

PEDIATRIC HOSPITAL BED - TORONCARE™ 6110



Pediatric Hospital Bed - ToronCare™ 6110

Electric pediatric hospital bed ToronCare™ 6110 gives pediatric wards a fully enclosed, crib-style platform driven by four linear motors instead of manual cranks. Full-height side panels enclose the mattress platform on both sides. This suits younger or more active children who need a taller physical barrier than a standard adjustable siderail provides. Nursing staff use the bed for general pediatric care and post-surgical recovery. Continuous electric positioning also reduces the physical effort of repositioning a child throughout the day.

The bed moves through a 445 to 745 mm height range, with backrest lift to 70 degrees and kneerest lift to 30 degrees. Auto-contour combines backrest and kneerest movement into one positioning step. Trendelenburg and reverse Trendelenburg tilt reach at least 12 degrees in each direction. A 620 mm siderail height and 220 kg safe working load round out the core frame specifications.

A control box, nurse control panel, and backup battery with a charge display drive the bed's electric functions. This keeps positioning working during a power interruption. An ABS central braking pedal locks all castors from one point. A night light supports quiet nighttime checks without switching on full room lighting. Together, these additions make the ToronCare™ 6110 a fully powered alternative to manually cranked pediatric beds.

APPLICATIONS

Pediatric Hospital Bed - ToronCare™ 6110 Applications

The ToronCare™ 6110 suits pediatric departments that need fully enclosed, electrically driven positioning for children who require more physical containment than an open-frame bed provides.

- General Pediatric Ward Care: electric backrest, kneerest, and height adjustment reduce the physical effort of repositioning a child throughout a shift

- Post-Surgical Pediatric Recovery: auto-contour positioning supports comfortable recovery angles without manual cranking
- Respiratory and Circulatory Support: Trendelenburg and reverse Trendelenburg tilt assist secretion drainage and circulatory management for children who cannot be positioned manually as quickly
- Active or Younger Pediatric Patients: full-height enclosed side panels provide additional physical containment beyond a standard adjustable siderail
- Power-Interruption-Sensitive Care: battery backup keeps electric positioning functional during a power outage
- Emergency Response: electric and manual CPR functions support rapid flattening during a code



FEATURES

Pediatric Hospital Bed - ToronCare™ 6110 Key Features

The ToronCare™ 6110 combines a fully enclosed crib-style frame with electric positioning driven by four linear motors.

- Fully Enclosed Side Panels: full-height panels on both sides of the mattress platform provide additional physical containment for younger or more active children
- Four-Motor Electric Positioning: independent linear motors drive backrest, kneerest, height, and tilt functions from the nurse control panel
- One-Button Auto-Contour Position: combines backrest and kneerest movement into a single semi-reclining position
- Power Height Adjustment (445-745 mm): gives staff a comfortable working height and supports safe transfers at the lowest setting
- Trendelenburg and Reverse Trendelenburg Tilt ($\geq 12^\circ$): supports secretion drainage and circulatory management without manual repositioning
- Battery Backup with Charge Display: keeps electric positioning functional during a power interruption and shows remaining charge at a glance
- ABS Central Braking Pedal: locks all castors from a single pedal for fast, stable positioning at the bedside
- Electric CPR: flattens the bed at the press of a button to gain time during resuscitation
- Manual CPR Release: provides a power-independent backup for emergency flattening
- Individually Locked Functions: each bed function locks separately to prevent accidental operation
- Emergency Stop: halts bed motion immediately in urgent situations
- Integrated Night Light: supports quiet nighttime checks without switching on full room lighting
- Roller Bumpers: protect the bed frame and surrounding equipment from impact during transport
- IV Pole Holes: four built-in mounting points hold IV poles without a separate stand
- Drainage Hooks: keep catheter bags organized and off the floor during extended stays
- Integrated Cable Holder: keeps the power cord organized and out of the walking path

THEORY & METHOD

Theory and Method

The ToronCare™ 6110 replaces manual crank mechanisms with four linear motors, one driving each major positioning function. A linear motor converts an electrical signal into direct mechanical push-and-pull force along a straight axis. This differs from the rotational force a crank applies through a screw. The nurse control panel uses this to move the backrest, kneerest, height, and tilt functions independently at the press of a button. No manual leading screw effort is required.

Positioning still follows the same physiological logic that applies to any adjustable bed. Raising the backrest lowers the diaphragm and reduces the resistance the lungs work against, improving lung expansion and ventilation. Trendelenburg tilt uses gravity to help drain secretions and support venous return, while reverse Trendelenburg tilt shifts blood volume away from the head to help manage intracranial pressure. The auto-contour function applies backrest and kneerest movement together to reach a stable semi-reclining position in one step.

Battery backup addresses a specific risk in electrically driven beds. A power interruption should not leave a child stuck in an unsafe position. The battery display shows remaining charge so staff can monitor backup power status before it becomes a problem. Combined with the central braking pedal, this keeps the bed both mobile and stable. This holds whether the facility is running on mains power or backup battery.

TECHNICAL SPECIFICATIONS

Pediatric Hospital Bed - ToronCare™ 6110 Technical Specifications

Parameter	Specification
External Dimensions	1,945 mm (L) x 980 mm (W)

Parameter	Specification
Mattress Platform Dimensions	1,725 mm (L) x 780 mm (W)
Mattress Platform Ground Clearance	445 mm to 745 mm
Height of Siderail	620 mm
Backrest Lift	0° to 70° (±5°)
Kneerest Lift	0° to 30° (±5°)
Anti-Trendelenburg	≥12°
Trendelenburg	≥12°
Castor Diameter	125 mm
Safe Working Load	220 kg

Configuration Item	Quantity
Control Box	1 pc
Linear Motor	4 pcs
Nurse Control Panel	1 pc
Battery	1 pc
Night Light	1 pc
Head/Foot Board	1 set
Siderail	1 set
Central Braking Castor	4 pcs
ABS Central Braking Pedal	1 set

Configuration Item	Quantity
Roller Bumper	4 pcs
IV Pole Hole	4 pcs
Drainage Hook	4 pcs
Cable Holder	1 set



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