



121 Corporate Lane | New Bern, NC 28562 | USA Toll Free. 1-800-217-8677 | Tel. 1-252-631-7188

Web. www.chemacinc.com | Email. Chemac@chemacinc.com |E-Mail. service@chemacinc.com

# High pressure cleaning heads cleanliness all around



## Cleaning at the highest level

## Perfect internal cleaning of vessels with the URACA TWK system

In industries such as the chemical, petrochemical, synthetics, paper and food industries – in short, whenever deposits in vessels, reactors, autoclaves, tanks or similar equipment impair the product quality and production efficiency, the URACA TWK system comes into its own. Even boiler sediment, coke, polymers or tough residue such as natural, synthetic or PVC latex can easily be removed with the URACA TWK system.

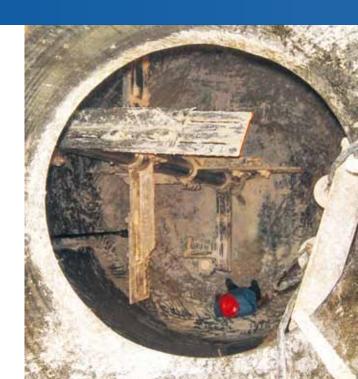


### A system made to measure

The technical conception of a TWK system depends on your specific requirements in terms of automation level and configuration. We design a tailor-made system for you according to the work cycle and space requirements.

#### Proven under extreme conditions

URACA pump units and cleaning systems are in operation worldwide under extreme conditions. URACA products withstand dirt and dust, high and low temperatures and especially heavy duty conditions that such machines are subject to. Countless testimonials from enthusiastic users confirm the durability of URACA units and systems. Profit from the best cleaning systems you can get.



# URACA tank cleaning heads have clear advantages

Sales & Service: 1-800-217-8677

Your benefit	Our features  — Different types, versions and pressure ratings			
<ul> <li>Optimal results for multiple cleaning tasks</li> </ul>				
<ul> <li>Easy adaption to the individual places and positions</li> </ul>	Various configurations			
Reduced cleaning times due to higher surface efficiency	Compact cleaning jet over a range of 3 metres			
Ideal for vessels with small openings	Small interference circle			
<ul> <li>Reduced cleaning times due to energy efficient tools</li> </ul>	Minimal internal pressure losses			
<ul> <li>A protective cage is not necessary, no hooking, no adhesion</li> </ul>	Smooth casing surface			
<ul> <li>Suitable for aggressive atmospheres</li> </ul>	Corrosion-resistant materials (CrNi steel)			
Recycling or disposal of the cleaning fluid	Cleaning with cold water without additives			
_ Suitable for hot water	Cleaning temperature up to 95°C			
<ul> <li>Additives and other cleaning fluids are possible</li> </ul>	— Acid-base resistance			
<ul> <li>Possibility to suspend the cleaning heads at a flexible hose</li> </ul>	<ul> <li>Outstanding running stability</li> </ul>			
Perfect regulation of the rotor speed	Solenoid brake: wear-free, encapsulated, adjustable			
<ul> <li>Short production downtimes and high product quality through quick and proper cleaning</li> </ul>	<ul> <li>Special rotor conception for perfect surface cleaning</li> </ul>			
<ul> <li>Quick replacement in case of emergency</li> </ul>	24 hours replacement service			
Utilisation in explosion-proof areas	Type examination certificate ATEX (zone 0 and 20)			



## Our promise: the most **reliable** products in the market

### Developed for the future

As a leading manufacturer in the field of high pressure technology, URACA offers with their pump units and vessel cleaning tools a wide range of perfectly matching components for the professional application in industry and services. We do not invent superlatives on paper, but develop tools for current practice. URACA vessel cleaning systems are designed for manual and/or automatic operation, according to customer's requirements. They are renowned for long life times.

