

premium hospital beds

(944.E3) MATRIX E30



premium hospital beds

MATRIX E30



**IMO**



## multiplatform controls

## caregivers friendly devices

### 1. HANDSET CONTROL

Highly shock resistant. Provided with a coil cable.

Releases the above functions:

- Back-Rest
- Leg-Rest
- Platform Elevation
- Contour (Back+Legs)
- Trendelenburg / Anti-Trend.

### 2. SUPERVISOR CONTROL

Placed on a footend drawer provided with a coil cable, can be placed on the footend board top.

Releases the above functions:

- Platform Elevation
- Auto Chair
- Auto CPR
- Shock

Provided with LED to indicate:

- Battery charge level
- Selective Locking Functions.

### 3. FOOT CONTROL

Bilaterally featured allows to control the bed on free hands for enhanced procedures and patient handling.

Releases the above functions:

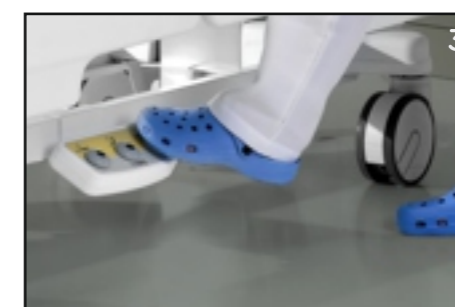
- Auto Chair
- Platform Elevation
- Auto CPR

### 4. SIDE-RAIL CONTROLS

Embedded on upper side-rails are composed by:

- Internal control for patient
  - Back-rest
  - Legrest
  - Platform Elevation

- External control for caregiver
  - Back-Rest
  - Leg-Rest
  - Platform Elevation
  - Trendelenburg / Anti-Trend.





# enhanced procedures



## 1. AUTO CHAIR

Automatic release by pressing a single button up to the body seated position (Cardiac Chair) to improve the respiratory function.



## 3. SHOCK

Automatic release by pressing a single button up to maximum Trendelenburg position to revert hypoxia episodes in vital organs.

