

HIGH-PRESSURE TANK CLEANERS

Product overview

3 × 6 = 18
Drives × cleaning heads = 18 units

from Ø 38 mm
Insertion opening

up to 250 bar
Working pressure

ATEX
Water and compressed-air drive

2026

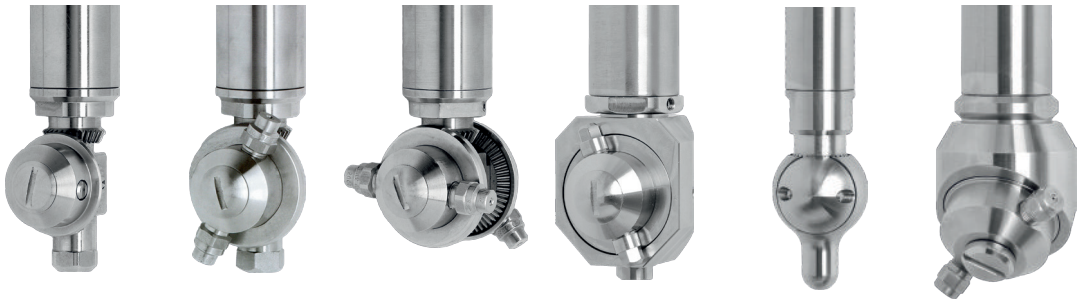
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Innovative Reinigungssysteme
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The modular principle

Our tank cleaners are built from three modules: drive, connecting pipe and cleaning head. The drive sets the spray head in rotation; a toothing on the spray head engages with a fixed toothing on the connecting pipe, so that the head also rotates about a second axis offset by 90°. The nozzles thus move in a spherical pattern, and after a certain time the water jet has covered all areas of the tank. Three drives and six cleaning heads make 18 units for the internal cleaning of production, storage and transport containers.

Drive	+	**Connecting pipe**	+	**Cleaning head**	=	**Unit**
ER Electric drive HR Water drive AR Compressed-air drive		Ø 35 mm (RK: Ø 27 mm) length or shaft up to 4000 mm		40 · 55 · D · H · K · W six designs for every drive		e.g. HRD = water drive with RD double head

18 units: every drive with every cleaning head



	R40 compact	**R55** universal	**RD** double head	**RH** hygienic head	**RK** ball head	**RW** angle head
ER Electric drive	**ER40** 100–250 bar	**ER55** 100–250 bar	**ERD** 100–200 bar	**ERH** 100–250 bar	**ERK** 100–180 bar	**ERW** 100–250 bar
HR Water drive	**HR40** 100–200 bar	**HR55** 100–200 bar	**HRD** 100–200 bar	**HRH** 100–200 bar	**HRK** 100–180 bar	**HRW** 100–200 bar
AR Compressed-air drive	**AR40** 100–250 bar	**AR55** 100–250 bar	**ARD** 100–200 bar	**ARH** 100–250 bar	**ARK** 100–180 bar	**ARW** 100–250 bar

Working pressure shown. Flow rate depending on the head 10–50 LPM, RD 10–80 LPM, RK 10–30 LPM.

What all units have in common

360°
Jet coverage
(RW: 270°)

0° / 5° / 15°
Nozzles as required

up to 4000 mm
Pipe or
shaft length

1.4301
Stainless steel for
head and pipe

- Seals FPM (Viton®), EPDM or FDA
- Connection M22 × 1.5, G 1/2" or G 3/8" (AR also M24 × 1.5)
- Modular design – the individual components can be replaced, so the unit is quickly ready for use again after servicing

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The three drives

The drive determines how the cleaning head rotates: at a fixed speed via an electric motor, driven by the cleaning water itself or by compressed air. The water and compressed-air drives are ATEX-approved.







ER Electric drive

Fixed speed, very quiet

- Electric motor with 11.9, 15.2 or 22 rpm
- Voltage 230 V AC 50 Hz, 115 V AC 60 Hz or 24 V AC
- Cover made of plastic or stainless steel
- With or without switch, cable gland rear or side
- Connecting pipe 500 to 4000 mm
- Up to 120 °C
- Very low operating noise

Working pressure
100–250 bar (RD up to 200, RK up to 180 bar)

Material
PA6 black / stainless steel 1.4301

HR Water drive

Driven by water, ATEX

- Compact water turbine – the energy of the cleaning water also drives the head
- Speed 10–30 rpm, adjustable via the water volume
- Factory-set, adjustable via three flow control nozzles
- Drive can be inserted into the tank
- Shaft length 140 to 4000 mm
- Up to 90 °C, ATEX approval
- Very low operating noise

Working pressure
100–200 bar (RK up to 180 bar)

