

# High pressure cleaning of tanks

## Aquamat® Automatic tank cleaners

Hammelmann automatic tank cleaners remove deposits including hardened materials from tank internal walls at pressures of up to 1800 bar.

The units operate using the power of high pressure water so no other energy sources or extra cleaning materials are necessary.

The wide range of Hammelmann nozzle arms with various lengths and shapes enable the Aquamat® cleaners to be used for many applications. Units can be fitted with one or two arms.



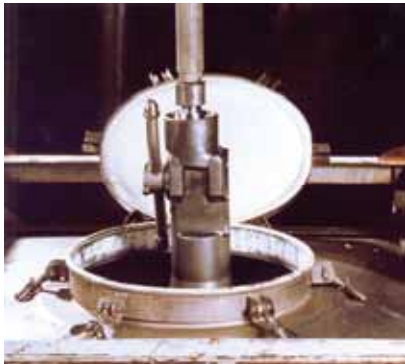
The nozzle arms rotate due to the reaction force of the water jets emitting from the nozzles mounted at each end.

This rotational motion is transferred via a built in drive and reduction gear which in turn rotates the cleaner around its vertical axis. By rotating in two axes the water jets can reach all parts of the tank interior.

Speed of rotation is controlled by an adjustable induction brake magnet.

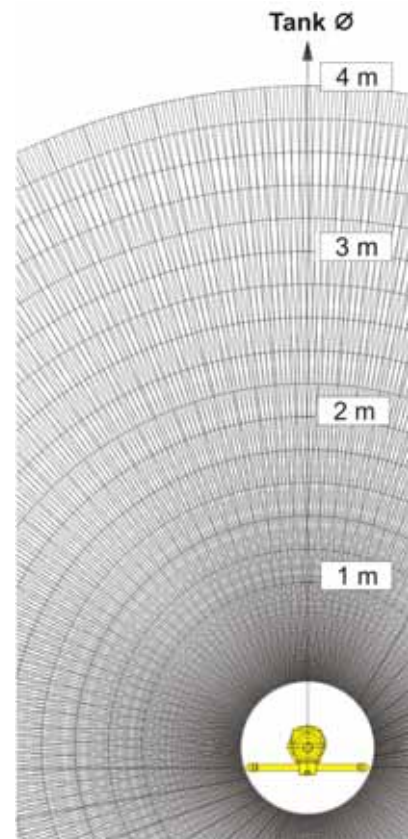
Special design features of the Aquamat® tank cleaner are:

- Optimum water flow characteristics
  - Strong cutting action
  - Highly coherent jet
  - Long jet throw
- Smooth, non wearing braking system
- Compact, corrosion resistant housing
  - Freely suspended operation possible
  - High reliability thanks to simple component parts



Applications:

- Internal cleaning of autoclaves, vessels, Euro containers, reactors, agitator vessels, holding tanks drying towers etc.
- Decontamination
- Disinfection (with chemical additives)
- Cleaning the interior of large diameter pipework with deployment sledge



Section of a single arm Aquamat® jetting pattern after 260 revolutions of the arm.

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Both the “L” and “XL” units can be outfitted with impact protection and the XL is also available with a protective cage.

Sledge assemblies will convert the “L” and “XL” to pipe cleaning units incorporating a unique “kick plate” which utilises the force of the water jet to push the unit forwards through the pipe.



Type  
**L 1800**  
18 mm S-arm, 2 nozzles  
max. 1800 bar / 150 l/min.  
Min. Tank access: 135 mm



Type **L 1200-2**  
**with sledge** for cleaning  
pipes with bends  
35 mm S-arm, 2 nozzles  
max. 1200 bar / 150 l/min.  
Min. Pipe -Ø: 210 mm



Type  
**XL 500-2**  
**Chemical version**  
35 mm lever arm, 2 nozzles  
max. 500 bar / 400 l/min.  
Min. Tank access: 170 mm

Here are some examples from our wide range:



Type  
**L 1200-2**  
18 mm S-arm, 2 nozzles  
max. 1200 bar / 150 l/min.  
Min. Tank access: 140 mm



Type  
**XL 1600-2**  
13 mm V-arm, 2 nozzles  
max. 1600 bar / 250 l/min.  
Min. Tank access: 190 mm



Type  
**XL 1600-2**  
**with protective**  
18 mm discarm, 2 nozzles  
max. 1600 bar / 250 l/min.  
Min. Tank access: 250 mm



Type  
**L 1200-2**  
**with impact protection**  
56 mm lever arm, 2 nozzles  
max. 1200 bar / 150 l/min.  
Min. Tank access: 190 mm



Type **XL 1600-2**  
**with sledge** for pipe cleaning  
35 mm S-arm, 2 nozzles  
max. 1600 bar / 250 l/min.  
Min. Pipe -Ø: 320 mm



Type  
**XXL 1600-2**  
56 mm lever arm, 2 nozzles  
max. 1600 bar / 500 l/min.  
Min. Tank access: 290 mm