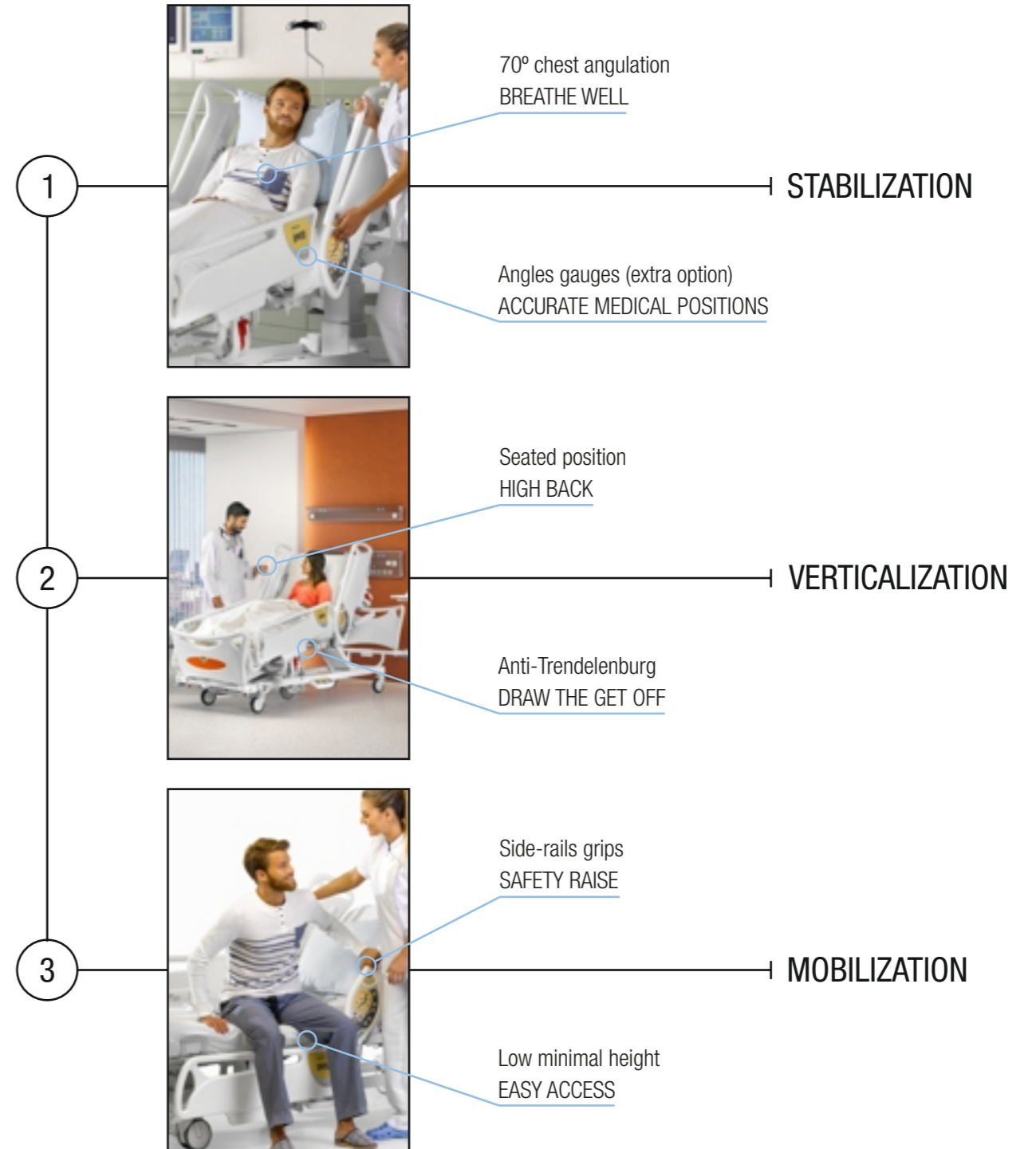


## 4. AUTO CPR

Automatic release by pressing a single button dropping all bed articulations and driven the platform until it minimum height ensuring a fair position to patient cardiopulmonary resuscitation procedure.



# 3 steps of early mobilization



# shorter hospitalizations



### DOUBLE AUTO-REGRESSION

Platform articulations causes an harmful stress on the patient's abdominal and lumbar body areas. On raising platform articulations a simultaneous synchronized sliding is released (100mm).

### PRESURE 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.





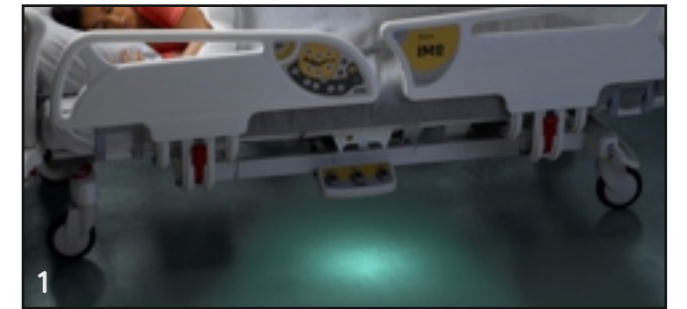
# accurate safety



## risk of falls

### 1. 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 period.



### 2. FULL LENGTH SIDE-RAILS

Metal side-rails epoxy painted steel tube and ABS plastic shoulder extension. Collapsible, with safety lock and grip to handling.



### 3. SPLITTED SIDE-RAILS

Side-rails made in HDPE (high density polyethylene) 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.



## emergency releases

### 1. MANUAL CPR

The bed has bilateral levers to a quick back-rest dropping while a cardiopulmonary reanimation procedure. They are placed on the back-rest section edge corners to an easy access.



### 2. FUNCTIONS LOCKING

The electrical functions can be locked on Supervisor control by safety purposes. Has independent keys to lock mattress platform articulations and elevation/Trendelenburg motors.







