Passion for Patient Safety in the Surgical Suite™

Featuring NO-SLIDE™ Trendelenburg positioning
for MIS & Robotic Surgery

TrenGuard®
Trendelenburg Patient Restraint

- **Patients DO NOT slide**

  The patented bolster is snug in the concavity of the neck, in contact with the trapezius muscle, and is clinically proven[1] to stop patient sliding

- **No shoulder braces**

  Non-structural foam lateral stabilizing pillows help control body mass shift and alignment during transition from supine into steep Trendelenburg

- **Versatile**

  Secures patients from 90 lb (41 kg) to 550 lb (250 kg) in steep Trendelenburg up to 40°
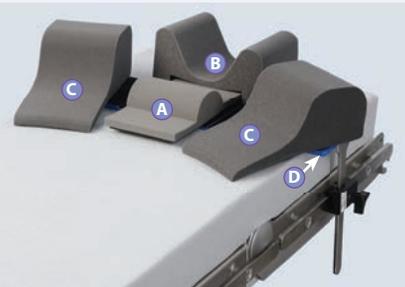
- **Easy to use**

  You can set up the equipment and position the patient in less than three minutes *and* easily reposition the patient

- **Compatible**

  Accommodates under-patient accessories including air transfer devices, patient-warming, and grounding pads
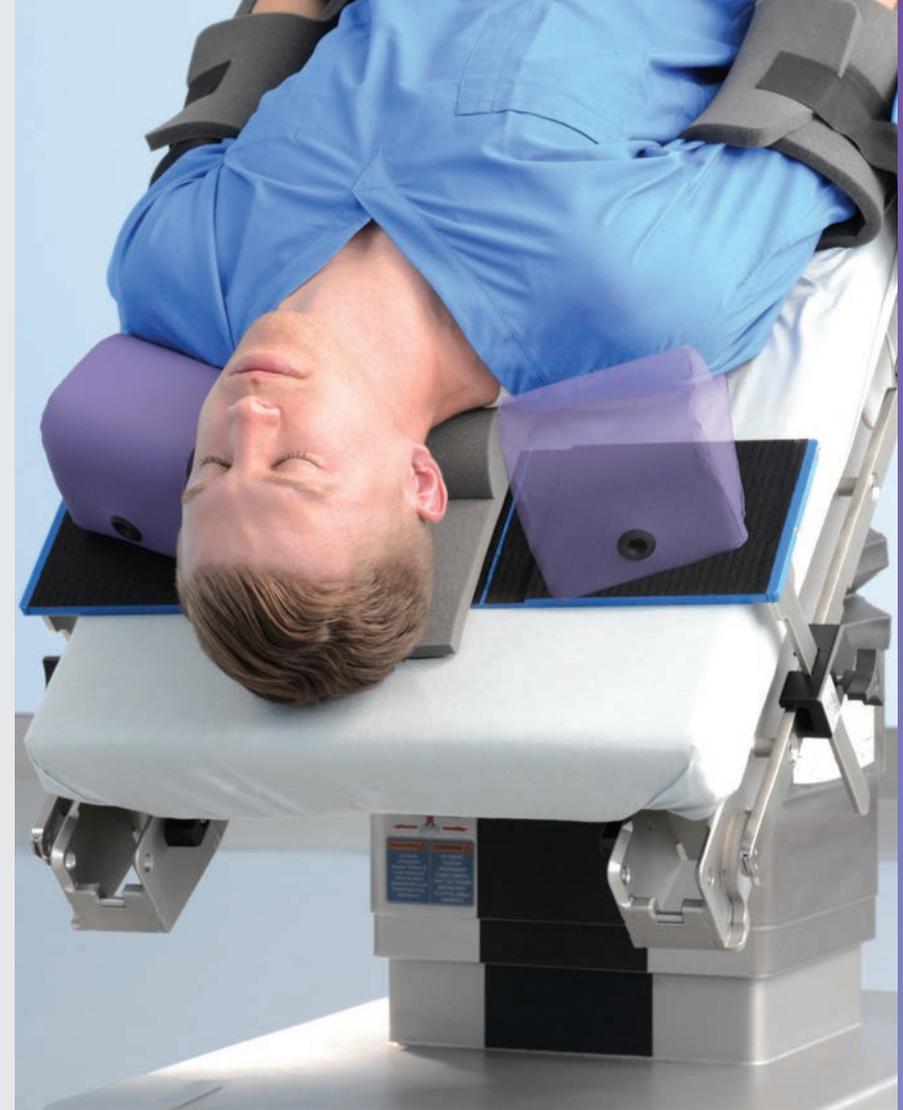
TrenGuard is comprised of components that attach to a frame that clamps to the O.R. table accessory rails.

