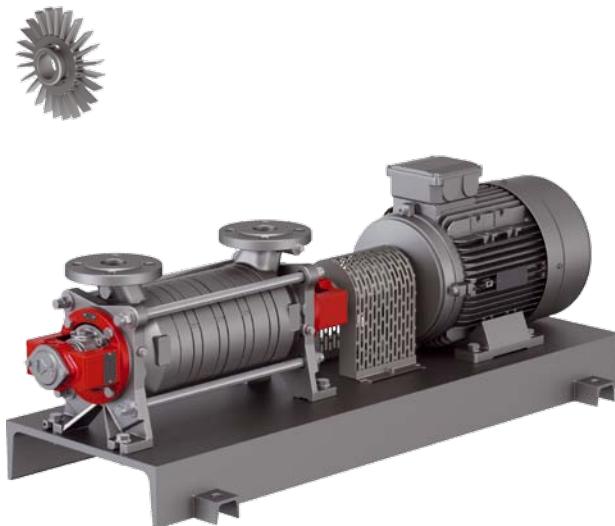
## Design

- » Horizontal multistage modular pumps
- » Designed for feeding, filling and emptying operations under difficult physical conditions
- » Suitable for the delivery of gas / self-priming
- » Suitable for liquids without abrasive contaminants and without solid particles
- » Available in a wide range of materials with components from stainless steel, bronze and spheroidal graphite cast iron
- » ATEX certified

With mechanical seal	from	0 to + 180 °C
With magnetic coupling	from	-100 to + 350 °C
Nominal pressure	PN 40	
H <sub>max</sub>	400 m	
Q <sub>max</sub>	42 m <sup>3</sup> /h	

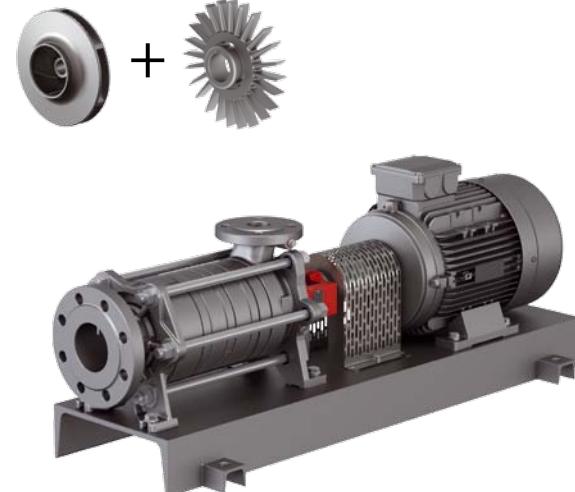
Temperature ranges depend on materials, seals and pumped media

## SK series Side channel pumps in acc. with EN 734



Proven side channel pumps for universal applications

## ASK series Side channel pumps with NPSH stage



Combi-pumps for delivering liquids in physically difficult conditions on the suction side

Their very good NPSH values make them particularly suitable for pumped media near the boiling-point

### Main applications

- » Filling and emptying tanks and tankers
- » Delivery of hot water or feedwater in boiler systems
- » Delivery of salt water and fresh water in marine applications
- » Recovering condensates (water) in the food and chemical industries
- » Delivery of liquefied gas and hydrocarbons
- » Delivery of coolants
- » Extracting palm oil
- » Filling and emptying thermal oil systems

# Find the right pump for your system

## *Choose the best solution from six ranges*

Each system is unique in its own way - on some, the sealing principle is key, on others the installation frame or perhaps the special properties of the medium. You can choose from six ranges and find the best solution for your system.

### *Pumps with mechanical seal*

Pumped media temperatures from 0 to + 180 °C depending on the materials used

Wide range of seals

Available in clockwise and anticlockwise rotation



#### **SKG-LL**

- » 1 – 8 stages
- » 2 external rolling bearings



#### **SKG-LO**

- » 1 – 8 stages
- » 1 internal casing sleeve bearing
- » 1 external rolling bearing



#### **SKG-LA**

- » 1 – 3 stages
- » 1 internal casing sleeve bearing
- » 1 external rolling bearing



#### **ASKG**

- » With NPSH-stage
- » 1 – 8 stages
- » 1 internal casing sleeve bearing
- » 1 external rolling bearing

