



TORONTECH

PEDIATRIC HOSPITAL BED - TORONCARE™ 6100



Pediatric Hospital Bed - ToronCare™ 6100

Pediatric hospital bed ToronCare™ 6100 gives PICU teams a platform sized for children rather than adapted from an adult frame. The mattress platform measures 1,725 by 780 mm, small enough to support a child's body accurately. An adult-sized platform leaves gaps that reduce comfort and positioning control. Nursing staff, respiratory therapists, and pediatric physicians use the bed across general pediatric care, post-surgical recovery, and intensive care settings. The bed suits patients under 1,525 mm in height and under 135 kg in weight.

Power height adjustment moves the bed from 445 mm to 745 mm, letting a child get on and off independently at the low setting and giving staff a comfortable working height at the high setting. Backrest lift reaches 0 to 70 degrees, thigh rest lifts 0 to 30 degrees, and an auto-contour button combines both into one semi-reclining position. Trendelenburg and reverse Trendelenburg tilt run from 0 to 12 degrees. Siderails reach 620 mm, and the bed carries a 220 kg safe working load.

Adult hospital beds are not sized or equipped for pediatric patients, and this creates real gaps in care. Standard siderail height and headboard spacing on adult beds were not designed around a child's smaller body. This raises the risk of falls or limb entrapment. Adult beds may also lack the fittings pediatric equipment needs, and can feel intimidating to a frightened child. The ToronCare™ 6100 addresses these gaps directly, from siderail height to child-friendly visual design.

APPLICATIONS

Pediatric Hospital Bed - ToronCare™ 6100 Applications

The ToronCare™ 6100 supports pediatric care teams managing patients from routine ward stays through serious, life-threatening conditions.

- Pediatric Intensive Care (PICU): continuous positioning and monitoring support for severely ill infants, children, and teenagers

- Post-Chest-Surgery Recovery: Trendelenburg positioning to assist secretion drainage and support respiratory tract clearing after thoracic procedures
- Craniocerebral Injury and Cerebral Edema Management: reverse Trendelenburg positioning that uses gravity to help reduce intracranial pressure
- Gastroenterology and Abdominal Surgery Recovery: reverse Trendelenburg and semi-reclining positioning to reduce gastroesophageal reflux risk
- Respiratory Support and Dyspnea Management: cardiac chair positioning to ease diaphragm work for children with breathing difficulty
- Emergency Response and Resuscitation: electric and manual CPR functions for rapid flattening during a code
- General Pediatric Ward Care: child-sized platform, alarms, and locked controls for day-to-day nursing on general pediatric units



FEATURES

Pediatric Hospital Bed - ToronCare™ 6100 Key Features

The ToronCare™ 6100 combines child-specific sizing with a full set of PICU-grade safety and monitoring functions.

Specially Designed for PICU to Protect Children's Safety

Thoughtfully engineered height adjustment and intelligent design help reduce risks and support safer, more comfortable care for our most vulnerable patients.



Bed Height Adjustment

When the bed reaches the highest height 745mm, it helps medical staff to check critical children, reduce the difficulty of nursing, and reduce the risk of occupational injury caused by long-term care. When the bed reaches the lowest height 465mm, it will facilitate the child to get on and get off the bed independently.



Exquisite Functions

Comprehensive in Guardianship

Combining advanced technology with human-centered design, this pediatric bed supports comprehensive caregiver needs. It can reduce the workload of nursing, effectively improve the efficiency of medical care, and enable healthier and more comfortable care for children.



Electric CPR

Quickly reset the bed to a horizontal state with one-button, lowering it to the lowest height of 440 mm, and gaining valuable time for rescuing the child.



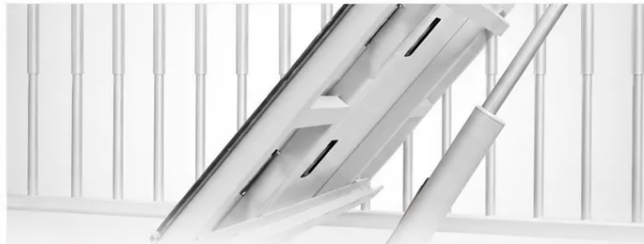
Manual CPR

If all any instrumental at the end of the bed upwards, and the basic detection will be reset to horizontal level immediately. It is feasible for emergency rescue and gains time for rescue.



X-ray for Backrest

The back section is made of phenolic resin which is X-ray transparent. An image can be obtained under the back section to facilitate the X-ray examination without moving the patient.





