

MATRIX E50



MONITORING AND SURVEILLANCE

Accessible Intensive Care

Universal Healthcare

The simplicity of the solutions that characterise Matrix E50 makes it possible to increase patient accessibility to Intensive Care Units.

With the main features required to care for critically ill patients, such as emergency medical positions, weight monitoring and tools to reduce hospitalisation times, it becomes a bed that meets patients' therapeutic requirements and an indispensable tool for healthcare professionals.

Continuous Weighing

Improves the quality of the stay and increases the availability of caregivers with real-time patient weight display, without leaving the bed.

It includes weighing registration history with twelve memories, as well as zero and tare functions.

Interactive Alarms

The bed integrates audible and visual alarms, alerting to the exit of the patient until they are deactivated.

With the same technology, the system alerts to the overload, safeguarding the operation of the bed and therefore the patient's health. Embedded in the foot panel

TD &

7" touch screen





¹ Handset Control

Highly shock resistant. Portable control powered by an extendable helical cable.

Allows the following positions:

- Back and Legs
- Height
- Reverse Trendelenburg
- Cardiac Chair
- Examination
- Rest

³ Foot Controls

Used bilaterally, it makes it possible to position the bed with hands free for more effective treatments.

² Nurse Control

of the bed and recessed in the • Back and Legs foot of the bed panel. With selective locks as protection against accidental or improper use. Powered by an extendable helical cable.

Equipped with LED to indicate:

- Battery state
- Selective lock

Located in a drawer at the foot Allows the following positions:

- Auto Contour
- Height
- Trendelenburg and Reverse

- Cardiac Chair
- Examination
- Shock

• CPR

⁴ Built-In Controls

Integrated in the upper side rails, they are composed of 2 caregiver and 2 patient controls. Activation by GO button and selective locks as protection against misuse.

Equipped with LED to indicate: • 30° Back

- Battery state
- Selective lock
 - GO button

MULTIPLATFORM CONTROLS

User Friendly Device



Allows the following positions:

- Height
- Cardiac Chair
- CPR

- Allows the following positions:
- Back and Legs
- Height
- Trendelenburg and Reverse
- Cardiac Chair
- Examination
- Shock
- CPR
- Night Light

Cardiac Chair

Automatically performs, by the activation of a single button, the sitting position. Improves respiratory function and facilitate the administration of medication and the practice of autonomous activities.

Examination

Automatically performs, by the activation of a single button, the position of maximum height and levels the mattress platform. Ensures an ergonomically correct posture for carers during examinations and treatments.

Shock

It performs automatically, by the activation of a single button, the Trendelenburg position and levels the mattress platform. Used to reverse hypoxic episodes in vital organs.

CPR

Automatically sets the minimum height position and levels the mattress platform at the push of a single button. Ensures correct posture for patient and caregivers during cardiopulmonary resuscitation manoeuvres.



EFFECTIVE PROCEDURES

1 Button Releases



1 Stabilization



Seated Position High Backrest

2 Verticalization



Angle Gauges
Precise Medical Positions

Reverse Trendelenburg Set the Uprising

3 STEPS OF EARLY MOBILITY

Rails Handgrip **Safe Movements**

3 Mobilisation



Low Minimum Height Easy Bed Exit/Entry

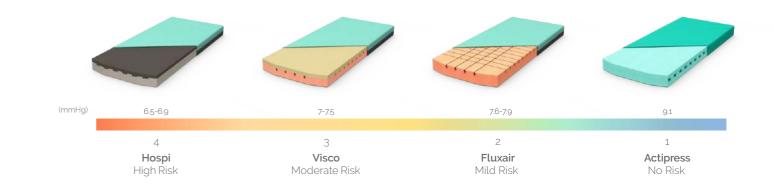


Double Autoregression

The articulation of the mattress platform (back + legs) causes harmful muscular pressure in the abdominal and lumbar areas.. By lifting the back and leg articulations, they simultaneously perform a synchronised horizontal glide

Pressure Ulcer Prevention

The double autoregression of the back and leg articulations causes decompression and relief of the sacroiliac area, a critical point in the development of pressure ulcers.





Night Light

Matrix E50 model has a night light option that facilitates patient orientation in low light environments. Bicoloured light, it changes its colour when at minimum height, thus allowing a quick check whether the bed is in the safe sleeping position.

