

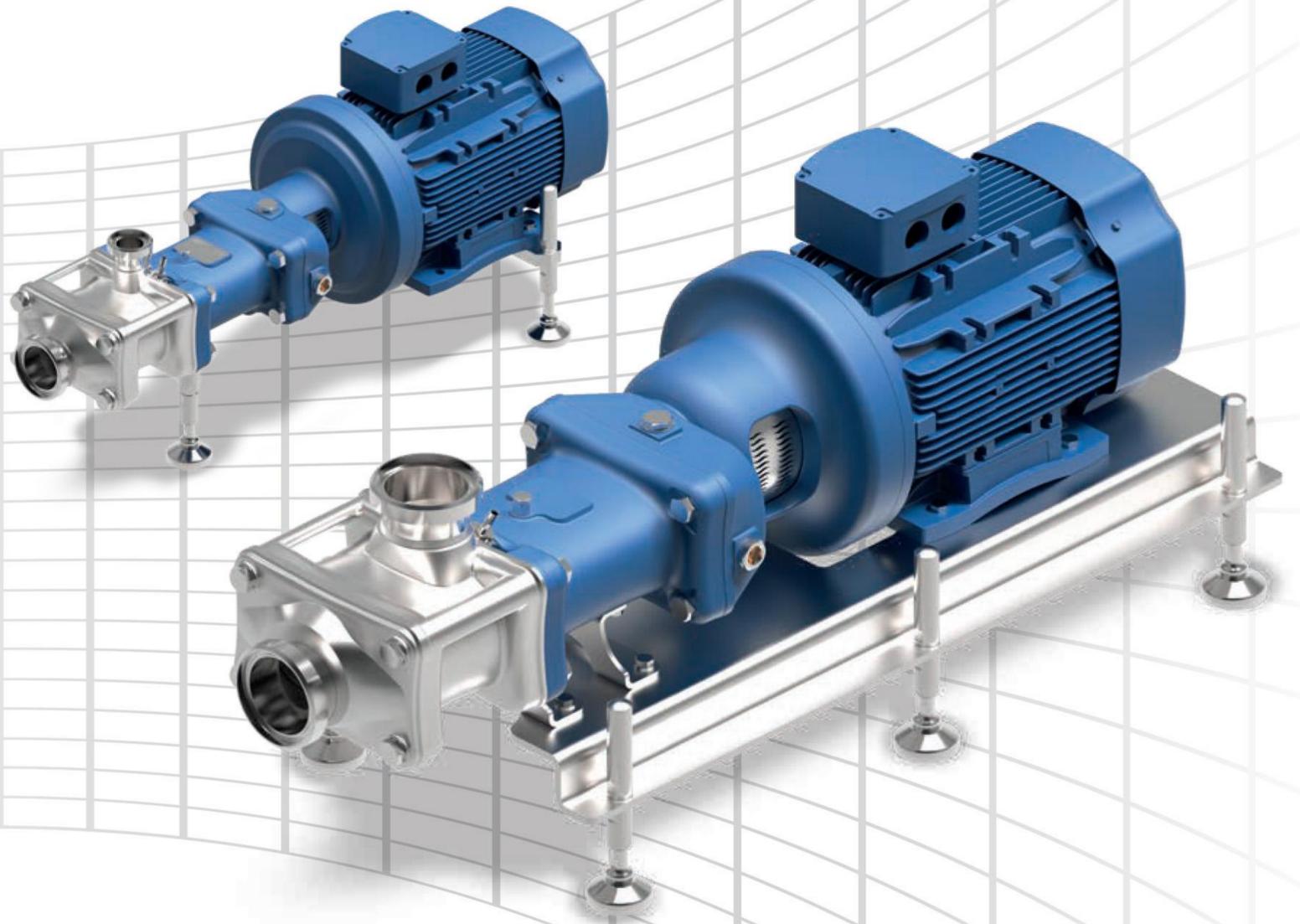


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Twin screw pump

**WANGEN Twin NG**



A **hygienic** class of its own:

**The new  
generation  
WANGEN Twin.**

ONE STEP AHEAD

# Perfect form and technology

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## Maximum service friendliness

- Spindle replacement without the need to re-synchronise the spindle shafts, thanks to fast-X-change<sup>®</sup> technology, developed by WANGEN PUMPEN (see pages 4 - 5).
- Cartridge design for simple and quick seal replacement (see pages 6 - 7).
- Coupling alignment by self-centring flange housing (lantern optionally available). Therefore no need for re-alignment of the coupling, for instance after service work.

## Large pressure range

16 - 25 bar operating pressure (depending on the pump size and design).

## Advanced applicational possibilities

thanks to higher differential pressure and higher pump capacity due to extended spindle range (pitch).

## Gentle pumping and CIP cleaning in a single pump

due to optimised and technically sophisticated flow behaviour (see page 8).

## Maximum connection flexibility

due to a wealth of connector versions.

## Simplified handling

Handles on the housing to which straps or belts can be attached.

## Long service life

among other things due to the further development of the shafts.

## Largest housing connectors on the market

for each respective size of housing.



