

Hong Kong-based startup Agilis Robotics set to transform endoscopic surgery

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Targeting 510(k) clearance by 2025 to transform endoscopic surgery



Agilis Robotics, an innovative spin-off company from The University of Hong Kong, is making waves in the realm of endoscopic surgery with its flexible robotic arms. Their creation showcases highly miniaturised and flexible endoscopic surgical robotic arms, making it a game-changer for endoluminal surgery for medical practitioners and patients alike.

The most noteworthy characteristic of the system is its unparalleled flexibility. With 5 degrees of freedom per arm and a totally flexible body, it allows surgeons to execute complex procedures of tissue resection with great precision and ease inside natural orifices.

Another standout quality of the system by Agilis Robotics is its affordability. The system consists of a control console with disposable robot arms and accessories. Due to being directly compatible with conventional rigid and flexible endoscopes already in use by hospitals, the system can be low-cost and compact. No large upfront investment in operating theatre design and machinery procurement is required. By providing a low-cost option, Agilis Robotics will make robot-assisted endoscopic surgeries more accessible to hospitals and clinics globally, improving patient outcomes and reducing healthcare costs.

With these promising results under its belt, Agilis Robotics is setting its sights on obtaining FDA 510(k) clearance by 2025. This clearance would allow the company to market its robotic system, and further realize its ambition to make impactful change in endoscopic surgery.