

MTI | 440 Battery-Powered Mobile Stretcher Bed

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PRE-OP,
TRANSPORT,
SURGERY, AND
RECOVERY
ALL ON THE SAME
MOTORIZED
STRETCHER BED



PATIENT ENTRY POSITION

The 440's 90-degree foot section and low entry height enable easy front or side entry



EXIT POSITION

Auto return and slide back arms, swing-down bed rails or surgery style arms allow for easy patient exit from the chair position



RECOVERY POSITION

Memory Foam cushions help make the patient feel comfortable and relaxed during recovery (shown with optional foot-mounted steering handles)



PRE-OP POSITION

Put your patient at ease using one of the four pre-programmed positions



TRANSPORT POSITION

Stow-away steering handles and 4" (10.2 cm) casters for operator selected steering or multidirectional modes allow for easy patient transport by a single healthcare professional



SURGERY POSITION

The ultra thin backrest provides for easy and comfortable access to the patient for the surgeon, and the four power functions provide exact patient positioning for an efficient workflow

The MTI 440's lithium-ion battery power provides true operational mobility and allows you to use one bed without moving the patient which reduces patient handling and the possibility of patient or healthcare personnel injury.

MTI 440 BATTERY-POWERED MOBILE STRETCHER BED

The 440 is ideal for providing a **mobile procedure platform** for the specialties of Ophthalmology, Plastic Surgery, ENT, Oral Surgery, and others, to safely transport a patient from various locations within the facility for procedures or surgeries.

A **smart lithium-ion battery** powers the 440 without the need for connection to an electrical outlet. However, in case of a battery emergency, the extra battery can be inserted in seconds. Since the battery charges remotely from the bed, full operational mobility is maintained or there is a standard power cord which can be used in place of the battery for uninterrupted operation, providing true dual power operational capability.

MTI's *smart* lithium-ion battery only takes 3.5 hours to charge from empty to full, compared to competing companies battery's which may take 12 – 15 hours to charge and may not be operable during the charging process. Plus

MTI's lithium-ion battery uses a "smart charger" with IC and microprocessor controls to control the rate of charge to maximize battery life.

Four-power operation enables the stretcher bed to be contoured for almost any surgery or procedure and the **standard quad-programmability** built into every 440 makes rapid repetitive positions possible. The **multidirectional casters system provides complete mobility** with a 0.8" (20 mm) base to floor clearance.

A host of accessories and options adds to the 440's versatility.



Model 440L shown with Deep Oval Articulating Headrest and Removable Slide-Back Floating Arms.

STANDARD FEATURES

- Battery or main power cord operation (dual operation)
- (2) Lithium-ion Batteries and (1) Charger. Battery charges remotely from bed to maintain full operational mobility. A full battery charge takes only about 3.5 hours
- Premium vinyl with multi-density and Memory Foam cushion construction (California Technical Bulletin TB133 upholstery optionally available)
- Steering handles conveniently fold down flush with backrest and out of the way for procedures
- Premium total lock caster system with dual lock actuation and operator selected steering or multidirectional modes
- Hand control operation with four user-programmable memory positions, auto return, stop, and any button cancellation
- Tapered backrest
- 24-volt DC motors for ultra quiet and smooth operation with a 650 lb (295 kg) lift capacity
- All steel welded frames and steel cushion substrates
- Available in 115-volt and optional 220-volt operation
- Choice of articulating headrest
- Choice of low model 20" – 31.5" (50.8 cm – 80 cm) or high model 22" – 38" (55.9 cm – 96.5 cm) overall heights
- Listed to the Safety Standards for Medical Electrical Equipment UL 60601-1, CSA-C22.2 60601-1, and IEC 60601-1



The ultra-thin backrest allows the surgeon to comfortably obtain the critical dimension from the microscope to the patient's eyes and from the patient's eyes to the floor. MTI's stretcher bed was also specifically designed to provide the critical and comfortable access necessary for use with femtosecond lasers.



Positions from upright to contour, flat, and trendelenburg are easily attained with the four power functions and four programmable positions of the 440 Stretcher Bed.



