

MATRIX E40



premium hospital beds



1946-2016
70 years

IMO

medical beds worldwide



FEATURES



CONTROL



- 01 Articulated trapezes lifting system.
- 02 Footend supervisor control..
- 03 OPTION - Side-rails embbede d controls.
OPTION - Handset portable control
- 04 OPTION - Foot control



ERGONOMY



- 05 Double auto-regression sliding.
- 06 Modular mattress platform made in PPC fiberglass reinforced.
- 07 Fixed to base head board frame.
- 08 Extensible mattress platform at footend section.



SAFETY



- 09 Head/foot boards and side-rails made in HDPE.
- 10 Splitted side-rails with angle gauges.
- 11 Bilateral CPR handle.
- 12 Electric functions selective locking.



MOBILITY



- 13 OPTION - SIMPLE or TWIN casters Ø150mm ABS shielded with central and steering locking system.
OPTION - SIMPLE casters Ø150mm with central and steering locking system.
- 14 OPTION - Brake alarm.
- 15 OPTION - Fifth wheel.
- 16 Back-up batteries pack.

MATRIX E40

premium hospital beds



◀ **CONTROL** ▶

01 ARTICULATED TRAPEZES LIFTING SYSTEM



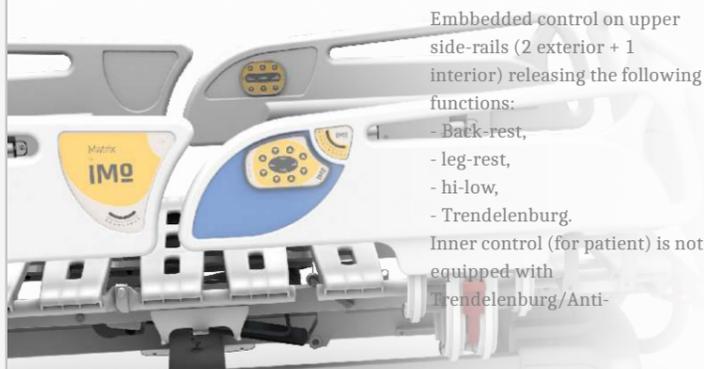
ELECTRIC HEIGHT ADJUSTABLE
Height adjustable system by articulated trapezes electrically operated by 2 linear motors Linak brand.
Lifting stroke of 380 mm and a maximum patient load of 250kg.

02 SUPERVISOR CONTROL



SUPERVISOR CONTROL
Portable control with foot end stowage options and the following functions:
- Auto-CPR / Sleep,
- Shock (emergency Trendelenburg),
- Cardiac Chair,
- Hi-Low.
Coil cable enhancing moving the control.

03 CONTROLS OPTIONS

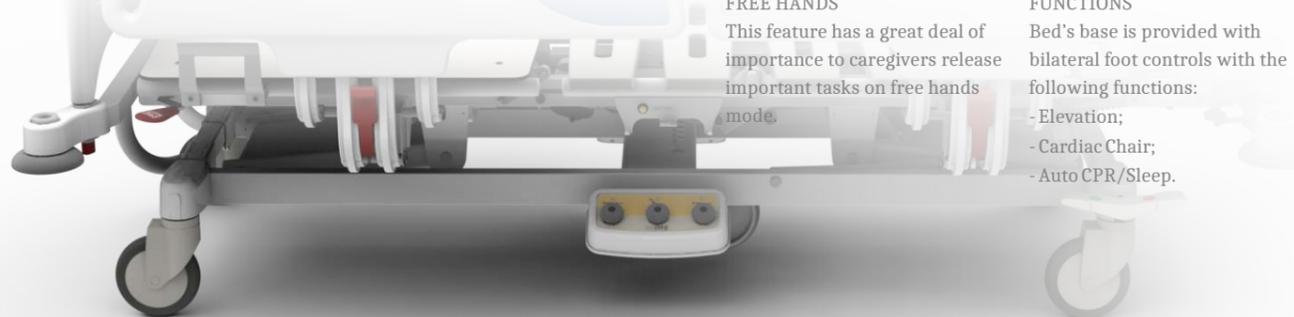


EMBEDDED ON SIDE-RAILS
Embedded control on upper side-rails (2 exterior + 1 interior) releasing the following functions:
- Back-rest,
- leg-rest,
- hi-low,
- Trendelenburg.
Inner control (for patient) is not equipped with Trendelenburg/Anti-

HANDBET PORTABLE CONTROL
Handset simple control with 8 keys IN OPTION, releasing the following functions:
- Back-rest,
- leg-rest,
- hi-low,
- Trendelenburg.
Coil cable enhancing moving the control.