### *Pumps with magnetic coupling*

Pumped media temperatures from - 100 to + 350 °C depending on the materials used

Wide range of magnetic coupling sizes

Hastelloy® or ceramic separating cans



#### **SKM**

- » 1 – 8 stage
- » 2 internal casing sleeve bearings

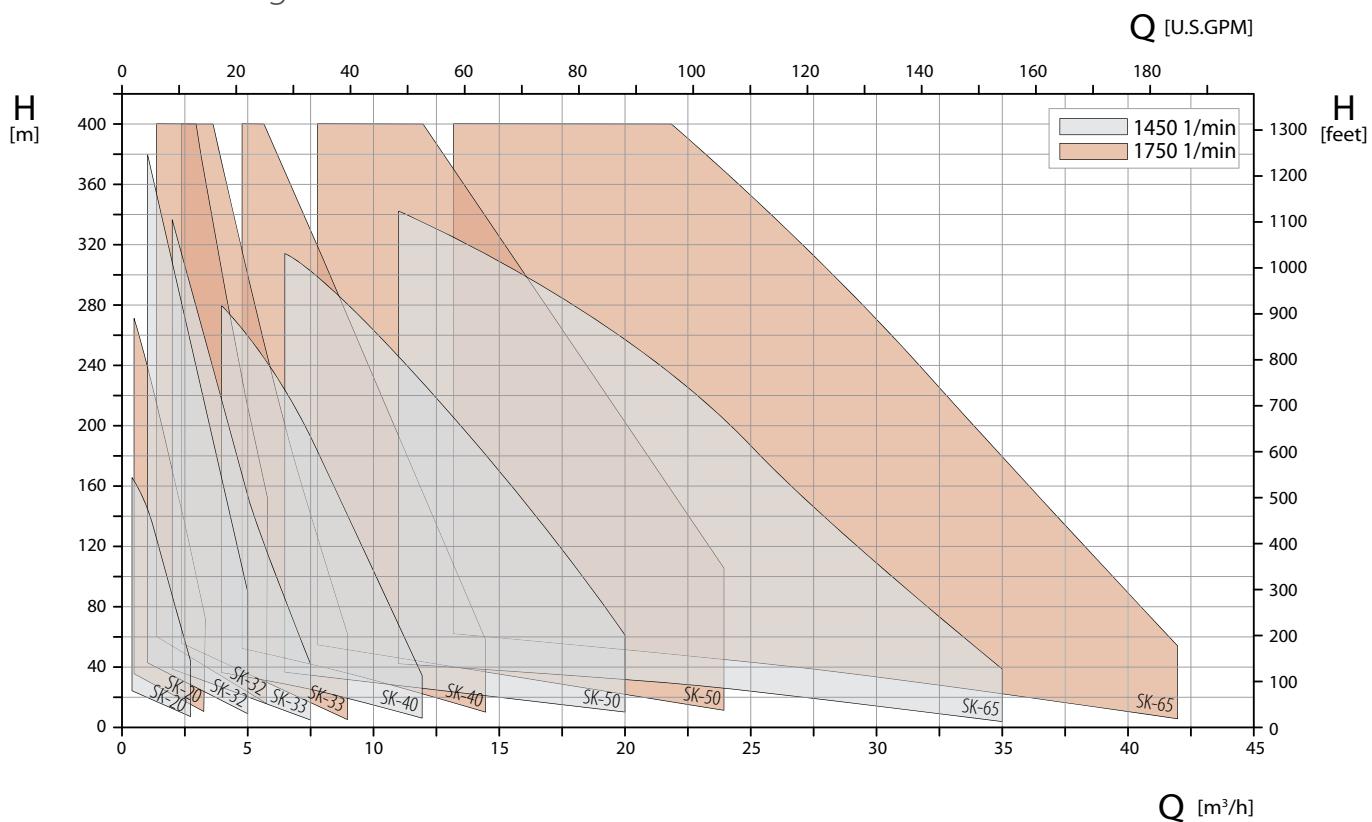


#### **ASKM**

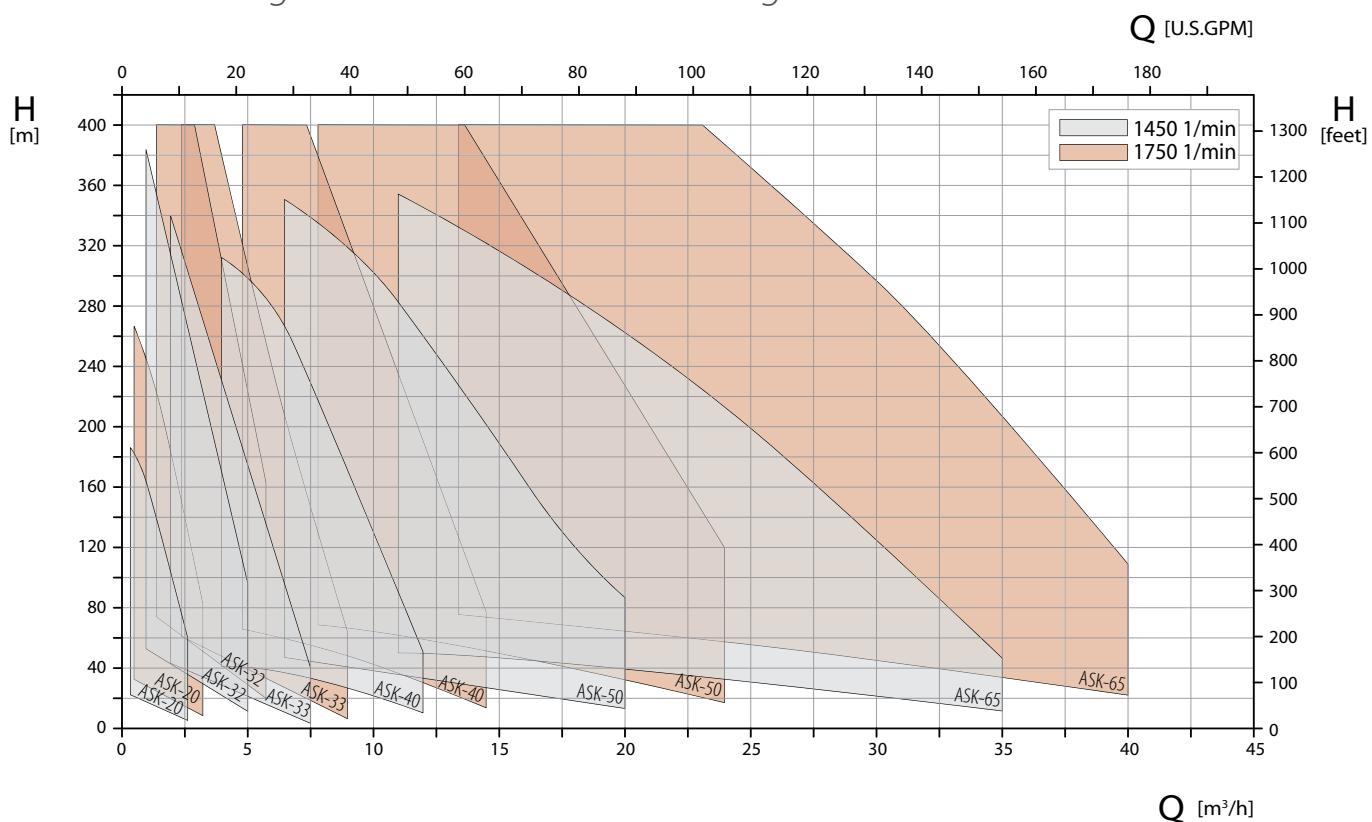
- » With NPSH-stage
- » 1 – 8 stages
- » 2 internal casing sleeve bearings

