

Meeting aseptic challenges: 3P innovation's success with Asyril and the Asycube Clean 230

3P innovation adopts Asycube Clean 230 to bring flexibility to aseptic manufacturing

Sector



Medical industry &
Life Sciences

Application



Assembly





3-Axis Vibration Technology
Innovation by asyri!l

End customer



3P innovation is a leading provider of advanced automation solutions and processes for the pharmaceutical and medical device industries.

“Traditional component feeding technologies for sterile applications have been struggling to meet the demands of regulators for many years, particularly with the latest Annex 1 regulations. Traditional methods force compromises to be made which increase risk of contamination of critical components. Asyri!l's Asycube product is a long overdue and welcome introduction to the pharmaceutical industry, enabling a new era of flexible, high sterility assurance component feeding”

Alex Jezequel, Projects Director

Integrated product

- Asycube Clean 230



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The challenge

- Small batch manufacturing: batch sizes in the pharmaceutical industry are becoming increasingly smaller. Blockbuster drugs are less common or require less specialized handling.
- Low volume production: addressing the needs of rare disease treatments and personalized healthcare, requiring frequent changeovers.
- High sterility requirements: the pharmaceutical industry must comply with strict standards, including GMP Annex 1 regulations.
- Safety: robot-assisted environments ensure safer operations with no direct human contact, especially in pharmaceutical settings.

The solution

- The Asycube Clean 230 was selected for its gentle component separation, enabled by patented 3-axis vibration technology, and its full compatibility with aseptic, sterile and pharmaceutical environments.
- In this specific case two Asycube Clean 230 were integrated by 3P Innovation in a compact solution to feed the stoppers and caps.
- The Stäubli Stericlean robot was selected for its high precision, reliability, and full compatibility with sterile and pharmaceutical environments.
- The combination of the Asycube Clean 230 and the Stäubli Stericlean Robot enable the automatic process of filling, stoppering, capping and crimping.

Advantages

- Market expansion: aseptic-ready feeder Asycube Clean 230 enables entry into sterile and cleanroom manufacturing.
- Sterility assurance: FDA-compliant material and easy-to-clean design minimizes contamination risk.
- RTP compatible: Asycube platform made of PEEK supports sterile transfer processes and is compact enough to be transferred inside the isolator through Rapid Transfer Port (RTP).
- Flexibility: fast product changeovers with quick reprogramming.
- Adaptability: handles diverse components without custom tooling.
- Precision & care: accurate pick-and-place with gentle vibrations.



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