



SVAN Technologies

WE DEVELOP INTELLIGENT SURGICAL DRILLS THAT KNOW WHEN TO STOP.

SVAN develops intelligent surgical drilling technology with a precise automatic stop function to prevent accidental perforation of critical anatomical structures. Using real-time sensing of tissue resistance in a closed-loop system, the drill detects transitions between tissue layers and automatically stops at the target tissue faster than human reflexes. This significantly reduces the risk of nerve and organ injury, particularly in high-risk applications such as neonatal emergency bone access. The technology is designed as a versatile platform that can be integrated into surgical drills, emergency infusion devices, and future robotic systems. Preclinical studies demonstrate a high first-attempt success rate and a substantial increase in procedural safety.

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