# Performance range

*Characteristic diagram SK series*

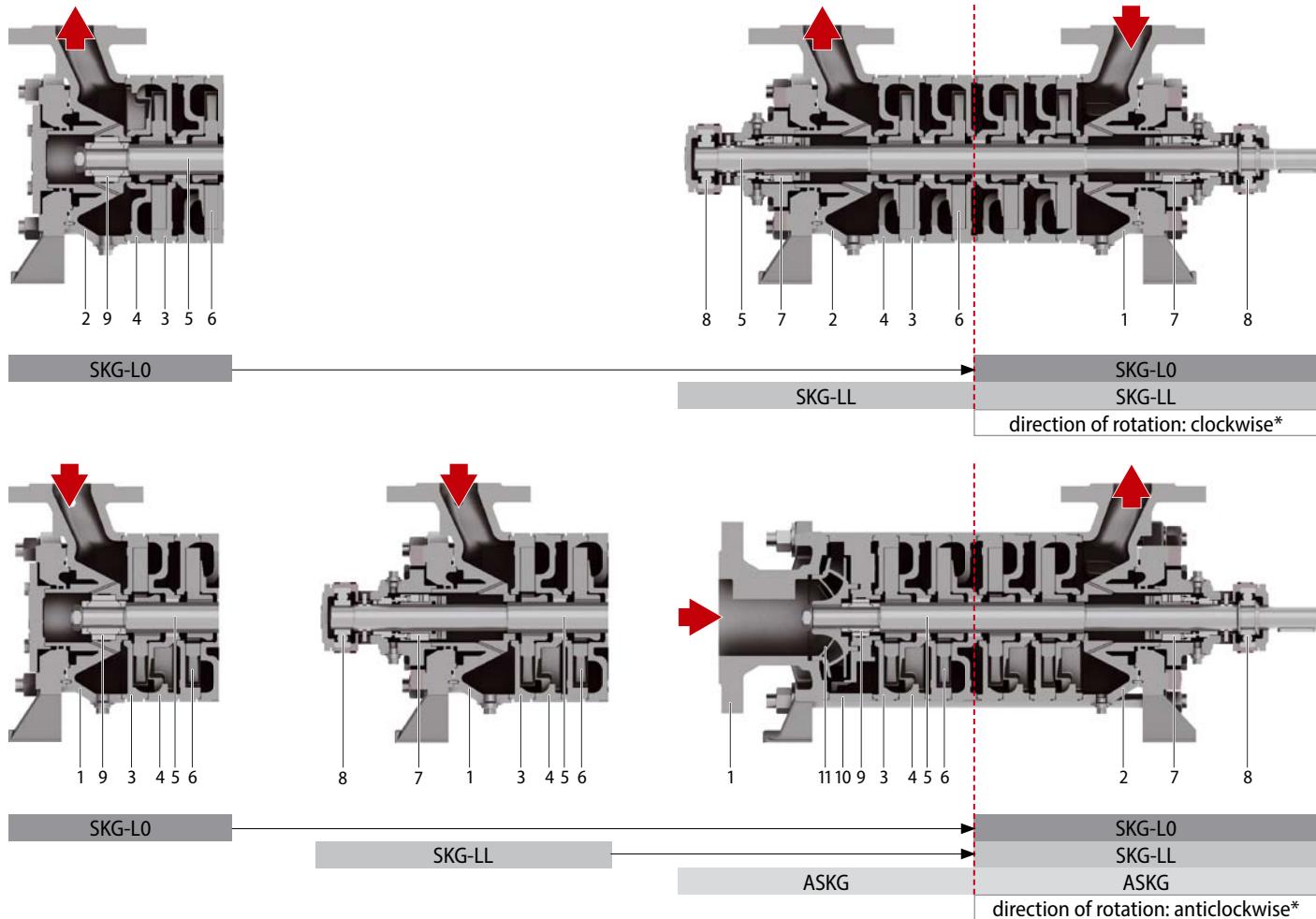


*Characteristic diagram ASK series with NPSH-stage*

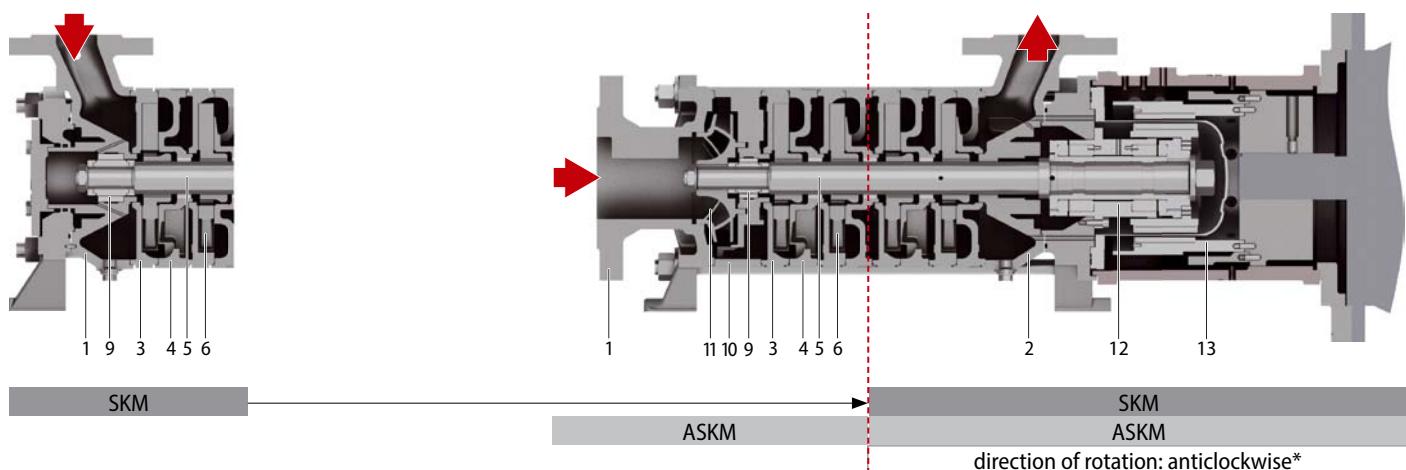


# Smart modular system

## Pumps with mechanical seal



## Pumps with magnetic coupling



No.	Designation
1	Suction casing
2	Discharge casing
3	Suction stage
4	Discharge stage
5	Shaft
6	Star impeller
7	Mechanical seal

No.	Designation
8	Rolling bearing
9	Sleeve bearing made of SiC (or carbon bearing, not illustrated)
10	N-stage
11	Radial impeller
12	Bearing cartridge made of SiC
13	Magnetic coupling

With Speck you get a smart modular system with many identical parts. In addition, the SK series allows two directions of rotation, providing full flexibility when replacing or converting a system.

\*View on pump shaft end

# High operational safety, optimal design and service-friendly

## *Robust and durable*

### **Rolling bearing**

Robust lifetime lubricated rolling bearings suitable for a long service life

### **Wear resistant sleeve bearings**

Solid, hydrodynamically lubricated sleeve bearings made from carbon, a proven slide material – extremely hard wearing and highly resistant to corrosive media.

Alternatively, SiC sleeve bearings are also available.

## *A perfect seal*

### **Mechanical seals**

We offer a wide range of mechanical seals for a variety of applications.

- » Nominal pressure up to PN 40
- » Balanced and unbalanced mechanical seals
- » Double-acting mechanical seals
- » Non-cooled mechanical seals
- » Cooled mechanical seals available for media temperature exceeding 140 °C
- » Diverse combinations of materials available depending on the pumped medium:  
Sealing rings in A-carbon, B-carbon or SiC  
O-rings in FKM, EPDM or FFKM

### **Magnetic couplings**

You will find a great variety of magnetic couplings at Speck. The magnetic couplings are optimally designed for your operating point. See page 8 for further details.

