



TORONTECH



ICU/CCU BED (PREMIUM)

Premium Column Lift ICU Bed - ToronCare™ 1078

ToronCare™ 1078 is a column lift ICU bed built on a dual-column base that raises and lowers the platform vertically through 540 to 940 mm, the widest height range in the ToronCare line. Two column motors at the head and foot drive the lift, giving the bed a stable footprint, smooth travel, and clean under-bed clearance for patient lifts, imaging, and cleaning. As the flagship of the range, this premium ICU bed combines column-lift height control with backrest articulation to 70 degrees, thigh rest elevation, lateral tilt, Trendelenburg and reverse Trendelenburg, and an integrated scales system, all carried on a 240 kg safe working load.

Operation centers on a color touch-screen control panel, supported by a nurse panel, side-rail controls, foot-control panels, and a corded handheld remote, so staff can drive the bed by the method that fits the moment. One-button cardiac chair and bed-exit presets speed routine repositioning, while dual autoregression and an anti contra-angle knee function keep the patient aligned and comfortable through articulation. An X-ray translucent back section with a cassette holder allows bedside imaging, and electric and mechanical CPR drop the backrest flat for resuscitation.

Manufactured to European medical device norms and rated IP54 against water spray and dust, the ToronCare™ 1078 suits high-acuity intensive care units, imaging-intensive wards, and facilities that want one bed to cover positioning, weighing, and rapid intervention. A removable mattress platform, third protective side rail, drainage hooks, and German Tente castors with central braking complete a bed designed for demanding clinical use.

APPLICATIONS

ICU/CCU Bed (Premium) - ToronCare™ 1078 Applications

The ToronCare™ 1078 serves high-acuity environments that need a stable, full-feature bed for positioning, imaging, and continuous monitoring. The column lift and complete function set make it a fit across demanding wards.

- Intensive Care Units (ICU): the wide height range, lateral tilt, and integrated weighing support positioning, pressure care, and fluid tracking for high-acuity patients.
- Imaging-Intensive Wards: the X-ray translucent back section and cassette holder allow bedside chest radiographs without transferring the patient.
- Cardiac Care Units (CCU): the one-button cardiac chair position raises the patient upright to ease breathing and support recovery.
- Post-Anesthesia and Recovery (PACU): full-height travel and tilt assist monitoring and transfer during emergence from anesthesia.
- Pressure Injury and Wound Care: lateral tilt and autoregression help offload bony prominences for at-risk patients.
- Step-Down and High-Dependency Units: touch-screen control and bed-exit presets streamline care for patients moving toward recovery.
- Long-Term Acute Care: durable construction and a low minimum height support extended stays and safe transfers.



Standards

The ToronCare™ 1078 is designed and produced to internationally recognized standards for medical electrical equipment, medical beds, and the weighing function of the integrated scale.

- ISO 13485 - Medical Devices: Quality Management Systems, Requirements for Regulatory Purposes

FEATURES

ICU/CCU Bed (Premium) - ToronCare™ 1078 Key Features

01

Backrest & Thighrest Adjustment

Backrest and thighrest sections adjust for patient comfort and positioning.



02

Lateral Tilt

Supports lateral tilt positioning for enhanced care and patient handling.



03

TR / ATR Tilt

Trendelenburg / reverse Trendelenburg tilt for clinical positioning support.



04

Bed Height Adjustment (H0-H1)

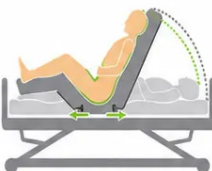
Smooth bed height adjustment to support care access and transfer.



05

Auto-Regression

Auto-regression helps reduce abdominal pressure and improve comfort.



06

Auto-Contour

Synchronized backrest and legrest movement for ergonomic positioning.



07

One-Button Cardiac Chair Position

Quick transition to the cardiac chair position for patient support.



08

One-Touch Bed Exit Position

Helps place the patient in a safer seated exit position.

