



Premium Hospital Beds

MATRIX H





Sustainable Healthcare

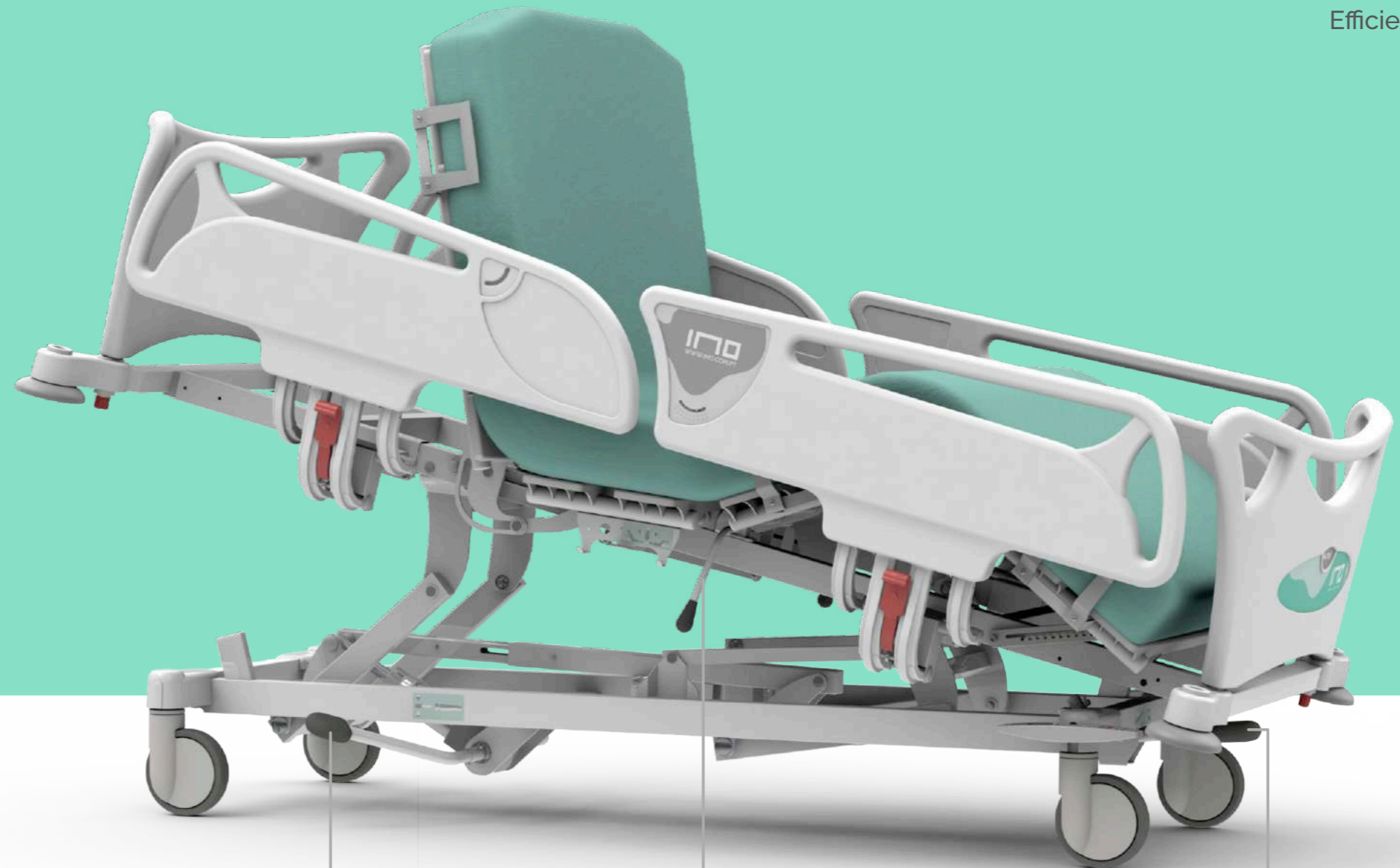
With hospitals being increasingly encouraged to improve energy efficiency, greener solutions are required. With this in mind Matrix H has emerged, a high performance and appealing design hydraulically articulated hospital bed.

With a four-plane bed frame, elevation, Trendelenburg and central locking without any energy expenditure, this is a bed that fits perfectly in any hospital ward, with special emphasis on field hospitals and places without access to electricity.

Hydraulic Pumps

With well-marked and easy to use handles and pedals, Matrix H is a bed that requires no learning, increasing the objectivity of care provision from the very first use.

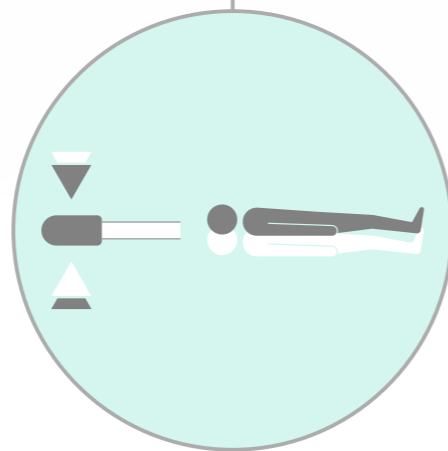
Mechanical action, unlike digital, does not encourage unnecessary adjustment of the bed, which provides greater availability of health professionals



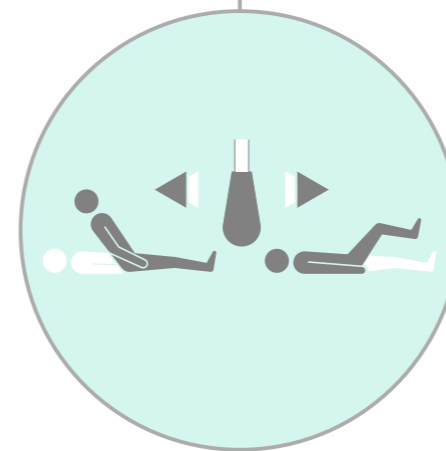
Synchron System

With patient comfort and recovery in mind, Matrix H has 4 bed sections easily articulated manually or hydraulically.