The advanced smart lithium ion battery weighs only 3 lbs (1.36 kg) and is only 9.5"lg x 3.375" w x 1.5"h (24.1 cm x 8.57 cm x 3.81 cm)



The "smart charger" with IC and microprocessor controls the rates of charge to maximize battery life. Full charge takes only 3.5 hours



Ultra soft cushions with "memory foam" provide excellent patient comfort



4" (10.2 cm) precision casters with operator selected steering or multidirectional modes make it easy for even one person to steer around corners and the dual braking system locks swivel and rotation of two casters per side simultaneously



Storable steering handles make transport by a single healthcare professional easy



The steering handles are conveniently stored out of the way during procedures



The dual articulating headrest lock can be used to position the headrest in seconds for almost any need and patient size, and can support up to 150 lbs (68 kg)



Extend the headrest up to 6" for those extra tall patients or easily exchange the headrest for specific surgeries



Four user programmable positions on hand control provide memorized positions for pre-op, transport, surgery, and post-op. An auto return button allows quick return to upright chair position



Deep Oval Articulating (9" h x 8" w)



Oval Articulating (9" h x 8" w)



Prosthetic Articulating (4" h x 8" w)



Round Articulating (6" dia)



Rectangular Articulating (8" h x 12" w)



Donut/Horseshoe Articulating (10" h x 10.5" w)



Optional Upgrade U-shaped Pillow (requires Oval Headrest)



Optional Upgrade Oval Articulating with Drape Support



Optional Upgrade Deep Oval Articulating with Adjustable Crescent Shaped Wrist Support



180-degree Adjustment with Three Different Locations



Easily Adjust Wrist Support to Three Locations



Vertically Adjust Wrist Support 5"



Optional Upgrade Deep Oval Articulating with Adjustable "U" Shaped Wrist Support



Adjust the "U" Shaped Wrist Support up to 7° degrees below and 20° degrees above horizontal.



Flip up the "U" shaped Wrist Support to move it out of the way or remove it completely



Vertically Adjust Wrist Support 5"



Headrest Stabilizer Cushion; ambidexterous, removable, and adjustable in/out up to 3.5" (8.9 cm)



Purchase either wrist support to exchange for specific surgery requirements or surgeon's preference in seconds and without the use of tools.

Arm Management Options



System FF Removable Slide-Back Arms float down with the bed's back, providing patient arm support even in the table position and retracts to aid the patient for entry or exit. (requires Removable Floating Arm Option)



Swing Up/Down Bed Rails without arms or Swing Up/Down Bed Rails which attach to patient armrests provide additional patient security and swing down for easy entry or exit and are removable. (requires Removable Floating Arm Option)



24" Standard 8-Way IV/Surgery Arm Board. Adjust the arm up/down, in/out, 360°, and up/down yaw movements (requires Back Mounted Removable Rails)



24" Deluxe 8-Way IV/Surgery Arm Board. Adjust the arm with one hand up/down, in/out, 360° and up/down yaw movements using one hand (requires Back Mounted Removable Rails)



18" Standard 8-Way IV Arm Board and 4-Way Removable Floating Patient Arm float down with the bed's back, providing patient arm support even in the table position (requires Removable Floating Arm Option) (Deluxe IV arm board, seat rail mounted arms, and arm sling also available)



Hand/Forearm Floating Procedure Table (8" l x 21" w) provides a wider, adjustable arm support surface for hand and forearm procedures (seat rail mounted table also available)



Hand/Arm Surgery Table (36" l x 12" w) provides a large arm support surface for arm and hand procedures



Flexible Oxygen Tube Delivery System/Drape Support Rod



Rigid Oxygen Tube Delivery System/Drape Rod (requires Back Mounted Removable Rails)



Oxygen Tank Holder (ambidextrous) accommodates D or E size tanks



Foot Mounted Steering Handles help make it easy to transport patients from the foot-end of the bed



Optional removable steering handles with spline attachment



Adjustable Mayo Tray (available on left or right hand side)



Back Mounted Removable Rails used for accessories requiring back rails



Optional dual (Lift/Back) or quad (Lift/Back/Tilt/Foot) foot control is easy to reach on its mount even with the back down; the control may also be removed for better access or specific needs



Flexible Hand Control Caddy (requires seat or base rails)



Base Rails for mounting monitor trays, IV poles, lights, electrocautery devices, and more (available on left or right hand side)



Base Rail Mounted Post and Post Mounted Adjustable Monitor Tray (available on left or right hand side)



Adjustable IV Pole; mounts via base mount, base rails, or base post when used in conjunction with monitor tray (available on left or right hand side)



