



TORONTECH

ORTHOPEDIC HOSPITAL BED - TORONCARE™ 10300



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Orthopedic hospital bed ToronCare™ 10300 gives orthopedic wards a manual positioning platform built around an overhead Balkan traction frame. Orthopedic surgeons, ward nurses, and rehabilitation staff use the bed to manage patients recovering from long-bone fractures, pelvic injuries, and lower-limb surgery. The overhead frame carries the pulleys, ropes, and slings needed for skeletal or skin traction, while the bed itself handles routine positioning through manual leading-screw controls. This keeps a patient in one setup from admission through fracture healing.

The ToronCare™ 10300 adjusts backrest, left kneerest, and right kneerest independently through hand-crank leading screws, so staff can position an unaffected limb differently from a limb held in traction. Trendelenburg and anti-Trendelenburg tilt support circulation and drainage management during extended bed rest. Individual brake casters, roller bumpers, and IV pole holes round out the frame for day-to-day ward use. A leading-screw overload protection feature guards the mechanism against damage from over-cranking.

Long-bone and pelvic fractures often call for weeks of positioning before a patient can bear weight again, and this bed is built for that extended timeline. The Balkan frame supports the traction hardware directly over the mattress, so nursing staff do not need a separate freestanding frame. Configurable slings and pulleys accommodate different limb lengths and traction angles. The result is a single bed that carries a patient through reduction, stabilization, and early ward-based rehabilitation.

APPLICATIONS

Orthopedic Hospital Bed - ToronCare™ 10300 Applications

The ToronCare™ 10300 supports orthopedic departments managing patients who need sustained limb traction or extended positioned bed rest.

- Long-Bone Fracture Management: skeletal or skin traction of the femur, tibia, or humerus to maintain alignment while a fracture heals or awaits surgical fixation
- Pelvic and Hip Injury Care: overhead frame traction to reduce pelvic ring injuries and stabilize hip fractures before or after surgical repair
- Post-Surgical Orthopedic Recovery: independent left and right kneerest positioning to protect a repaired limb while the other leg moves freely
- Pediatric Orthopedic Care: gentle, adjustable traction setups for developmental hip conditions and pediatric fracture management
- Spinal and Pelvic Traction Support: Trendelenburg and anti-Trendelenburg tilt to assist circulation and positioning during extended traction therapy
- General Orthopedic Ward Care: manual crank positioning, individual brake casters, and IV pole holes for everyday ward workflow



Standards

The ToronCare™ 10300 orthopedic hospital bed is designed and built around established engineering practices for manual traction beds, including overload protection on the leading-screw mechanism and secure siderail construction. The supplier documentation for this model does not list individual standard numbers, so a detailed compliance list should be confirmed directly with Torontech before it is used in a specification-driven procurement decision.

FEATURES

Orthopedic Hospital Bed - ToronCare™ 10300 Key Features

The ToronCare™ 10300 pairs an overhead Balkan traction frame with a full set of manual ward-bed functions.

- Overhead Balkan Traction Frame: horizontal and vertical bars with pulleys and slings support skeletal or skin traction at the angle a fracture requires
- Independent Left and Right Kneerest: each leg section adjusts through 0 to 45 degrees on its own crank, so an unaffected limb can move freely while the other stays in traction
- Manual Backrest Adjustment: hand-crank control raises the backrest through 0 to 75 degrees for feeding, breathing, and general comfort
- Trendelenburg and Anti-Trendelenburg Tilt: manual tilt supports circulation and drainage management during extended periods of 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 during traction sessions
- 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 long stays in traction
- Detachable Head and Foot Boards: simplify cleaning and bedside access for nursing staff

THEORY & METHOD

Theory and Method

Orthopedic traction works by applying a steady, controlled pulling force along the axis of an injured bone or joint. A weighted rope runs from a sling or pin through a pulley mounted on the overhead frame. The rope pulls the limb into a corrected position. This steady pull also opposes the muscle spasm that forms around a fracture site. The patient's own body weight supplies the opposing counterforce. That counterforce, positioned against the angle of the bed, keeps the whole traction system balanced.

Keeping the line of pull along the correct anatomical axis is what makes traction effective. The Balkan frame's horizontal and vertical bars let staff route ropes and pulleys at the angle a specific fracture requires, rather than fixing the traction line in one position. Skin traction distributes force across a wider area of soft tissue for lighter loads, while skeletal traction anchors directly to a pin through bone for heavier, longer-term pulls. Both methods rely on the same frame and pulley system.

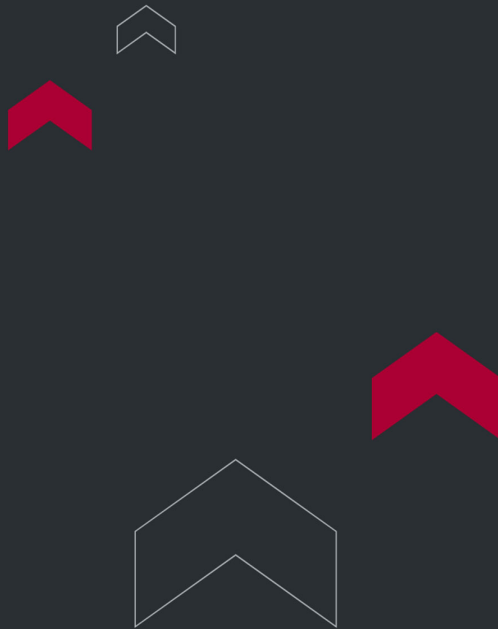
The bed's manual leading screws work alongside the traction setup rather than against it. Backrest and kneerest angles adjust the patient's overall position without disturbing the fixed traction line running through the overhead frame. Trendelenburg and anti-Trendelenburg tilt shift the entire mattress platform, which helps staff manage venous drainage and pressure distribution during the weeks a patient may spend in traction. This combination keeps the fracture aligned while still allowing routine nursing care.

TECHNICAL SPECIFICATIONS

Orthopedic Hospital Bed - ToronCare™ 10300 Technical Specifications

Parameter	Specification
External Dimensions	2,170 mm (L) x 980 mm (W)
Mattress Platform Dimensions	1,900 mm (L) x 900 mm (W)
Mattress Platform Ground Clearance	520 mm
Height of Orthopedic (Balkan) Frame	1,840 mm
Height of Siderail	455 mm
Backrest Angle	0° to 75° ($\pm 5^\circ$)
Left Kneerest Angle	0° to 45° ($\pm 5^\circ$)
Right Kneerest Angle	0° to 45° ($\pm 5^\circ$)
Trendelenburg	$\geq 5^\circ$
Anti-Trendelenburg	$\geq 5^\circ$
Castor Diameter	125 mm
Safe Working Load	260 kg
Configuration Item	Quantity
Leading Screw	4 sets
Head/Foot Board	1 set
Siderail	1 set
Individual Brake Castor	4 pcs
Orthopedic (Balkan) Frame	1 set

Parameter	Specification
Roller Bumper	4 pcs
IV Pole Hole	4 pcs
Drainage Hook	2 pcs



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