A Patented bolster
B Soft head stabilizing pillow
C Soft lateral stabilizing pillows
D **TrenGuard** Patient Support Frame

Used in over 500,000 procedures with no attributed patient sliding or post-operative pain[2]

[1]Barber, Jan, BSN, RN, "Preventing Patient Sliding in Steep Trendelenburg," O.R. Manager Conference, Sept, 2016.
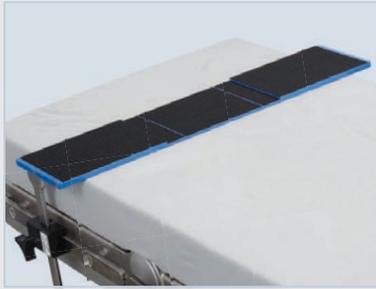[2]Post market surveillance.

"With TrenGuard, patients don't slide."
Dr. "Mini" Somasundaram, MD, GYN Robotics Surgeon, Columbus, Ohio

Patient Safety for MIS & Robotic Surgery

It is a safety imperative that patients do not slide during robotic surgery. As described by Dr. Ghomi[3], patient slippage during the use of fixed robotic trocars creates a serious potential for patient risk.

[3]Ghomi, A MD, "Robotics in practice: New angles on safer positioning," Contemporary OB/GYN, Oct. 1, 2012.

Advanced Patient Positioning for MIS & Robotic Surgery

TrenGuard®
Trendelenburg Patient Restraint

TrenGuard Patient Support Frame
- Compatible with all TrenGuard products
- Secures to table with blade-style rail clamps
- Use with TrenGuard procedure packs to support patients in extreme Trendelenburg up to 40°
- Available in Standard, Wide, and Bariatric frame sizes for various O.R. table widths
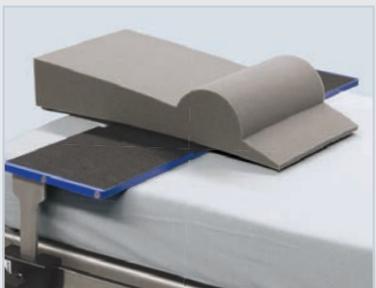

TrenGuard Dynamic Patient Support Frame
- Swivel legs enable frame to be positioned after patient transfer and atop under-patient devices such as:
  - warming/cooling systems
  - air-assisted transfer devices
  - pressure management surfaces
  - grounding pads
- Secures to table with socket-style rail clamps (sold separately)

TrenGuard CLASSIC Pack
- Available in two sizes to support patients weighing up to 550 lb (250 kg)
- Bolster keeps patients from sliding
- No shoulder braces
- Lateral stabilizing pillows control body mass shift

TrenGuard Wedge Pack
- Developed for patients with cervical fusions, arthritis, or otherwise present with an indiscernible cervical curve
- Increases the bolster's ability to prevent sliding for patients with BMI over 30
- Available in Solo, CLASSIC, or HYBRID Packs in two sizes for patients weighing up to 550 lb (250 kg)

GO GREEN with TrenGuard® HYBRID

HYBRID versions of TrenGuard components utilize reusable lateral stabilizing pillows in order to lower procedural costs, improve operative efficiency, reduce medical waste, and minimize required storage space.