### **Stuffing box packing**

- » Available on request

## *Wide temperature range*

Depending on the material, the seals and the pumped medium, these side channel pumps can be used across a wide range of temperature.

Material	with mechanical seal	with magnetic coupling
Spheroidal graphite cast iron	0 – 180 °C	- 20 – 350 °C
Bronze	0 – 180 °C	0 – 180 °C
Stainless steel	0 – 180 °C	- 100 – 250 °C

## *Flexible and simple to service*

### **Minimum stock of spares required**

Thanks to the consistently developed modular system, many components are completely identical and interchangeable across six ranges. This means you require a minimum stock of spare parts.

It guarantees complete flexibility as replacing pumps and components or changing the pump execution is easy.

## *Efficient motors*

4-pole motors meeting current energy efficiency standards

## *Even for critical media*

We offer a range of medium-specific designs suitable for the delivery of acids, lyes, fuel, glycol, glycerine, hot water, oil, etc.

Casing seals with graphite, FKM, FFKM or EPDM O-rings are available. You can choose for stage sealing among graphite, Teflon® or various liquid seals by Epple®.

## *ATEX*

All series are ATEX certified

- » Mechanical seal version: II 2G / 2D c TX
- » Magnetic coupling version: II 2G / 2D cb TX

# Magnetic couplings

## Optimal design

The wide range of magnetic couplings offers an optimum configuration for your operating conditions and cuts energy consumption.

### Wide range

Magnetic couplings consist of an inner rotor, a separating can and an outer rotor. The separating can hermetically seals the pumped media from the atmosphere.

A great variety of sizes and configuration using the latest software guarantee the best design for your operating point.

The transmissible torques of the magnetic couplings range between 10 and 500 Nm.

### Type code for magnetic couplings

Type code (example)	135-	70
Nominal diameter DN		
Magnet length [mm]		

### Magnetic coupling sizes and versions

	Magnet diameter				
	DN 60	DN 75	DN 110	DN 135	DN 165
Magnet length in mm	40	x	x	x	
	50		x	x	
	60	x	x	x	x
	70			x	x
	80		x	x	x
	90			x	x
	100			x	x
	110				x
	120				x
Separating can made of Hastelloy®	PN 40		PN 25 / PN 40		
Separating can made of ceramic ZrO <sub>2</sub> Mg	not available		PN 40 on request		

### Cooling through flushing bores

Eddy current, viscosity and bearing friction losses generate heat inside the pump, adding to the temperature of the medium. Flushing bores in the inner rotor and the casing ensure that critical points are cooled with the medium.

At the same time, gases or air are conducted out of the inner rotor.

## Robust Hastelloy® separating cans



### Proven and with low eddy current losses

High-grade Hastelloy® separating cans come as standard with Speck. This robust material has proven its properties in daily use in many industries.

The finely graduated coupling and separating can diameters allow optimum design with minimum eddy current losses.

### Safety with temperature monitoring

If required (e.g. in areas with potentially explosive atmospheres), with Hastelloy® separating cans, temperature sensors can be mounted into the bracket to monitor the surface temperature of the separating can.



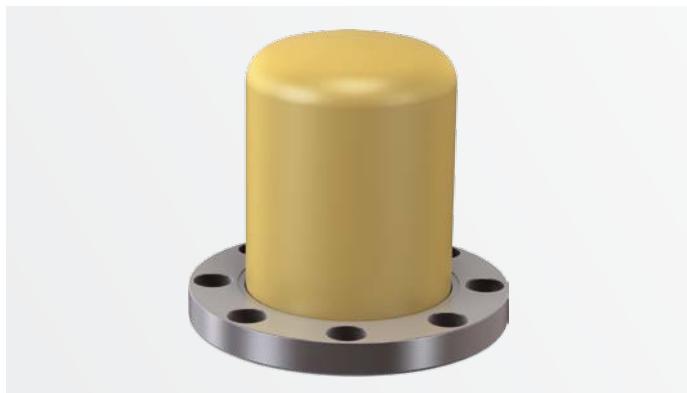
PT-100 temperature sensor (standard design)

The universal linear PT-100 temperature sensor with a detection range from -100 to +400 °C is available in three versions.

- » Standard design
- » ATEX design without SIL/IPL2
- » ATEX design with SIL/IPL2

All three versions can be optimally adjusted for length using a compression fitting. In addition, the sensor tip is held against the separating can using a spring to guarantee secure contact.

## Ceramic ZrO<sub>2</sub>Mg separating cans



### No current eddy losses in the separating can

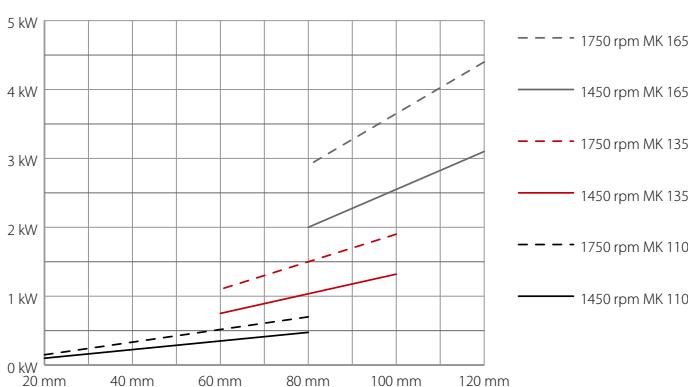
When non-conductive ceramics are used, no eddy currents occur within the coupling. This has two advantages.

### Energy savings

Magnetic fields cause eddy currents within metal separating cans, increasing the overall energy consumption of the pumps. Ceramic separating cans mean there are no eddy currents, leading to significant energy savings.

The graph below shows the additional energy consumption of a metal separating can in kW due to eddy currents. It shows the energy consumption in relation to the length of the magnet (in 10 mm increments) and to the diameters.

In the case of the largest separating can diameter, energy consumption rises to the power of three.



The additional energy consumption found in magnetic couplings with metal separating cans in kW due to electrical eddy currents is completely eliminated by using ceramic separating cans.

### No entry of heat into the medium

In metal separating cans, the electrical eddy currents described above are converted into thermal energy, thereby increasing the heat of the medium. With ATEX applications and media near vapour pressure, this can become a considerable problem.

Ceramic separating cans do not create losses of energy through eddy currents and the medium retains its temperature.

## Safety through leak detection

Separating cans often break as a result of vibrations caused, for example, by damaged bearings after they have been running dry, or by vibrations in the system.

