



Premium Hospital Beds

MATRIX E20





Handset Control

Highly shock resistant.
Powered by an extendable
helical cable.

Allows the following positions:

- Back and Legs
- Height
- Auto Contour
- Trendelenburg and Reverse

Cardiac Chair

By combining Reverse Trend. and Auto Contour, the bed performs the sitting position. Used to improve respiratory function, ease in the administration of medications and in the practice of autonomous activities.



Vascular

It performs, through the combined articulation of legs and feet sections, the Vascular position. Used to improve blood circulation after some vascular surgery and to reduce the risk of hypovolemic shock.



Shock

By adjusting the Trendelenburg function to a maximum angle of 17° it is possible to help a patient in hypovolaemic shock. The legs can be further elevated to accentuate inclination.



Auto Contour

Automatically performs, by the activation of a single button, the position of Auto Contour, raising the leg and back sections in sync. Ensures a correct patient positioning when raising his back.



Self-Confidence

An important factor in reducing the length of hospital stays is the recovery of the patient's confidence in their motor skills.

The bed has features designed to help with this task, such as the Auto Contour, which helps you sit up without fear of slipping, the design of the side rails, which double as support when getting out of bed, or the reduced height of the bed. Built-in and nurse controls not available as standard on E20 version.



Full-Length Side Rails

Option of metal side rails in epoxy-painted steel tube and extension with plastic ear. Folding, with safety lock and ergonomic handle for movement.

Split Side Rails

Side rails comply with EN 60601-2-52.

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



Function Lock

As an option, the Matrix E20 bed may be equipped with a nurse control for blocking electrical functions for functional convenience or to safeguard the patient's health.



3 STEPS OF EARLY MOBILITY
Better Outcomes

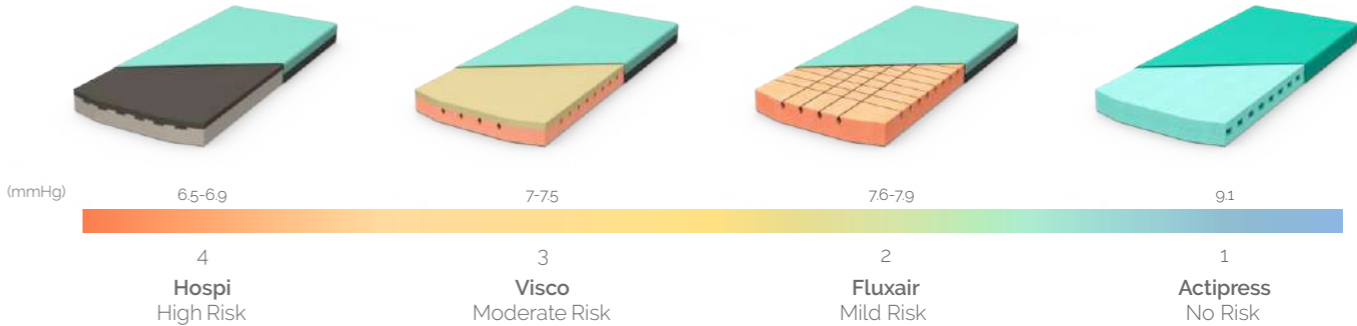


Double Autoregression

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.