ENHANCED SAFETY Fall Prevention

ENHANCED SAFETY

Fall Prevention



EN 60601-2-52 Standard

Side rails comply with EN 60601-2-52.

They prevent and avoid the risk of injuries caused by accidental falls through high side coverage.

Self-Confidence

The bed has features designed to help in the recovery such as the design of the split side rails, so that only one rail is lowered, helping in the exit of the bed, or the automatic stop in the best bed exit height.





Bed Exit Alarm

Activated from the monitoring screen, it is triggered when the system no longer detects the patient's weight, activating an audible and visual warning. This feature dramatically decreases the time it takes to assist patients who need help getting out of bed, thus mitigating the effects of potential falls.



Selective Locking

The electrical functions of the bed can be selectively disabled for reasons of functional convenience or safeguarding the patient's health, the exception being the emergency functions, which are not affected by selective locking.



Emergency Procedures

Endotracheal Intubation

The bed end panels are vertically removable. However, the headboard support structure is fixed to the base, allowing unobstructed intubation. By raising the mattress platform to the Examination position with a single button, removal of the panel becomes unnecessary.



Manual CPR

The bed has bilateral quick-folding handles on the back section for cardiopulmonary resuscitation manoeuvres. They are located at the apexes of the back section for easy access and use.

INFECTION CONTROL

Hospitality



Mattress Platform

The bed frame consists of 11 modular components made of plastic (PPC) or 4 phenolic panels (HPL). All the components can be extracted for cleaning using a quick-lock system

Support Drawer

The foot panel has an optional, telescopic-opening, retractable linen holder to support the bed changing service.

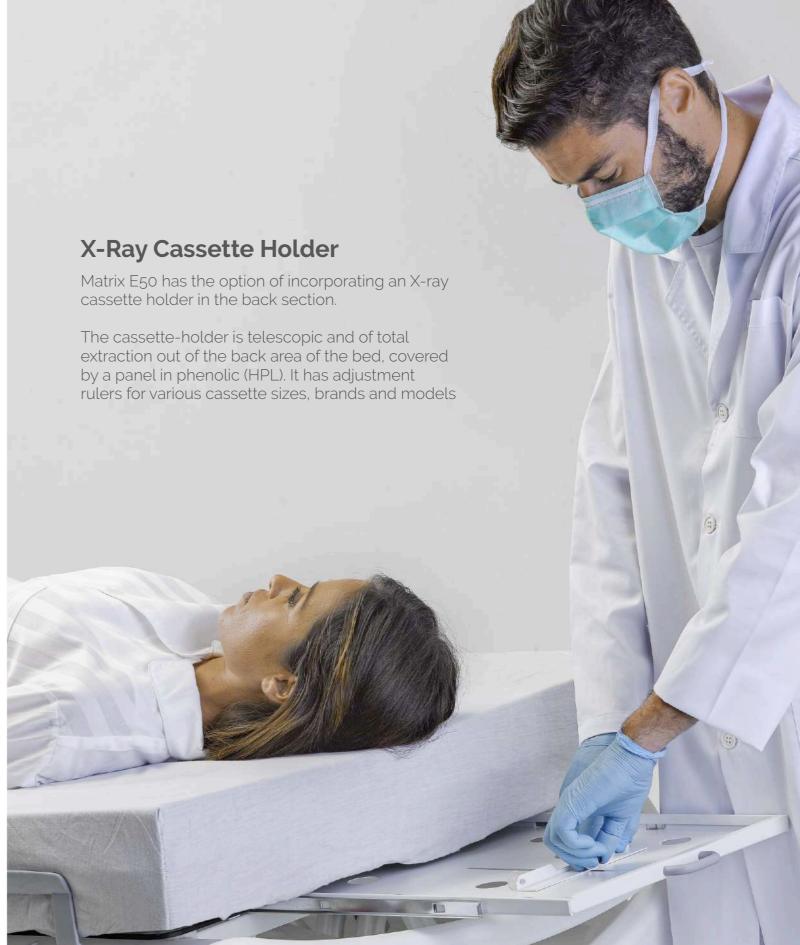




One Hand Bed Extension

One-handed adjustable foot panel, allowing for quick and easy extension of the bed. Telescopic mattress support grid, allowing the extension to be maintained with the articulated foot section

cassette holder in the back section.



LIGHT HANDLING Emergency Procedures



LIGHT HANDLING

Easier Transport

1 Power Cable Protection

Power cables damaged by transport is one of the most frequent malfunctions in electric hospital beds.