Material
stainless steel 1.4301

AR Compressed-air drive

Adjustable speed, ATEX

- Compressed-air motor, operating pressure 6.3 bar
- Air consumption 7.8 l/s
- Speed 10–20 rpm, adjustable via the air supply
- Shaft length 500 to 4000 mm
- Up to 120 °C, ATEX approval
- Operating noise 77 dB(A)
- Additional connection M24 × 1.5

Working pressure
100–250 bar (RD up to 200, RK up to 180 bar)

Material
stainless steel 1.4301

ATEX (2014/34/EU), HR and AR: II 2 G Ex h IIC T6 … T1 Gb; II 2 D Ex h IIIC T40 °C … T90 °C Db

The six cleaning heads

The cleaning head determines the required insertion opening, the number of nozzles, the flow rate and the jet coverage. Every head is available with all three drives.



R40 compact

Spray head combination S-R-40

With a head diameter of 40 mm, very compact – also for tanks with limited insertion openings. The high-pressure nozzles are integrated in the head housing.

Insertion opening	> Ø 50 mm (1.97 inch)
automatic	> Ø 64 mm (2.52 inch)
Nozzles	2
Nozzle thread	M6
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)
Jet coverage	360°
Connecting pipe	Ø 35 mm (1.38 inch)

ER40 · HR40 · AR40



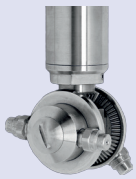
R55 universal

Spray head combination S-R-55

Universally applicable, with 2, 3 or 4 high-pressure nozzles as required. It has proven reliable and durable in numerous applications.

Insertion opening	> Ø 60 mm (2.36 inch)
automatic	> Ø 75 mm (2.95 inch)
Nozzles	2 (optionally 3 or 4)
Nozzle thread	1/8"
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)
Jet coverage	360°
Connecting pipe	Ø 35 mm (1.38 inch)

ER55 · HR55 · AR55



RD double head

Spray head combination S-RD-55

Two identical spray heads rotating in opposite directions with a total of four nozzles – for the complete internal cleaning of heavily soiled containers and storage tanks.

Insertion opening	> Ø 78 mm (3.07 inch)
Nozzles	4
Nozzle thread	1/8"
Flow rate	10–80 LPM (2.6 – 21.1 US gpm)
Jet coverage	360°
Connecting pipe	Ø 35 mm (1.38 inch)

ERD · HRD · ARD



RH hygienic head

Spray head combination S-RH-55

Developed in accordance with the EHEDG design guidelines for the food sector, gears fully encapsulated. Installed permanently (CIP), retracting automatically (optional) or manually.

Insertion opening	> Ø 65 mm (2.56 inch)
automatic	> Ø 77 mm (3.03 inch)
Nozzles	2
Nozzle thread	1/8"
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)
Jet coverage	360°
Connecting pipe	Ø 35 mm (1.38 inch)

ERH · HRH · ARH



RK ball head

Spray head combination S-RK-37

Very small head diameter, rounded edges and covered gears – specially for very narrow and sensitive tank openings.

Insertion opening	> Ø 38 mm (1.50 inch)
Nozzles	2
Nozzle thread	M4
Flow rate	10–30 LPM (2.6 – 7.9 US gpm)
Jet coverage	360°
Connecting pipe	Ø 27 mm (1.06 inch)

ERK · HRK · ARK



RW angle head

Spray head combination S-RW-55

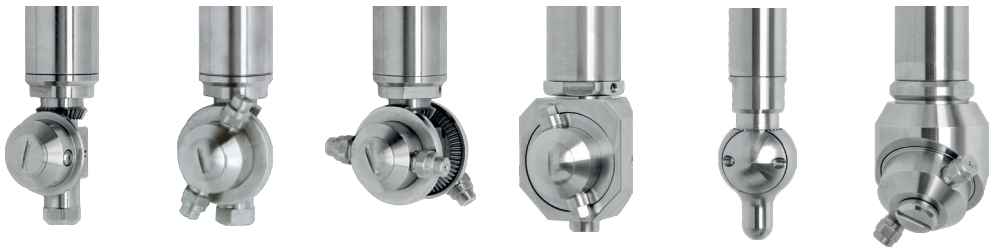
Angled spray head rotating in three dimensions, gears encapsulated – for the partial internal cleaning of containers and storage tanks.