TrenGuard HYBRID Lateral Stabilizing Pillows
- Non-structural lateral stabilizing pillows are washable & reusable
- Each set can be used up to 500 times before replacement is recommended
- Use with TrenGuard HYBRID Packs

TrenGuard HYBRID Pack
- Lower cost per procedure
- Less medical waste, less storage space required
- Use with Multi-Use HYBRID Lateral Stabilizing Pillows
- Available with standard bolster or wedge in two sizes for patients weighing up to 550 lb (250 kg)

Clamps

Blade-Style Rail Clamp
Use with TrenGuard Standard, Wide, and Bariatric frames, FaceGuard, ArmGuard Rail-Mounted Sled, and other accessories with flat, 1.0x0.375 in (2.5x0.95 cm) mounting blades

Socket-Style Rail Clamp
Use with TrenGuard Dynamic Frame and other accessories with round, 0.625 in (1.6 cm) diameter mounting posts – rated for > 550 lb (250 kg)

Advanced Patient Positioning for MIS & Robotic Surgery

ArmGuard®
Patient Arm Protector

ArmGuard is the optimal choice for securing patient arms in the supine position. AORN cautions against tucking patient arms at their sides using draw sheets. ArmGuard Patient Arm Protector provides two options for safe and efficient arms-to-side positioning.

• The ArmGuard pad system provides emergency access for purging ports and tracing lines
• Simple and easy setup
• Arm compression is easily controlled
• Low-profile sleds minimize interference with robot arms
• Each style sled accommodates all ArmGuard Packs

515 lb (234 kg) model shown with ArmGuard Bariatric Sled, BASIC ArmGuard Pack pad, and Width Extender accessory pad.

160 lb (73 kg) model shown with ArmGuard Rail-Mounted Sled and ArmGuard STANDARD Pack pad, which covers the hands and fingers.

• Easy line access

ArmGuard features a gap that grants immediate access to antecubital ports and lines; straps allow quick and easy access to the entire length of the arm

• Control arm compression

Width-adjustable to accommodate a broad range of patient sizes

• Rail-Mounted

Rail-Mounted ArmGuard Sled aids in supporting patients in lateral tilt of up to 15°, useful for colorectal surgery and other procedures

• Robotic surgery

Low-profile sleds are comfortable for bedside assistant and prevent clashing with robotic arms

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ArmGuard Classic Sled Kit
• Low-profile for maximum surgical access
• Includes two Standard Sleds and two Bariatric Sleds
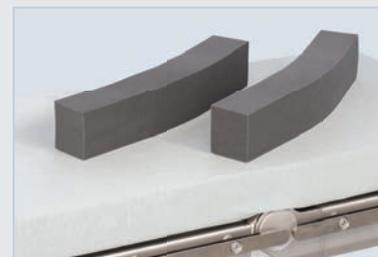• Used with all ArmGuard Procedure Packs

ArmGuard Rail-Mounted Sled Kit
• Low-profile for maximum surgical access
• Width-adjustable to fit bariatric patients
• Aids in lateral tilt
• Secures to O.R. table accessory rail with blade-style rail clamps
• Used with all ArmGuard Procedure Packs

BASIC Length

ArmGuard Pack
• Available in BASIC and STANDARD lengths
• Secures arms without tucking
• Allows quick access to entire arm
• Completely covers hand
• Used with all ArmGuard Sleds

ArmGuard Width Extender Pack
• Bariatric accessory pad for high-BMI patients
• Supports the patient's arm
• Two sizes available to fit mattress thickness
• Used with Bariatric and Rail-Mounted ArmGuard Sleds

Advanced Patient Positioning for Supine

FaceGuard®
Head Shield / Instrument Tray

- **Protects face**

  FaceGuard ensures patient protection while providing a convenient surface for surgical instruments
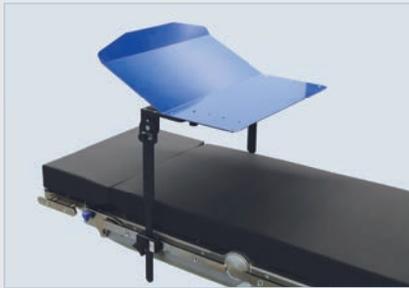
- **Fits all tables**

  The frame is width-adjustable to fit all surgical table models

- **Allows easy airway access**

  Adjustable, sliding instrument tray allows unobstructed view and can be quickly removed in an emergency

- **Available in Dual-Angle or Flat Tray**

The Dual-Angle Tray was designed to suit the needs of conventional laparoscopic and robotic surgeons, by offering a flat working surface in supine and Trendelenburg positions.