Matrix E50 is equipped with a convenient portable cable holder to fit on top of the head panel in addition to the fixed frame reel.

2 Batteries

Beds equipped with a battery system to maintain the operation of the bed when disconnected from the power supply. For long autonomy, we rely on a high-performance lithium battery.

When connected to the power supply, it electronically manages the charging, making it unnecessary to disconnect the power socket once the batteries are charged. Certified with electrical surge protection and antistatic wheel option.

3 Total Disinfection

The design of the bed has been conceived to facilitate the cleaning process. Reducing as far as possible the points where dirt accumulates.



Transport Handgrips

The bed end panels design incorporates handgrips so the caregivers have a smooth and easy transport handling.



Zero Gap

When folded down, the side rails fold out from under the bed. This allows a stretcher to be placed against the bed and the patient to be safely transferred, facilitates patient entry and exit and does not disturb medical interventions.



Transport Locks

The bed end panels have buttons to block their removal, ensuring safer transport for patients and caregivers.



Brake Pedals

Bed equipped with brake pedals, with centralised braking on all 4 wheels and directional lock on one.



LIGHT HANDLING

Easier Transport

Brake Bar

Option of bed equipped with crossbrake bar, with centralised braking on all 4 wheels and directional lock on one.



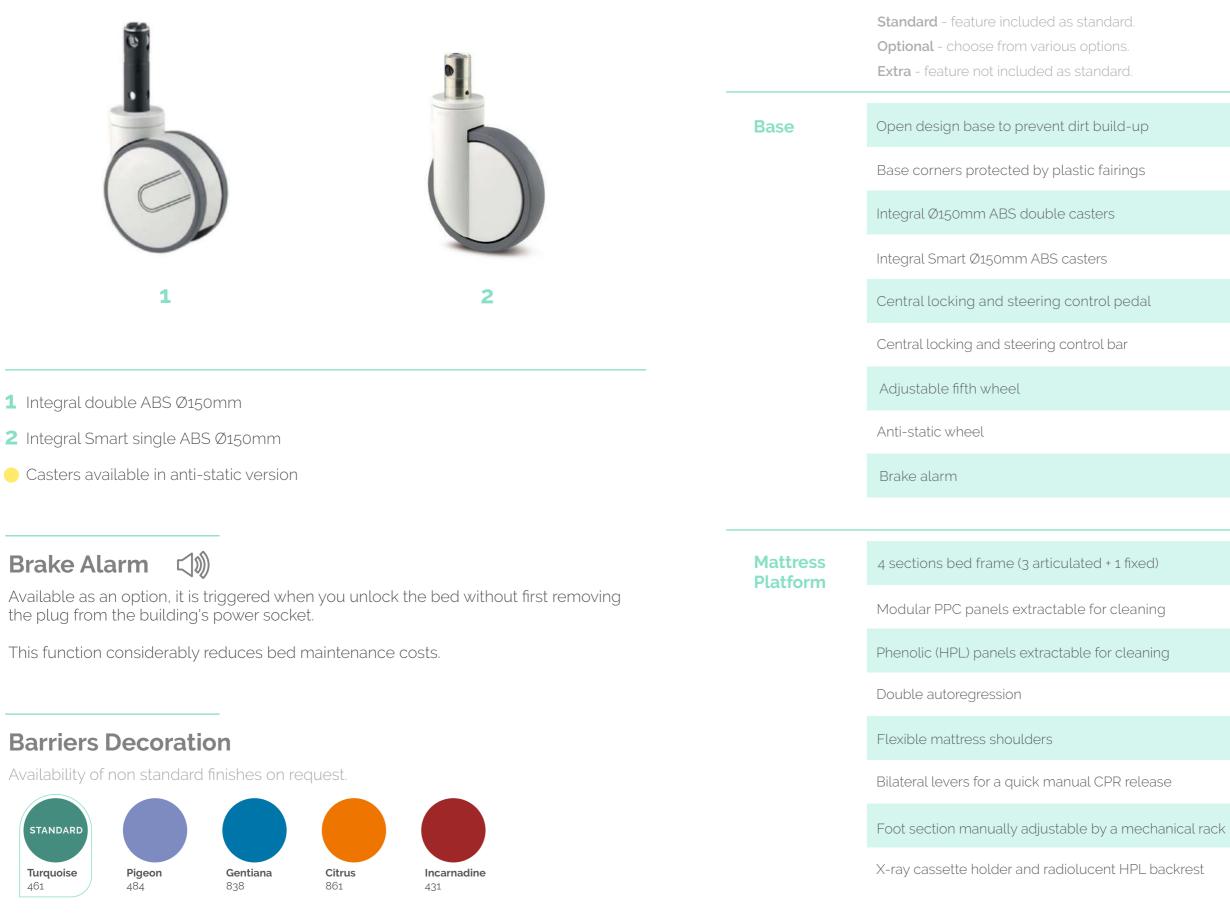
Fifth Wheel

System that improves the manoeuvrability of the bed in tight spaces by rotating 360° on a vertical axis.

For movement in a straight line, the drive is carried out on the brake pedals in directional lock position.

LIGHT HANDLING

Easier Transport



TECHNICAL FEATURES Model 944.E5 Optional Standard Extra

echanical rack

	Standard - feature included as standard. Optional - choose from various options. Extra - feature not included as standard.	Standard	Optional	Extra		Standard - feature included as standard. Optional - choose from various options. Extra - feature not included as standard.
Structure	Bed frame with Ipx4 protection	•			Side Rails	Splitted, in HDPE medical (High Density Po
	Robust metal frame epoxy painted	٠				Backrest and Trendelenburg angle gauge
	Mobile components zinc plated or/and stainless steel	•				Collapsible and folding system Gap Zero
	Headboard frame fixed to base	•				Soft drop released by red handle
	Corners protected by soft bumpers	•				
	Bilateral foley bag hooks	•			Electric	Motions managed by a microprocessed ur