## Pump media (examples)

### **Food:**

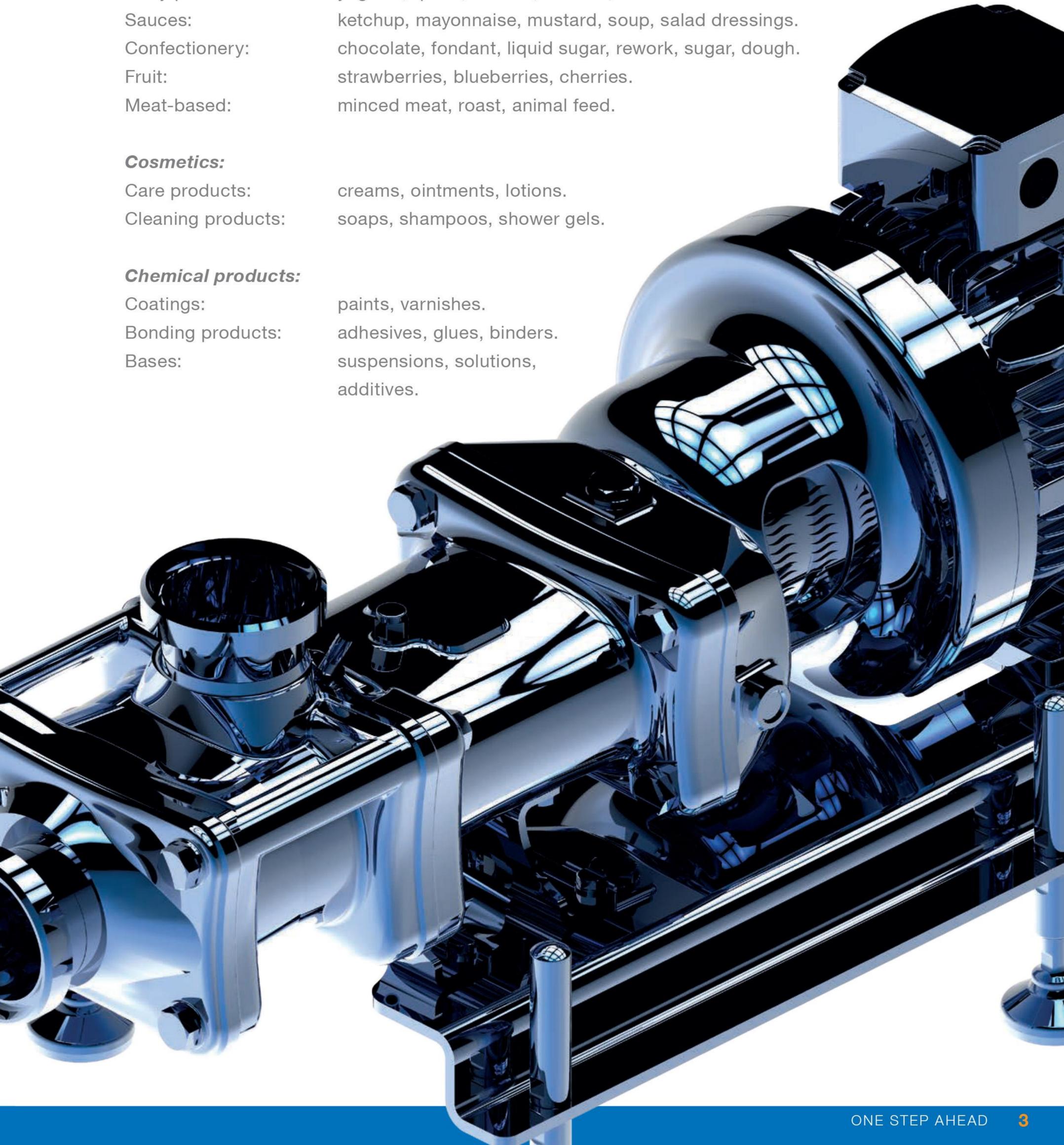
Beverages:	pure juice, concentrate, mash, pulp, yeast.
Dairy products:	yoghurt, quark, cheese, custard, butter.
Sauces:	ketchup, mayonnaise, mustard, soup, salad dressings.
Confectionery:	chocolate, fondant, liquid sugar, rework, sugar, dough.
Fruit:	strawberries, blueberries, cherries.
Meat-based:	minced meat, roast, animal feed.

### **Cosmetics:**

Care products:	creams, ointments, lotions.
Cleaning products:	soaps, shampoos, shower gels.

### **Chemical products:**

Coatings:	paints, varnishes.
Bonding products:	adhesives, glues, binders.
Bases:	suspensions, solutions, additives.



# The WANGEN fast-X-change® system

Changing spindles has always involved lengthy and stressful work with conventional industry solutions, associated with time-consuming and relatively high-cost service work, as the spindles always needed to be re-synchronised. This is now a thing of the past, thanks to fast-X-change® technology, developed by WANGEN PUMPEN.

## 80% time savings over conventional technologies

Massively reduced working time and downtime alone Massive savings in the event of a service.

## Ultra-simple spindle replacement

Spindles can now be replaced without the need to re-synchronise the spindle shaft, thanks to fast-X-change® technology, developed by WANGEN PUMPEN.

