



TORONTECH

ICU/CCU BED (MULTIFUNCTION)



ICU/CCU Bed (Multifunction) - ToronCare™ 1071

ToronCare™ 1071 is an electric ICU bed built for intensive care units, critical care wards, and high-dependency areas where patient positioning, monitoring, and rapid intervention happen around the clock. Five powered functions cover backrest articulation, thigh rest elevation, full-height adjustment, and Trendelenburg and reverse Trendelenburg tilt, giving clinical staff precise control over patient posture from a single panel. Four Timotion linear actuators drive the motion smoothly and quietly, and a 240 kg safe working load supports a wide range of adult patients.

This Multifunction Electric ICU Bed combines safety engineering with bedside convenience. The mattress platform articulates into a cardiac chair position at the press of one button, an X-ray translucent back section lets technicians image the chest without transferring the patient, and both electric and mechanical CPR release the backrest to flat in an emergency. Split HDPE side rails carry integrated control panels, and a backup battery keeps the core functions running through a power interruption.

The ToronCare™ 1071 is manufactured to European medical device norms and carries an IP54 ingress rating for protection against cleaning fluids and dust. It suits hospitals, surgical recovery units, and long-term acute care facilities that need a durable, easy-to-disinfect ICU patient bed with full electric articulation and a dependable set of safety controls.

APPLICATIONS

ICU/CCU Bed (Multifunction) - ToronCare™ 1071 Applications

The ToronCare™ 1071 serves acute and critical care environments where adjustable positioning and rapid clinical access matter most. The bed adapts to a broad mix of patient conditions and ward workflows.

- Intensive Care Units (ICU): continuous positioning for ventilated and immobile patients, with Trendelenburg tilt and auto-contour to support circulation and pressure management.
- Critical Care and High-Dependency Units: full electric articulation and one-button presets that let nurses reposition patients quickly during monitoring and intervention.
- Cardiac Care Units (CCU): the one-button cardiac chair position raises the patient into an upright seated posture to ease breathing and support cardiac recovery.
- Post-Anesthesia and Recovery (PACU): height adjustment and tilt help manage patients emerging from anesthesia and reduce manual handling during transfer.
- Emergency Departments: electric and mechanical CPR release and rapid flat positioning support resuscitation and trauma response.
- Surgical and Post-Operative Wards: bed extension and leg articulation accommodate different patient heights and post-surgical positioning needs.
- Long-Term Acute Care Facilities: durable HDPE surfaces, central braking, and a low minimum height support extended-stay patient care and fall prevention.



Standards

The ToronCare™ 1071 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 (Multifunction) - ToronCare™ 1071 Key Features

The ToronCare™ 1071 brings together electric articulation, integrated safety systems, and durable materials selected for high-traffic critical care use.

01

Safety Upgrade

R&D, design, and production comply with European standards EN60601-2-52, EN60601-1-11, EN60601-1-2, and related requirements.



02

Excellent Quality

The headboard, footboard, and side rails are made of HDPE blow-molded material with no joints and easy-to-clean surfaces. The material can withstand temperatures up to 100°C, and its tensile strength reaches 30 MPa.



03

Patented Appearance

Patented angle indicator displays functional angle changes clearly for intuitive monitoring.



04

X-ray Inspection

The back plate uses transparent X-ray compatible material and includes an X-ray cassette holder. The bracket adopts a 6-position sliding and locking structure, making positioning easier without moving the patient.



05

One-Button Reset

One-button CPR function quickly returns the back section to a flat position, with manual and electric operation.



06

Efficient Battery

Equipped with a battery for emergency use, allowing more than 20 basic bed functions to operate independently under load.