LRS Leg Restraint Strap



Paper roll holder, 18"



Removable Stirrups (requires seat rails)

Surgeon and Assistant Seating

Many seating chairs and options are available. Please see additional brochure for physician/assistant seating



Hydraulic Foot Operated Surgery Chair with Twin Arms and Ergonomic Backrest



Pneumatic Foot Operated Chair with Ergonomic Back



Pneumatic Hand Operated Chair with Curved Body Support and Ergonomic Backrest



Lighting: Minor Surgery and OR-Lights

Couple your MTI 440 Stretcher Bed with a ceiling or wall mounted, or floor stand surgery/OR light. Dual-head and track mounts are available for most models as well as other major surgery and exam lighting



Apex Major O.R. Surgery Light



AIM-LED Minor Surgery LED Light. Also available in an Halogen model



CoolSpot II Spotlight



System Two Metal Halide Surgery Light. Also available in Halogen model



MI-1000 LED Light. Also available in Halogen model



Centura Spotlight

440* Specifications

Minimum Seat Height: Low Model 20" (50.8 cm)
High Model 22" (55.9 cm)

Maximum Vertical Elevation: Low Model 11.5" (29.2 cm)
High Model 16" (40.6 cm)

Maximum Lifting Capacity: 650 lbs (295 kgs)

Section Dimensions

Tapered Back Section: 24" tapering to 12" wide x 22" long
(61 cm tapering to 30.5 cm wide x 55.9 cm long)

Seat Section: 24" wide x 20.5" deep
(61 cm wide x 52 cm deep)

Foot Section: 24" tapering to 21" wide x 17" deep
(61 cm tapering to 53.3 cm wide x 43.2 cm deep)

Maximum Trendelenburg: 30°

Overall Length:
Low model w/o headrest extension 71" (180.3 cm)
Low model w/headrest extension 77" (195.6 cm)
High model w/o headrest extension 73" (185.4 cm)
High model w/headrest extension 79" (200.7 cm)

Overall Width at Base with Casters Unlocked: 29.5" (74.9 cm)

Overall Width at Base with Casters Locked: 27.25" (69.2 cm)

Overall Width with:

Slide Back Arms: 33.2" (84.3 cm)

Swing Up/Down Bed Rails w/o Slide Back Arms: 33" (83.8 cm)

Swing Up/Down Bed Rails with Slide Back Arms: 36.6" (93 cm)

Electrical Input/Power Consumption: 115/60, 5.4 amps

230/50, 2.7 amps

Weight[†]: 305 lbs (138 kg)

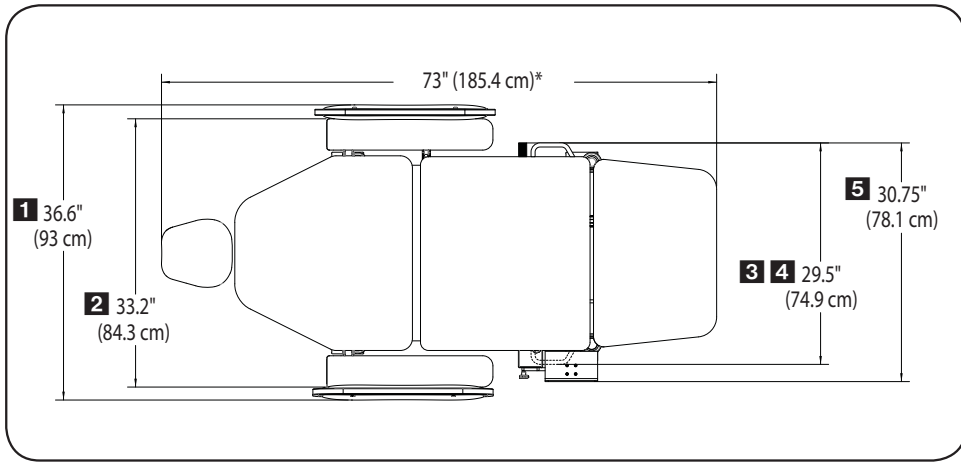
Shipping Weight[†]: 397 lbs (180 kg)

Shipping Size[†]: 80" x 32" x 34" (203 cm x 81 cm x 86 cm)

*Listed to the Safety Standards for Medical Electrical Equipment UL 60601-1, CSA-C22.2 60601-1, and IEC 60601-1.