Four-stage height adjustment siderail

The siderail adopts high-quality aluminum alloy profiles and Germany IML technology, combining elegance, safety and reliability. Four-stage height adjustment, made to standard sizes and resistance ensure the safety of young children even display the risk of potential injuries or falling from the bed.



Bed exit alarm

When the patient leaves the bed, the system will automatically alarm to avoid injuries and the miss of timely nursing intervention in time.



Central lock system

The structure is stable and flexible, easy to operate, all casters are covered to exclude dust or dirt. Individual central brake provides safety in use between multiple attendants application safety.



Weight scales system

- **Weight scales function**

12 weigh scales function data can be stored for easy patient weight management and trend tracking.

- **Weighing compensation function**

In no-compensation mode, weight changes do not affect the display data, ensuring accurate and stable measurements.

- **Multi-language support**

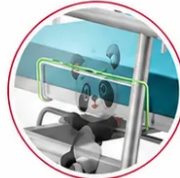
Support four languages: Chinese, English, Spanish and Russian to meet international needs.

- **Weighing unit switching**

Freely switch between kilograms and pound.

Exquisitely elaborate on details

Comprehensively ensure care for children



Mattress holder



Drainage hooks



Cable holder



Night light



I.V pole hole



Equipotential terminal





Visual head& foot board

It adopts removable design and uses transparent and safe acrylic plate, which facilitates caregivers to observe the status of the child in real time, the children's fun sticker elements, create a warm atmosphere, and relieve children's tension.



Emergency STOP button

In special condition, one-button emergency STOP can be used to prevent accidents and improve operational safety.



Lock function

Each function can be locked separately to prevent misoperation and improve the safety of use.



Castors

This bed is equipped with 125mm double-sides castors, two with fully enclosed self-lubricating bearing, which enable the castor moving smoothly and quietly, and have excellent load-bearing capacity.



Antibacterial powder spraying technology

The bed adopts antibacterial powder spraying to improve antibacterial performance, effectively prevent cross infection, and ensure the health of children.



- Power Height Adjustment (445-745 mm): the low setting lets a child get on and off the bed independently, and the high setting reduces bending and back strain for staff
- One-Button Auto-Contour Position: combines a 70-degree backrest with a 30-degree thigh rest to ease breathing and reduce reflux risk in one motion
- Trendelenburg and Reverse Trendelenburg Tilt (0-12°): supports secretion drainage after chest surgery and helps manage intracranial pressure in brain injury cases
- One-Button Bed Exit Position: helps a child transition gradually from lying to sitting to standing before getting out of bed
- One-Button Cardiac Chair Position: raises the child to a high-sitting posture that eases diaphragm work during episodes of breathing difficulty

- Integrated Weight Scale with Trend Tracking: records and stores a child's weight over time to support dosing and nutrition decisions
- Weighing Compensation Mode: keeps weight readings accurate even as the backrest or X-ray tray shifts under the patient
- Switchable Weight Units: toggles between kilograms and pounds for the care team's preference
- Four-Stage Height-Adjustable Siderails: aluminum alloy rails at 620 mm reduce the risk of a child falling or a limb becoming trapped
- Bed Exit Alarm: sounds automatically if a child leaves the bed unsupervised
- Electric CPR: drops the bed to its lowest height at the press of a button to gain time during resuscitation
- Manual CPR Release: a red wrench at the foot of the bed resets the backrest to horizontal instantly if power is unavailable
- X-Ray Translucent Backrest: a phenolic resin backrest with a built-in image box supports bedside X-ray imaging without moving the child
- Removable Visual Head and Foot Boards: transparent acrylic panels with child-friendly graphics let caregivers observe the child while easing anxiety
- Central Lock System: a single stable locking mechanism suited to fast-paced or complex care scenarios
- Individually Locked Functions: each bed function locks separately to prevent accidental operation
- Emergency STOP Button: halts bed motion immediately in urgent situations
- Multi-Language Interface: supports Chinese, English, Spanish, and Russian
- Antibacterial-Coated Frame: a sprayed antibacterial finish helps reduce cross-infection risk
- Enclosed Self-Lubricating Castors (125 mm): roll quietly and smoothly while supporting the bed's full working load
- IV Pole Holes: built-in mounting points hold IV poles without a separate stand
- Equipotential Grounding Terminal: equalizes electrical potential with other connected medical equipment for electrical safety

THEORY & METHOD

Theory and Method

Positioning a child's upper body changes intrathoracic pressure and the mechanics of breathing. Raising the backrest lowers the diaphragm and reduces the resistance the lungs work against, which expands lung volume and improves ventilation. The same elevation increases negative pressure inside the chest during inhalation, which helps draw venous and lymphatic fluid back toward the heart. A semi-reclined posture also lets stomach contents pass through the pylorus more easily, lowering the risk of reflux and aspiration.

