

# RP SERIES

**NEW!**

**HIGH PRESSURE PUMPS  
WITH MAXIMUM WATER FLOW FOR  
MAGNIFICENT CLEANING RESULTS!**

A photograph showing a worker in a red plaid shirt and blue hard hat operating a blue and white Kranzle high-pressure pump. The pump is connected to a yellow wheel loader. The worker is holding a high-pressure hose. The background is a clear blue sky.

**THERM-RP  
LX-RP  
WS-RP**

# “REIHEN-PUMPE” – “IN-LINE PUMP” SERIES

Reliable Kränzle pump technology and design with a new in-line transmission.



**Kränzle axial transmission drive pumps are excellent for almost all cleaning purposes and can usually handle it but for some cleaning requirements even with very high pressure the overall performance just might not seem quite enough cleaning power. For very demanding cleaning requirements, for example: on a farm where you want to use the power and flow of water for sweeping everything away and using the spray almost as you would a broom – a high pressure spray combined with a huge water flow rate delivers a far greater combined cleaning force and overall increase in ‘power’ can be achieved with the newly developed Kränzle ‘in-line’ transmission driven pump technology.**

The particular feature of the newly developed Kränzle in-line pump:

**The pump technology with all water-bearing parts is identical with the Kränzle axial pump which has been proven for decades.**

Instead of the swash plate, the drive unit features a crankshaft, moving plungers connected in series via connecting rods, (con-rods). It is possible to configure the crankshaft for a greater stroke for delivering larger quantities of water.

Kränzle pressure washers can last for decades so it may be useful to know that many of the service and replacement parts are common between our axial transmission pump machines and the new in-line RP series.

But what makes Kränzle pump technology so unique?

**On the following pages you will be advised of all the important quality advantages of the two pump systems.**



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**NEW!**

## **KRÄNZLE IN-LINE PUMP TECHNOLOGY**

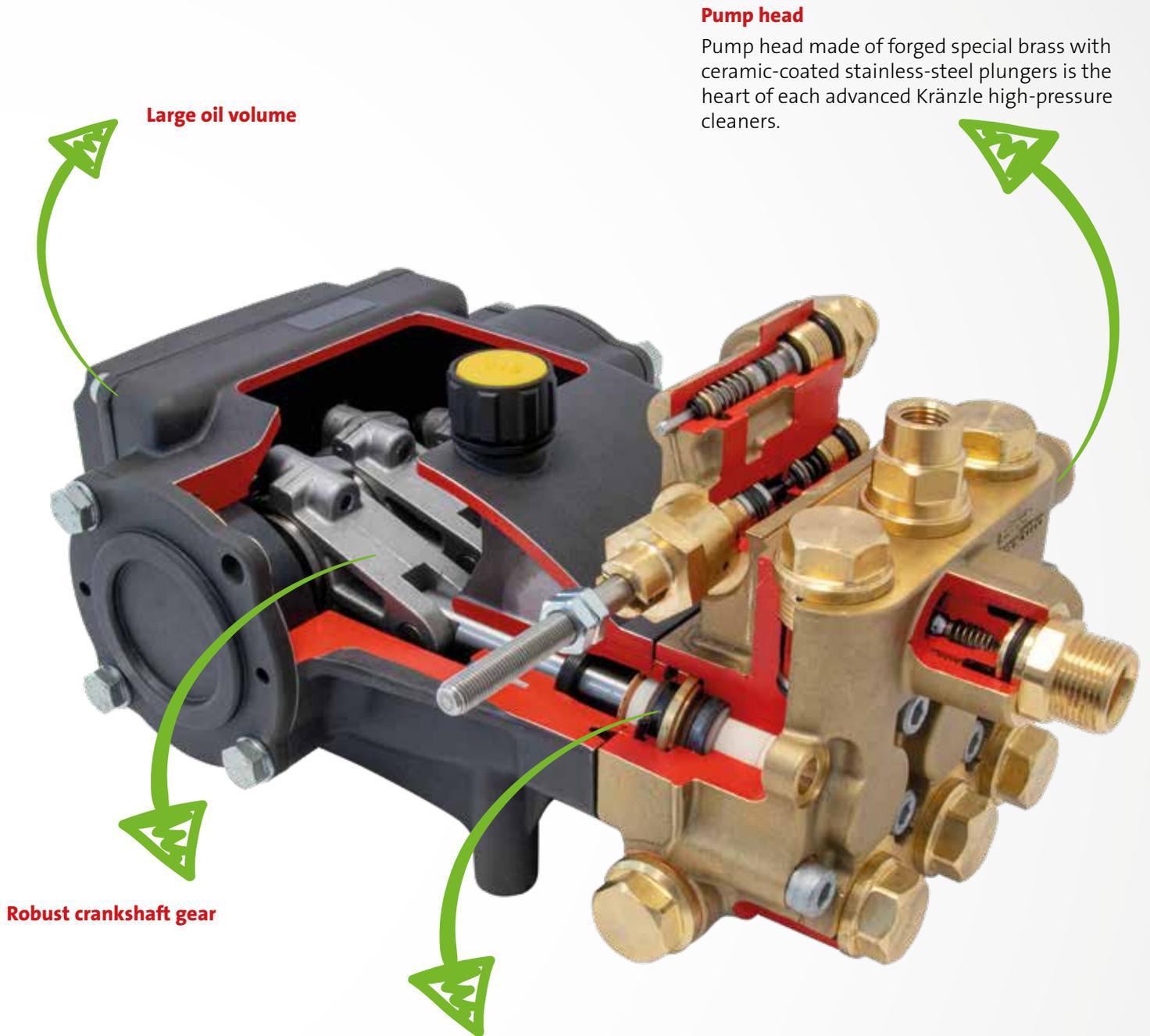
Awesome cleaning results with tremendous cleaning power!