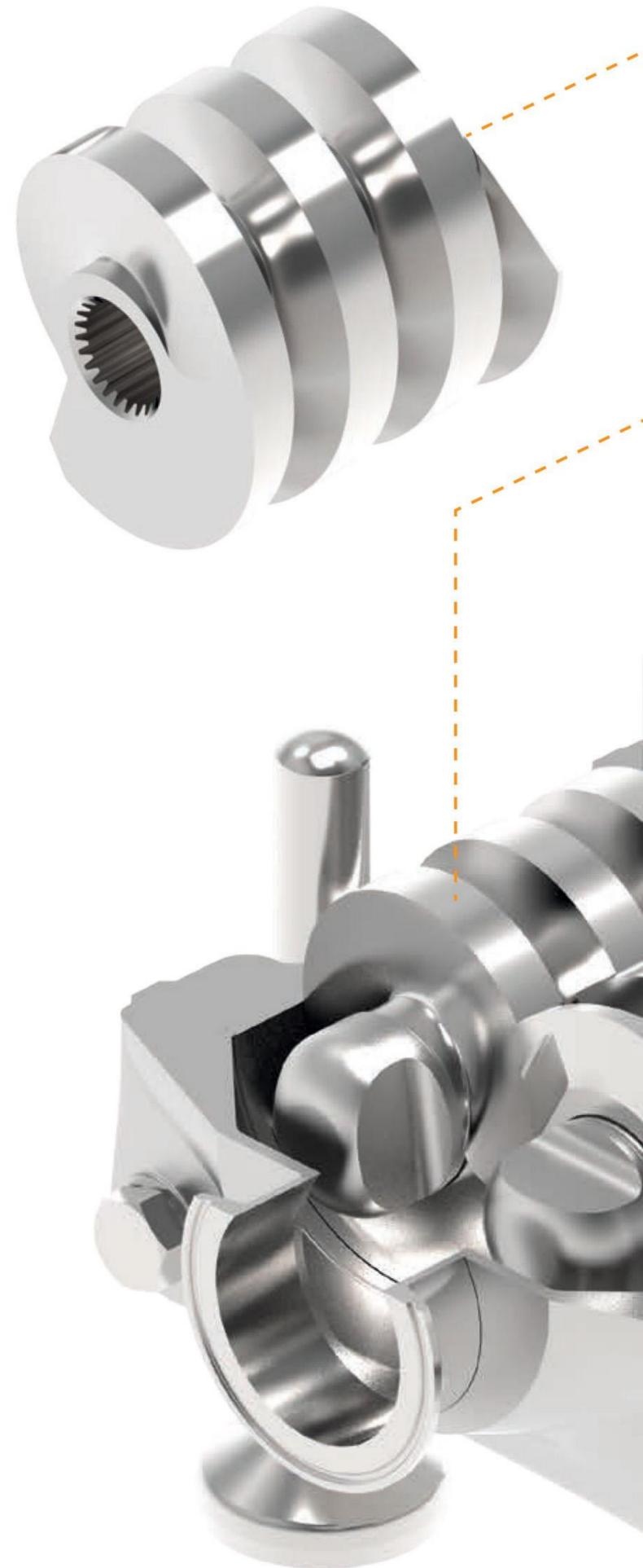
In the past, only trained personnel could re-synchronise spindles after they had been replaced. fast-X-change® technology enables the user himself to simply replace the spindle.