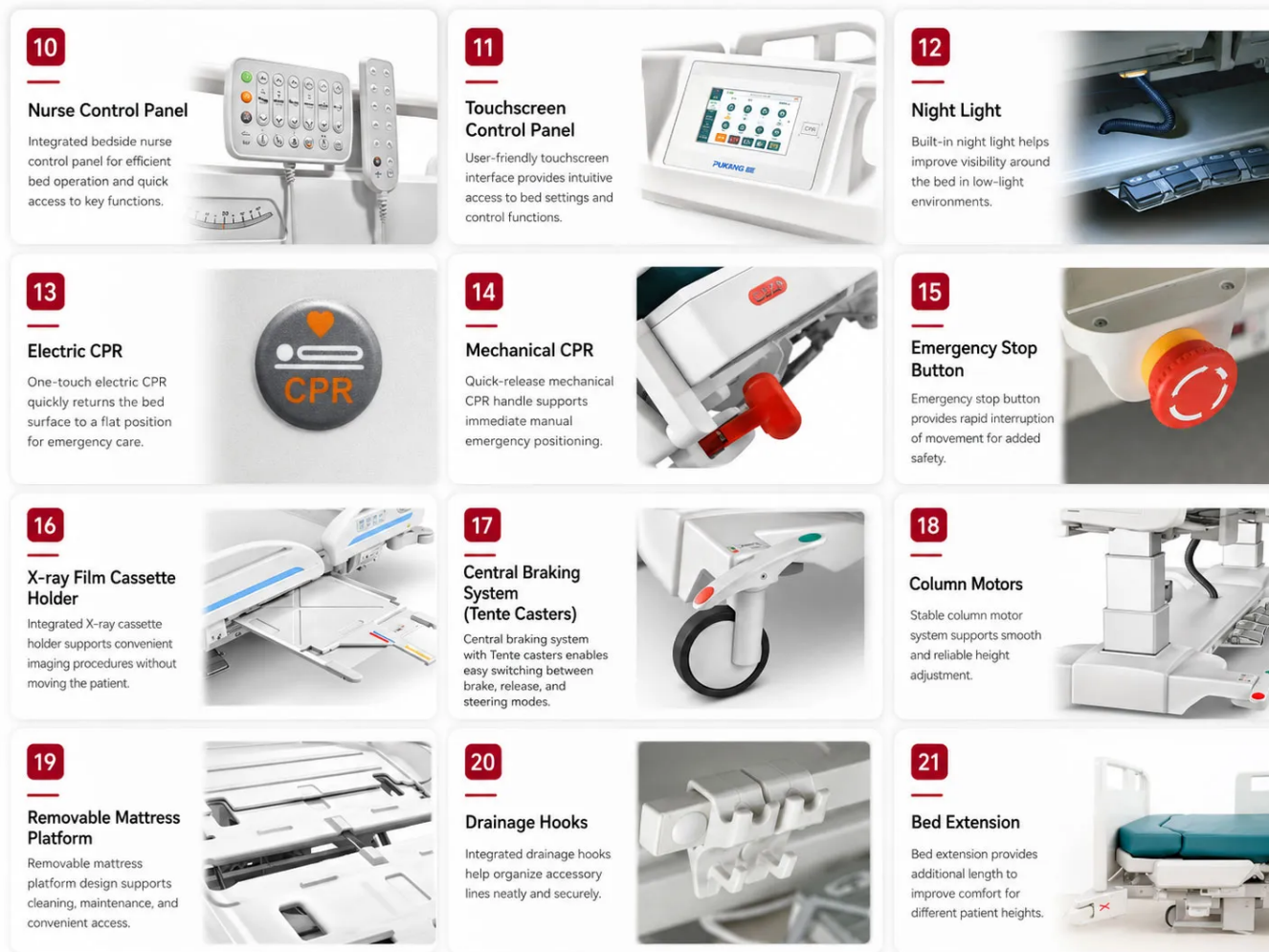


09

Foot Control Panels

Integrated foot controls for convenient hands-free operation.





The ToronCare™ 1078 brings together a stable column-lift base, touch-screen control, and the full positioning and safety feature set of the ToronCare range.

- **Dual-Column Lift System:** two column motors raise the platform through a 540 to 940 mm range on a stable base with clear under-bed access.
- **Touch-Screen Control Panel:** a color touchscreen displays angle, height, and weight data and gives intuitive control of every powered function.

- Foot-Control Panels: foot pedals operate the bed hands-free when staff are occupied with patient care.
- Lateral Tilt to 15°: powered side-to-side rotation offloads pressure points and assists patient turning.
- Backrest to 70° and Thigh Rest to 30°: a wide articulation range supports comfort, feeding, and clinical access.
- Trendelenburg and Reverse Trendelenburg: head-down and foot-down tilt to 12 degrees assists circulation management and procedures.
- Dual Autoregression: backrest and seat sections shift their pivots during motion to reduce shear and abdominal compression.
- Anti Contra-Angle Knee Function: keeps the leg section aligned and prevents over-bending at the knee break.
- Integrated Scales System: load cells capture patient weight on the bed, removing the need for a separate scale.
- One-Button Cardiac Chair Position: a single command seats the patient upright to support breathing and cardiac recovery.
- One-Button Bed-Exit Position: a preset lowers and configures the bed to help mobile patients leave safely.
- X-Ray Translucent Back Section: the radiolucent panel and integrated cassette holder allow chest imaging without moving the patient.
- Electric and Mechanical CPR: a damped quick-release drops the backrest flat with one hand, with or without mains power.
- Removable Mattress Platform: the platform lifts off for cleaning, sterilization, and bedside imaging.
- Integrated Bed Extension: the platform extends 200 mm to fit taller patients.
- Third Protective Side Rail: an added rail section gives extra fall protection along the bed.
- Multi-Point Angle Indicators: side-rail gauges show backrest, tilt, and lateral angles at a glance.
- Backup Battery Operation: stored power runs the bed's functions during a mains interruption, with a battery status indicator.
- Drainage Hooks and I.V. Pole Holes: integrated fittings organize lines, bags, and infusion stands.
- German Tente Castors with Central Braking: four castors with single-pedal brake and steering support stable transport.
- Four Anti-Collision Corners and Emergency Stop: corner bumpers and a stop button add protection during transport and operation.
- Night Light and IP54 Rating: an under-bed night light aids low-disturbance care, and IP54 sealing protects against water spray and dust.