## infections control

## hospitality



### **BED LINEN RACK**

The cleaning and disinfection task requires some bed's accessories integration.

The footend has a retractable rack to support the bed linen exchange service.

### **QUICK REMOVABLE MATTRESS PLATFORM**

The mattress platform is made by a set of modular PPC plastic panels with rounded shapes to facilitate cleaning and disinfection tasks.

Its composition incorporates fiberglass charge to be highly resistant to heavy loads up to 250Kg patient's weight.

They are removable by a fast clipping system for a bed deep cleaning.



# light handling



# smooth transportation

## 1. POWER CABLE PROTECTION

Frayed cables is number one hospital beds malfunction. MATRIX beds are supplied with a convenient power cable hook to hold on footend board.

## 2. BACK-UP BATTERY

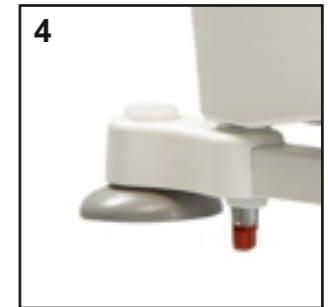
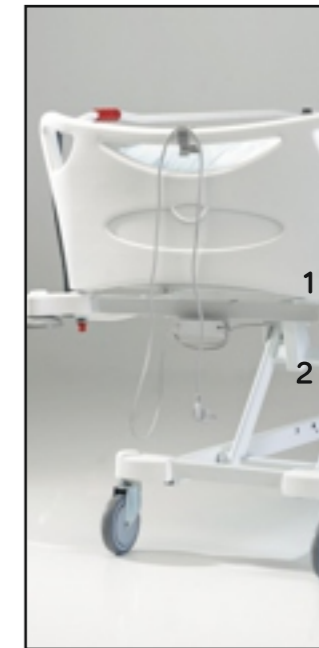
All MATRIX E30 models are supplied as a standard feature with battery back-up. Set of 2 hermetic batteries (2x1.2 Ah) with an autonomy about 100 cycles or 24 hours in stand-by.

## 3. GRIP HANDLES

Head and foot boards has been designed with hand grips for an comfortable and ergonomic caregiver transportation.

## 4. TRANSPORT LOCKING MODE

Head and foot boards has red lockers to provide a more safe transportation for patient and caregivers. Beds may be provided without lockers over client request.



## 1. CENTRAL LOCKING PEDALS

Placed on booth sides of footend side of the bed.

Has 3 positions:

- Locked (red),
- Unlocked (neutral),
- Directional lock (green).

## 2. CENTRAL LOCKING BEAM

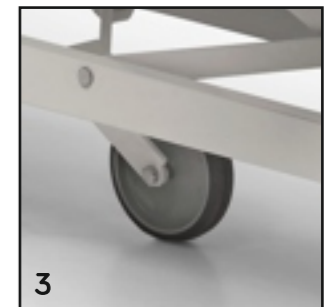
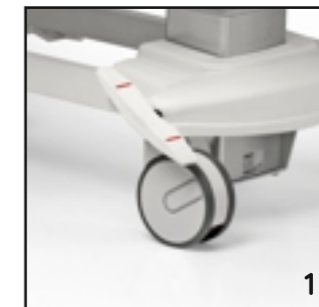
Placed on footend side of the bed.

Has 3 positions:

- Locked (red),
- Unlocked (neutral),
- Directional lock (green).

## 3. PERMANENT CONTACT FIFTH WHEEL

Controlled by the central locking devices is activated on pedals green position. Releases a linear driving (like directional lock) or 360° twist to operate in narrow spaces.



# in bed X-ray



## X-RAY CASSETTE HOLDER

Beds might incorporate a x-ray cassette holder on back-rest section. Cassette loading is made on the headend. Headboard is no need to be removed, is just to lift mattress platform until it maximum height. Holder has a telescopic sliding full extractable and back-rest section in radiotranslucent made in HPL Compact. Have rullers to adjust to several cassette sizes and types.