In the event of a rupture, there is a danger of the medium getting into the motor through the motor casing, which must be avoided when explosive substances are being pumped.

For your safety we can offer a leak monitoring sensor which detects any medium emerging after a rupture of the separating can and immediately switches off the pump or the system.

In addition, the sealed slots on the bracket temporarily prevent the medium from entering the environment.

On request, we can also fit a pipe to the bracket to safely remove the pumped medium. The connector for the pipe is directly opposite the sensor.



- 1 Leak sensor
- 2 Externally sealed slots  
covered: the connector for the media removal pipe on the back of the bracket opposite the sensor

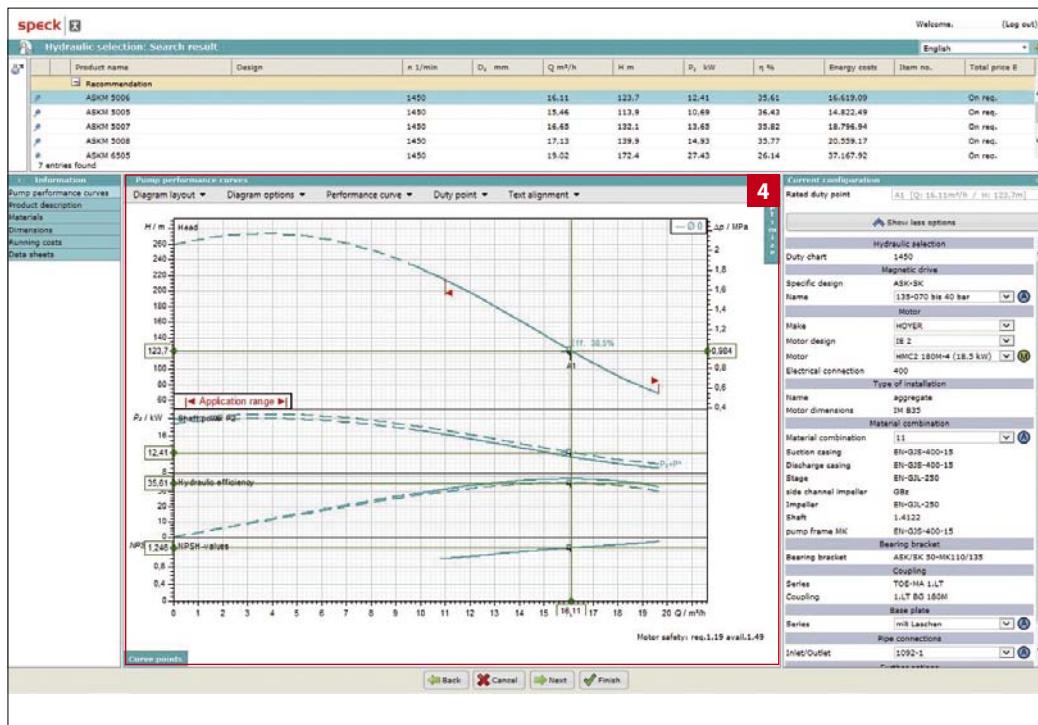
# Simple and optimal configuration software

## SPAIX selection program

The screenshot shows the SPAIX selection program's pre-selection interface. It includes:

- 1** A sidebar with a tree view of "Complete product range" categories: heat transfer engineering, high head pump, MZ, side channel pumps, and TOE-M stainless steel.
- 2** A list of pump designs under the selected category "ASK / ASK-M".
- 3** An operating data specification form with fields for duty point name (A1), flow (16.11 m³/h), head (123.7 m), and inlet pressure (0 MPa).

The software allows you to configure heat transfer pumps, side channel pumps and boiler feed pumps via your Internet browser. As well as design details, the system will also request operating details and details about the medium to be pumped.



Characteristic curve depending on hydraulic selection

### Ideal for system planners

Speck now also offers the latest version 4 of the renowned SPAIX design software.

We make the program available to authorised customers who can pre-select the pumps within their system.

The web-based software always accesses an up-to-date database.

### Easy pre-selection

The configuration system avoids a wide range of selection parameters with regard to design, sealing systems, hydraulics, operating conditions and media.

The software has language options for German and English.

### Checking the pre-selection

When the order is submitted, the customer's choices are double-checked to ensure that your project requirements are met.

### Key

**1** List of all pump designs that can be configured in the software

**2** List of all series within the pump designs

**3** Selection parameters operating parameters and medium data in the first instance

**4** Characteristic curve depending on hydraulic selection generated

## *Documentation based on the selection program*

speck

**Data Sheet**  
side channel pumps  
**ASKM 5006**

Enquiry  
Created on  
Rev.:

Item  
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Customer Speck Pumpen Systemtechnik GmbH

City Deutschland 91154 Roth

Enquiry vom

Project

**Operating Data**

1 Fluid	BP Trascal N	Flow rate	rated	16,11	m <sup>3</sup> /h	Speed	1450	1/min
2 corrosive matters	keine/not	Wght.-%	min / max	10 / 19,5	m <sup>3</sup> /h	Efficiency	35,24	%
3 abrasive matters	keine/not	Wght.-%	Pressure	Inlet 0	bar(u)	Total abs. power	12,74	kW
4 Solids	0	Wght.-%		Disch.	9,996 bar(u)	Dissipation	0,835	kW
5 Oper. Temp. tW / IS	100	/ °C	Head	123,7	m			
6 Density at tW / IS	823,8	/ kg/m <sup>3</sup>	Pressure differential	10,00	bar(u)			
7 Kin. viscosity at tW / IS	5,2	/ mm <sup>2</sup> s				Flow rate at cold start		m <sup>3</sup> /h
8 Vapor press. at tW / IS	/	bar	NPSH	System	12,38 m	Total abs. power at cold start		kW
9 pH value	7			required	1,75 m	Dissipation cold		kW

**Installation / Environment**

10 Building / Outside	Gebäude	Altitude	< 1000	m	Amb. Temp. min	20 / 40	°C
11 under roof yes/no	Ja / Yes	4TEX aggregate category	hot Alex		rel. Humidity	<55	%

**Pumpe**

12 Impeller type	side channel impeller	Pressure rating	PN 40	Pressure rating	PN 40
13 direction of rotation	left	nom. diam. DN	DN 100	Delivery port	nom. diam. DN
14		Standard	EN 1092-1	Standard	EN 1092-1

