

Micro assembly of electrode connectors for complex catheter devices

Compact and precise solution developed by Arimation for Cretex Medical

Sector



Medical & Pharmaceutical

Application



Assembly





3-Axis Vibration Technology
Innovation by asyril

Arimation
ROBOTICS

Specialised in machine design, industrial robotics, PLC & HMI programming, and vision systems, Arimation Robotics solves complex engineering challenges through automation.

End customer

CRETEX
Medical

Cretex Medical provides medical device manufacturing and engineering services so their customers can reduce risk and save time.

"It is well-known that miniaturization of medical devices will drive the next generation of technology. We see this really small precision level of automation as transferable to almost all aspects of our company."

Jeremy Glynn, General Manager
of Cretex Medical, Laser Division

Integrated products

- EYE+ smart control system
- Asycube 50 flexible feeding system



asyril Experts in
Flexible Feeding Systems

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The challenge

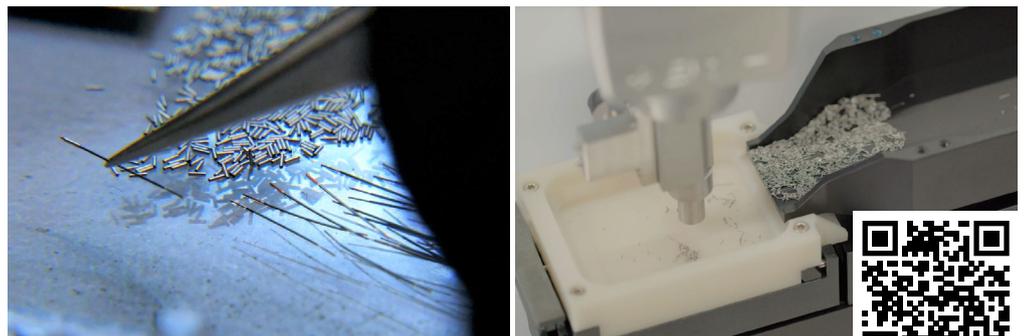
- Assemble a critical component that is no bigger than an eyelash for a complex catheter subassembly.
- Improve the health of the assembly team by automating a physically and mentally challenging process.
- Scale up production to meet the growing demand for this component without consuming additional cleanroom space.

The solution

- Meca500, the six-axis robot from Mecademic, selected for its small footprint and 0.005 micron repeatability for precision automation.
- Asycube 50 flexible feeding system with EYE+ smart control system from Asyril, built for tiny components and flexibility.
- Custom wire feeding and cutting solution to accurately and consistently manipulate 0.1 mm thick wire.

Advantages

- Improved workforce health by shifting the assembly team to ergonomically healthy positions.
- Highly compact automated solution reducing machine footprint by 75% in an expensive cleanroom environment where every cm counts.
- Increased throughput and higher yield thanks to a consistent, high-quality assembly.



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