



TORONTECH



ICU/CCU BED (WEIGHING SCALE MODEL)

ICU/CCU Bed (Weighing Scale Model) - ToronCare™ 1072

ToronCare™ 1072 is an ICU bed with weighing scale that captures patient weight directly on the mattress platform, removing the need to transfer unstable or immobile patients to a separate scale. The integrated load-sensing system reports weight on the nurse control panel alongside backrest angle and bed height, so care teams can track fluid balance and medication dosing without disturbing the patient. A bed-exit alarm watches for departure from the mattress platform and alerts staff, supporting fall-prevention programs in busy critical care wards. Four Timotion linear actuators drive the five powered functions, and the frame carries a 240 kg safe working load.

Beyond weighing, the ToronCare™ 1072 delivers the full positioning range expected of a critical care bed. Backrest and thigh rest articulation, full-height travel, and Trendelenburg and reverse Trendelenburg tilt give clinicians complete control of patient posture, while one-button cardiac chair and bed-exit presets speed up routine repositioning. An X-ray translucent back section with a cassette holder allows bedside chest imaging, and both electric and mechanical CPR drop the backrest flat for resuscitation.

Built to European medical device norms and rated IP54 against water spray and dust, this hospital bed with weighing scale suits intensive care units, dialysis and renal wards, cardiac units, and step-down facilities where serial weight data and continuous patient supervision shape clinical decisions. Split HDPE side rails, a backup battery, and German Tente castors round out a durable, easy-to-clean platform for round-the-clock use.

APPLICATIONS

ICU/CCU Bed (Weighing Scale Model) - ToronCare™ 1072 Applications

The ToronCare™ 1072 fits clinical settings where accurate patient weight and continuous supervision drive treatment, in addition to the positioning needs of any acute care unit. The integrated scale and bed-exit alarm extend its value beyond

standard ICU duty.

- Intensive Care Units (ICU): in-bed weighing supports fluid management and weight-based drug dosing for ventilated and immobile patients who cannot be moved to a stand-on scale.
- Dialysis and Renal Wards: serial weight readings track fluid removal across treatment sessions without repeated patient transfers.
- Cardiac Care Units (CCU): daily weight trends help monitor fluid retention in heart-failure patients, while the cardiac chair position eases breathing.
- Step-Down and High-Dependency Units: the bed-exit alarm flags unassisted departure for at-risk patients, reinforcing fall-prevention protocols.
- Post-Anesthesia and Recovery (PACU): height adjustment, tilt, and weight capture assist monitoring during recovery from anesthesia.
- Emergency Departments: rapid weight readings and electric or mechanical CPR support time-sensitive dosing and resuscitation.
- Geriatric and Long-Term Acute Care: continuous weight tracking and departure alerts suit extended-stay patients with elevated fall and fluid-balance risk.



FEATURES

ICU/CCU Bed (Weighing Scale Model) - ToronCare™ 1072 Key Features

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

The patented angle indicator clearly displays functional angle changes for intuitive monitoring.



04

X-ray Inspection

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



05

One-Button Reset

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



06

Efficient Battery

The built-in battery supports emergency use and enables more than 20 basic bed functions to operate independently under load.



09

Superior Actuators

Timotion linear actuators are certified to UL, RoHS, and EN standards, with a service life of no less than 20,000 movements.



10

Intelligent Control

The outer side rail features a nurse control lock system, while the inner side rail includes patient controls with an emergency stop button.



11

Intelligent Control

The simple hand controller includes five function buttons and a convenient night-light button.



12

Intelligent Control

The nurse control panel includes full-function operation, a corresponding lockout system, a one-touch patient exit position, a one-touch chair position, and an electric CPR function.



13

Electric Safety

Equipotential grounding between the hospital bed and other equipment improves electrical safety.



14

Comprehensive Protection

Corner bumpers extend beyond the main frame to help avoid obstacles.



The ToronCare™ 1072 pairs an integrated weighing system and fall-prevention alerts with the full electric articulation of a critical care bed.

