

TANK CLEANER
HRD

- Water drive (ATEX)
- RD double head with 4 nozzles
- 360° jet coverage
- Up to 200 bar and 80 LPM

- Driven by a compact water turbine
- Speed 10–30 rpm, adjustable via water volume
- Drive can be inserted into the tank
- Insertion opening larger than Ø 78 mm
- 4 nozzles, 0°, 5° or 15° as required
- Shaft lengths 140 to 4000 mm
- ATEX approval, up to 90 °C
- Very low operating noise

The HRD is a tank cleaner with water drive for the internal cleaning of production, storage and transport containers. It consists of the RD cleaning head, a water drive and a connecting pipe. The RD double head consists of two identical spray heads rotating in opposite directions with a total of four nozzles. It is used for the complete internal cleaning of heavily soiled production and transport containers as well as storage tanks.

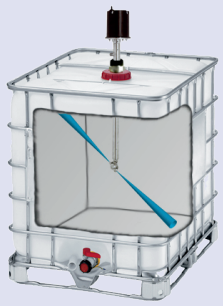
A compact water turbine converts the flow of the cleaning water into a rotary motion: the energy of the water is used not only for cleaning but also to drive the cleaning head. The connecting pipe transmits the motion and carries the high-pressure water to the spray head. A toothing on the spray head engages with a fixed toothing on the connecting pipe, so that the spray head also rotates about a second axis offset by 90°. Thanks to the rotation about two axes, the nozzles move in a spherical pattern, and after a certain time the water jet has reached every area of the tank once.

The speed can be varied via the water volume and adapted to the available water volume with different nozzles; the drive can be inserted into the tank. Shaft lengths from 140 to 4000 mm adapt the cleaner to different tank sizes. Thanks to the modular design, the individual components can be replaced, so the unit is quickly ready for use again after servicing. The HRD has ATEX approval, is designed for durability, is easy to maintain and runs very quietly.

Technical data

Drive:	Water turbine (water-hydraulic)
Speed:	10 – 30 rpm, adjustable via water volume
Cleaning head:	RD (spray head combination S-RD-55)
Working pressure:	100 – 200 bar (1450 – 2900 psi)
Flow rate:	10 – 80 LPM (2.6 – 21.1 US gpm)
Max. temperature:	90 °C (194 °F)
Jet coverage:	360°
Nozzles:	4 pcs., 0° / 5° / 15°, 1/8"
Cleaning cycle:	depending on speed and degree of soiling
Connection:	M22 × 1.5 / G 1/2" male / G 3/8" male
Insertion opening:	larger than Ø 78 mm (3.07 inch)
Connecting pipe:	Ø 35 mm (1.38 inch), shaft length 140 – 4000 mm (5.5 – 157.5 inch)
Material head and pipe:	stainless steel 1.4301
Material drive:	stainless steel 1.4301
Seals:	FPM (Viton®) / EPDM / FDA
ATEX (2014/34/EU):	II 2 G Ex h IIC T6 … T1 Gb; II 2 D Ex h IIIC T40 °C … T90 °C Db
Item no.:	HRD.STD

Application example: cleaning an IBC



Variants

Shaft length:	in steps from 140 to 4000 mm; other shaft lengths on request
Speed:	factory-set to the high-pressure supply, adjustable via three flow control nozzles

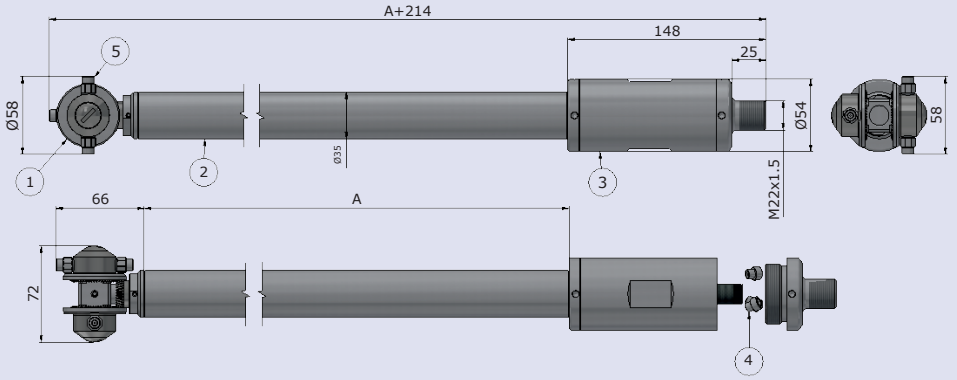
Maintenance

Nozzle cleaning:	with compressed air; for stubborn dirt, with a very thin metal rod
Nozzle replacement:	if required, with nozzles of the same type with identical nozzle opening
Filter screen:	in the drive inlet, clean regularly depending on soiling; replace a damaged screen
Maintenance interval:	approx. every 300 operating hours; replace all seals
Ball bearings:	replace with original bearings after 2,000 operating hours at the latest

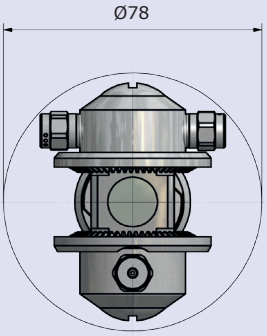
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Components and dimensions

Dimensions in mm



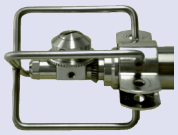
Minimum installation opening in mm



1 Spray head combination S-RD-55
2 Connecting pipe Ø 35 mm
3 Water drive (Viton)
4 Water drive nozzles
5 RD cleaning head nozzles

Length A	140 mm	170 mm	300 mm	500 mm	700 mm
Item no.	**HR-D-0140**	**HR-D-0170**	**HR-D-0300**	**HR-D-0500**	**HR-D-0700**
Length A	1000 mm	1500 mm	2000 mm	3000 mm	4000 mm
Item no.	**HR-D-1000**	**HR-D-1500**	**HR-D-2000**	**HR-D-3000**	**HR-D-4000**

Accessories and spare parts


Protective cage


Screw-in holder M64 × 4


Bunghole holder


Suspension bracket

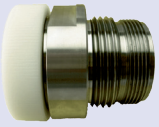

Double handle


Nozzles



Adapters M22 / M24 / NPT / 1/2"


Mounting flange


Barrel holder M64 × 4 / 2"


Sealing plug

Spare parts:	nozzles 0° / 5° / 15° (1/8"), seal kits, ball bearings, spray head combination S-RD-55, control nozzles for the water drive
Further accessories:	screw connections M48 × 1.5, M64 × 4 and 2", extension pipes 500 – 2000 mm (19.7 – 78.7 inch); anything else on request
Documentation:	operating instructions, spare parts overview, certificates, declaration of conformity

Safety instructions

- The tank cleaner is suitable exclusively for cleaning the inside of production, storage and transport tanks that may be treated with a high-pressure water jet with cleaning solution.
- The unit may only be operated with fresh water and with cleaning agents expressly approved by the manufacturer. The operating conditions and performance limits stated in this data sheet must be observed.
- The unit is technical work equipment and is not intended for private use. Intended use also includes proper transport and professional storage.
- The maintenance intervals depend on the operating time, pressure range, media temperature and cleaning agent used and must be determined individually during trial operation. The operator is responsible for observing the maintenance intervals.

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