Trendelenburg and reverse Trendelenburg tilt apply gravity to two different clinical problems. Tilting the whole bed head-down helps loosen and drain secretions after chest surgery, supporting airway clearance during recovery. Tilting the bed head-up shifts blood volume away from the head, which can help lower intracranial pressure in patients with brain injury or cerebral edema. Both positions work because gravity acts directly on fluid and blood volume, beyond the effect of posture alone.

Continuous weight monitoring matters more in pediatric care than in adult care because drug dosing, fluid resuscitation, and nutritional support are calculated per kilogram of body weight. A child's weight can also shift quickly during a serious illness. The bed's integrated scale tracks weight changes over time. Its compensation mode keeps readings accurate even when the backrest or an X-ray tray moves under the patient. This lets clinical staff trust the reading without pulling the patient off the bed to re-weigh them.

TECHNICAL SPECIFICATIONS

Pediatric Hospital Bed - ToronCare™ 6100 Technical Specifications

Parameter	Specification
External Dimensions	1,980 mm (L) x 980 mm (W) x 445-745 mm (H) (±10 mm)

Parameter	Specification
Mattress Platform Size	1,725 mm (L) x 780 mm (W)
Bed Height Range	445 mm to 745 mm
Backrest Lift	0° to 70°
Thigh Rest Lift	0° to 30°
Auto-Contour Position	Backrest 70°, thigh rest 30° (simultaneous)
Trendelenburg / Reverse Trendelenburg Tilt	0° to 12°
Height of Siderails	620 mm
Safe Working Load	220 kg
Bed Weight	132 kg
Ingress Protection Rating	IP54 (water and dust)
Castor Diameter	125 mm
Applicable Patient Height	Below 1,525 mm
Applicable Patient Weight	Below 135 kg



Auto-contour

Adjusting to the user positioning position with one button can provide the comfort of the diaphragm, reduce breathing resistance, enhance the appetite of meals and the physical activity during inhalation, help the lung expand more expansive and slow down the risk of pneumonia, the nurse can lie a posture pressure in the chest area, promote venous blood and lymph fluid return.

The secret lying position can promote blood relieving the small intestine noise easily through the pelvic, reduce gastrointestinal tract obstruction, and effectively reduce the risk of reflux and aspiration



TR/ATR tilt

Til position - suitable for patients after chest surgery. It can help discharge secretions, make sputum collectors, and prevent complaints from bloating.

ATR position - Use gravity to assist non-surgical pressure, suitable for the management of patients with intracranial injury or cerebral edema, and reduce the risk of gastroesophageal reflux after gastroenterostomy and abdominal surgery



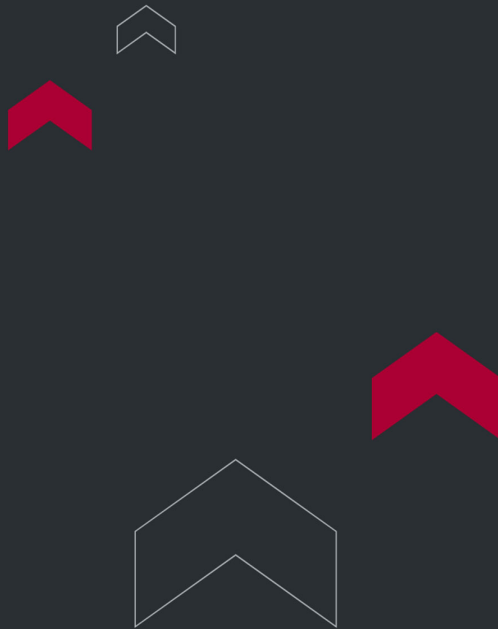
One button bed exit position

Help children gradually adapt to lying and standing, promote physiological adjustment, and assist them to get off bed safely



One-button cardiac chair position

Bed exit specifically for patients with acute dyspnea, bladder, meanwhile supporting function of patient high integrated lung protector can enhance deep breathing of the diaphragm and prevent airway recovery



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