We are working on the ideal solution under maximum pressure

URACA sewer cleaning pumps are well known in the industry

Our high pressure pumps combine longstanding competency in development and construction, innovative technology and, last but not least, high-quality manufacturing. It is not without reason that URACA high-pressure pumps lie at the core of many pipe and sewer cleaning vehicles. Worldwide. Our plunger pumps have a compact design and are robust, powerful and versatile and have proven themselves to our clients over centuries. A clean job also comes from experience, and therefore, URACA Technology is used wherever soil and deposit on all kinds off surfaces have to be removed.

Especially in those places, where many others fail – but let us listen to our customers' feedback ...

Benefits at a glance

- Cost-effective to operate
- Performance without competition
- Robust, long service life and reliable
- Extremely versatile
- Reliable and intelligent technology
- Optimised design for the best balance of weight and performance
- Easy to maintain and service
- Environmental friendly



"The high reliability of URACA sewer cleaning pumps ensures our quality during everyday operations."

"The Onyx Rohr- und Kanal-Service GmbH & Co. KG has over 30 years of experience and is the competent partner for private clients, communities and enterprises. We rely on the experience of URACA for the cleaning and inspection of pipe and sewer systems. The high reliability of URACA sewer cleaning pumps ensures our quality during everyday operations."



Horst-Peter Stachorski
Management
Onyx Rohr- und Kanal-Service GmbH & Co. KG
Hannover

A company of
 Veolia Umweltservice GmbH –



"Not only the air in Berlin is unique – thanks to URACA sewer cleaning pumps the sewers are too."

"For over 150 years, the Berlin water works supply 3.7 million people in Berlin and the surrounding areas with drinking water and treat waste water from 3.9 million people. In order to clean the sewer network of 9,500 km, we have been relying on URACA sewer cleaning pumps and high pressure cleaning technology for years. Through that, we ensure the quality of our waste water and preserve our environment."



Dipl. Ing. Wolfgang Jözwiak
Maintenance
Director of Fleet Management
Berlin Water Works



"Our customers have to rely on us.

We rely on the URACA high-pressure cleaning technology."

"Kanal Wambach is a family company, which has been standing for quality in sewer and industry cleaning for over 40 years. For over two generations, we ensure safety and operational capability of sewers and pipes with our technical intuition, expertise and high performing vehicles. Therefore, we rely on URACA high-pressure pumps for our sewer cleaning vehicles and high-pressure water jet technology."



Bruno Wambach Management Director Kanal Wambach GmbH 56566 Neuwied-Engers

Top performance requires a strong heart

Industry standard

The same URACA plunger pumps run in industrial operation 24 hours a day – over many decades.

Variety

The right pump from the large URACA range for each unit.

Energy efficiency

URACA products run on a high-efficiency level. Cost-effective – year after year.

Quality

High pressure plunger pumps from URACA are manufactured in house with the highest level of quality.

Know-how

URACA have been building high pressure pumps for over 100 years.

Performance

Maximum pressure level and maximum flow rate. And not just on paper.



You don't become market leader by chance

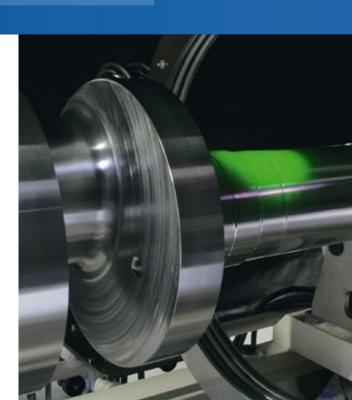
In our case, we have achieved this by applying a great degree of precision and only being satisfied with a solution which is clear in all respects. Which tasks does our client have to fulfil? What are their daily needs? And which special challenges do they have to face during their operations? The sewer cleaning vehicle, for which we don't have a tailored solution, has yet to be built. As a full-service provider for the complete high-pressure technology for sewer cleaning vehicles, URACA always offers the fitting solution - for every kind of sewer cleaning vehicles. Worldwide. Therefore, URACA is the market leader in Europe.

Sales & Service 1-800-217-8677

Build for professionals

Design intelligence, the best plunger pumps as a basis, vertical integration all the way to crank shafts manufactured in-house, precise machining and careful mounting by qualified employees as well as extensive test programs ensure the reliable functioning of our products.

This guarantees the greatest possible economic efficiency, lasting value – and last but not least enjoyable working. Every day. For many years.