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



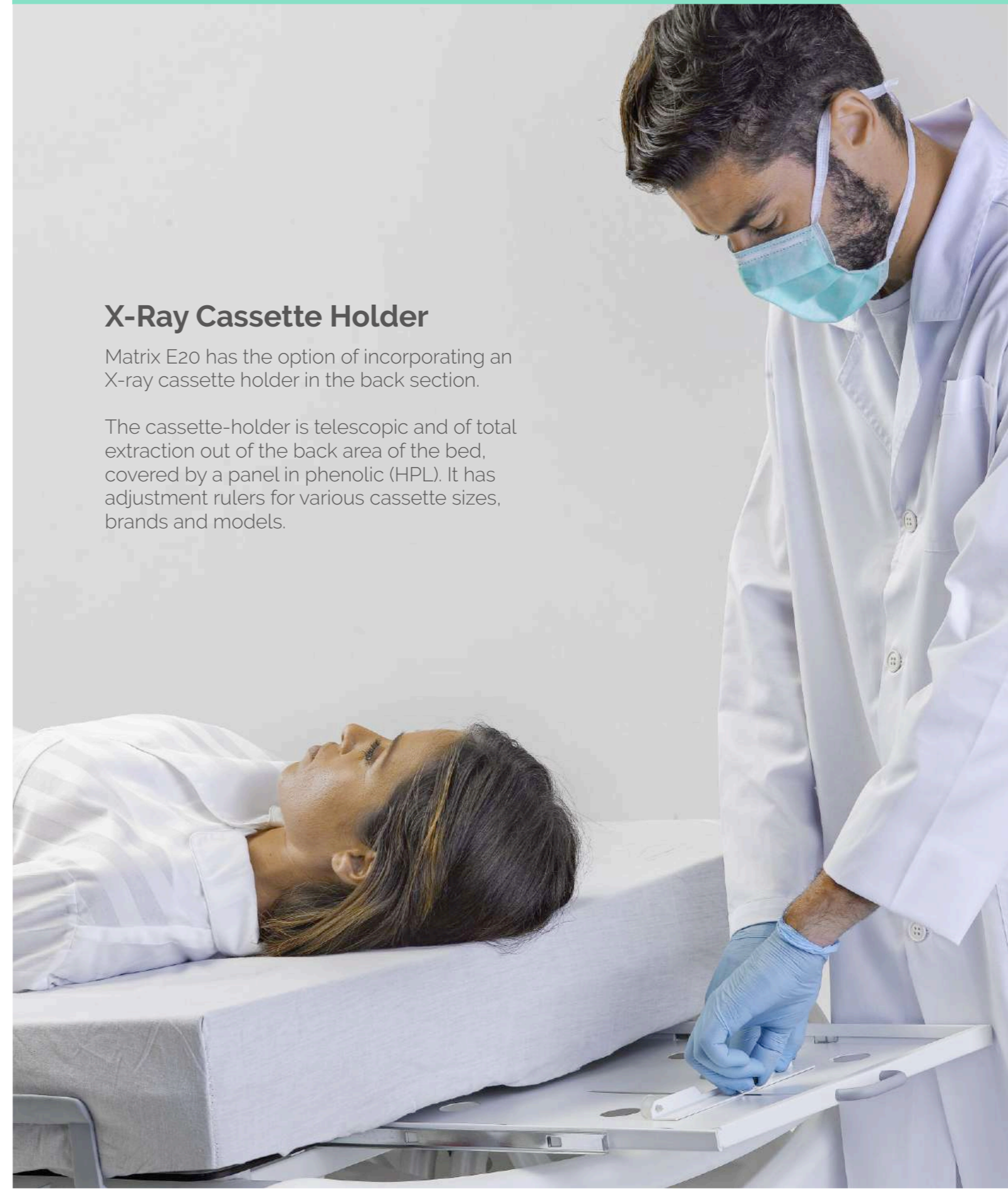
Infection control

The head/foot panels and the split side rails are produced in HDPE medical, a material with great capacity for hygiene and disinfection, durability and high resistance to shock.

The panels are vertically removable and have lockers for transportation.

LIGHT HANDLING

Emergency Procedures



X-Ray Cassette Holder

Matrix E20 has the option of incorporating an X-ray cassette holder in the back section.

The cassette-holder is telescopic and of total extraction out of the back area of the bed, covered by a panel in phenolic (HPL). It has adjustment rulers for various cassette sizes, brands and models.

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 E20 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.

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 anti-static 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.



Brake Bar

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



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.



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



1



2

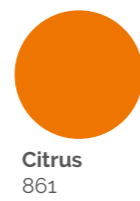


3

- 1 Integral double ABS Ø150mm
- 2 Integral Smart single ABS Ø150mm
- 3 Zinc steel single Ø150mm
- ABS casters available in anti-static version

Barriers Decoration

Availability of non standard finishes on request.



TECHNICAL FEATURES

Model 944.E2

Standard - feature included as standard.

Optional - choose from various options.

Extra - feature not included as standard.