The Flat Tray can be used for many supine and prone procedures such as cardiac, orthopedics, and other specialties to replace or supplement the Mayo stand.

"I'm happy to **recommend FaceGuard** to my customers. The legs of the frame can be adjusted to fit wider O.R. tables and they can be clamped to the accessory rail toward anesthesia or toward the patient's chest, because the tray slides forward and back. **No other head shield device is as versatile!**"

–Austin, O.R. Consultant; Dallas, TX

ShroudGuard®
OR Table Pedestal Protector

Prevent expensive shroud damage and keep tables in service with ShroudGuard.

- Protects against damage caused by equipment placed on O.R. table base
- Securely mounts with no modification to table; easily removed for cleaning
- Sturdy stainless steel construction

". . . high-quality device . . . **durable, easy to install and remove** for thorough cleaning with minimal effort. The money and time saved by preventing damages to bed columns and other equipment has paid for the ShroudGuard in full . . . I would **highly recommend this product and company** . . . "

–Robotic, Vascular Charge Nurse; St. Luke's

"We have **20 tables** at our regional trauma center. All are **protected by ShroudGuard**, which has proven to be very **effective in eliminating damage** to the shroud, **reducing cost and downtime** ... because of needless repairs."

–Glenn, O.R. Equipment Coordinator; Erie, PA

". . . [with] ShroudGuard, we have had zero failures and zero damage . . . **saved us at least $100,000** . . . **very easy to install and take off** for sanitation reasons. The staff in the O.R. love the system . . . "

–Medical Systems Engineering Tech II; Summerlin Hospital Medical Center

". . . **a true Godsend! . . . Great invention!** "

–Biomedical Engineering; St. Alphonsus

Advanced Patient Positioning & OR Table Accessories

TrenGuard® Trendelenburg Patient Restraint

TRENGUARD PATIENT SUPPORT FRAME

Use with TrenGuard Packs and accessories

Requires rail clamps, sold separately

56100 TrenGuard Patient Support Frame – up to 24.0 in (60.9 cm) rail-to-rail

56929 TrenGuard Patient Support Frame Wide – up to 27.5 in (69.8 cm) rail-to-rail

56949 TrenGuard Patient Support Frame Bariatric – 26.25-30.5 in (66.7-77.4 cm) rail-to-rail

56400 TrenGuard Dynamic Patient Support Frame – up to 23.8 in (60.4 cm) rail-to-rail

TRENGUARD CLASSIC PACKS *(case of 12)*

Each single-use pack contains: bolster, head stabilizing pillow, and two lateral stabilizing pillows

Use with Patient Support Frame

55101 TrenGuard 450 CLASSIC Packs – maximum patient weight of 450 lb (204 kg)

56101 TrenGuard 600 CLASSIC Packs – maximum patient weight of 550 lb (250 kg)

TRENGUARD CLASSIC WEDGE PACKS *(case of 12)*

Each single-use pack contains: wedge bolster, head stabilizing pillow, and two lateral stabilizing pillows