15 Single head pump X 1 Specifying calming suction side = min. 1000 mm Material combination 11

**Accessories**

16	Motor	Magnetic drive	Base plate
17 Make	HOYER	Type	HMC2 180M-4
18 Specific design	IE 2 / 50 Hz / Pole pairs 2	Number of poles	4
19 Rated power	16,5 1) kW	Degree of p	IP 55
20 Rated current	34 A	Frequency	50 ± 2% Hz
21 1-phase / 3-phase	Voltage	400 V	Diameter
22 Rated speed	1470 1/min	Mounting	IM B55
23 Motor flange ø	350 mm	Sound pressure level	dBA(A)
24			name plate
25			links
			frosting guard
			nein

**Materials**

26 Suction casing	EN-GJS-400-15	Discharge casing	EN-GJS-400-15
27 Stage	EN-GJL-250	side channel impeller	Gbz
28 Impeller	EN-GJL-250	Shaft	14122
29 pump frame MK	EN-GJS-400-15		
31			
32 seal stage	Teflon	O-ring pump frame	FKM
		seal separating can	Graphite

**Tests and Inspections**

33 Material Tests	Test	2) Certificate	Other Tests	2) Tests and Inspections	2) Certificate	Qty
34 Suction casing	keine	kein	Hydrost. Pressure Test	Intern	kein	alle
35 Discharge casing	keine	kein	Gas Pressure Test	3) Intern	kein	alle
36 Stage	keine	kein	Performance curve	4) Keine	Keine	alle
37 side channel impeller	keine	kein	NPSH-Measurement	Keine	kein	alle
38 Impeller	keine	kein	Final check	Intern	kein	alle
39			vibration	Keine	kein	alle
40			temperature	Keine	kein	alle
41			Max. operating pressure	40 bar / 20°C   X   Factor 1,5 test time 30 min		

**Shipping data**

42 Net weight appr.	kg	Gross weight appr.	kg	pump color	motor color
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**Documentation**

43 Dimensional dwg.	Cross sect. dwg.	performance curve No.	Oper. & Instruct. Man.	Other (see attached)	Qty
44 RD. 14. xxx	E 1420. xxx	KL 14.50.047	DE 1096.0851		1

**Remarks**

45		motor article	
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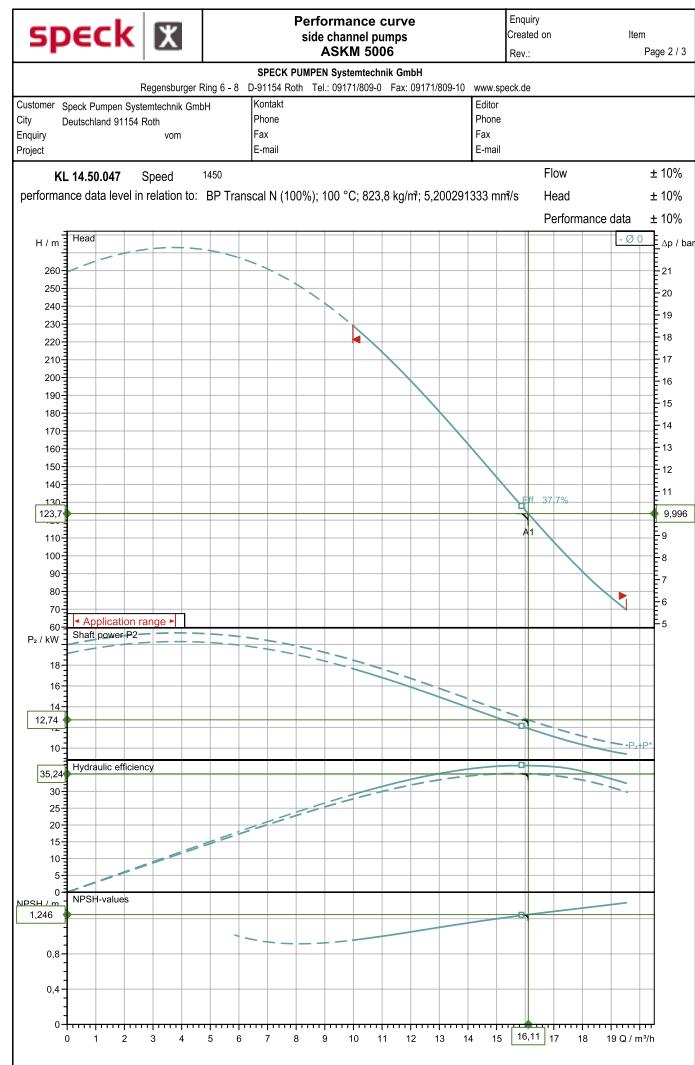
46 1) motor supplement corresponds to ISO 9906

2) according to EN 1020

3) vacuum test casing cover

4) vibration measurement

5) scope of delivery: prime sheet



Technical data sheet (example)

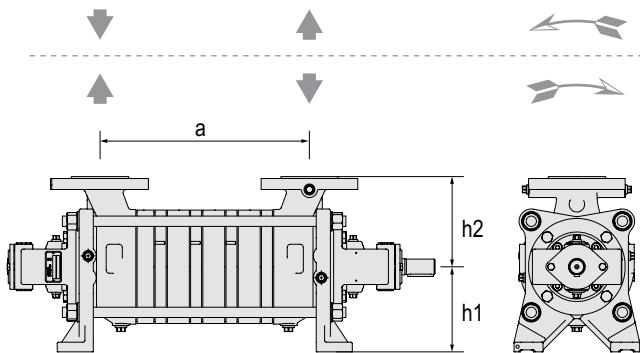
<b>speck</b>	<b>Dimension drawing side channel pumps ASKM 5006</b>	Customer Speck Pumpen Systemtechnik GmbH City Deutschland 91154 Roth	Kontakt Phone Fax E-Mail	Editor Phone Fax E-Mail
Enquiry	SPECK PUMPEN Systemtechnik GmbH Regensburger Ring 6 - 8 D-91154 Roth Tel.: 09171/809-0 Fax: 09171/809-10 www.speck.de			Created on Item Rev.: Page 3 / 3
Aggregat	Motor HOYER - HMC2 180M-4 - IM B35			
		<b>Anschlüsse</b>	<b>Dimensions in mm</b>	
		Suction port EN 1092-1 DN 100 PN 40 ø D1 190 mm ø D2 22 mm D2 x 5	Delivery port EN 1092-1 DN 50 PN 40 ø D1 125 mm ø D2 18 mm D2 x 4	a 68 m1 72 m2 69 m3 35 B1 40 B2 50 B3 29 G1 29 G2 11 G3 3 G5 47 R1 18,5 L1 150 L2 10 L3 130 L5 5 P 35 B 24 BB 31 A' 27 AA 7 K 14,1 o 3 z 150
		<p>* Die angegebenen Maßmaße sind ca. Maße. Genaue Angaben reichen sich nach den ex. Auftragstellungen tatsächlich eingesetzten Färbekat.</p> <p>* The indicated motor dimensions are approx. dimensions. Exact details correspond to the actual model used in every single order.</p> <p>* Nur bei Grundplatten mit Laschen * only for base plates with flaps</p>		