Insertion opening	> Ø 68 mm (2.68 inch)
automatic	> Ø 84 mm (3.31 inch)
Nozzles	2
Nozzle thread	1/8"
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)
Jet coverage	270°
Connecting pipe	Ø 35 mm (1.38 inch)

ERW · HRW · ARW

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Technical data compared



	R40 compact	R55 universal	RD double head	RH hygienic head	RK ball head	RW angle head
Spray head combination	S-R-40	S-R-55	S-RD-55	S-RH-55	S-RK-37	S-RW-55
Insertion opening	> Ø 50 mm (1.97 inch)	> Ø 60 mm (2.36 inch)	> Ø 78 mm (3.07 inch)	> Ø 65 mm (2.56 inch)	> Ø 38 mm (1.50 inch)	> Ø 68 mm (2.68 inch)
… with automatic extension/retraction	> Ø 64 mm (2.52 inch)	> Ø 75 mm (2.95 inch)	–	> Ø 77 mm (3.03 inch)	–	> Ø 84 mm (3.31 inch)
Nozzles	2	2 (optionally 3 or 4)	4	2		
Nozzle thread	M6	1/8"			M4	1/8"
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)		10–80 LPM (2.6 – 21.1 US gpm)	10–50 LPM (2.6 – 13.2 US gpm)	10–30 LPM (2.6 – 7.9 US gpm)	10–50 LPM (2.6 – 13.2 US gpm)
Jet coverage	360°					270°
Connecting pipe	Ø 35 mm (1.38 inch)				Ø 27 mm (1.06 inch)	Ø 35 mm (1.38 inch)
Working pressure ER and AR	100–250 bar (1450 – 3625 psi)		100–200 bar (1450 – 2900 psi)	100–250 bar (1450 – 3625 psi)	100–180 bar (1450 – 2610 psi)	100–250 bar (1450 – 3625 psi)
Working pressure HR	100–200 bar (1450 – 2900 psi)				100–180 bar (1450 – 2610 psi)	100–200 bar (1450 – 2900 psi)
Units	ER40 · HR40 · AR40	ER55 · HR55 · AR55	ERD · HRD · ARD	ERH · HRH · ARH	ERK · HRK · ARK	ERW · HRW · ARW
	ER – Electric drive		**HR – Water drive**		**AR – Compressed-air drive**	
Drive	Electric motor		Water turbine (water-hydraulic)		Compressed-air motor, operating pressure 6.3 bar (91 psi)	
Speed	11.9 / 15.2 / 22 rpm		10–30 rpm, adjustable via water volume		10–20 rpm, adjustable via the air supply	
Voltage	230 V AC 50 Hz, 115 V AC 60 Hz, 24 V AC		–		–	
Cover	Plastic or stainless steel		–		–	
Air consumption	–		–		7.8 l/s (16.5 cfm)	
Operating noise	very low				77 dB(A)	
Max. temperature	120 °C (248 °F)		90 °C (194 °F)		120 °C (248 °F)	
Pipe or shaft length	Length 500–4000 mm (19.7 – 157.5 inch)		Shaft length 140–4000 mm (5.5 – 157.5 inch)		Shaft length 500–4000 mm (19.7 – 157.5 inch)	
Connection	M22 × 1.5 / G 1/2" / G 3/8"				M22 × 1.5 / M24 × 1.5 / G 1/2" / G 3/8"	
Material drive	PA6 black / stainless steel 1.4301		Stainless steel 1.4301			
ATEX (2014/34/EU)	–		II 2 G Ex h IIC T6 … T1 Gb; II 2 D Ex h IIIC T40 °C … T90 °C Db			
Common to all units						
Nozzle angle	0° / 5° / 15° as required					
Material head and pipe	Stainless steel 1.4301					
Seals	FPM (Viton®) / EPDM / FDA					
Cleaning cycle	Depending on speed and degree of soiling					
Maintenance interval	Approx. every 300 operating hours; replace all seals					

Which tank cleaner is right?

1. Choose the drive

Power available, fixed speed is sufficient	**ER – Electric drive** 11.9, 15.2 or 22 rpm; 230 V, 115 V or 24 V AC; very low operating noise.
Potentially explosive area	**HR – Water drive · AR – Compressed-air drive** Both drives have ATEX approval.
Only high-pressure water available	**HR – Water drive** The water turbine also uses the cleaning water for the drive; the speed follows the water volume (10–30 rpm).
Drive to be inserted into the tank	**HR – Water drive** The drive can be inserted into the tank; shaft lengths from 140 mm.
Compressed air available, adjustable speed	**AR – Compressed-air drive** Compressed-air motor at 6.3 bar, 10–20 rpm via the air supply.
Cleaning water above 90 °C	**ER – Electric drive · AR – Compressed-air drive** Both up to 120 °C, the water drive up to 90 °C.