**Kränzle high-pressure cleaners with in-line transmission driven pumps take to the most demanding cleaning applications in agriculture or animal husbandry, construction or industry like a duck does to water. High impact pressure matched with an impressive minimum of 1000 l/h water flow rate will always provide for perfect cleanliness and maximum efficiency.**

The advantage of the newly developed in-line pump is that the water-bearing spare parts are identical to the proven axial pump, such as for example control pistons, pump seals, valves and pressure switch mechanics.

Kränzle pumps have gained recognition internationally for being of a superior build quality and made with attention to detail, design and function. This reliable pump technology is now offered with an in-line transmission which allows for more over-all cleaning force. It also makes spare parts stock particularly for our trading partners especially easy. And will give our customers and users all over the world trusted Kränzle pump technology used in millions of applications.



**Large oil volume**

**Pump head**

Pump head made of forged special brass with ceramic-coated stainless-steel plungers is the heart of each advanced Kränzle high-pressure cleaners.

**Robust crankshaft gear**

**Dry-run safety and leakage return**

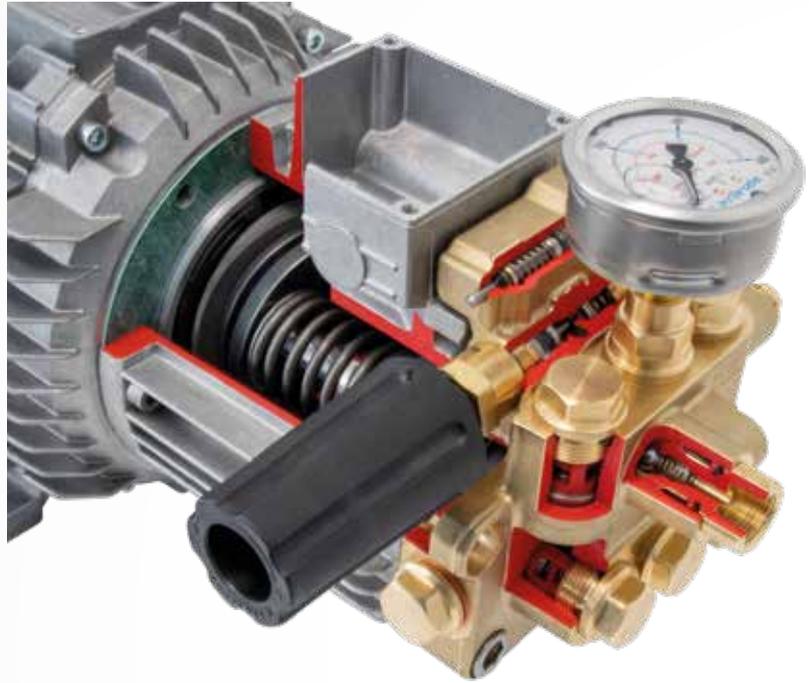
All pumps are equipped with a ceramic sleeve per plunger and a back-up ring, of sintered bronze combined with Teflon and graphite. Thanks to the excellent lubricating properties of Teflon-graphite, the frictional resistance is greatly reduced.