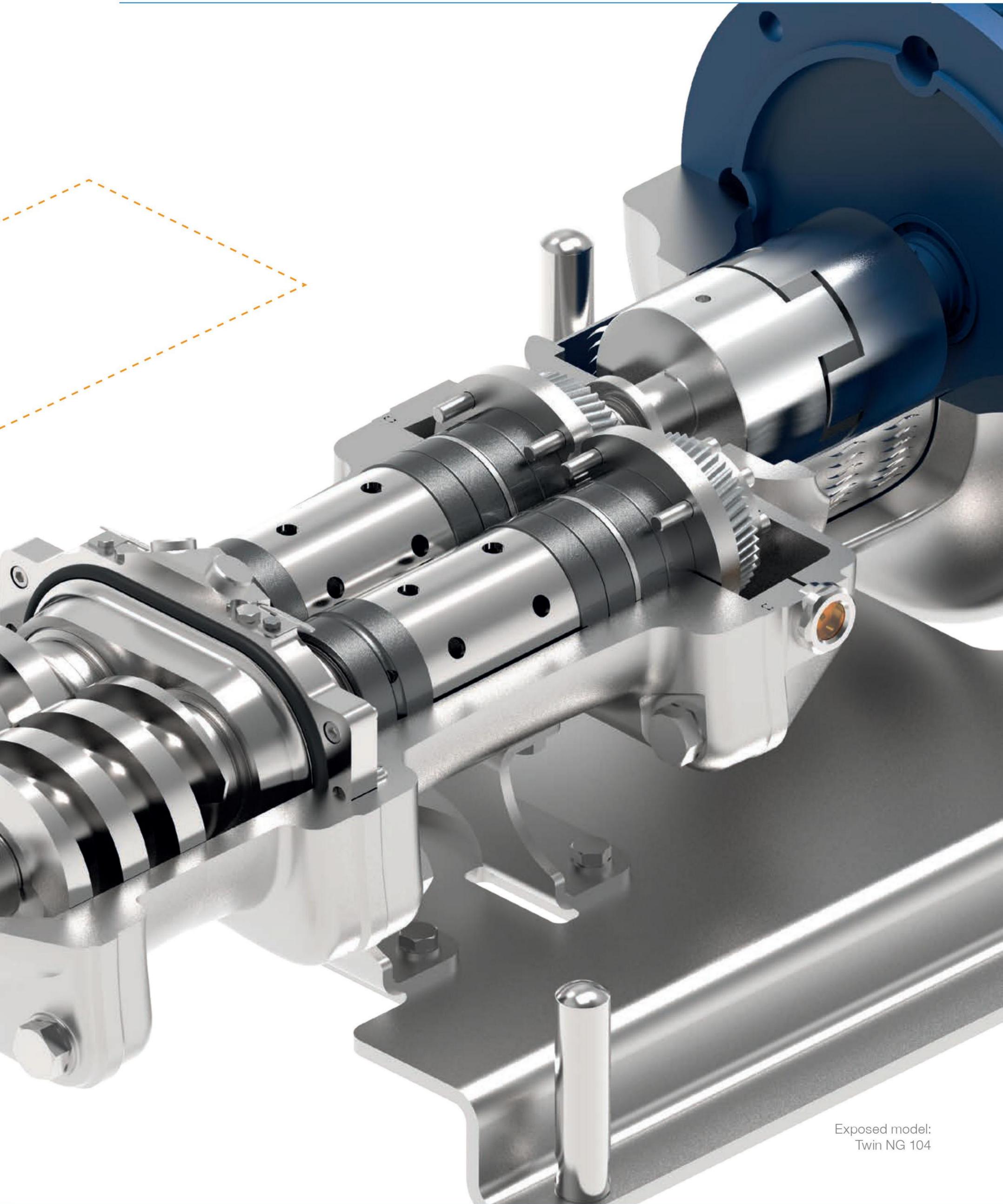
## Prevention of error sources

Possible error sources are avoided as there is no need for re-synchronisation, further increasing the reliability of the twin screw pump. There is now also no need to drain the gear oil when changing the spindle.

## Simple changeover to other media

Other pump media, other spindles. Quickly done, as the spindle can now be quickly and simply replaced.





Exposed model:  
Twin NG 104

# Ultra-fast seal replacement

It couldn't be simpler: old seal cartridge out, new seal cartridge in. The superior design concept of the new generation WANGEN Twin is also visible here. The functionality of the seal can optionally also be restored using the WANGEN PUMPEN spare parts kit.

## Maximum service friendliness

The ultimate aim with the design of the Twin NG was to achieve absolute ease of service, based on the "one step ahead" slogan. It also goes without saying that the WANGEN Twin NG simultaneously needs to meet WANGEN PUMPEN's traditionally high quality standards.

The result: the structural redesign means that the 14 individual components previously needed to replace the seal are reduced to a mere 2 components. The mechanical seal (single and dual-action) is available fully assembled as a cartridge and is simply replaced, with no time-consuming assembly of a host of single components in a certain order.

This avoids assembly-related errors as the pump is rapidly back ready for operation after a service.

