

Autonomous Manipulator for Decontamination Assignments - AMANDA I

Autonomously Climbing Manipulator

- The autonomously climbing manipulator AMANDA I is a machine for decontamination assignments on wall and ceiling surfaces.
- Modern vacuum technology provides the connection between the manipulator and the object to be treated.
- Primary use of AMANDA I is the decommissioning of nuclear facilities.

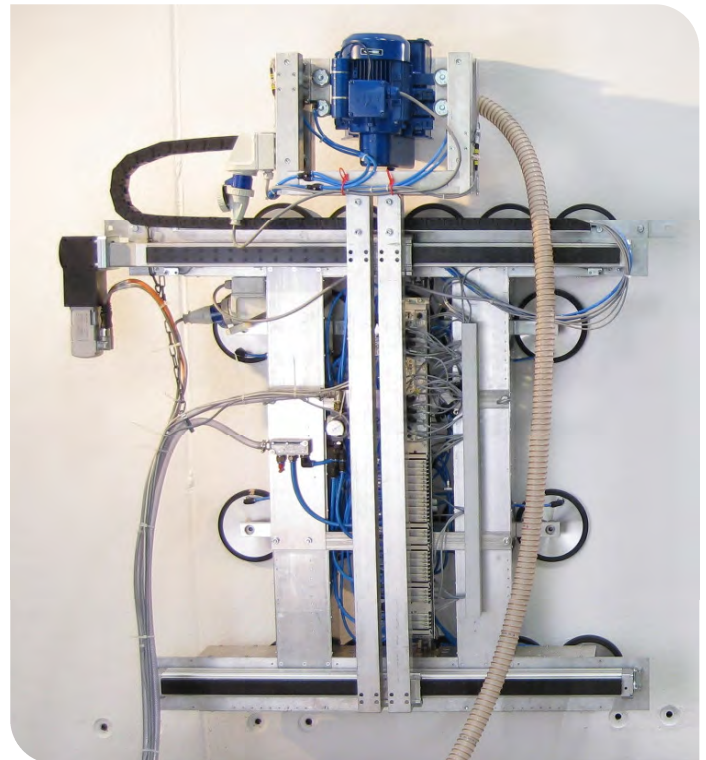


Manipulator Processing Head

- In order to be able to process the surface according to the requirements, AMANDA is equipped with a milling attachment.

Advantages of the Manipulator

- applicable with high flexibility
- compact design and on demand accuracy
- attachment selectable (e.g. milling attachment, core drilling machine, etc.)
- minimized labor utilization
- remote controlled
- cost efficient (no scaffolding needed)
- especially suited for high and large rooms

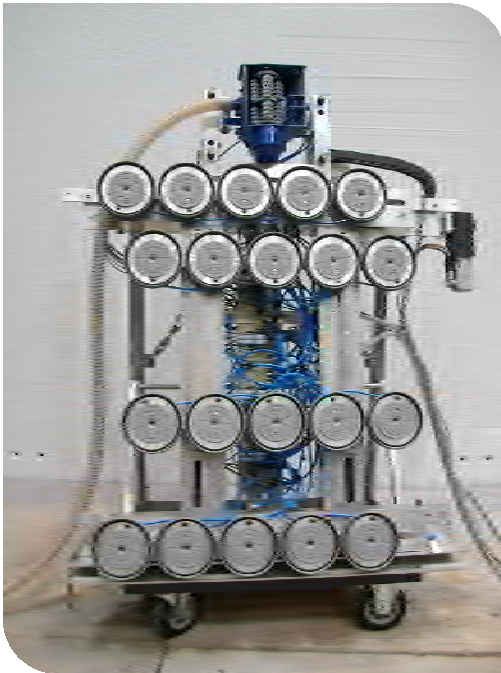


Karlsruhe Institute of Technology (KIT)
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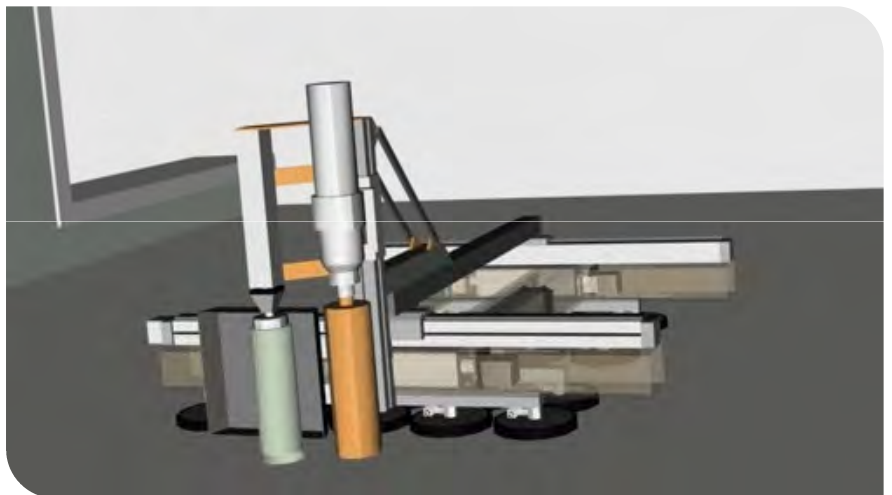


Technical Facts and Figures

- Dimensions: 1,30 m x 1,30 m
- Weight: 290 kg approx.
- Performance: 6m² to 8m², Depending on Motion Pattern
- Labor: 1 Operator
- Energy Supply: Pressurized Air
 - Milling Attachment 200m³/h
 - Ejector Pipe 11m³/h
 - Power Supply 400 V
- Wearing Parts: Suction Plates - Robust, Easy to Change
Milling Discs – Minimized Waste

Alternative Attachments

- Core Drilling Machine
- Device for Characterization
(Release Measurement)



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