

Rapid Retraction. Superior Exposure. No Table Attachment.



"The TITAN CSR[®] 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[®] 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[®] retractor's Post-Free[™] design combines the speed of the Balfour with the improved exposure of the Bookwalter^{®*}, all without the need to attach to the surgical table.



Balfour

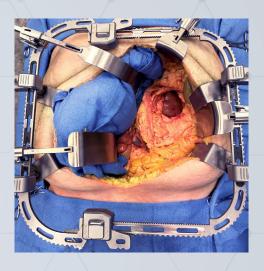


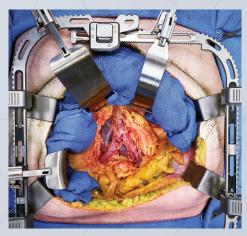
TITAN CSR[®] Retractor



TITAN CSR[®] with Bookwalter^{®*} 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[®] 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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