# brake alarm



TWIN Ø150mm INTEGRAL ABS



SIMPLE Ø150mm SHIELDED ABS



SIMPLE Ø150mm METAL



# main features



		STANDARD	OPTION	EXTRA
BED FRAME	Robust metal frame epoxy coated	●		
	Mobile components zinc plated or/and stainless steel	●		
	Elevation system by 2 articulated trapezes	●		
	Corners protection plastic fenders	●		
	Corners protection soft bumpers	●		
	Bilateral drain bag hooks	●		
MATTRESS PLATFORM	4 sections mattress platform (3 articulated + 1 fixed).	●		
	Modular mattress platform boards made in PPC easily removable		●	
	Mattress platform boards made in HPL Compact easily removable		●	
	Dual auto-regression sliding			
	Plastic mattress shoulders	●		
	Bilateral levers for a quick release manual CPR	●		
	Foot section manually adjustable by a mechanical rack	●		
	X-ray cassette holder with translucent HPL back-rest section			●
ROLLING BASE	Open wide design to avoid dust accumulation	●		
	Edges protection plastic fenders	●		
	ABS twin casters Ø150mm		●	
	ABS simple casters Ø150mm		●	
	Metal simple casters Ø150mm		●	
	Pedals operated central locking system		●	
	Beam operated central locking system		●	
	Permanent contact fifth wheel			●
Brake alarm			●	
HEAD/FOOT BOARDS	HDPE (High Density Polyethylene) plastic boards	●		
	Easily removable	●		
	Rack to stow supervisor control	●		
	Transportation safety lockers*	●		
	Extensible footend linen rack.			●
SIDE-RAILS			●	
	Full lenght, metallic, collapsible.		●	
ELECTRIC SETUP	Motion management controlled by a microprocessed unit	●		
	Low voltage motors DC24V (4 linear actuators)	●		
	Back-up battery (100 cycles) and uncharged alarm	●		
		●		
CONTROL	Side-rails embedded controls (exterior + interior)		●	
	Portable handset control		●	
	Supervisor control, portable on footend side	●		
	Bilateral foot control			●
	Nigh light featured on 2 colours (safe night position)			●

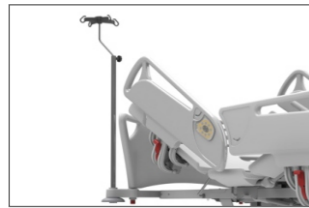
STANDARD - included on selected model.

OPTION - included but requires to be selected between several options.

EXTRA - not included, additional feature to join to the selected model.

\*removed over client petition





I.V. Rod. Stainless steel column. High adjustable rod with 4 hooks.	910.104I
I.V. Rod. Epoxy coated steel column. High adjustable stainless steel rod with 4 hooks.	910.104



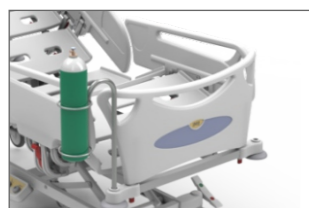
Patient lifting pole. Stainless steel column. Adjustable belt. Ergonomic handle.	910.200
Patient lifting pole. Stainless steel column. Auto-adjustable belt. Ergonomic handle.	910.201



Writing pad. To hang on footend board. Foldable. Metallic frame with HPL Compact table.	910.806
---	---------



Monitor tray. Fitting on footend sockets. Foldable. Metal frame with plastic tray.	910.805
--	---------



O2 tank holder. Fitting on headend/footend sockets. Stainless steel tube fully made.	910.530
--	---------



