

Rapid Retraction. Superior Exposure. No Table Attachment.



# "The TITAN CSR<sup>®</sup> retractor simply makes me a better surgeon."

Trauma Surgeon, Level 1 Trauma Center

- Exposure in less than one minute through rapid setup for abdominal wall retraction and superior retroperitoneal exposure with fewer personnel.
- Optimizes exposure in emergency surgeries where the patient setting may not support table-mounted retractors: hybrid O.R., ICU bedside laparotomies, trauma bays, and MIS cases that require conversion to laparotomy.
- Potential for improved patient outcomes due to superior exposure, faster hemorrhage control, and reduced O.R. times.
- Meets AAMI and AORN tray weight guidelines for improved ergonomics through lightweight titanium construction.

I expect the TITAN CSR<sup>®</sup> surgical retractor will significantly change the future of trauma and emergency operations, ultimately improving patient outcomes.

Brian Eastridge, MD FACS Internationally renowned civilian and military trauma surgeon

## **Two Retractors In One**

The TITAN CSR<sup>®</sup> retractor's Post-Free<sup>™</sup> design combines the speed of the Balfour with the improved exposure of the Bookwalter<sup>®\*</sup>, all without the need to attach to the surgical table.



Balfour

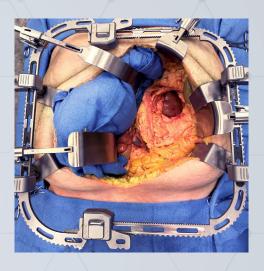


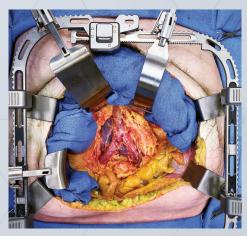
TITAN CSR<sup>®</sup> Retractor



TITAN CSR<sup>®</sup> with Bookwalter<sup>®\*</sup> blades

\*The Bookwalter® trademark is a registered trademark of Symmetry Surgical, Inc., and ASR Systems makes no claim to it. ASR Systems is not an authorized seller of Bookwalter® branded products.





When every minute counts, the TITAN CSR® retractor is a truly useful tool that saved me 15 minutes when my patient was exsanguinating and required rapid control of massive bleeding.

> Trauma Surgeon Level 1 Trauma Center

# "The TITAN CSR® retractor just makes my job easier."

General Surgeon, Community Medical Center

- Significant cost savings attributable to reduced O.R. time, decreased SPD reprocessing costs, and more efficient use of O.R. resources.
  - Reduces retractor setup time by ~15 minutes, providing more rapid abdominal access.
  - Cumulatively saves up to 30 minutes in the O.R., improving overall efficiency and providing extra O.R. revenue opportunities resulting in potential cost savings up to \$3,400 per case. (O.R. costs \$113/min)
  - Compared to over \$3,000 in potential single-use disposable costs using energy-based tissue sealing devices, GIA staplers/reloads, hemostasis adjuncts, and damage control closure products, the cost of TITAN CSR<sup>®</sup> retractor use is under \$20 per laparotomy (5 laparotomies/week, 10yr timeframe).
  - Fewer parts to clean and count, reducing the number of surgical trays per case.
- Reduces staff needed in the operating room, minimizing personnel costs and optimizing use of O.R. resources.
- Minimizes need for handheld retractors which reduces risk of staff injury while providing ergonomic benefit.\*\*
- Can be used by multiple service lines (trauma, general surgery, vascular, etc.), allowing streamlining of SPD inventory to one retractor.

# At an average O.R. cost per minute of \$113, estimated O.R. savings in excess of \$500K annually



\*\* Safe Patient Handling and Movement Series: AORN Ergonomic Tool 5: Tissue Retraction in the Perioperative Setting Patrice Spera, MS, RN, CNOR; et al, AORN Journal, July 2011 Vol 94 No 1

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#### **REVOLUTIONIZING SURGICAL RETRACTION™**



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