55301 TrenGuard 450 CLASSIC Wedge Packs

56302 TrenGuard 600 CLASSIC Wedge Packs

TRENGUARD SOLO WEDGE PACKS *(case of 12)*

Each single-use pack contains: wedge bolster

54612 TrenGuard 450 Solo Wedge Packs

54812 TrenGuard 600 Solo Wedge Packs

TRENGUARD HYBRID REUSABLE LATERAL STABILIZING PILLOW

Use with single-use HYBRID Packs & Patient Support Frame

55251 TrenGuard 450 HYBRID Reusable Lateral Stabilizing Pillow

56251 TrenGuard 600 HYBRID Reusable Lateral Stabilizing Pillow

TRENGUARD HYBRID PACKS *(case of 12)*

Each single-use pack contains: bolster and head stabilizing pillow

Use with HYBRID Reusable Lateral Stabilizing Pillows & Patient Support Frame

55201 TrenGuard 450 HYBRID Packs

56201 TrenGuard 600 HYBRID Packs

TRENGUARD HYBRID WEDGE PACKS *(case of 12)*

Each single-use pack contains: wedge bolster and head stabilizing pillow

Use with Reusable HYBRID Lateral Stabilizing Pillows & Patient Support Frame

55401 TrenGuard 450 HYBRID Wedge Packs

56401 TrenGuard 600 HYBRID Wedge Packs

ArmGuard® Patient Arm Protector

ARMGUARD CLASSIC SLED KIT *(kit of four Sleds- two Standard, two Bariatric)*

Use with ArmGuard Packs and accessories

40004 ArmGuard Classic Sled Kit

ARMGUARD RAIL-MOUNTED SLED

Use with ArmGuard Packs and Accessories

Requires rail clamp, sold separately

40018 ArmGuard Rail-Mounted Sled

ARMGUARD PACKS *(Case of 12)*

Each single-use pack contains: two ArmGuard Patient Arm Protector pads

Use with ArmGuard Sled Kit or ArmGuard Rail-Mounted Sled

40412 ArmGuard STANDARD Packs – 24 in (61 cm) long

40101 ArmGuard BASIC Packs – 20 in (51 cm) long

ARMGUARD WIDTH EXTENDER PACKS *(Case of 12)*

Each single-use pack contains: two ArmGuard Width Extender pads

Use with ArmGuard Packs, ArmGuard Sled Kit, ArmGuard Rail-Mounted Sleds

40206 ArmGuard Width Extender pads – for table mattresses up to 3 in (7.6 cm)

40207 ArmGuard XL Width Extender pads – for table mattresses up to 4 in (10.2 cm)

FaceGuard® Patient Head Shield /Instrument Tray

FACEGUARD HEAD SHIELD & INSTRUMENT TRAY

Use with rail clamps, sold separately

60701 FaceGuard Dual-Angle Head Shield / Instrument Tray

60702 FaceGuard Flat Head Shield / Instrument Tray

60703 FaceGuard Combo Dual-Angle and Flat Trays

ShroudGuard® OR Table Pedestal Protector

SHROUDGUARD OR TABLE PEDESTAL PROTECTOR

Additional models may be available

37110 ShroudGuard Surround 7000 - fits Trumpf® 7000/7000dv

37216 ShroudGuard Surround OT1200 - fits STERIS® OT1200

37220 ShroudGuard Surround CMAX - fits STERIS® CMAX™

37303 ShroudGuard Surround MPB3 - fits Merivaara Promerix™ and Promerix™ B3

37310 ShroudGuard Surround 3085+ - fits STERIS® Amsco 3080, 3085

37312 ShroudGuard Surround 4085+ - fits STERIS® 4085, 4095

37314 ShroudGuard Surround 5085+ - fits STERIS® 5085, 5095

About D. A. Surgical

D. A. Surgical develops and markets innovative solutions that aid in creating a safer environment in the operating room for patients, staff, and equipment.

D. A. Surgical was founded by Dan Allen, who is well known as the inventor of the Allen® Stirrup (the original boot-style surgical stirrup).

Having dedicated more than forty years to the study of anatomy and physiology relating to surgical patient posturing and positioning, Dan has become a respected pioneer and product designer of quality, innovative devices that continue to be used in operating rooms around the world.

Visit www.da-surgical.com for more details on these devices which improve patient safety and increase operating efficiencies.

Passion for Patient Safety in the Surgical Suite™

www.da-surgical.com

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