ANGLES GAUGE
Side-rails integrate angles gauges to check back-rest inclination on head side-rails and Trendelenburg inclination on footend side-rails.

04 FOOT CONTROL (OPTION)

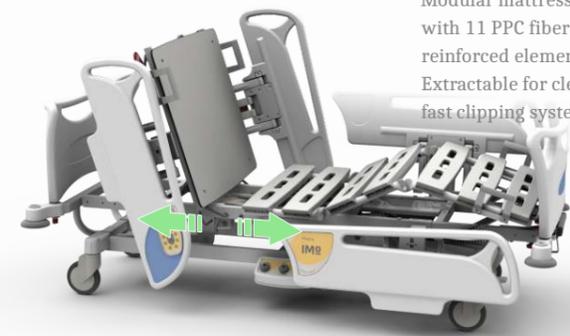


FREE HANDS
This feature has a great deal of importance to caregivers release important tasks on free hands mode.

FUNCTIONS
Bed's base is provided with bilateral foot controls with the following functions:
- Elevation;
- Cardiac Chair;
- Auto CPR/Sleep.

◀ **ERGONOMY** ▶

05 BACK-REST AUTO-REGRESSION



MATTRESS PLATFORM
Modular mattress platform made with 11 PPC fiberglass reinforced elements.
Extractable for cleaning by an fast clipping system.

ABDOMINAL DECOMPRESSION
Back-rest articulation causes a harmful stress on the patient's abdominal and lumbar body areas.
On raising platform articulation a simultaneous synchronized sliding is released. Is indeed a very important feature to get a muscular relief especially along abdominal surgery recovering.

PRESSURE ULCERS PREVENTION
Mattress platform double auto-regression of back/legs also provides a pelvic and sacro-iliac zone relief, a critical point on pressure sores development.

06 X-RAY CASSETTE HOLDER (OPTION)



RADIOTRANSLUCENT PLATFORM
Back-rest section made of radiotranslucent HPL Compact, removable for cleaning, allows the collection of x-ray pictures of head and trunk.

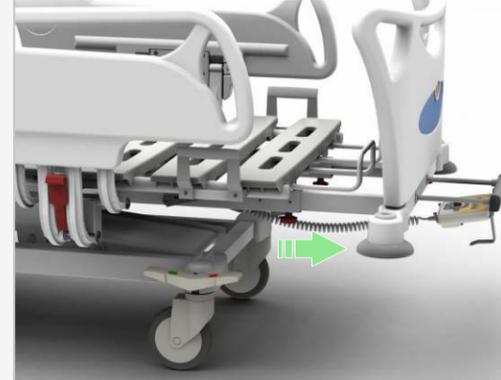
UNIVERSAL CASSETTE HOLDER
Telescopic drawer with bearing ball slide, extractable on head end side. Can be opened without lifting back-rest section.
Length adjustable ruler to fit cassettes of up to 480 x 370 x 18.

07 ENDOTRACHEAL INTUBATION



FIXED TO BASE HEADBOARD
Head and foot boards are vertically removable and equipped with locking buttons for transportation (optional). However, headboard frame is fixed to the base and platform articulations independent, facilitating endo-tracheal intubation maneuver by moving the bed to it highest position. Removal headboard no need.

08 EXTENSIBLE FOOTEND



EXTENSION FEATURE
The footend board is length adjustable by fixation knobs to allow the mattress platform extension over 220 mm.
Is equipped with a telescopic mattress rack to keep extension feature with the foot section raised.

SUPPORT DRAWER
The footend has a retractable rack with telescopic opening. It can be provided with the option of supervisor control drawer, the option to support the bed linen exchange service or with a non-retractable rack.

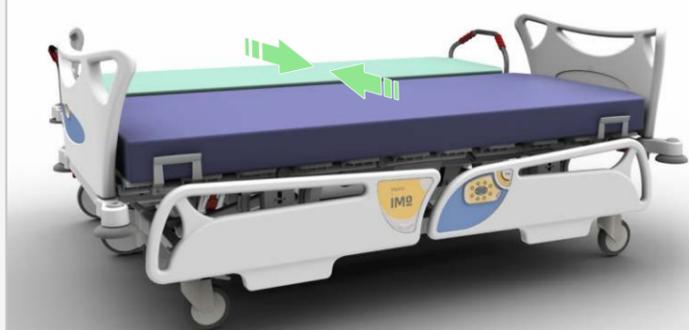
< SAFETY >

09 NIGHT LIGHT (OPTION)



NIGHT LIGHT
Composed by 1 white LED + 1 blue LED. Blue LED turns on when bed reaches minimal height indicating patient is placed on a safe position for a night sleep. Night light has a connector switch and requires the bed plugged to an electric power source.