A water cushion between the high-pressure seals on the plungers prevents any sucked in air from reaching the pump chamber. This considerably increases lifetime of plungers and pump.

# KRÄNZLE PUMP TECHNOLOGY

Axial transmission and in-line (RP) transmission pump by comparison.

## Kränzle axial pump



TO THE  
PRODUCT  
FILM



### Advantages of axial transmission powered pumps:

- Motor and pump are directly connected in longitudinal direction providing maximum drive efficiency
- Driven end motor bearing is permanently lubricated by the common oil bath
- Low vibration thanks to direct power transmission: The pump is driven directly by the motor shaft
- No angular force deflexion, requiring little space and running smoothness
- Power transferred axially from motor shaft through to the pump
- Pump with motor all one unit
- Easy repair option of transmission assembly
- Suitable for motor sizes 80/90/100/112

### Restriction:

- Maximum flow rate 20 l/min.

**NEW!**

## Kränzle in-line pump



TO THE  
PRODUCT  
FILM



### Advantages of RP in-line transmission powered pumps:

A crankshaft moving plungers lying in series via connecting rods, (con-rods). Therefore **RP** – **Reihen-Pumpe** (in-line pump).

- Pump as a separate unit
- Applicable for different motor sizes
- Stable crankshaft with connecting rods (con-rods) lubricated in an oil bath
- Large oil volume
- Power transferred as with a car engine via a crankshaft, connecting rods (con-rods), and plungers
- Compulsory return of plungers increases pump in-let suction and helps prevent damage to the high-pressure pump caused by a lack of water

# KRÄNZLE THERM-RP SERIES

The hot-water devices with exceptional cleaning efficiency and impact pressure!



**The Kränzle therm hot water high-pressure cleaners combine a number of technical innovations. These provide for highest performance, reliability, safety and operating comfort in daily use.**

With the new in-line pump, the new Kränzle therm-RP series offers a water output capacity of up to 1600 l/h. This is the best for high operating pressures combined with a huge water flow rate creating a far greater combined cleaning force and overall increase in 'power' with the newly developed 'in-line' pump technology.

Visual flame monitoring, operating hours counter and comprehensive safety devices make Kränzle therms absolutely reliable, environmentally friendly, clean and low-noise products.

**With Kränzle technology you save water and energy – and that with maximum cleaning efficiency!**

## Combustion chamber

The combustion chamber, a completely new design by Kränzle, is designed for professional continuous use and the excellent thermic efficiency rating guarantees low heating-oil consumption and low emissions.



### Safety valve

Protects from undesirable excessive pressure build-up.

### Flow monitor

Prevents overheating of the heating chamber at lack of water.

### Pressure switch

Heating is only possible when pressure from the pump is detected.

### Differential pressure switch

Controls automatic device stand-by feature if the trigger gun with safety catch remains closed for 30 seconds.

### Overcurrent protection

Switches off the high-pressure cleaner caused by excessive power intake.

### Digital flame monitoring

Switches off the fuel supply if the burner flame goes out.

### Pressure regulation control valve

Allows for smooth control of the water volume and water pressure, as well as pressure-free bypass operation.



### Digital thermostat

#### Operation mode 1: Thermostat regulation °C

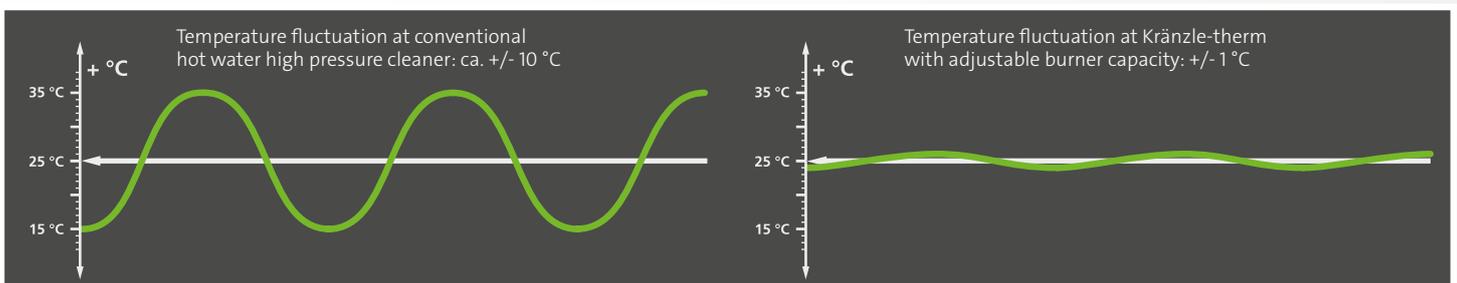
The desired water temperature is specified in °C. A thermostat measures the temperature at the end of the heating coil and controls the burner until the desired temperature is reached. (The ACTUAL temperature is displayed.)