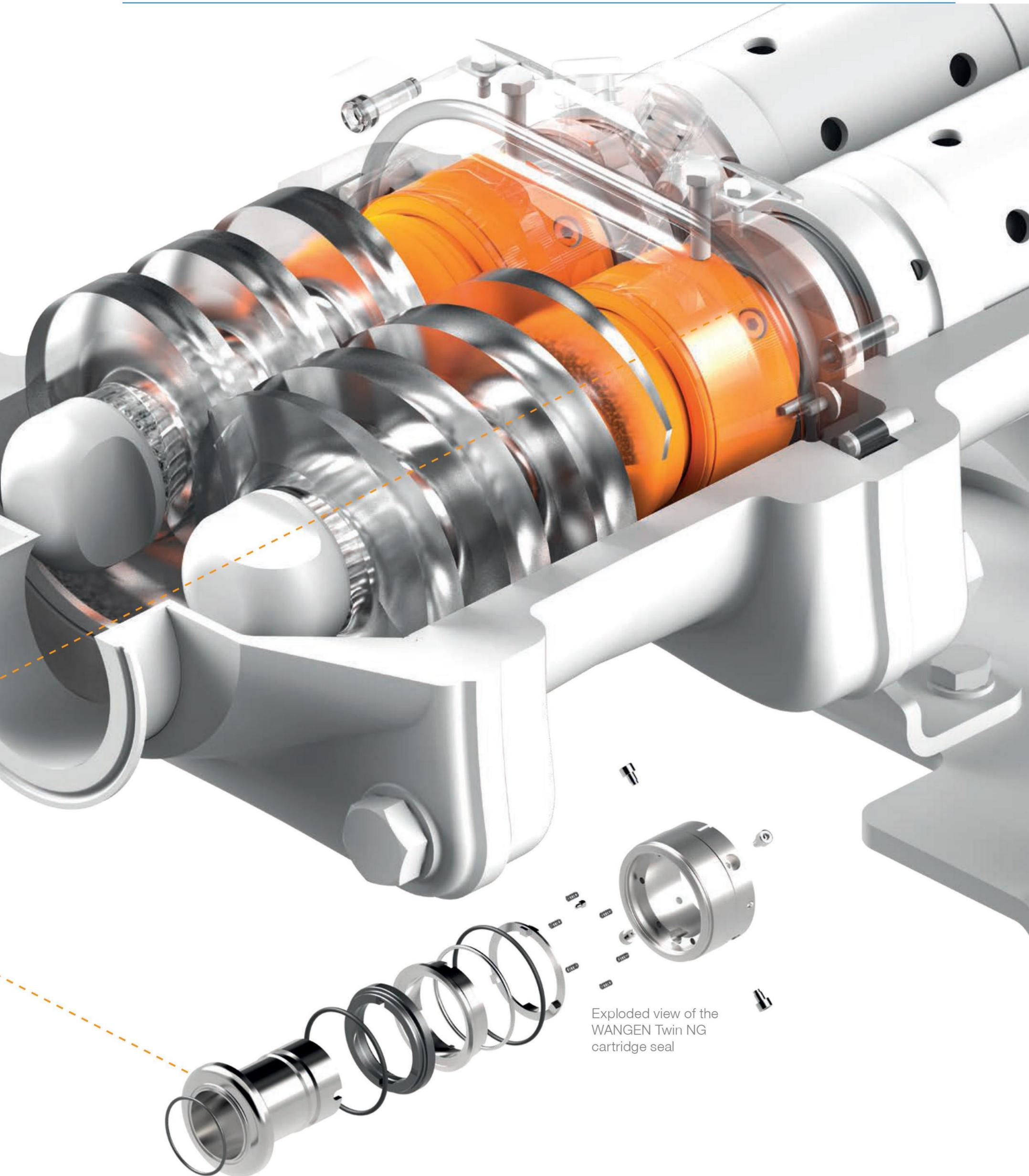
## One-sided dismantling is possible

The seal cartridge can be removed on the spindle side with the new WANGEN Twin NG twin screw pump. Only components in the direction of the spindles need to be removed to do so.

The time savings associated with this are also massive, with a further bonus being the fact that the cartridge can be conveniently replaced even in very compact spaces.



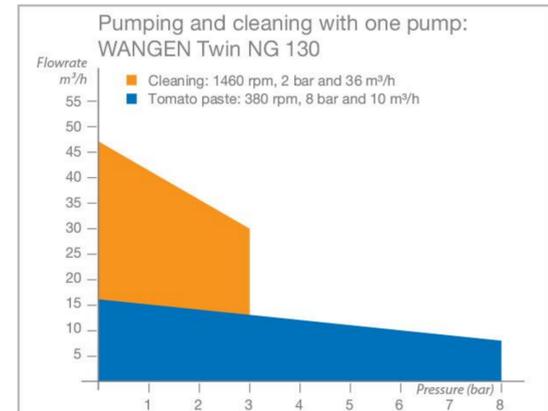
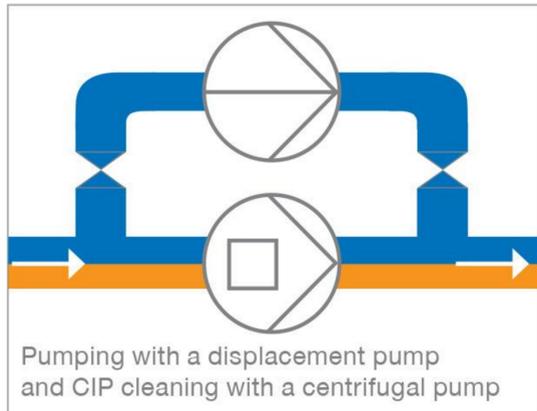
Single-acting cartridge-form mechanical seal of a WANGEN Twin NG 104



Exploded view of the  
WANGEN Twin NG  
cartridge seal

# Two pumps in one

As with twins, you also have twice the joy with the WANGEN Twin NG: it can be used as both a product and CIP pump. You therefore have no additional costs for a separate centrifugal pump, bypass line, valves and measuring, control and regulation technology.



With the WANGEN Twin NG, you can add the water or cleaning medium after pumping your products and run the pump at a very high speed to clean it. The absence of a CIP backflow pump for cleaning is reflected in the procurement and operating

costs, and also solves the challenges associated with minimal or very restricted space in the production area. All components in the production line are exposed to full CIP, ensuring excellent cleaning results.



## Top hygienic values

The WANGEN Twin NG achieves top marks with SIP and CIP cleaning. This is due, above all, to the following characteristics of the WANGEN Twin NG, unique in this combination:

- Extremely high speed range enables either product or cleaning fluid to be pumped
- High speeds in cleaning mode ensure self-cleaning success in the pump
- Lines, equipment and fittings filled with product can be pushed out up to a top pressure of 30 bar
- Pumpenfabrik Wangen GmbH is authorised to use the **3-A label** for the WANGEN Twin NG 70 3-A, 104 3-A, 130 3-A.
- Pumpenfabrik Wangen GmbH is authorised to use the **EHEDG label** for the WANGEN Twin NG 70, 104, 130 and 180.

## Other highlights

- Pump can be installed independently of the location
- 100% backward compatible with the previous WANGEN Twin generation.
- Grey cast iron bearing housing (galvanised with a high-quality coating).
- Pump available with or without direct flange attachment of the drive.
- Extended, flexible range of drives.
- Handles on the housing for ease of handling



# Characteristics

## High suction lift

Axial pumping and the slow acceleration of the product in the pump ensure excellent suction performance (NPSHR < 2 m).