Standard

Optional

Extra

Structure

Bed frame with lpx4 protection



Robust metal frame epoxy coated



Mobile components zinc plated or/and stainless steel



Headboard moves with frame



Corners protected by soft bumpers



Bilateral foley bag hooks



Mattress Platform

4 sections bed frame (3 articulated + 1 fixed).



Modular PPC panels extractable for cleaning



HPL panels extractable for cleaning



Double autoregression



Flexible mattress shoulders



Foot section manually adjustable by a mechanical rack



X-ray cassette holder and radiolucent HPL backrest



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Standard
Optional
Extra

Standard
Optional
Extra

	Standard	Optional	Extra		Standard	Optional	Extra	
Base	Open design base to prevent dirt build-up	●		Side Rails	Splitted, in HDPE medical (High Density Polyethylene)		●	
	Base corners protected by plastic fairings	●			Full-length, in epoxy painted metal		●	
	Integral Ø150mm ABS double casters		●		Backrest and Trendelenburg angle gauge	●		
	Integral Smart Ø150mm ABS single casters		●		Collapsible and folding system Gap Zero	●		
	Ø150mm zinc steel single casters		●		Soft drop released by red handle	●		
	Central locking and steering control pedal		●					
	Central locking and steering control bar		●					
	Fifth wheel				●	Electric Setup	Motions managed by a microprocessed unit	●
	Anti-static wheel				●		Low voltage motors DC24V (4 linear actuators)	●
				Lithium batteries with discharge alarm			●	
				Cable holder for transport	●			
Endboards	In HDPE medical (High Density Polyethylene)	●		Control	Handset control with extendable helical cable	●		
	Easily removable	●			Nurse control with extendable helical cable		●	
	Transport lockers (removed on demand)	●						
	Foot end with rack for nurse control support	●						
	Linen holder drawer				●			

BED ACCESSORIES

IV Pole



Serum support
Stainless steel column
Adjustable rod with 4 hooks

910.104i

Serum support
Epoxy painted column
Adjustable rod with 4 hooks

910.104



Crutches Holder

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

910.570

Lifting Trapezee



Patient lifting
Stainless steel column
Trapezee with adjustable handle

910.200

Patient lifting
Stainless steel column
Trapezee with auto-adjustable handle

910.201



Writing Tray

Foldable writing tray
Epoxy painted structure
Top in phenolic (HPL)

910.806

O2 Tank Holder



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

910.530



Urinal Holder

Support for urinal
Calibrated stainless steel rod construction
Removable and adjustable

910.530

Bilateral DIN bar for accessories
4 sliding hooks included

Optional

Monitor Stand



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

910.810



Orthopaedic Frame

Removable, full orthopaedic traction structure, made of stainless steel.
Covering the entire length of the bed,
With lateral length and height adjustment.

910.421

Simple traction frame
Fit at the foot of the bed
Weights and cables not included

910.423

MATRIX E20

* Ø150mm ABS caster, PPC frame

Dimensions +/- 5%

Recommended mattress dimensions	1970 x 860 x 120/150 mm
External Dimensions (split rails)	2181 x 1020 mm
External Dimensions (full-length rails)	2181 x 1000 mm
Minimum/Maximum Height	390/763 mm*

Joints +/- 5%

Maximum back angle	70°	
Maximum Cardiac Chair	90°	
Maximum leg angle	40°	
Maximum foot angle	25°	
Maximum incline	Trendelenburg	17°
	Reverse Trendelenburg	17°

Capacities +/- 5%

Maximum patient weight	250 Kg
Power supply	110-240 VAC, 50/60 Hz
Control unit power	200 VA
Battery charge	18 W
Electrical protection	Class 1 Applied parts type B



Registry and Conformity

- CE Mark
- Officially registered as Medical Device Class I, n° 125/DM/2017/01/217 - Infarmed
- Over the scope of Regulation (EU) 2017/745/EU and Decree-Law 145/2009
- Certified according to the standard EN ISO 9001 - Quality Management System
- Certified according to the standard EN ISO 13485 - Medical Devices Conception and Manufacturing

medi⁺ HEALTH

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