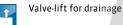
URACA offers you tailored solutions



Liquid end variations Different pressure levels Clear water model





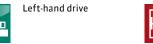




Suction valve release for wear-free load-idling switch (optional)



ATEX model



Right-hand drive



Design

Suction and pressure connections alternatively left or right



With special cross head sealing



Pump lubrication (optional)



Power end cooler subject to field of application



Without power end cooling

Drive System



Without gear



With gear



With reverse gear





For hydraulic drives, with interlocked crank shaft or with fixed flange.

No compromises

Water jet cleaning with up to 3,000 bar in daily professional use is a tough challenge for all components. The powerful heart of the system is crucial for performance and endurance and therefore also for economic efficiency: The high pressure plunger pump from URACA.

Our promise: the most reliable pumps on the market

Developed for the future

As a leading manufacturer in the area of high pressure technology, URACA offers a broad spectrum of ideally coordinated sewer cleaning pumps for professionals.

We develop work machines for practical use rather than inventing superlatives on paper. URACA products are designed for highest possible performance, efficient handling, long service life and flexibility.

Our promise

- Our 120 years of experience
- Production in Germany
- Greatest vertical integration
- Comprehensive engineering know-how
- In-house testing operation
- Customised solution
- Excellent price-performance ratio
- High energy efficiency

Sewer cleaning pump P3-08

Power up to 30 kW



















P3-08				
Power	7–30 kW			
Pump speed at shaft	250–1,000 min ⁻¹			
Pressure	100-200 bar			
Flow rate	20-163 l/min			
Pressure Levels	100, 125, 160, 200 bar			

Sewer cleaning pump P3-10

Power up to 38 kW





























P3-10	Version A1 with single stuffing boxes	Version A2 Stainless steel with single stuffing boxes	Version B Stainless steel with single stuffing boxes
Power	9–37 kW	7.5–37 kW	8.5–38 kW
Pump speed at shaft	250–1,000 min ⁻¹	250–1,000 min ⁻¹	250–1,000 min ⁻¹
Pressure	125–250 bar	250–530 bar	530-1,000 bar
Flow rate	20-163 l/min	8.5-82 l/min	5-40 l/min
Pressure Levels	125, 160, 200, 250 bar	250, 330, 415, 530 bar	up to 1,000 bar

Sewer cleaning pump KD708

Power up to 75 kW

























ht	sealing	cooling	
teel	with sin	ıgle	

KD708	Version A1 with integrated stuffing boxes	Version A2 with integrated stuffing boxes	Version C1 Stainless steel with single stuffing boxes
Power	29-75 kW	27-60 kW	26–70 kW
Pump speed at shaft	292-731 min ⁻¹	292-614 min ⁻¹	292–731 min ⁻¹
Pressure	135–250 bar	250-420 bar	800-1,200 bar
Flow rate	63-295 l/min	29–129 l/min	12.1–47 l/min
Pressure Levels	135, 160, 200, 250 bar	250, 400, 420 bar	up to 1,200 bar

Sewer cleaning pump KD718

Power up to 110 kW

Integrated cross head sealing by default

































KD718	Version A1 with integrated stuffing boxes	Version A2 with integrated stuffing boxes
Power	45-104 kW	36–100 kW
Pump speed at shaft	257–574 min ⁻¹	257-574 min ⁻¹
Pressure	125–200 bar	200–530 bar
Flow rate	123-432 l/min	37.5-275 l/min
Pressure Levels	125, 145, 170, 200 bar	200, 300, 340, 530 bar

Sewer cleaning pump P3-45

Power up to 135 kW

Integrated cross head sealing by default

























P3-45			
Power	72–134 kW		
Pump speed at shaft	319-575 min ⁻¹		
Pressure	150-250 bar		
Flow rate	162–473 l/min		
Pressure Levels	150, 175, 205, 250 bar		

Sewer cleaning pump P4-45

Power up to 180 kW

Integrated cross head sealing by default































Power 96-179 kW Pump speed at shaft 319-575 min⁻¹ Pressure 150-250 bar Flow rate 216-631 l/min Pressure Levels 150, 175, 205, 250 bar



Sewer cleaning pump KD724

Power up to 170 kW

Integrated cross head sealing by default





330, 400 bar



















KD 724	Version A1 Casting design with single stuffing boxes
Power	69–168 kW
Pump speed at shaft	238-563 min ⁻¹
Pressure	130–275 bar
Flow rate	138-615 l/min
Pressure Levels	130, 150, 170, 200, 230, 275 bar