#### Dimensional drawing (example)

# Main dimensions

## SK series

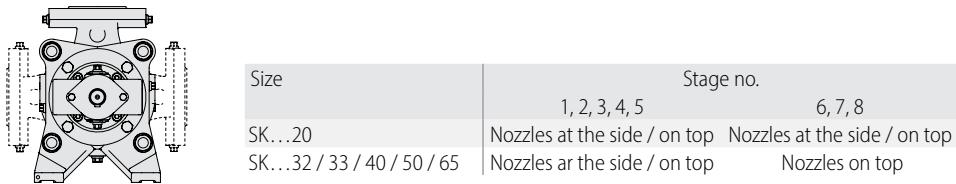
### Connecting dimensions for SKG-LL, SKG-L0, SKG-LA and SKM



Dimensions →		a								h1		h2		Flanges	
Stage no. →		1	2	3	4	5	6	7	8	—	—	Suction / Discharge			
Size →	SK...20	120	120	154	188	222	256	290	324	100	100	DN 20			
	SK...32 / 33	146	146	186	226	266	306	346	386	112	132	DN 32			
	SK...40	160	215	270	325	380	435	490	545	132	140	DN 40			
	SK...50	175	250	325	400	475	550	625	700	160	165	DN 50			
	SK...65	195	285	375	465	555	645	735	825	180	180	DN 65			

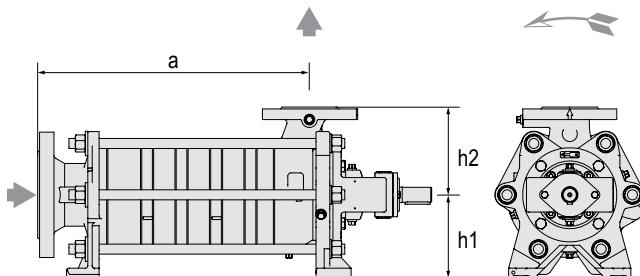
### Position of inlet and outlet nozzle

With almost all sizes, the nozzles can be rotated 90°



## ASK series

### Connecting dimensions for ASKG and ASKM



Dimensions →		a								h1		h2		Flanges	
Stage no. →		1	2	3	4	5	6	7	8	—	—	Suction	Discharge		
Size →	ASK...20	195	229	263	297	331	365	399	433	100	100	DN 40	DN 20		
	ASK...32 / 33	213	253	293	333	373	413	453	493	112	132	DN 65	DN 32		
	ASK...40	268	323	378	433	488	543	598	653	132	140	DN 80	DN 40		
	ASK...50	305	380	455	530	605	680	755	830	160	165	DN 100	DN 50		
	ASK...65	337,5	427,5	517,5	607,5	697,5	787,5	877,5	967,5	180	180	DN 100	DN 65		

## Flanges

Flanges in acc. with EN 1092 PN 40.

Flanges in acc. with DIN EN 1092-2, drilled in acc. with ANSI 150 lbs or 300 lbs on request.

# Order-related tests and dimensioning

## Pressure tests

Speck carries out the tests below as standard:

### Gas pressure test

The gas pressure test is used to prove that the components are leak-proof. All components that bear pressure are tested, such as the discharge casing and the suction casing, stages and mechanical seal casing. The test is carried out with forming gas at 2 bar. The holding time is 15 minutes.

### Hydrostatic pressure test

The hydrostatic pressure test is used to prove strength of the components and that the pump is leak-proof. The fully assembled pump is tested. The test is carried out with a hydrostatic test pressure based on prEN 12162; the hydrostatic test pressure corresponds to 1.5 x the nominal pressure (PN16) at 20 °C. The holding time is 10 minutes.

If you want to use pressure tests according to different criteria, please enter them in the request.

## Testing the performance

At the customer's request, Speck offers the following tests:

### Hydraulic tests

The measurement of the characteristic curves apply to the delivery of water with a temperature of 20 °C at nominal speed. Tolerances: flow rate  $\pm 10\%$ , total head  $\pm 10\%$  power requirement  $+10\%$ .

Deviating properties of the media to be pumped affect the characteristic curves.

### NPSH test

In this test, the suction-side pressure is gradually reduced until the decrease in the delivered head reaches 3 % at a constant flow rate. At least four flows are evaluated that are spread appropriately over the admissible operating range. The NPSH value is not a guarantee point.

### Vibration test

Vibration test according to EN ISO 5199, Edition 2002

The vibration values are measured radially and vertically at every operating point on the bearing casing at the nominal speed and with the corresponding flow rate.

### Temperature measurement

The measurement is taken on the motor-side bearing at operating temperature. The operating temperature and the ambient temperature at every operating point measured are documented.

## Standard conditions at site

- » Ambient temperature from - 20 °C to + 40 °C
- » Permissible altitude up to 1000 m above sea level

Deviations from the site conditions specified herein must already be disclosed in the inquiry.

## Dimensioning

### Assessment of the maximum pump outlet pressure

The pump outlet pressure at the pump nozzle depends on

- » the pump inlet pressure
- » the density of the medium to be pumped

The maximum pump outlet pressure  $p_{2\max op}$  is calculated using the formula:

$$p_{2\max op} = p_{1\max op} + \rho \cdot g \cdot H \cdot 10^{-5}$$

With:

$p_{2\max op}$  = maximum pump outlet pressure [bar]

$p_{1\max op}$  = maximum pump inlet pressure [bar]

$\rho$  = density of the medium to be pumped [ $\text{kg/m}^3$ ]

$g$  = gravitation constant [ $\text{m/s}^2$ ]

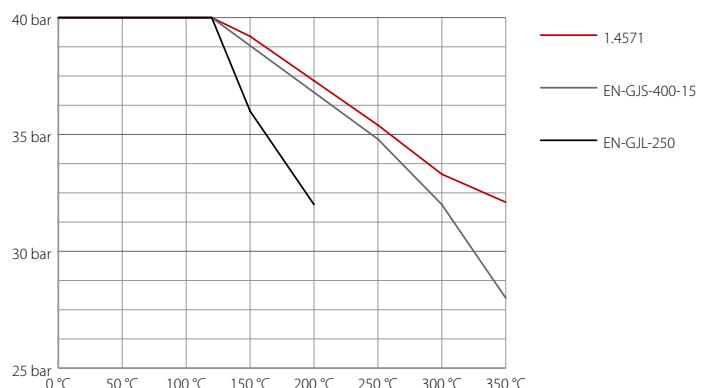
$H$  = maximum total head at zero flow or at the peak of the pump's characteristic curve [m]

Pumps must be selected and operated in a way which ensures that the maximum pump outlet pressure does by no means exceed the maximum permissible operating pressure of the casing  $p_{all w c}$  at operating pressure.