- Five Powered Functions: backrest lift, thigh rest lift, bed height, and Trendelenburg and reverse Trendelenburg tilt give complete positioning control from one bed.
- One-Button Cardiac Chair Position: a single command moves the patient into an upright seated posture to support breathing and cardiac recovery.
- One-Button Bed Exit Position: a preset lowers and configures the bed to help mobile patients leave the bed safely and reduce fall risk.
- Electric and Mechanical CPR: a damped quick-release drops the backrest to flat with one hand, working with or without mains power for emergency response.
- Auto-Contour and Back Auto-Regression: synchronized backrest and leg motion plus a shifting backrest pivot reduce patient sliding, hip shear, and abdominal compression.
- X-Ray Translucent Back Section: the radiolucent back panel and integrated cassette holder allow chest imaging without transferring the patient off the bed.
- Integrated Bed Extension: the platform extends 200 mm to fit taller patients and adjust the usable bed length to the individual.
- Split HDPE Side Rails: four blow-molded side rails resist impact, withstand temperatures to 100°C, and clean easily with no joints to trap contaminants.
- Dual-Sided Rail Controls: outer panels with a locking system serve nursing staff, while inner panels with an emergency stop button stay within patient reach.
- Nurse Control Panel with Display: a central panel houses all functions, position presets, and lock controls, with a 3.5-inch screen showing backrest angle, bed height, and status data.
- Five-Button Handheld Remote: a simple corded remote covers core functions and includes a night-light button for low-disturbance care.
- Angle Indicators: mechanical gauges on the side rails display backrest angle and overall platform tilt at a glance.
- Timotion Linear Actuators: UL, RoHS, and EN certified actuators carry a service life of no fewer than 20,000 movements.
- Backup Battery Operation: stored power runs more than 20 basic functions under load during a mains interruption.
- German Tente Castors: four 125 mm castors with central locking offer brake, neutral steering, and directional lock positions.
- Four Anti-Collision Corners: corner bumpers extend beyond the main frame to absorb impacts and guide the bed smoothly past obstacles.

- Equipotential Bonding and IP54 Rating: a potential-equalization connection improves electrical safety alongside other equipment, and the IP54 rating protects against water spray and dust.

THEORY & METHOD

Theory and Method

An electric ICU bed converts rotary motor output into controlled linear motion to articulate a segmented mattress platform. Each Timotion actuator contains a motor that turns a lead screw, and the rotating screw moves a nut along its length, extending or retracting a push rod. The push rod pivots a section of the bed frame, so the backrest, thigh rest, and height columns each respond to a dedicated actuator. Limiting the motion electronically lets the bed hold backrest angles up to 65 degrees and thigh rest angles up to 25 degrees with repeatable accuracy.

Tilt functions work through the two height-column actuators operating in opposition. Raising the head columns while lowering the foot columns places the patient in Trendelenburg, and reversing the sequence produces reverse Trendelenburg, each reaching at least 12 degrees. The auto-contour function synchronizes the backrest and thigh rest so that raising the head end also bends the knees, which keeps the patient from sliding down and reduces shear at the hips. Back auto-regression shifts the backrest pivot as it lifts, adding clearance that limits abdominal compression and friction along the patient's torso.

The CPR mechanism addresses the need to deliver chest compressions on a firm, flat surface within seconds. A spring-loaded quick-release decouples the backrest actuator and lets the section drop, while a damping device controls the descent so the back panel falls smoothly rather than slamming down. The release operates with one hand and functions both electrically and mechanically, so staff can flatten the backrest even during a power failure.

TECHNICAL SPECIFICATIONS

ICU/CCU Bed (Multifunction) - ToronCare™ 1071 Technical Specifications

Parameter	Specification
Outer Dimensions (side rails up)	L2235 × W1035 mm (±10 mm)
Mattress Platform	L1925 × W900 mm (±10 mm)
Bed Height	465 to 800 mm (±10 mm)
Bed Extension	200 mm (±10 mm)
Maximum Backrest Angle	≥65°
Maximum Thigh Rest Angle	≥25°
Trendelenburg / Reverse Trendelenburg (TR/ATR)	≥12°
Side Rail Height (above mattress platform)	370 mm (±10 mm)
Safe Working Load	240 kg (≈529 lb)
Voltage	100 to 240 VAC, 50/60 Hz, 3500 mA
Maximum Input	840 VA
Ingress Protection	IP54
Equipment Safety Classification	Class II
Applied Part Type	Type B
Linear Actuators	4 × Timotion (UL / RoHS / EN), ≥20,000-movement life
Castors	4 × 125 mm diameter with central locking system
Backup Battery	Powers 20+ basic functions under load

Standard Configuration

Item	Quantity
Control box	1 pc
Linear motor	4 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
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	4 pcs
Linen shelf	1 pc
Cable holder	1 set
Extension mattress platform	1 pc

Optional Accessories



IV Pole

Stainless steel IV pole with dual hooks and adjustable height.



H-12 Mattress

High-density foam mattress for superior comfort and pressure distribution.



Lifting Pole

Sturdy lifting pole with ergonomic handle for patient assistance.

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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