- Integrated Weighing Scale: load cells under the platform capture patient weight and display it on the nurse panel, with no patient transfer to a separate scale.
- Bed-Exit Alarm: the load-sensing system detects departure from the mattress platform and sounds an alert to support fall-prevention programs.
- Nurse Control Panel with 3.5-Inch Display: a central panel houses all functions, position presets, and locks, and shows weight, backrest angle, and bed height on one screen.
- Five Powered Functions: backrest lift, thigh rest lift, bed height, and Trendelenburg and reverse Trendelenburg tilt cover the full positioning range.
- 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.
- Electric and Mechanical CPR: a damped quick-release drops the backrest flat with one hand, working with or without mains power.
- 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 panel and integrated cassette holder allow chest imaging without moving the patient.
- Integrated Bed Extension: the platform extends 200 mm to fit taller patients.
- Split HDPE Side Rails: four blow-molded rails resist impact, withstand temperatures to 100°C, and clean easily with no joints.
- Dual-Sided Rail Controls: outer panels with a locking system serve nurses, while inner panels with an emergency stop button stay within patient reach.
- Five-Button Handheld Remote: a corded remote covers core functions and includes a night-light button.
- Angle Indicators: mechanical gauges on the side rails show backrest angle and 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 frame to absorb impacts and guide the bed past obstacles.
- Equipotential Bonding and IP54 Rating: a potential-equalization connection improves electrical safety, and the IP54 rating protects against water spray and dust.

THEORY & METHOD

Theory and Method

In-bed weighing works through load cells mounted between the mattress platform and the bed frame. Each load cell contains a strain gauge bonded to a metal element that flexes slightly under load. As the patient's weight presses down, the element deforms, the strain gauge resistance changes in proportion to the applied force, and the system converts that signal into a weight value. Summing the output of the cells under all four corners gives total weight, and the controller displays the reading on the nurse panel. Taring the platform before placing the patient lets the bed subtract the mass of linens and equipment so the figure reflects the patient alone.

The bed-exit alarm builds on the same load-sensing hardware. The controller establishes a baseline weight distribution while the patient rests on the platform, then monitors for a change that indicates the patient has shifted toward the edge or left the bed. When the measured load drops below the set threshold, the system triggers an audible alert so staff can respond before a fall occurs. Because the function reuses the weighing sensors, it adds supervision without extra hardware on the frame.

Patient positioning relies on electromechanical actuation. Each Timotion actuator turns a lead screw that drives a nut along a push rod, converting motor rotation into linear travel that pivots a frame section. Dedicated actuators set the backrest to 65 degrees, the thigh rest to 25 degrees, and the height columns for Trendelenburg and reverse Trendelenburg of at least 12 degrees. A damped quick-release decouples the backrest for CPR, letting it fall flat smoothly with one hand even during a

power loss.

TECHNICAL SPECIFICATIONS

ICU/CCU Bed (Weighing Scale Model) - ToronCare™ 1072 Technical Specifications

Parameter	Specification
Outer Dimensions (side rails up)	L2235 × W1035 mm (±10 mm)
Mattress Platform	L1925 × W900 mm (±10 mm)
Bed Height	485 to 725 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)
Integrated Weighing	Yes, displayed on nurse control panel (load-cell based)
Bed-Exit Alarm	Yes, audible departure alert
Voltage	100 to 240 VAC, 50/60 Hz, 3500 mA
Maximum Input	840 VA

Parameter	Specification
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 (with weighing and bed-exit alarm)	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

Item	Quantity
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

Optional Accessories

Available add-ons for enhanced patient care and convenience.



IV Pole

Stainless steel IV pole with dual hooks and adjustable height.



H-12 Mattress

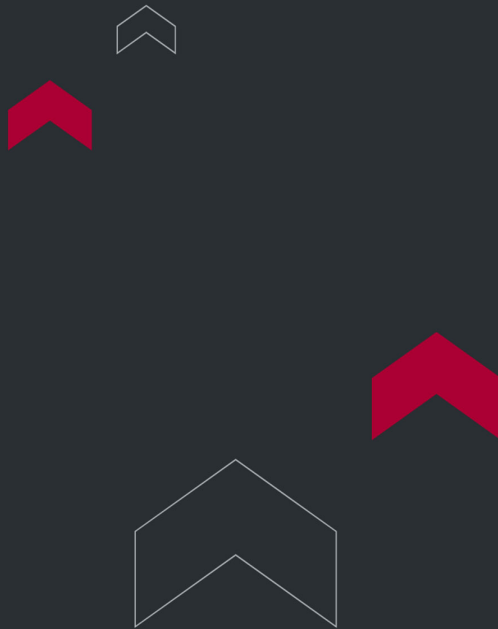
High-density foam mattress for superior comfort and pressure distribution.



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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