



TORONTECH

ORTHOPEDIC TRACTION BED - TORONCARE™ 10310



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Orthopedic traction bed ToronCare™ 10310 gives orthopedic wards a manual positioning platform built around a single overhead trapeze frame. Ward nurses and orthopedic staff use the frame's hanging handgrips to help a patient reposition, sit up, and transfer with less caregiver strain. The same mounting point supports a basic limb traction setup when a fracture calls for it. Manual crank controls handle backrest and kneerest positioning for everyday ward use. This combination suits general orthopedic recovery as well as lighter, single-limb traction cases.

The ToronCare™ 10310 adjusts backrest through a 0 to 75-degree range. Kneerest moves through 0 to 45 degrees. Both angles are controlled by hand-crank leading screws. A leading-screw overload protection feature guards the mechanism against damage from over-cranking. Individual brake casters and roller bumpers support routine ward workflow. IV pole holes and a drainage hook keep the bedside organized during longer stays.

Patients recovering from a single-limb fracture, hip surgery, or extended bed rest benefit from a bed that combines positioning support with a light traction option. The trapeze bar lets a patient build upper-body strength during recovery. It also helps a patient move independently as strength returns. Staff can add a rope and pulley to the same frame for basic skin traction of one limb. This avoids the footprint of a full multi-point traction frame.

APPLICATIONS

Orthopedic Traction Bed - ToronCare™ 10310 Applications

The ToronCare™ 10310 suits orthopedic wards managing patients who need general positioning support with the option of light, single-limb traction.

- Single-Limb Fracture Management: basic skin traction of one leg or arm anchored to the overhead trapeze frame while the patient recovers

- Hip and Lower-Limb Surgery Recovery: kneerest and backrest positioning to support a healing limb while the patient regains mobility
- Patient-Assisted Repositioning: the overhead trapeze bar lets patients sit up, shift position, and transfer with less caregiver assistance
- General Orthopedic Ward Care: manual crank positioning, individual brake casters, and IV pole holes for day-to-day ward workflow
- Extended Bed Rest and Rehabilitation: trapeze-assisted movement helps patients maintain upper-body strength during a longer hospital stay
- Post-Operative Recovery: supports patients transitioning from surgical repair to early mobility exercises



FEATURES

Orthopedic Traction Bed - ToronCare™ 10310 Key Features

The ToronCare™ 10310 pairs a single overhead trapeze frame with manual ward-bed positioning functions.

- Overhead Trapeze Frame: a single-point frame with hanging handgrips lets patients reposition and sit up with less caregiver assistance, and doubles as an anchor for light single-limb traction
- Manual Backrest Adjustment: hand-crank control raises the backrest through 0 to 75 degrees for feeding, breathing, and general comfort
- Manual Kneerest Adjustment: crank-operated kneerest moves through 0 to 45 degrees to relieve pressure on the lower back and legs
- Adjustable Footrest: supports proper foot positioning and helps prevent pressure injury during extended bed rest
- Leading-Screw Overload Protection: guards the crank mechanism against damage if a user cranks past the mechanical limit
- Individual Brake Casters: each of the four 125 mm casters locks independently for stable positioning at the bedside
- Roller Bumpers: protect the bed frame and surrounding equipment from impact during transport and ward use
- IV Pole Holes: four built-in mounts hold IV poles without needing a separate stand
- Drainage Hook: a dedicated hook keeps catheter bags organized and off the floor during longer stays
- Detachable Head and Foot Boards: simplify cleaning and bedside access for nursing staff

THEORY & METHOD

Theory and Method

An overhead trapeze frame works on a simple lever principle. The patient grips the hanging bar and pulls against a fixed overhead anchor point. This lets the patient shift weight, sit up, or move toward the edge of the bed using their own upper-body strength. The motion reduces the physical effort a caregiver needs to reposition or transfer the patient. It also helps the patient retain arm and shoulder strength during a long recovery.

The same anchor point supports basic orthopedic traction when a fracture requires it. A rope and pulley run from a sling around the limb to the frame. A hanging weight applies a steady pull along the injured bone's axis. This single-point setup suits lighter, single-limb traction loads. The goal is to maintain alignment and relax the muscle spasm around the fracture, rather than manage a complex multi-limb or pelvic injury.

The bed's manual leading screws work independently of the trapeze and traction line. Backrest and kneerest angles adjust through hand-crank controls without disturbing a traction rope anchored overhead. Leading-screw overload protection prevents damage if a crank is turned past its mechanical limit. Together, these functions let staff manage day-to-day positioning while a lighter traction setup stays in place.

TECHNICAL SPECIFICATIONS

Orthopedic Traction Bed - ToronCare™ 10310 Technical Specifications

Parameter	Specification
External Dimensions	2,200 mm (L) x 980 mm (W)
Mattress Platform Dimensions	1,900 mm (L) x 900 mm (W)
Mattress Platform Ground Clearance	500 mm
Height of Orthopedic (Trapeze) Frame	2,040 mm
Height of Siderail	350 mm
Backrest Angle	0° to 75° (±5°)

Parameter	Specification
Kneerest Angle	0° to 45° ($\pm 5^\circ$)
Castor Diameter	125 mm
Safe Working Load	260 kg
Configuration Item	Quantity
Leading Screw	2 sets
Head/Foot Board	1 set
Siderail	1 set
Orthopedic (Trapeze) Frame	1 set
Individual Brake Castor	4 pcs
Roller Bumper	4 pcs
IV Pole Hole	4 pcs
Drainage Hook	2 pcs



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