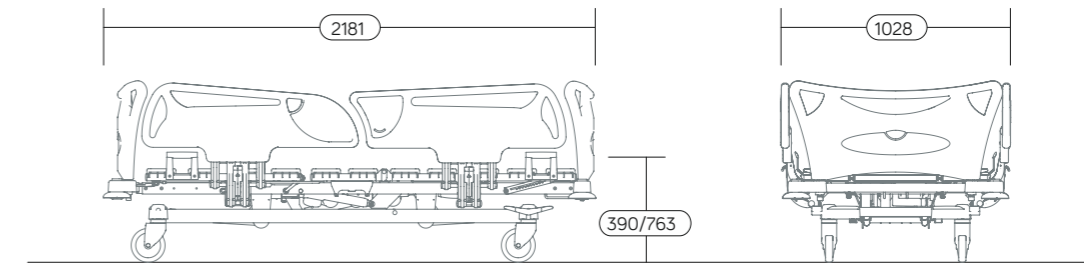
Male urinal bottle. Removable. Stainless steel wire fully made.	910.520
Drains/urine bag hooks. Bilateral. Standard on bed metal frame.	Included



Simple traction frame. Settle at the bed's footend. (Weights and cables not included).	910.423
--	---------



Complete orthopedic frame. Settle at the bed's corners. (Weights and cables not included).	910.421
--	---------



DIMENSIONS (±5%)

Recommended mattress	1970 x 860 mm
External dimensions	2181 x 1000 mm
Raised side-rails width	1028 mm
Platform sections length	
Back-rest	794 mm
Pelvis	240 mm
Leg-rest	292 mm
Foot-rest	574 mm
Minimum/Maximum height	390 / 763 mm*
Platform/side-rails height	375 mm
Maximum auto-regression	100 mm

ARTICULATIONS (±5%)

Back-rest maximum angle	70°
Cardiac Chair	87°
Leg-rest maximum angle	32°
Foot-rest maximum angle	26°
Maximum tilt	
Trendelenburg	17°
Anti-Trendelenburg	17°

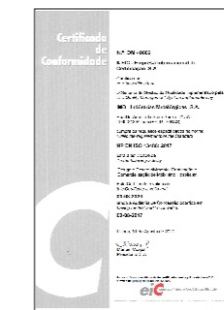
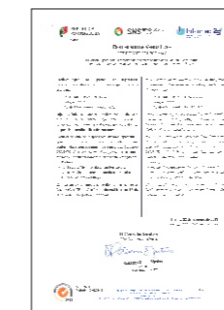
CAPABILITIES (±5%)

Patient maximum load	250 Kg
Overall bed weight	106 Kg
Electric tension	230VAC-50/60Hz
Option	110/120VAC-50/60Hz
Maximum electric power	185 W
Batteries electric power	18 W

\* ABS Ø150mm simple caster, HPL Compact mattress platform. Plastic (HDPE) mattress platform +20mm.

REGISTRY AND CONFORMITY

Officially registered as Medical Devices Class I, no. 125 / DM / 2017/01/217 - Informed CE Mark  
 Over the scope of UE directive 2007/47/EE, annex IX  
 Certified over standard EN ISO 9001 - Quality Management System  
 Certified over standard EN ISO 13485 - Medical Devices Conception and Manufacturing



M302



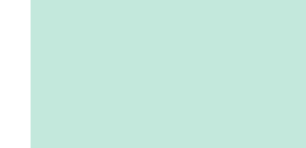
861



431



454



484



838



Indicative colors only, check with real samples.



**IMO-INDUSTRIAS METALURGICAS, S.A.**

[www.imo.com.pt](http://www.imo.com.pt)

---

**HEADQUARTERS & PLANT**

Rua Dr. Aurélio Teixeira de Sousa, 575  
4650-312 Rande  
PORTUGAL  
T. +351 255 340 220  
[porto@imo.com.pt](mailto:porto@imo.com.pt)

**IMO PORTO**

Rua Adolfo Casais Monteiro, 117  
4050-520 Porto  
Tel. 222 009 767

**IMO LISBOA**

Av. Defensores de Chaves, 87A  
1000-115 Lisboa  
Tel. 217 963 478  
[lisboa@imo.com.pt](mailto:lisboa@imo.com.pt)