					Setup	Low voltage motors DC24V (4 linear actua
Head/Foot Boards	In HDPE medical (High Density Polyethilene)	•				Lithium batteries with discharge alarm
	Easily removable	٠				Cable holder for transport
	Transport lockers (removed on demand)	•				
	One hand mattress platform extension		٠		Control	Side rails built-in controls (2 exterior + 2 inte
	Foot end with rack for nurse control support	٠				Handset control with extendable helical ca
	Linen holder drawer			•		Nurse control with extendable helical cable
					-	Bilateral foot control
Load Monitor	Integrated weighing system	٠				Bicoloured night light (rest position)
	Bed exit alarm	٠				Monitoring touch screen
	Overload alarm	•				

TECHNICAL FEATURES

Model 944.E5



IV Pole



Support for monitor with straps Epoxy painted structure Foldable top in phenolic (HPL)



Serum support Stainless steel column Adjustable rod with 4 hooks

Serum support Epoxy painted column Adjustable rod with 4 hooks





Patient lifting Stainless steel column Trapezee with adjustable handle

Patient lifting Stainless steel column Trapezee with auto-adjustable handle



Support for urinal Calibrated stainless steel rod construction Removable and adjustable

Bilateral DIN bar for accessories 4 sliding hooks included

O2 Tank Holder



Support for oxygen tank Fitting on the corners of the bed In stainless steel





Support for 2 crutches Rubber fitting Epoxy painted structure Removable and adjustable

BED ACCESSORIES

Monitor Stand



Urinal Holder

910.530

Optional

Crutches Holder

910.570

MATRIX E50



Recommended mattress dimensions

External dimensions

Width with raised siderails

Min/Max height

Maximum back incline

Maximum Cardiac Chair

Maximum leg incline

Maximum foot lowering

Maximum incline

Trendelenburg Reverse Trendelen

Maximum patient weight

Power supply

Control unit power

Battery charge

Electrical protection

Registry and Conformity

- CE Mark

- Officially registred as Medical Device Class I, nº 125/DM/2017/01/217 Infarmed
 Over the scope of Regulation (EU) 2017/745/EU and Decree-Law 145/2009
 Certifyed according to the standard EN ISO 9001 Quality Management System
 Certifyed according to the standard EN ISO 13485 Medical Devices Conception and Manufacturing

TECHNICAL SPECIFICATIONS

le	Dimensions	+/- 5%
	1970 x 860 x 120/150 n	nm
	2195 x 1000 mm	
	1020 mm	
	410/783 mm*	
	Joints	+/- 5%
	70°	
	90°	
	40°	
	25°	
nburg	17° 17°	

Capacities +/- 5%

Capacilles	+/-5%
250 Kg	
100-240 VAC, 50/60 Hz	
390 VA	
18 W	
Class 1 Applied parts type B	

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