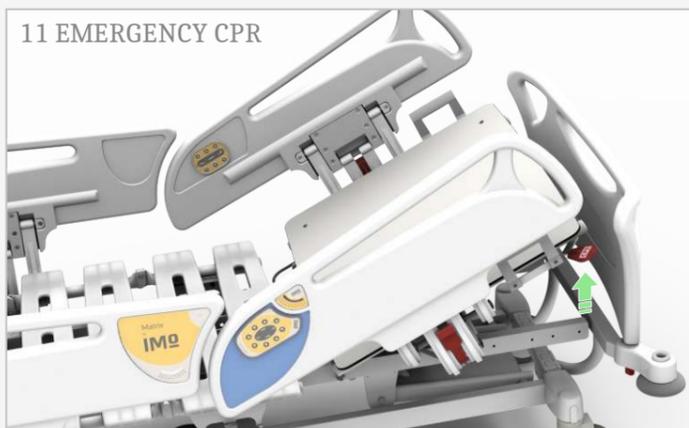
10 RISK OF FALLS



STANDARD EN 60601-2-52
The side-rails are always included on the bed set-up and meet the new safety European Norm EN60601-2-52. Prevent and avoid the risk of injuries on patient's accidental falls, by a lateral coverage high degree and components has adequate gaps to prevent body parts trapping.

GAP ZERO
Side-rails are splitted and collapsible individually. The locking on upper position is made by a steel paw and has a safety lever which impedes the accidental triggering. While folded retract over the platform edge to enable the Zero Gap on stretchers transference.

11 EMERGENCY CPR



MANUAL CPR
The bed has bilateral levers to a quick release back-rest dropping while a cardiopulmonary reanimation procedure. Are placed on the back-rest section edge corners to improve ergonomcy performance. Are made in red plastic to ensure an instant identification. Labelling is according safety european standards.

AUTO CPR
Overall articulations automatic disarming is possible in the Supervisor control or on Foot control (when this option is chosen in the bed configuration). It also fits as the Sleep function once positioning the bed in the minimum height, the safest position for patient's night sleep cycles.

12 FUNCTIONS LOCKING



SELECTIVE LOCKING
The electrical functions can be locked by service convenience purposes or patient healthcare protection. Locking buttons are placed on Supervisor control, locking selectively hi-low motors and/or mattress platform motors (back and leg-rest).

< MOBILITY >

13 CENTRAL LOCKING SYSTEM



HIGH RANGE CASTERS
High quality Ø150mm casters made by german brand Tente, available in 3 options:
- Metal simple caster;
- ABS shielded simple caster;
- ABS shielded twin caster.

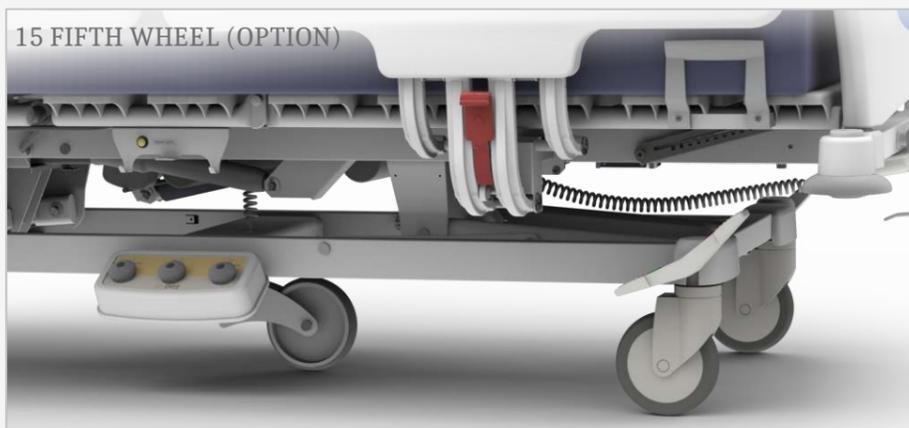
CENTRAL LOCKING
Is provided by 2 brake pedals, one in each bed's corner, with central effect and the following functions:
- Free course;
- Total locking;
- Steering lock.

14 BRAKE ALARM (OPTION)



BRAKE ALARM
Available as a Foot control feature it acts when bed is unlocked and the power cord remains plugged. This feature reduces considerably the maintenance costs.