2. Choose the cleaning head

Very narrow or sensitive opening	**RK – ball head** Insertion opening from Ø 38 mm, rounded edges, covered gears; 10–30 LPM.
Small insertion opening	**R40 – compact** Insertion opening from Ø 50 mm (automatic Ø 64 mm), nozzles in the head housing.
Universal use	**R55 – universal** 2, 3 or 4 nozzles as required; proven in numerous applications.
Heavily soiled containers, storage tanks	**RD – double head** Two counter-rotating spray heads with 4 nozzles, flow rate up to 80 LPM.
Food sector, CIP	**RH – hygienic head** According to the EHEDG design guidelines, gears encapsulated; permanently installed, retracting automatically or manually operated.
Cleaning partial areas only	**RW – angle head** Angled head with 270° jet coverage for partial internal cleaning.



How the unit name is made up

Drive (ER, HR, AR) + **Cleaning head** (40, 55, D, H, K, W)

Example: ARK = compressed-air drive with RK ball head, ERH = electric drive with RH hygienic head.

Application example: cleaning an IBC

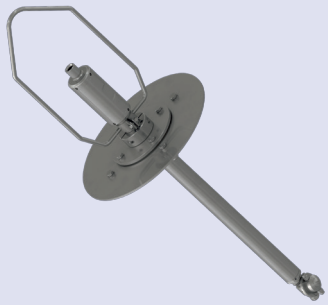
MixerWasher – for concrete and cement mixers



Tank cleaner with an electric geared motor for cleaning mixers such as concrete and cement mixers as well as production, storage and transport containers. Only the RW cleaning head, inclined at 45°, and the connecting pipe enter the tank; the mounting flange can be slid along the pipe and clamped. Special versions on request.

Drive	Electric geared motor, 230 – 400 V / 50 Hz or 275 – 480 V / 60 Hz
Cleaning head	RW, inclined at 45°, rotating
Working pressure	150 bar (2175 psi); min. 80 bar (1160 psi), max. 250 bar (3625 psi)
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)
Speed	14 rpm, cycle approx. 4.1 min
Jet coverage	270°
Shaft length	180 mm (7.09 inch)
Mounting flange	Ø 162 mm (6.38 inch), can be slid along the connecting pipe and clamped
Material	Stainless steel AISI 316L, up to 120 °C
Approvals	CE, UL
Item no.	PR.000.071

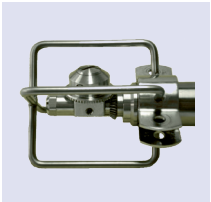
IBC cleaner – for IBC containers from 600 to 1250 l



Compact, easy-to-use tank cleaner with water drive and R55 cleaning head for IBC containers. The cleaner is simply inserted into the IBC opening with the flange; the guide can be set to DN 150 or DN 225, and the pipe length matches the container size. With splash guard plate, suspension bracket optional.

Drive	Water turbine (water-hydraulic)
Cleaning head	R55, 2 nozzles 0° / 5° / 15°
Working pressure	100–200 bar (1450 – 2900 psi)
Flow rate	10–50 LPM (2.6 – 13.2 US gpm)
Speed	10–30 rpm, adjustable via water volume
Jet coverage	360°
Insertion opening	DN 150 / DN 225
IBC sizes	600 / 800 / 1000 / 1250 l, other sizes on request
Material	Stainless steel AISI 316, up to 90 °C (194 °F)
Approvals	CE, ATEX (2014/34/EU)
Item no.	PR.000.088

Accessories for ER, HR and AR



Protective cage



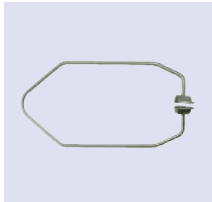
Spray head cover
R55 only



Screw-in holder
M64 × 4



Bunghole holder



Suspension bracket



Double handle



Nozzles



Stainless steel cover
ER only



Adapters M22 / M24 / NPT / 1/2"



Mounting flange



Barrel holder M64 × 4 / 2"



Sealing plug

Spare parts	nozzles 0° / 5° / 15°, seal kits, ball bearings, spray head combinations; for HR also control nozzles for the water drive
Further accessories	screw connections M48 × 1.5, M64 × 4 and 2"; for HR extension pipes 500 – 2000 mm (19.7 – 78.7 inch); anything else on request
Documentation	operating instructions, spare parts overview, certificates, declaration of conformity

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Three drives, MixerWasher and IBC cleaner



ER – Electric drive



HR – Water drive



AR – Compressed-air drive



MixerWasher



IBC cleaner

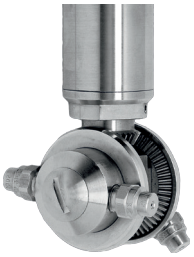
Six cleaning heads



R40 compact



R55 universal



RD double head



RH hygienic head



RK ball head



RW angle head

We will be happy to advise you

We will be happy to discuss with you which tank cleaner suits your tanks.
Detailed datasheets for all units are available on request.

Innovative cleaning systems
Your partner for a comprehensive
range of industrial cleaning systems

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