- Emptying tanks
- In the event of minimal feed height to the pump
- For the pumping of viscous or slightly simmering products

## Reversible pumping direction

Pumping in both directions by reversing the rotational direction.

- When pumping and then emptying the line
- Use as a loading and unloading pump

## Large viscosity range

Viscosity of up to 1,000,000 mPas is possible through axial pumping and minimal kneading effect in the product. Good pumping performance thanks to high speeds even at low viscosities with 0.5 mPa s.

- Pumping of all low to high-viscosity products
- Pumping of the most diverse products with a single pump

## 60% gas proportion is possible

The high speeds also enable compressible products to be conveyed by the pump.

- When pumping and then emptying the line
- For use as a loading and unloading pump

## Low-pulsation

Axial pumping and slow acceleration in the pump also ensure low pulsation. Any pulsation produced is quickly eliminated by high speeds

- Minimal shearing forces retain the structure and appearance of the products
- Ensures the gentle pumping of sensitive media
- Extension of the pump line by connection of pumps in series
- For applications requiring exacting metering precision



## No risk of running dry

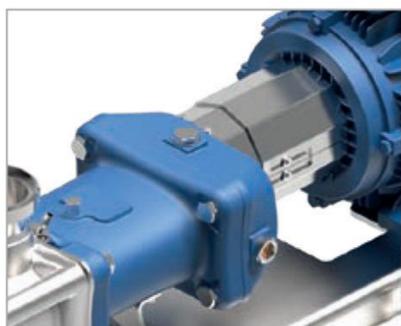
The contactless operation of the pump screws and flushed/ blocked mechanical seal ensure that there is no risk of the pump running dry.

- No risk of pump failure with higher proportions of gas in the line

## Spare parts

We guarantee that the performance of our pumps will be fully restored with original WANGEN PUMPEN spare parts. Our decade-long manufacturing expertise therefore offers you first-class manufacturing quality, guaranteeing the long service life of your pump.

Service hotline: [+49 7522 997-997](tel:+497522997997)  
 Spare parts: [+49 7522 997-896](tel:+497522997896)