THEORY & METHOD

Theory and Method

A column lift raises the bed through two vertical columns, one near the head and one near the foot, rather than the scissor or four-bar linkage used on entry-level beds. Inside each column, a motor turns a lead screw that extends or retracts a telescoping section, so the platform travels straight up and down while its footprint stays fixed. This geometry produces a stable base across the full 540 to 940 mm range, keeps the underside clear for patient lifts and floor cleaning, and distributes load evenly so the bed holds lateral tilt and Trendelenburg without rocking. Driving both columns in step sets the height, and driving them in opposition produces the head-down and foot-down tilt of up to 12 degrees.

Patient positioning adds several articulating sections on top of the column base. Linear actuators set the backrest to 70 degrees and the thigh rest to 30 degrees, while lateral tilt rotates the platform up to 15 degrees side to side to shift weight off pressure points. Dual autoregression shifts the pivot of both the backrest and the seat sections as they move, which reduces shear along the torso and compression at the abdomen, and an anti contra-angle knee function prevents the leg section from bending past its intended alignment. Auto-contour links the backrest and knee bend so the patient stays in place as the head end rises.

The integrated scales system reads patient weight through load cells set between the platform and the frame, where a strain gauge in each cell changes resistance as the load deflects its sensing element. The controller sums the cell outputs and displays weight on the touch-screen panel alongside angle and height data. For emergencies, a damped quick-release decouples the backrest and lets it fall flat smoothly with one hand, functioning both electrically and mechanically so staff can begin CPR during a power loss.

TECHNICAL SPECIFICATIONS

ICU/CCU Bed (Premium) - ToronCare™ 1078 Technical Specifications

Parameter	Specification
External Dimensions	L2235 × W1050 × H540 to 940 mm (±10 mm)
Bed Surface (Mattress Platform)	L1965 × W920 mm (±10 mm)
Side Rail Height (above bed surface)	440 mm (±10 mm)
Backrest Angle	0 to 70°
Thigh Rest Angle	0 to 30°
Lateral Tilt	0 to 15°
Trendelenburg / Reverse Trendelenburg (TR/ATR)	0 to 12°
Bed Extension	200 mm (±10 mm)
Safe Working Load	240 kg (≈529 lb)
Integrated Scales System	Yes (load-cell based)
Lift System	2 × column motors plus 3 × linear motors
Voltage	100 to 240 VAC, 50/60 Hz, 4000 mA
Maximum Input	960 VA
Ingress Protection	IP54
Applied Part Type	Type B
Castors	4 × German Tente with central braking system

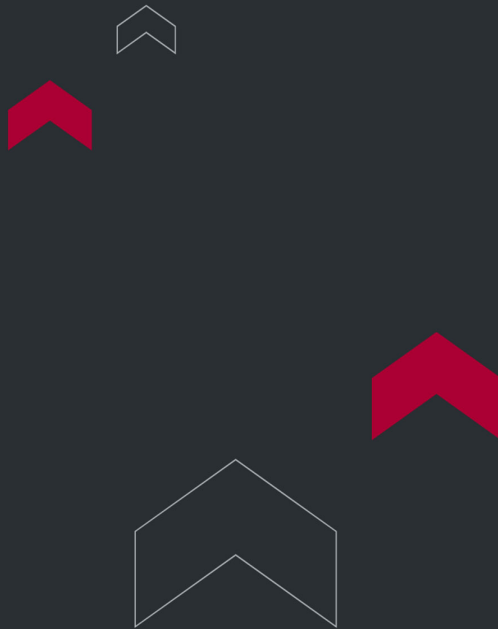
Standard Configuration

Item	Quantity
Control box	1 pc
Column motor	2 pcs
Linear motor	3 pcs
Nurse control panel	1 pc
Handheld control panel	1 pc
Side rail control panel	2 sets
Backup battery	1 pc
Night light	1 pc
Head / foot board	1 set
Side rail	1 set
Third protective side rail	1 set
Central brake castor	4 pcs
X-ray cassette holder	1 pc
Holes for I.V. pole	4 pcs
Protective bumper	4 pcs
Urine bag hook	4 pcs
Safety belt fixation holder	6 pcs
Linen shelf	1 pc
Cable holder	1 set

Item	Quantity
Extension mattress platform	1 pc

Optional Accessories

Item	Description
Mattress	ICU mattress for the platform
I.V. Pole	Infusion stand for fluid delivery
Lifting Pole	Patient self-help trapeze pole
Oxygen Cylinder Holder	Mount for an oxygen cylinder
Safety Belt	Patient restraint belt
Over Bed Table	Adjustable over-bed table
Bedside Cabinet	ABS and steel bedside storage cabinet
Foldable Accompany Chair	Folding chair for attending visitors



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