#### Operation mode 2: Burner output in %

The burner is switched on and off at a corresponding cycle frequency based on the percentages set (TARGET value). The water temperature at the end of the heating coil is indicated as ACTUAL value in °C. The advantage of this operating mode is in a water temperature maintained precisely to one degree (+/- 1 °C), even at operation with partial volumes and at low temperatures.

### Operating hours counter

The device displays both cold and hot operating time information separately which can assist with determining appropriate servicing intervals and requirements.



# KRÄNZLE THERM-RP SERIES

Hot-water, high pressure cleaning with impressive water flow!

## Digital operating panel

To control the water temperature

## Integrated hose drum

Hose drum with 20 m steel braided high-pressure hose with foldable crank



## Neat storage system

Practical stowing of the trigger gun with safety catch and lances

## Locking brake

For a safe stop

**The latest Kränzle technology and first-class cleaning results on offer make the new Kränzle therm-RP series an ideal hot-water device in sectors such as construction and agricultural machinery, in agriculture or animal husbandry.**

- New Kränzle in-line pump with integrated safety valve and pressure switch
- Pressure regulation offers fully adjustable control and allows operating pressures to be set to suit any task
- Quick-release fittings for simple and quick lance changes
- Total-stop system with delayed motor cut-off improves seal lifespan and reduces power consumption
- 7,5 m power cable with cable reel



Technical data		therm-RP 1000	therm-RP 1200	therm-RP 1400	therm-RP 1600
Work pressure adjustable	bar / MPa	70-200 / 7-20	70-190 / 7-19	70-170 / 7-17	70-150 / 7-15
Max. admissible overpressure	bar / MPa	220 / 22	210 / 21	190 / 19	170 / 17
Connected load	V / ~ / Hz / A	400 / 3 / 50 / 13.5	400 / 3 / 50 / 14.3	400 / 3 / 50 / 14.3	400 / 3 / 50 / 14.3
Motor speed	rpm	1400	1400	1400	1400
Water output	l/h	1000	1200	1400	1600
Power intake / Power output	kW   kW	7.5   6.0	8.0   6.3	8.0   6.3	8.0   6.3
Dimensions with hose drum L / W / H	mm	1050 / 800 / 1300	1050 / 800 / 1300	1050 / 800 / 1300	1050 / 800 / 1300
Weight	kg	228	228	228	228

Equipment		Art. No. with hose drum		468001	468021	468041	468061
Steel braided high-pressure hose	m   NW	20	8	20	8	20	8
Trigger gun with safety catch	Model	Starlet		Starlet		Starlet	
Stainless steel lance with flat jet nozzle	Nozzle size	4005		40065		4008	

Art. No. without hose drum		468000	468020	468040	468060
Steel braided high-pressure hose	m   NW	10	8	10	8
Trigger gun with safety catch	Model	Starlet		Starlet	
Stainless steel lance with flat jet nozzle	Nozzle size	4005		4008	



# KRÄNZLE LX-RP SERIES

Spectacular cleaning for the toughest of agricultural conditions!

## Integrated hose drum

Hose drum with 20 m steel braided high-pressure hose with foldable crank

## Integrated holder

Holder for trigger gun with safety catch with lance

## New in-line pump

Kränzle in-line pump with integrated unloader valve and pressure switch

## Locking brake

For a safe stop



**Daily cleaning of stables, equipment and tractors requires particularly robust, powerful high-pressure cleaners with a large volume of water flow output. In this regard, the LX-RP series sets completely new standards and features impressive technology, quality and performance.**

- New Kränzle in-line pump with integrated safety valve and pressure switch
- Pressure regulation, operating fully adjustable control allows operating pressures to be set to suit any task
- Quick-release fittings for simple and quick lance changes
- Total-stop system with delayed motor cut-off improves seal lifespan and reduces power consumption
- 7,5 m power cable with cable reel