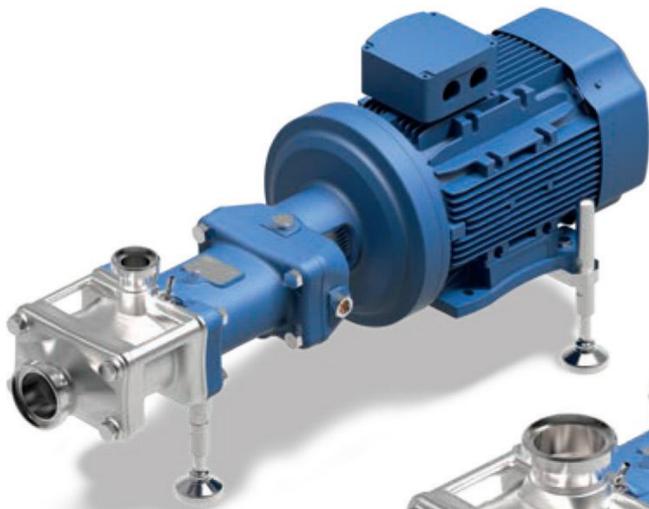


Twin NG 104 with standard coupling protection with variable length adjustment

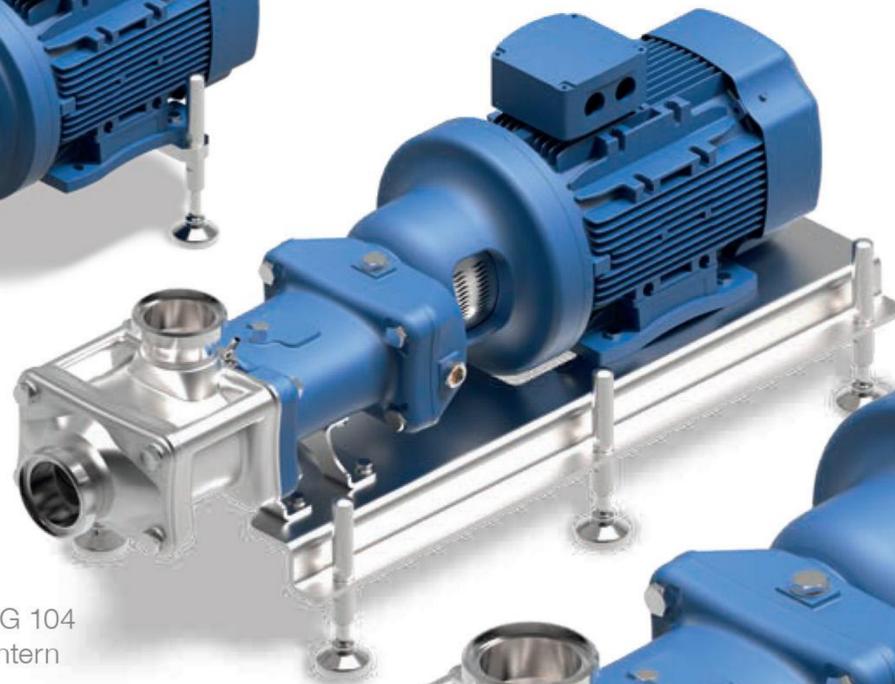


Twin NG 104 with heating jacket

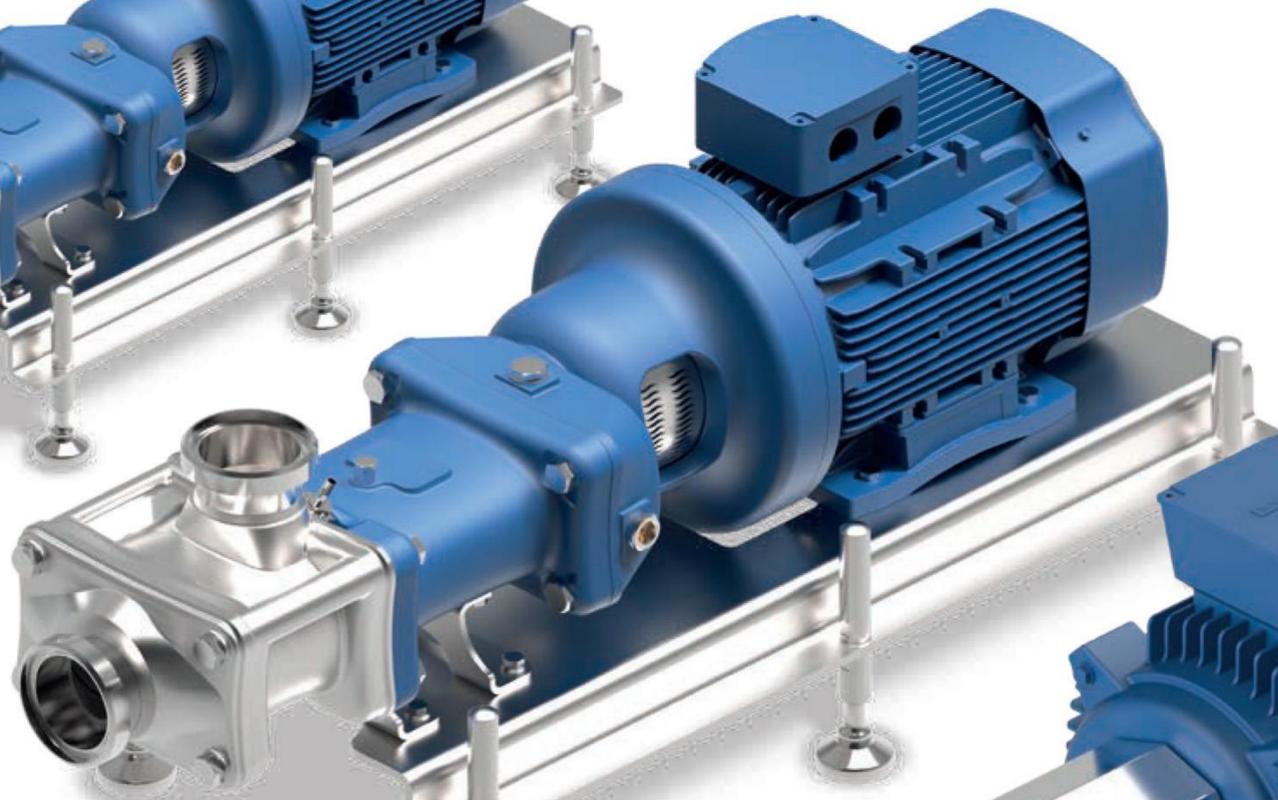
Pump size	Maximum free passage (mm)	Max. pump volume (m <sup>3</sup> /h) at a viscosity of 1 mPa·s	Maximum peak pressure (bar)
Twin NG 70	20	25 (at 4000 rpm)	30
Twin NG 104	25	60 (at 3600 rpm)	30
Twin NG 130	30	100 (at 3000 rpm)	25
<b>NEW</b> Twin NG 180	40	200 (at 2600 rpm)	20