Version A2 Stainless steel with single stuffing boxes	Version B Stainless s with single stuffing bo
64–170 kW	58–163 kW
238-563 min ⁻¹	238-563 m
170–400 bar	400–1,000
89–548 l/min	33–195 l/m
170, 200, 230, 275,	un to 1 000

nin-1 har up to 1,000 bar

with single stuffing boxes 57-153 kW 238-563 min⁻¹ 800-1,200 bar 27-93 l/min up to 1,200 bar

Version D Stainless steel with single stuffing boxes 57-143 kW 238-563 min-1 1,600-2,800 bar 12-50 l/min 12-20 l/min

up to 2,800 bar

with single stuffing boxes 57-101 kW 238-357 min-1 3,000 bar

3,000 bar

Pressure transducer UD200









Discharge pressure 70-200 bar Capacity 350-550 l/min Motor rating 20-190 kW Motor speed aprox. 1,500 min⁻¹ Total weight inclusive 980 kg lubrication pump (without oil) Oil filling 140 l

Power up to 190 kW

The oil hydraulically driven pressure transducer is an alternative to conventional plunger pumps to be used on sewer cleaning vehicles. It is driven by a variable displacement axial piston pump in closed circuit. The oil tank has an integral oil cooler passed by the medium. For cleaning purpose its covers can easily be removed.

Valves for high-pressure plunger pumps

A broad portfolio of high-pressure valves ensures the reliable and safe operation of sewer cleaning pumps.

Type of valve	Safety function (Pressure control)	Overflow function	Pump switch-over function	Holding function	Operating pressure (max.)	Recommended flow rate	Operation mode
VS 200/180	•				180 bar	0-200 l/min	mechanical
HHV 5/800					800 bar	5–550 l/min	mechanical
VSV 10/300					150–300 bar	100–500 l/min	mechanical
VSV 12/300	•				150–300 bar	250-650 l/min	mechanical
MSSV 13/100	•				100 bar	0–100 l/min	pneumatic
MSSV 32/150	•			optional	150 bar	0-1,000 l/min	pneumatic
MSSV 11/250	•			optional	250 bar	0–100 l/min	pneumatic
MSSV 24/250	•			optional	250 bar	0-500 l/min	pneumatic
MSSV 16/400	- /			optional	400 bar	0-250 l/min	pneumatic
MSÜV 20/150	-				150 bar	0-650 l/min	pneumatic
MSÜV 29/300					300 bar	0-1,000 l/min	pneumatic
MSÜV 29/450	•				450 bar	0-1,000 l/min	pneumatic
DRV 150	•		•		150 bar	20–100 l/min	mechanical
DRV 250	- \				40–250 bar	2 0–100 l/min	mechanical
HDV 300/1					40-110 bar	8–170 l/min	mechanical
HDV 300/2	•				110–220 bar	8–120 l/min	mechanical
HDV 300/3	•				220–400 bar	8–60 l/min	mechanical
ZV 29/300					300 bar	0-1,000 l/min	mechanical
VZV 25/400					400 bar	0–650 l/min	mechanical
PZV 23/800					800 bar	0-800 l/min	pneumatic

The essential functions of the valves:

- Safety valve
- Overflow valve
- Pump switch-over valve
- On/Off valve



Type VS Mechanical safety valves

For securing of high-pressure pumps against pressure overload

Type HHV

Mechanical safety valves

Reliable mechanical safety valve for different pressure/volume

Type VSV

Mechanical safety valves

Robust, reliable and durable. Designed for frequent responses.

Type MSSV Diaphragm-controlled switch/safety valves

Pneumatic activation valve for soft switching







Typ MSÜV

Diaphragm-controlled switch/relief/safety valves

Pneumatic activated valve with relief function

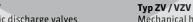




Typ DRV

Hydraulic discharge valves

Mechanical unloader valve always there if there's no power



Mechanical holding valve

Spring-loaded valve with closing function



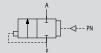


Typ PZV

Pneumatic holding valve

Pneumatic operating valve with closing function





Spray guns up to 1,200 bar

Washing, cleaning, blasting – URACA spray guns and lances handle this with ease! High quality material and expert craftsmanship ensures our high pressure products are robust, durable and will provide many years of reliable service. The ATEX version of the SP 1203 is also available upon request.



