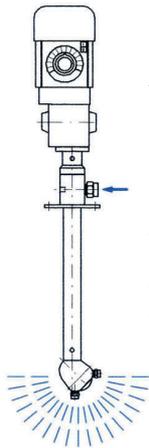
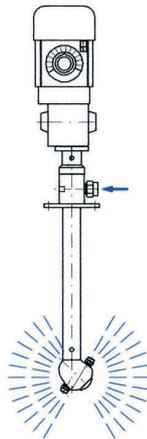


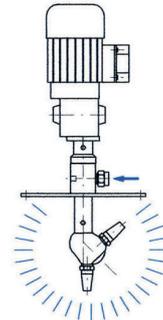
Illu. 1
LA-3D-Container internal cleaner
In sizes 30, 35, 40, 50 and 65; cleans closed containers 360° all around



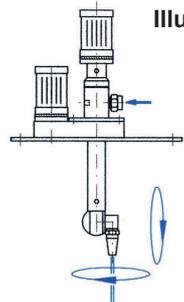
Illu. 2
AT-3D-Segment cleaner
In sizes 35 and 50; cleans containers open on one side at an selectable angle of 140°, 180° and 270°



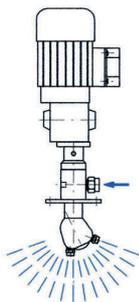
Illu. 3
AT-3D-Segment cleaner
In sizes 35 and 50; cleans containers or pipes open on two sides at an selectable angle of 90° or 120°



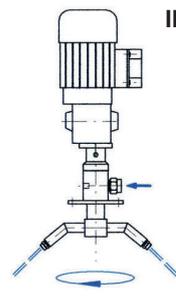
Illu. 4
AT 120 Large-scale container internal cleaner
Size 120, distance covered up to 60 m



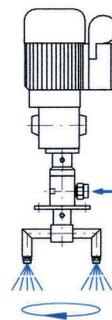
PE-3D Single-nozzle system
PC controlled, spray jet reaches (depending on programming) each point in the tank; size 50



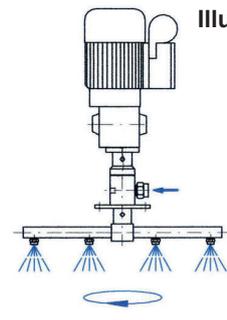
ATH-3D High-pressure area cleaner
In sizes 35 and 50; cleans immovable parts at an angle of 140° with maximum force of impact and little liquid



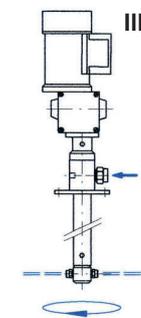
LFG Dirt cutter
In sizes 30, 35, 40, 50 and 65; cleans parts driven by with maximum force of impact



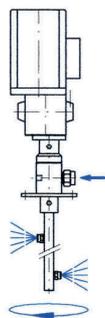
LFE Area cleaner
In sizes 30, 35 and 40; with teflon joint



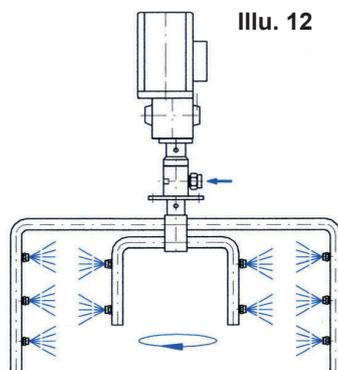
LFK Area cleaner
In sizes 40, 50 and 65; step bearing with stainl. steel ball joint, rigid design



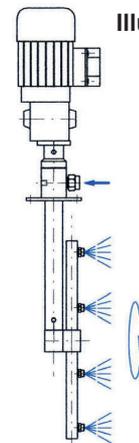
AR-Pipe cleaner
In sizes 30, 35, 40, 50 and 65; cleans pipes preferably at high-pressure (feed subject to installation site)



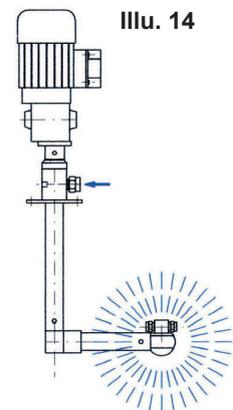
LFL Internal cleaner
In sizes 35 and 50; cleans insides; counterbearing required at specific pipe length



LFD Area cleaner with double pipe
In sizes 40, 50 and 65; cleans container simultaneously from inside and outside



LFW Area cleaner
In sizes 35 and 50, space-saving angled design



LAW-3D Container internal cleaner resp. ATW-3D segment cleaner
With angled propulsion, in sizes 35 and 50

Advantages:

- There are 6 different design sizes. The modular system guarantees for an excellent price-performance ratio.
- Large propulsion variety (12-400 volt) with cleaning process adapted, constant and variable rotation velocity (U/min. 11, 14, 20, 28, 56, 112).
- With various mounting options (flange etc.)
- Pneumatic propulsion or self-propulsion via the cleaning detergent (on request)
- Form, length and nozzle equipping of the cleaner head resp. rotary arm are adjusted according to pump capacity and the part to be cleaned.
- Delivery in order to be screwed into your pipearms on site is possible.
- All aquiferous parts are made from stainless steel.
- Perfected, long-life high-tech joints and seals (max. temperature 94° resp. 150°)
- ATEX-designs and FDA-admission on request
- For sterile environments, a patented rinsing of the cleaner head resp. the rotary arm's joint is available.

Performance data

Size	Max. l/min.	Min - max p (bar)
30	20	1 - 250
35	30	1 - 250
40	50	1 - 200
50	100	1 - 200
65	280	1 - 100
120	2,000	4 - 40

Pressure up to 400 bar and further details on request!