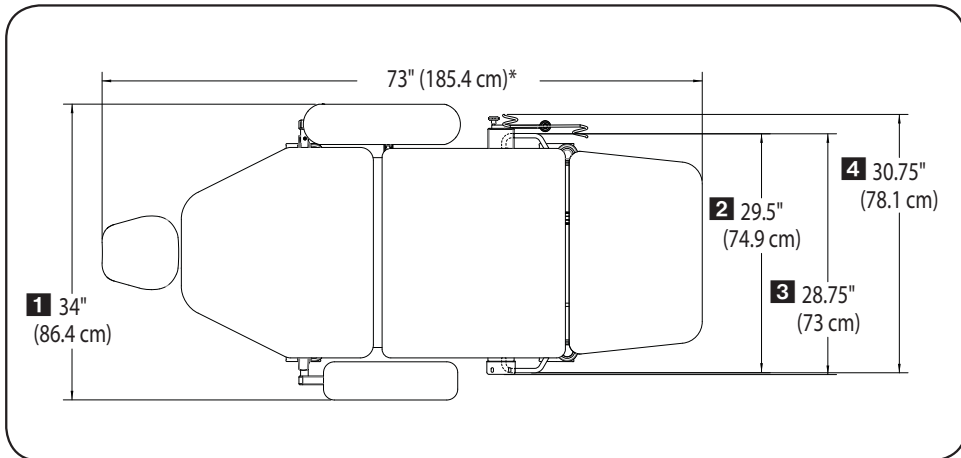
†Will vary depending on options chosen.

DIMENSIONS



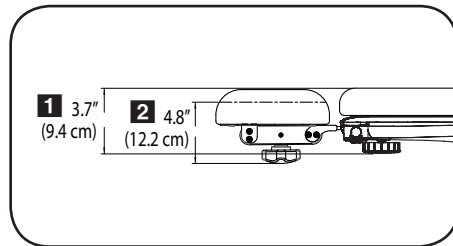
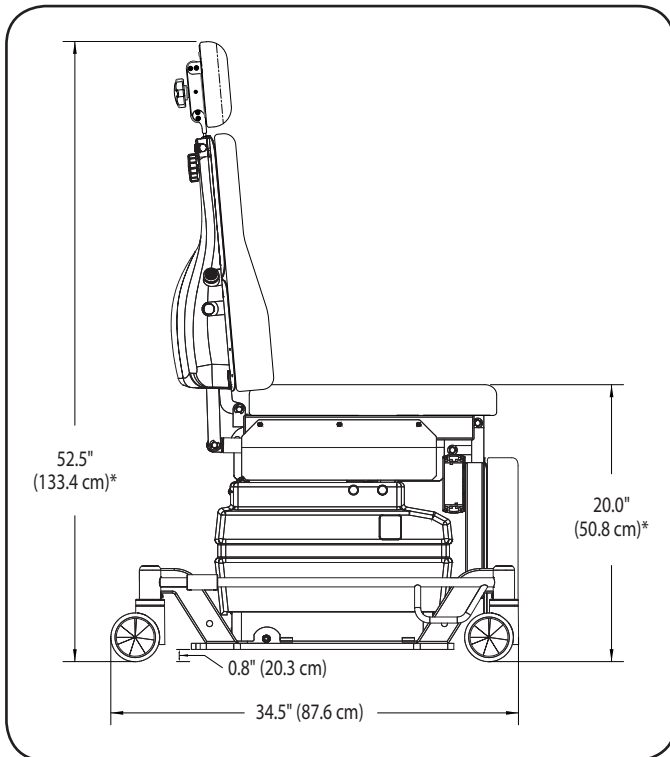
- 1** Bedrails with arms (Bedrails without arms 33" [83.8 cm])
- 2** Slide Back Patient Arms
- 3** Overall bed width with casters unlocked. Subtract 2.25" with casters locked
- 4** Oxygen Tank Holder
- 5** Monitor Tray

* For Low Model Bed dimension is 71" (180.3 cm)



- 1** 18" IV arm and Patient Arm
- 2** Overall bed width with casters unlocked. Subtract 2.25" with casters locked
- 3** Accessory Rail Mount Bracket
- 4** IV Pole or Mayo Tray

* For Low Model Bed dimension is 71" (180.3 cm)



- 1** Backrest thickness
- 2** Headrest thickness

* For High Model Chair, dimensions are increased 2" (5 cm)



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