Twin NG 70



Twin NG 104 with lantern



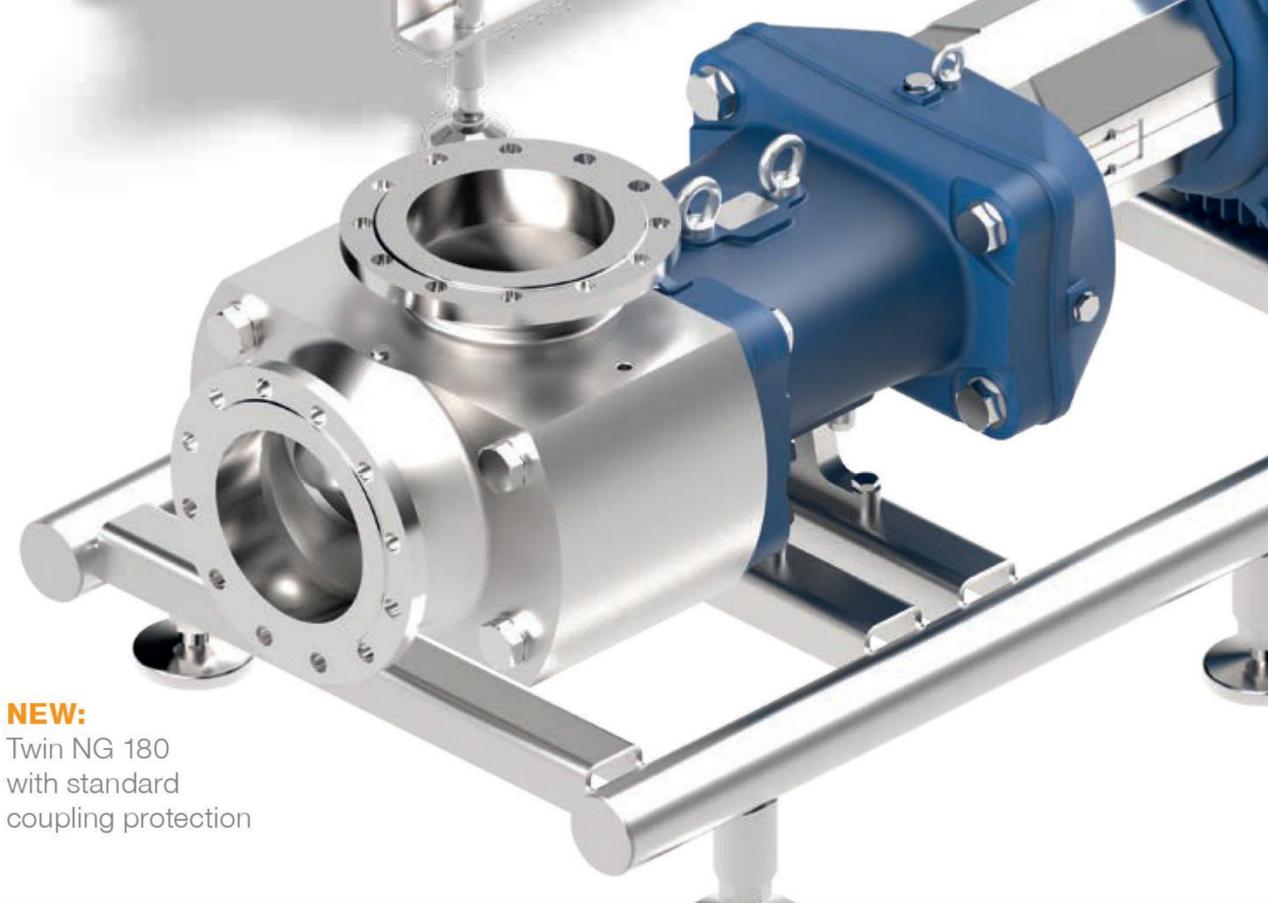
Twin NG 130 with lantern



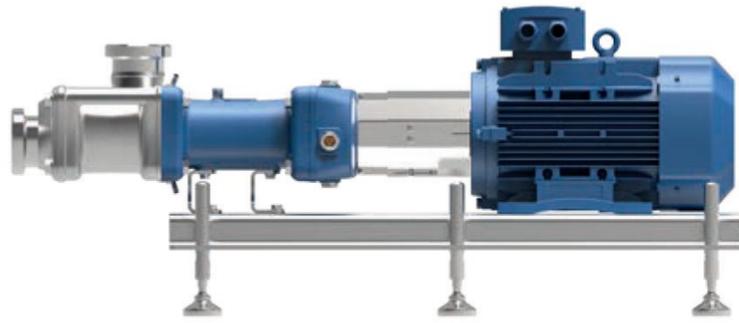
Twin NG 70, with stainless steel cover



Twin NG 70, mobile



**NEW:**  
Twin NG 180 with standard coupling protection



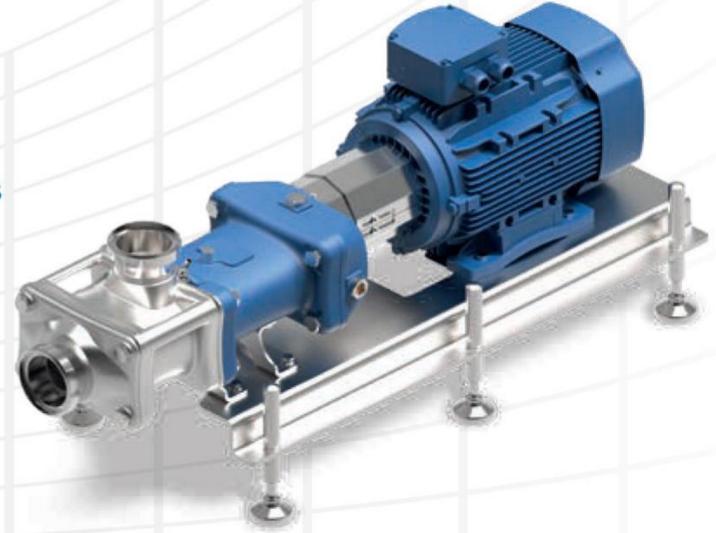
WANGEN Twin NG 104,  
on baseplate with adjustable feet

**WANGEN Twin NG technical details:**

Max. pump capacity: 200 m<sup>3</sup>/h

Viscosity: up to 1.000.000 mPa·s

Max. temperature: +130 °C



**WANGEN PUMPEN is certified to:**

ISO 9001 (Quality management)

ISO 14001 (Environmental management)

ISO 45001 (Occupational safety and health protection)

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