Technical data		LX-RP 1200 TST		LX-RP 1400 TST		LX-RP 1600 TST	
Work pressure adjustable	bar / MPa	30-190 / 3-19		30-170 / 3-17		30-150 / 3-15	
Max. admissible overpressure	bar / MPa	210 / 21		190 / 19		170 / 17	
Connected load	V / ~ / Hz / A	400 / 3 / 50 / 14.3		400 / 3 / 50 / 14.3		400 / 3 / 50 / 14.3	
Power intake / Power output	kW   kW	8.0	6.3	8.0	6.3	8.0	6.3
Motor speed	rpm	1400		1400		1400	
Water output	l/h	1200		1400		1600	
Dimensions L / W / H	mm	735 / 580 / 1020		735 / 580 / 1020		735 / 580 / 1020	
Weight	kg	100		100		100	

Equipment							
Steel braided high-pressure hose	m   NW	20	8	20	8	20	8
Trigger gun with safety catch	Model	Starlet		Starlet		Starlet	
Stainless steel lance with flat jet nozzle	Nozzle size	40065		4008		4011	

Art. No. with hose drum	409020	409000	409010
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# KRÄNZLE WS-RP SERIES

The compact range with incredible cleaning power!

## Frame

High-quality stainless steel

## Protection cover

Stainless-steel housing protects from damage and acts as a heat shield

## Neat storage system

Holder for trigger gun with safety catch and lance

## Wall mounting

Holder suitable for wall mounting



**The WS-series are available with the new in-line Kränzle RP pumps where a high pressure spray combined with a huge water flow rate delivering a far greater combined cleaning force and overall increase in 'power'. Thanks to the optional wall mounting, Kränzle WS-RP devices are also ideal for installing in cramped working conditions such as in washroom facilities of motor vehicle shops or for the cleaning of fleets.**

## Version with stainless steel housing:

Version with stainless steel housing features a gas pressure spring providing for the cover remaining absolutely safely fixed in any position.

- New Kränzle in-line pump with integrated safety valve and pressure switch
- Free-standing device and wall mountable unit
- Total-stop system with delayed motor cut-off improves seal lifespan and reduces power consumption
- Pressure regulation, Fully adjustable control allows operating pressures to be set to suit any task
- Quick-release fittings for simple and quick lance changes
- 7,5 m power cable

## Hydraulic holding arm

For safe raising of the cover in any position





Technical data		WS-RP 1000 TS		WS-RP 1200 TS		WS-RP 1400 TS		WS-RP 1600 TS	
Work pressure adjustable	bar / MPa	30-200 / 3-20		30-190 / 3-19		30-170 / 3-17		30-150 / 3-15	
Max. admissible overpressure	bar / MPa	220 / 22		210 / 21		200 / 20		170 / 17	
Connected load	V / ~ / Hz / A	400 / 3 / 50 / 13.5		400 / 3 / 50 / 14.3		400 / 3 / 50 / 14.3		400 / 3 / 50 / 14.3	
Motor speed	rpm	1400		1400		1400		1400	
Water output	l/h	1000		1200		1400		1600	
Power intake / Power output	kW   kW	7.5	6.0	8.0	6.3	8.0	6.3	8.0	6.3
Dimensions L / W / H	mm	670 / 430 / 510		670 / 430 / 510		670 / 430 / 510		670 / 430 / 510	
Weight, without housing	kg	62		62		62		62	
Equipment									
Steel braided high-pressure hose	m   NW	10	8	10	8	10	8	10	8
Trigger gun with safety catch	Model	Starlet		Starlet		Starlet		Starlet	
Stainless steel lance with flat jet nozzle	Nozzle size	4005		40065		4008		4011	

Art. No.	4131400	4131500	4131600	4131700
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Version with stainless steel housing*	WSC-RP 1000 TS	WSC-RP 1200 TS	WSC-RP 1400 TS	WSC-RP 1600 TS
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Art. No.	4131450	4131550	4131650	4131750
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\*Available as from October 2019

### Available as an option:

- **Automatic hose rewriter made of stainless steel**  
for 20 m steel braided high-pressure hose (412597)  
for 30 m steel braided high-pressure hose (412598)



- **Pivoted wall or ceiling mount**  
for 20 m steel braided high-pressure hose (412601)  
for 30 m steel braided high-pressure hose (412602)





THIS IS WHAT WE STAND FOR:  
**BETTER PERFECT THAN CHEAP!**

**YOUR SPECIALIST DEALER WILL BE PLEASED TO INFORM YOU!**

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■ Made  
■ in  
■ Germany