

AD41 is the first combined liquid-controlled dispensing and variable pressure system for SPE processing all in one process controllable unit.



SOLID PHASE EXTRACTION (SPE) – The New “AD41”

Solid-phase extraction (SPE) has emerged as the preferred method for sample clean-up and trace enrichment across various sectors, including pharmaceutical, clinical, food, and environmental analysis.

Positive Pressure Processors for Solid-Phase Extraction (SPE) sample processing significantly improves the flow of viscous samples through SPE-packed beds by providing highly uniform flow from well-to-well.

Volume range from 0.5 μ L - 1000 μ L with low CV and high accuracy

Four Steps to Solid Phase Extraction:

Conditioning: This step prepares the cartridge for accepting the target analyte by priming it.

Sample loading: The sample is loaded onto the cartridge at an appropriate flow rate, allowing the target analytes to be adsorbed or collected by the adsorbent.

Washing: The cartridge is rinsed with a solvent or pure water to remove interferences that were not retained by the adsorbent. Additional rinses can be performed using solvents of increasing polarity (e.g., 5%, 10%, 20%, 100%) to remove compounds based on decreasing polarity.

Elution: This step releases the analytes from the adsorbent, typically using an elution solvent or a combination of solvents.

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Applications of SPE

- Pharmaceutical Analysis.
- Environmental Testing.
- Food and Beverage Industry.
- Forensic Science.

Wildcat Laboratory Solutions are very excited that we have been able to work with the team at Almond designs and to have partnered up with them for their operations in Europe/ Scandinavia and the UK.

Delivers uniform, controlled pressure evenly to individual wells (96 wells)

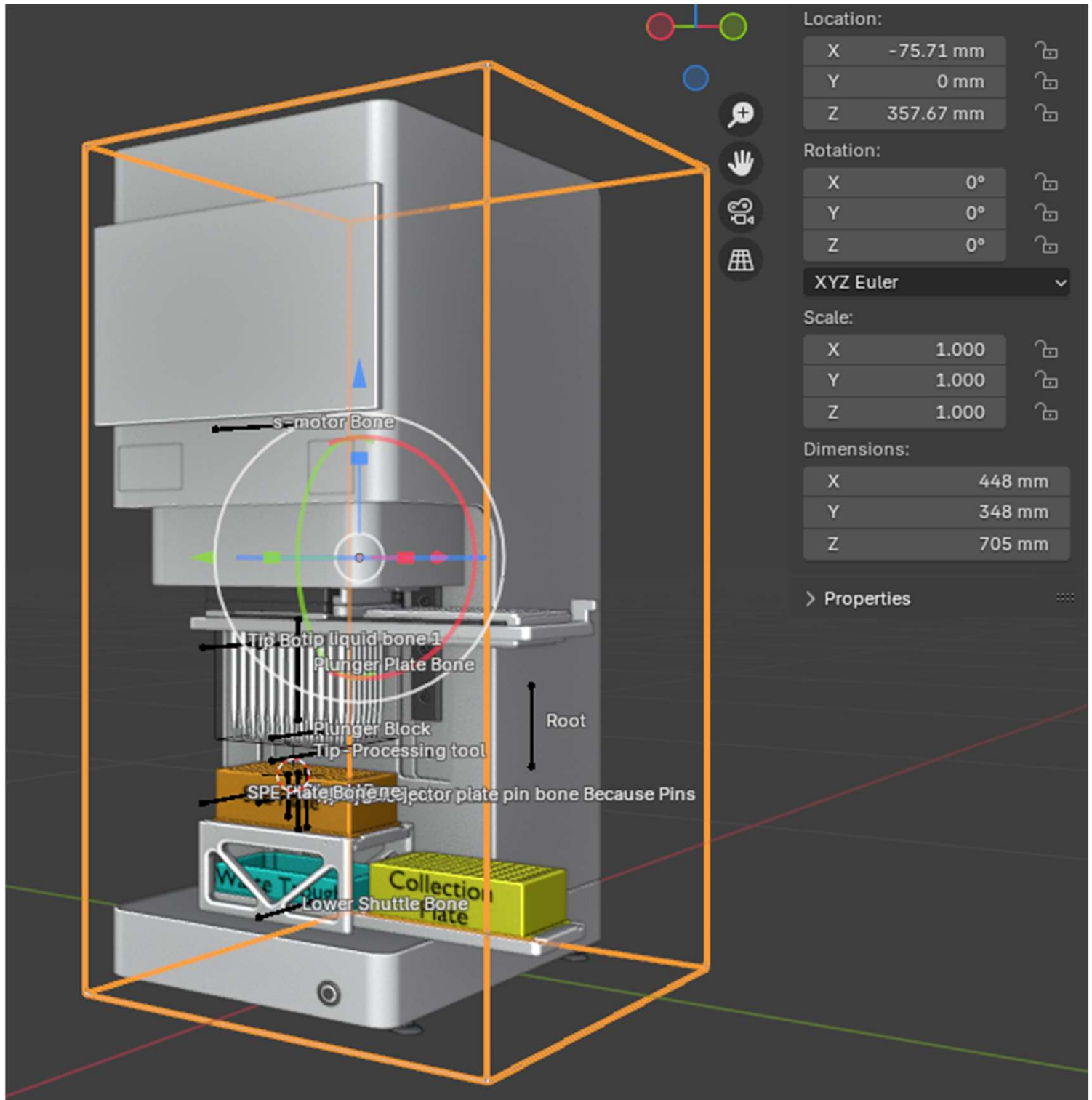
Almond Designs and Ro-Biotx introduces the AD41, a groundbreaking product in the solid phase extraction (SPE) application space. Recognizing the need for a custom SPE solution for environmental analysis, pharmaceutical analysis, and forensic science, the team at Almond Designs utilized their extensive experience in biotech, life sciences, and pharmaceutical industries. The AD41 eliminates the need for equipment such as a positive pressure manifold to deliver uniform and controlled pressure. Its unique engineering ensures consistent flow rates through the SPE cartridges, yielding reproducible results and higher recoveries.