15 FIFTH WHEEL (OPTION)

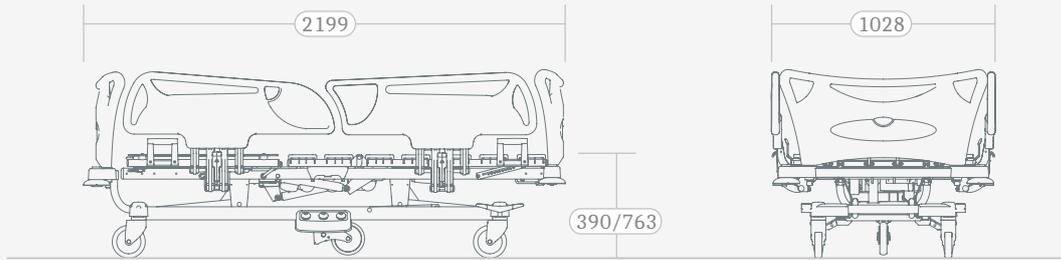


FIFTH WHEEL
The fifth wheel system significantly improves the bed's maneuverability in narrow spaces. Is equipped with a Ø150mm caster. The control unit is integrated in the brake pedals at directional locking position, making it unnecessary to incorporate a dedicated pedal. Available in 3 options:
- Permanent contact,
- Ajustable,
- Ajustable with antistatic caster.

16 BATTERY BACK-UP



BATTERIES PACK
Bed has a 2 gel batteries pack (2x1,2Ah) to maintain full operability off power supply. It has a range of about 100 cycles or 24 hours on stand-by. When plugged to power supply, it does an electronic loading management, being unnecessary unplugging the power cord once loaded.



DIMENSIONS (±5%)

Mattress platform	1950 x 860 mm
External dimensions	2199 x 1000 mm
Raised side-rails width	1028 mm
Minimum/maximum height*	390 / 763 mm

*Height with HPL mattress platform.

ARTICULATIONS (±5%)

Back-rest maximum angle	66°
Cardiac Chair	83°
Leg-rest maximum angle	32°
Foot-rest maximum angle	26°
Maximum tilting	
Trendelenburg	17°
Anti-Trendelenburg	17°

CAPABILITIES (±5%)

Patient maximum load	250 Kg
Overall bed weight	134 Kg
Electric tension	230VAC-50/60Hz
Option	110/120VAC-50/60Hz
Maximum electric power	180 W
Batteries electric power	18 W

REGISTRY AND CONFORMITY

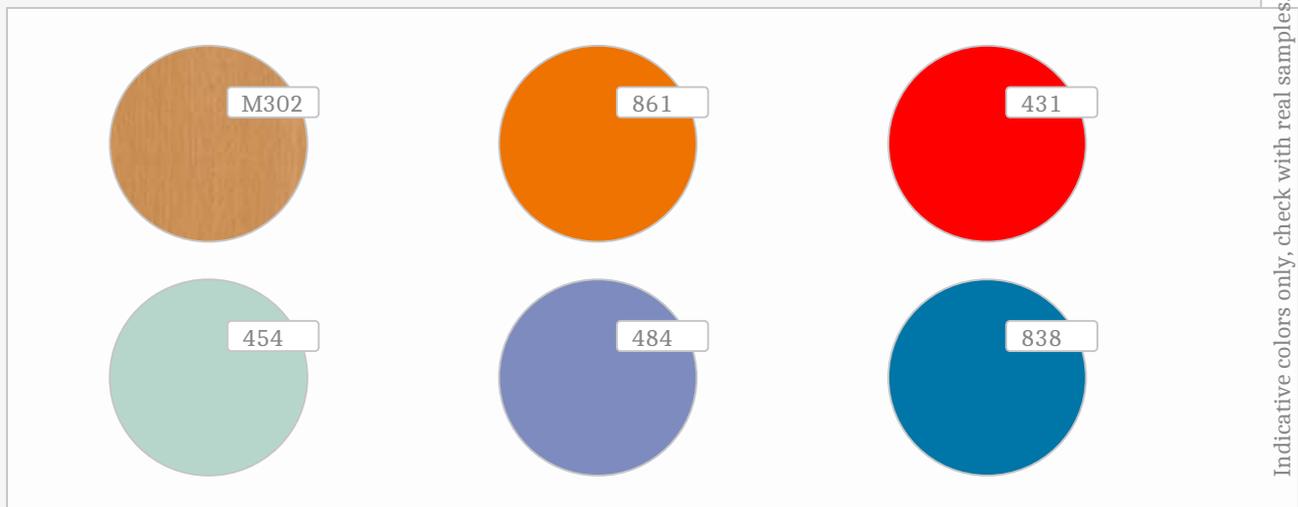
Product officially registered as Medical Devices Class I.

Medical device code 17301998 - Reference 944.E2.

It follows UE directive 2007/47/EE, annex IX.

CE mark.

IMO is certified company over the standard NP EN ISO 13485:2017 (Medical devices).



Indicative colors only, check with real samples.

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