Spray guns	SP 250	SP 250-Vario
Operating pressure (max.)	250 bar	250 bar
Weight without spray tube	1.5 kg	1.5 kg
Length standard spray tube	390 mm	390 mm
Nozzle assembly (standard)	Typ N	Typ N
Connection thread at inlet	G ³ / ₄	G ³ / ₄
Hose connection with standard connecting studs	M24x1.5 DKO-S	M24x1.5 DKO-S

Spray gun SP 250 – light and robust Cleaning power at an extremely low weight of only 1.5 kg. The adjustable flow rate enables the user to practically dose the large volume flow of the SP 250-Vario making the



SP 250 extremely versatile. Its attractive price performance ratio is outstanding. Optional with flexible hose connection for easy handling.



ATEX version of the SP 1203 is also available

Spray guns	SP 503*	SP 802	SP 1203
Operating pressure (max.)	500 bar	800 bar	1,200 bar
Weight without spray tube	1.2 kg	1.6 kg	1.7 kg
Length standard spray tube	800 mm	800 mm	800 mm
Nozzle assembly (standard)	Typ N or P	Тур Р	Тур Р
Connection thread at inlet	G ½	G ¹ / ₂	G ½
Hose connection with standard connecting studs	M24x1.5 DKO-S	M24x1.5 DKO-S	M24x1.5 DKO-S

^{*}A hot water version of the SP503 is also available



Spray guns – modern design

URACA spray guns maximize user efficiency due to their low weight, easy handling, and minimize retention forces. The technical optimization of these tools makes them robust, simple to use, virtually fatigue free and they can be used with any pump system.

Accessories

Whether it's tools, additional pumping equipment or just equipment for your work – We offer you the full portfolio:

- Suction pulsation damper
- Suction pressure monitor and switch
- Pressure sensors

- Pressure gauges
- Temperature switches and sensors
- High-pressure hoses for sewer cleaning and spray gun operation
- Deflexion roller
- _ Tools, special tools and assembling aids



Pipe and sewer cleaning nozzles – The full portfolio

All nozzles can be supplied with various nozzle heads, nozzle extensions as well as adjustable slides, with and without propulsive nozzles available. This allows for thorough cleaning of pipes and sewers with different diameters.

Cleaning nozzle **DFK 55**

The robust nozzle for sewer cleaning – also suited for narrow pipes.

DFK 55		
Allowed operating pressure	50-1,600 bar	
Recommended flow rate	25-150 l/min	
Rotational speed range	100-1,500 min ⁻¹	
Minimum diameter (with smallest slide)	67 mm	
Minimum diameter (without slide)	55 mm	



Cleaning nozzle **DFK 61**

The leakage-free pipe cleaning nozzle with adjustable rotational speed for maximum pressure.

DFK 61	
Allowed operating pressure	1,600-3,000 bar
Recommended flow rate	10-40 l/min
Rotational speed range	500-2,000 min ⁻¹
Minimum diameter (with smallest slide)	75 mm
Minimum diameter (without slide)	61 mm



Cleaning nozzle **DFK 90**

The all-rounder amongst the rotating sewer cleaning nozzles for high flow rate capacity.

DFK 90	
Allowed operating pressure	50-800 bar
Recommended flow rate	30-400 l/min
Rotational speed range	200–1,200 min ⁻¹
Minimum diameter (with smallest slide)	145 mm
Minimum diameter (without slide)	90 mm



All-purpose pipe and sewer cleaning nozzles



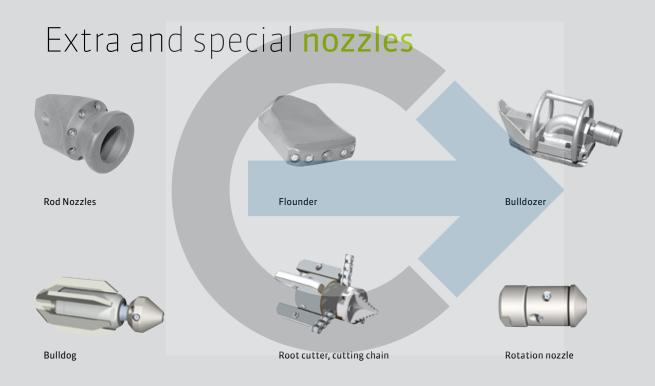
Individually drilled, reversible



Individually drilled, reversible



Bombs and grenades



Nozzle inserts

All nozzles are available in various diameters and for different pressure levels. Nozzle inserts for various pressure levels and flow rates are also available.



Type R

Type E



Type L



Type P



Type N



URACA – professional **high pressure** system supplier

