

CASE STUDY

TITAN MEDICAL'S PRECISE ROBOTIC SURGICAL SYSTEM

Minimizing Patient Recovery Times and Costs With a Mobile, Precise Robotic Surgical System

Veranex developed a mobile, single-port robotic surgical system from a napkin sketch to a functional prototype.

▶ The Problem

Robotic laparoscopic surgery allows surgeons to precisely operate on their patients through small incisions, reducing scarring, accelerating patient recovery times, and decreasing overall risk. However, typical surgical robotic systems are large and inflexible. As such, they cannot be moved between operating rooms, and often require repositions or multiple incisions to operate effectively — making these procedures less accessible.

▶ The Background

Titan Medical Inc. is a Canadian public company, headquartered in Toronto, Ontario, focused on the design, development, and commercialization of new robotic surgical technologies. Titan Medical aspires to tackle the current clinical, operational, and financial limitations of the robotic platforms in the robotic surgery market. Current robotic technology is cost prohibitive for secondary and tertiary hospitals, as well as for ambulatory surgery centers, and is confined to a limited number of surgical procedures, such as hysterectomies and prostatectomies. Titan quickly turned to Veranex to reduce technical risk and develop a precise and usable device.

Titan Medical relied on Veranex's hands-on experience in:

- Concept Generation
- Human-Centric Design
- Pre-Production Prototype Development
- Mechanical Engineering

ABOUT VERANEX

Veranex is the only truly comprehensive, global, tech-enabled service provider dedicated to the medical technology industry. Offering expert guidance from concept through to commercialization and across the development continuum, Veranex enables accelerated speed to market, controlled development costs, development risk mitigation, and accelerated market viability assessment.

At every stage, Veranex customers realize efficiencies in cost and time, while our integrated and comprehensive solutions unify the entire development process. With Veranex as your end-to-end partner, you're well-positioned to deliver the safest, most effective devices to improve outcomes to patients everywhere.