#### Our promise

- Over 120 years of experience
- Production in Germany
- Highest vertical integration
- Comprehensive engineering know-how
- \_ In-house testing
- Customized solutions
- Excellent price-performance ratio
- Highest energy efficiency

## Tank cleaning heads TWK

The renowned URACA tank cleaning heads TWK are operated without auxiliary energy and are driven by recoil forces.

Three different model types at six different pressure ranges (600 – 1600 bar) are available, to handle various water flow rates.

The tank cleaning head TWK can be equipped with various rotors and extensions thus being suitable for different vessel sizes.

All URACA tank cleaning heads TWK can be used for explosion proof areas (zone 0 and 20).

WITH TYPE-EXAMINATION CERTIFICATE

Acc. to EC-directive 94/9/EC for category 1

(zone 0 and 20)



highefficiency

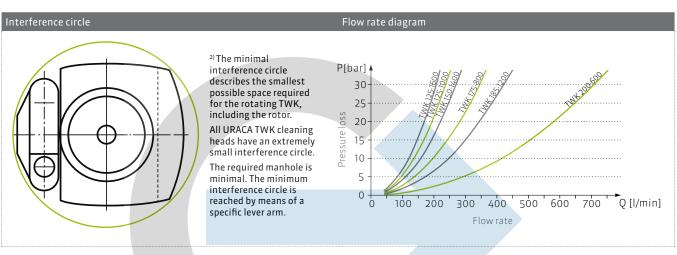
TWK 150-1400 standard execution with long rotor

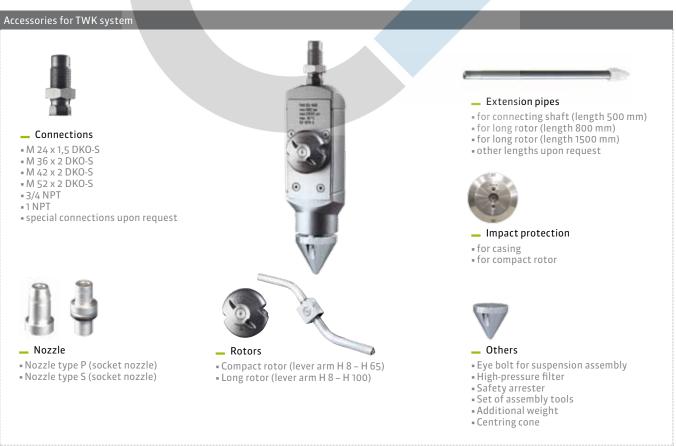
	TWK 125-1600	TWK 150-1400	TWK 185-1200
Design 1)	Standard	Standard	Standard
Operating pressure (max.)	1.600 bar	1.400 bar	1.200 bar
Recommended flow rate	30-150 l/min	50-250 l/min	100–400 l/min
Nominal power (max.)	400 kW	600 kW	800 kW
kv-value	35	48	78
Interference circle (min.) <sup>2)</sup> Ø	125 mm	150 mm	185 mm
Rotor speed	5–20 min <sup>-1</sup>	4-20 min <sup>-1</sup>	3-20 min <sup>-1</sup>
Compact jet length (400 bar)	3 m	3 m	3,5 m
Connecting shaft screw thread	M24x1,5	G1	G1
Overall length without adapter	360 mm	405 mm	455 mm
Weight without rotor and connection	10,5 kg	15 kg	23,5 kg

	TWK 125-1000	TWK 175-800	TWK 200-600
Design 1)	Chemistry	Chemistry	Chemistry
Operating pressure (max.)	1.000 bar	800 bar	600 bar
Recommended flow rate	40-200 l/min	75-350 l/min	100-750 l/min
Nominal power (max.)	350 kW	450 kW	750 kW
kv-value	43	63	130
Interference circle (min.) <sup>2)</sup> Ø	125 mm	175 mm	200 mm
Rotor speed	5–20 min <sup>-1</sup>	4–20 min <sup>-1</sup>	3–20 min <sup>-1</sup>
Compact jet length (400 bar)	3 m	3,5 m	4 m
Connecting shaft screw thread	M24x1,5	G1	M38x1,5
Overall length without adapter	360 mm	405 mm	435 mm
Weight without rotor and connection	10,5 kg	15 kg	23,5 kg