Almond Designs and Ro-Biotx are committed to demonstrate that revolutionizing productivity solutions within biotech, life sciences, and pharmaceutical research processes. We invite you to envision the possibilities that can be achieved by addressing pain points and collaborating with a team renowned for their expertise in designing solutions tailored to meet specific needs.



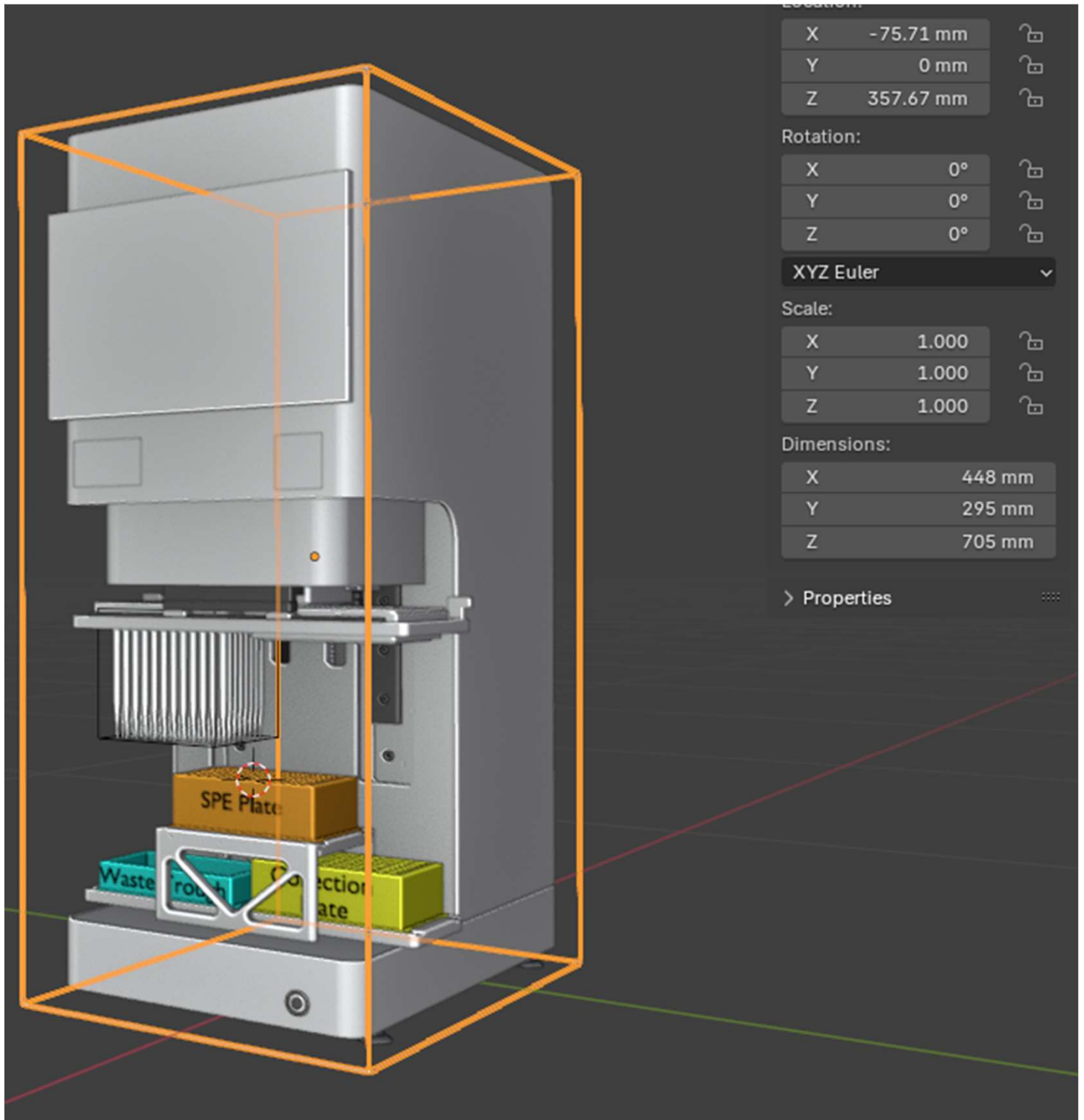
Applications of AD41

Operational footprint



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