This also applies to commissioning while the discharge valve is closed (refer to diagram).

### Pressure and temperature limitations

The maximum casing operating pressure  $p_{all w c}$  of the pressure retaining parts depends on the operating temperature:



1.4571: stainless steel

EN-GJS-400-15: spheroidal graphite cast iron

EN-GJL-250: cast iron

Your notes

A large grid of empty squares, intended for handwritten notes.

# Representations

## D Germany

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### AUS Australia

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### Pump Systems Australia

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Heat transfer pumps / Pompe pour fluid thermique  
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### CN China

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### F France

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Fax: +33 3 88 68 16 86  
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Speck Pumpen Systemtechnik GmbH  
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Mobile: +39 339 16 59 440  
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Tel.: +972 976 775 00  
Fax: +972 976 774 00  
Arie.Weiss@PWeiss.d2g.com  
www.pweiss.co.il

### Small pumps / heat transfer pumps :

Ringel Brothers (1973) Ltd.  
134 Hertzel St.  
P.O. Box 5148  
Tel-Aviv 66555  
Tel.: +972 368 255 05  
Fax: +972 368 220 41  
Mobile: +972 544 623 095  
mringle@ringel-bros.co.il  
www.ringel-bros.co.il

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Flux Pumps India Pvt. Ltd.  
427/A-2, Gultekdi Industrial Estate  
Near Prabhat Printing Press  
Pune – 411 047, Maharashtra  
Tel.: +91 020 2427 1023  
Fax: +91 020 2427 0689  
Mobile: +91 98504 03114  
kiran.kadam@flux-pumps.in  
www.flux-pumps.in

## J Japan

Rodateq, Inc.  
Suite 301 Oka Bldg.  
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Fax: +81 664 449 050  
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Pg-pumps@pergjerdrum.no  
www.pg-marinegroup.com

## NL Netherlands

**Centrifugal pumps / Centrifugadelpompen**  
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Stationspoort 10  
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Fax: +31 316 528 618  
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### Vacuum pumps / Vacuümpompen

DOVAC B.V.  
Meer en Duin 228  
2163 LH Lisse  
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Fax: +31 252 417 946  
info@dovac.nl  
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## NZ New Zealand

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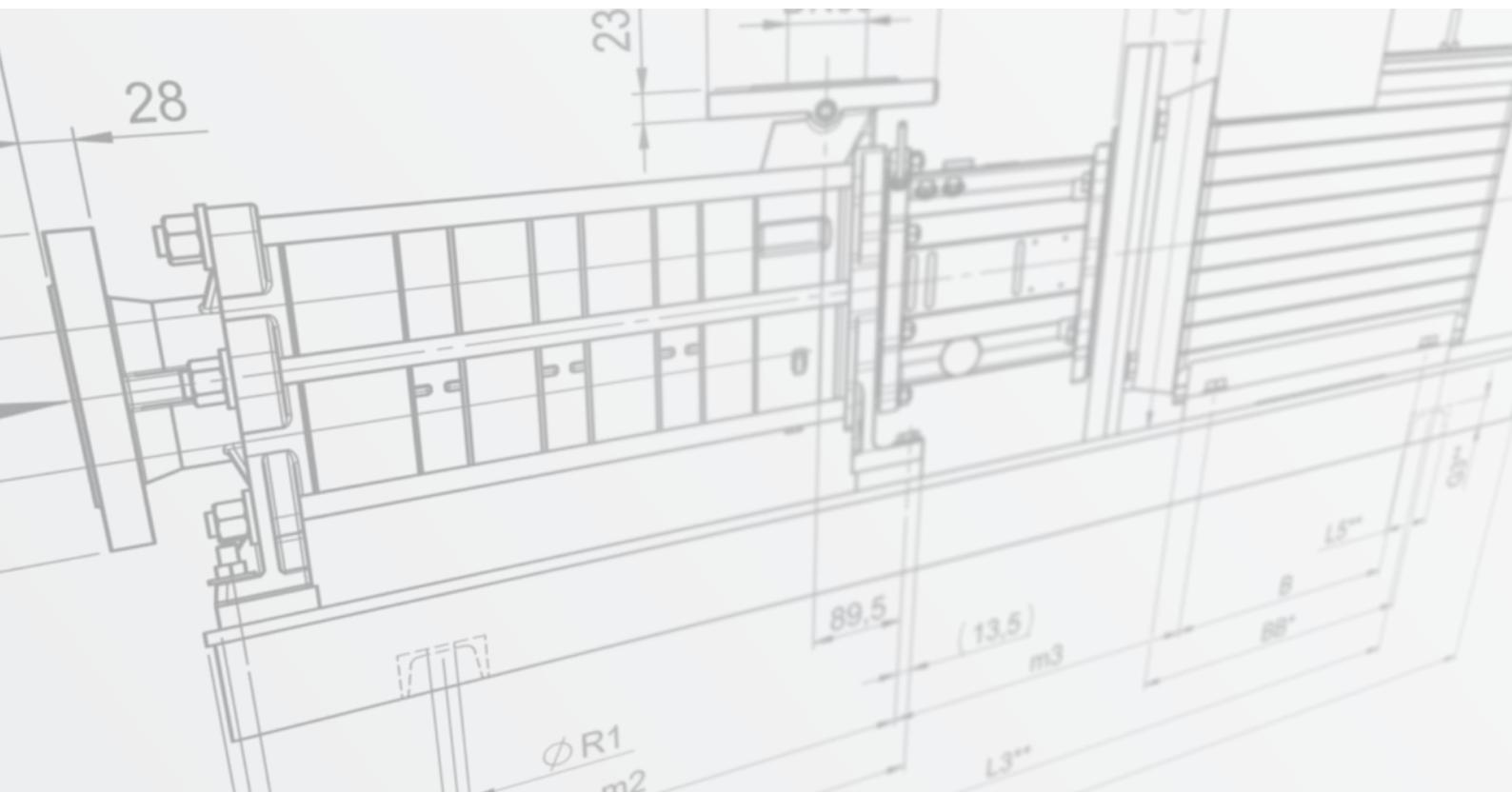
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