<sup>1)</sup> Special versions on request

<sup>&</sup>lt;sup>2)</sup> See interference circle on next page





Sales & Service: 1-800-217-8677

### Small container cleaner KBR

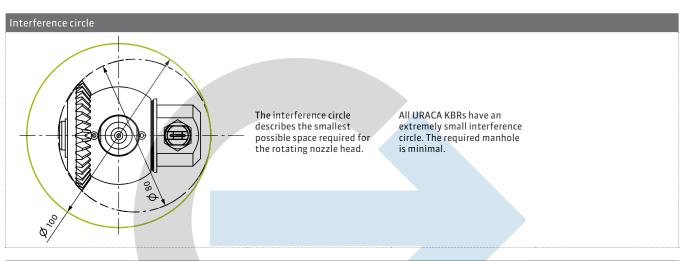
Cleaning head with electric or pneumatic drive for the internal cleaning of containers and vessels. The small gear is ideal for narrow tank openings. For operations in abrasive environments, the gears are available with protection cover. At operating pressures up to 400 bar, the cleaning heads are acid-base resistant and also available in Ex design (ATEX II 2G c IIB T4).

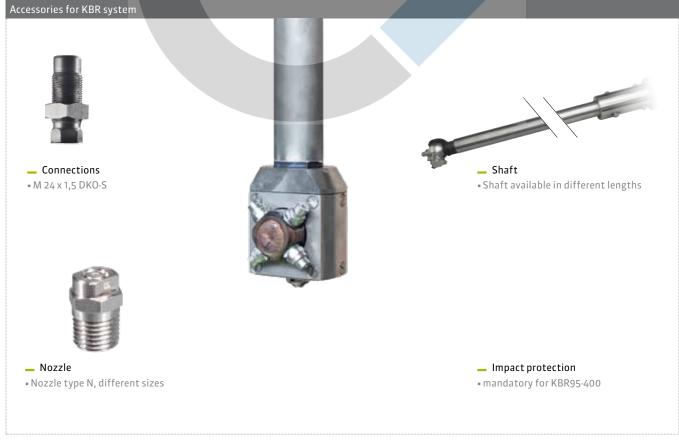
	KBR 60-250	KBR 80-200	KBR 80-400	KBR 85-400	KBR 95-400	
Pneumatic drive	_	•	•	•	•	
Electric drive						
Operating pressure max.	250 bar	200 bar	400 bar	400 bar	400 bar	
Recommended flow rate	50 l/min	80 l/min	120 l/min	120 l/min	120 l/min	
Standard length	0,5/0,7/1,0/1,5	/2,0/3,0/4,0 m	0,5/1,0/1,5/2,0 m			
Interference circle, centric	80 mm	85 mm	100 mm	100 mm	100 mm	
Interference circle, eccentric	60 mm	80 mm	80 mm	85 mm	95 mm	
Nominal diameter	-	_	DN 10	DN 10	DN10	
Discharge connection	M24 x 1,5 DKO-S	M24 x 1,5 DKO-S	M24 x 1,5 DKO-S	M24 x 1,5 DKO-S	M24 x 1,5 DKO-S	
Temperature	150°C	150°C	95°C	95°C	95°C	
Nozzles	2x / 4x 1/8" NPT	4x 1/8" NPT	2x 1/4" NPT	4x 1/4" NPT	4x 1/4" NPT	
Speed	4– 12 min <sup>-1</sup>	4 – 12 min <sup>-1</sup>	4 – 25 min <sup>-1</sup>	4 – 25 min <sup>-1</sup>	4 –25 min <sup>-1</sup>	
ATEX conformity					•	
Gear protection					•	
Swivel ball joint						

■ Standard

□ Options







Sales & Service: 1-800-217-8677

### URACA – professional **high pressure** system supplier

