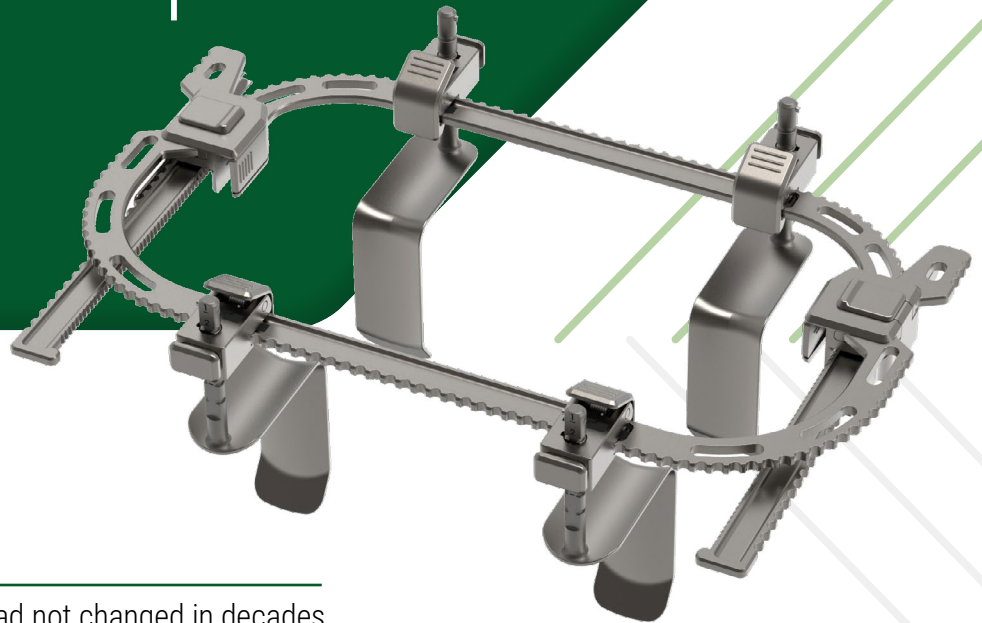




CASE STUDY



## TITAN CSR®

### THE OPPORTUNITY

Existing abdominal retractor technology had not changed in decades with most surgeons using the industry standard Balfour and Bookwalter retractors. Neither retractor had been redesigned for many years and had several drawbacks.

### THE SOLUTION

Our team partnered with Advanced Surgical Retractor Systems, Inc. (ASR Systems), a medical device manufacturer led by a military trauma surgeon and a veteran medical device entrepreneur, to design a novel surgical retractor to be used in invasive abdominal surgeries, called laparotomies. The team at ASR Systems had identified a need to improve upon outdated abdominal retractor technology for a variety of surgical disciplines and deliver a tool that that would be specifically designed to meet the needs of trauma and military field surgeons.

### THE RESULTS

Our team moved through a six-step process to design, develop and manufacture the TITAN CSR®, collaborating with our clients at ASR Systems and partners every step of the way. The end result is a lightweight, intuitive surgical retractor as simple and fast as a Balfour with the range of functionality of the Bookwalter.



*"The TITAN was very efficient and easy to use. There was little to no set-up time with separate retractors or table mount allowing for a quicker evaluation for intraabdominal injuries compared to historical retractors. I would highly recommend this piece of equipment to be in every trauma OR."*

- Trauma/General Surgeon, Level 1 Trauma Center



### SERVICES

- Research + Market Analysis
- Industrial Design
- Engineering
- Prototyping
- Manufacturing
- Testing + Analysis

LET'S CONNECT



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