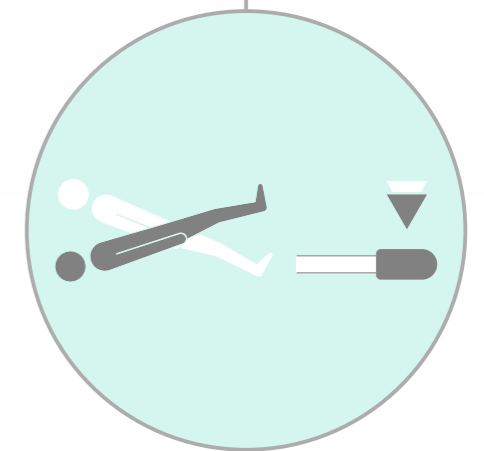
In order to relieve the weight on the patient's back when reclining, the bed includes a synchronous system. This means that the patient himself/herself generates a compensation distributing part of the weight from the back to the hip section.



Bed Frame Height



Backrest and Legrest



Trendelenburg and Reverse

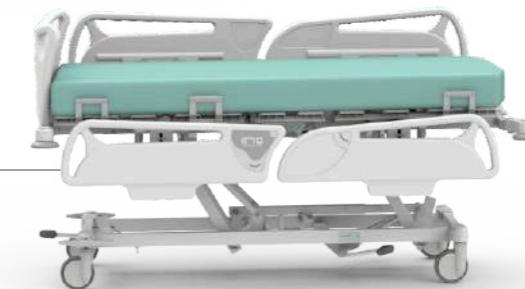
Cardiac Chair

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



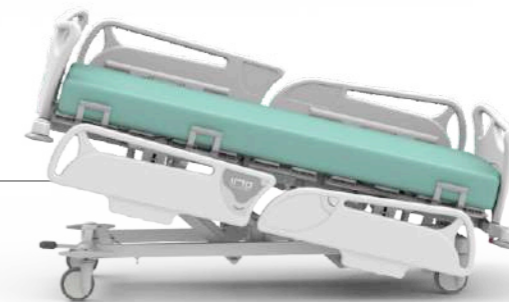
Examination

Combine lifting and folding the bed frame to reach the maximum height position and level the mattress platform. It ensures an ergonomically correct posture for professionals during examinations and treatments.



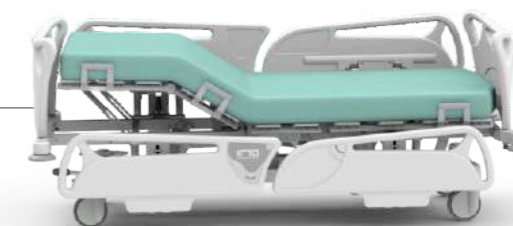
Trendelenburg

It performs, by activating a single pedal, the Trendelenburg position with 3 levels of inclination. Used to reverse episodes of hypoxia in vital organs, among other interventions.



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.



3 STEPS OF
EARLY MOBILITY

Easy Back Elevation
Synchron

1 Stabilization



Angle Gauges
Precise Medical Positions

Seated Position
High Backrest

2 Verticalization



Reverse Trendelenburg
Set the Uprising

Rails Handgrip
Safe Movements

3 Mobilisation



Rails Under the Mattress
Easy Bed Exit/Entry

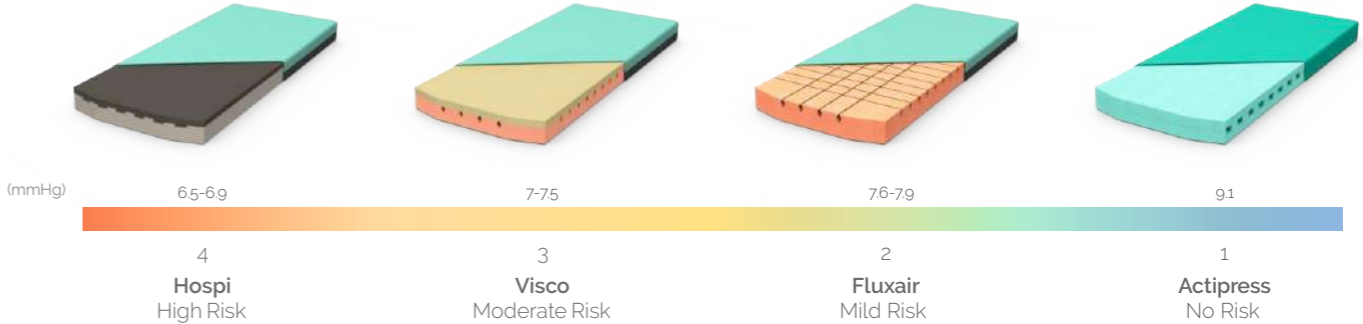


Double autoregression

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.



1

Premium Casters

Tente ABS faired casters with Ø150mm. Rotating effect and fitted with ball bearings. As an option, it may be supplied with Tente metal casters.

2

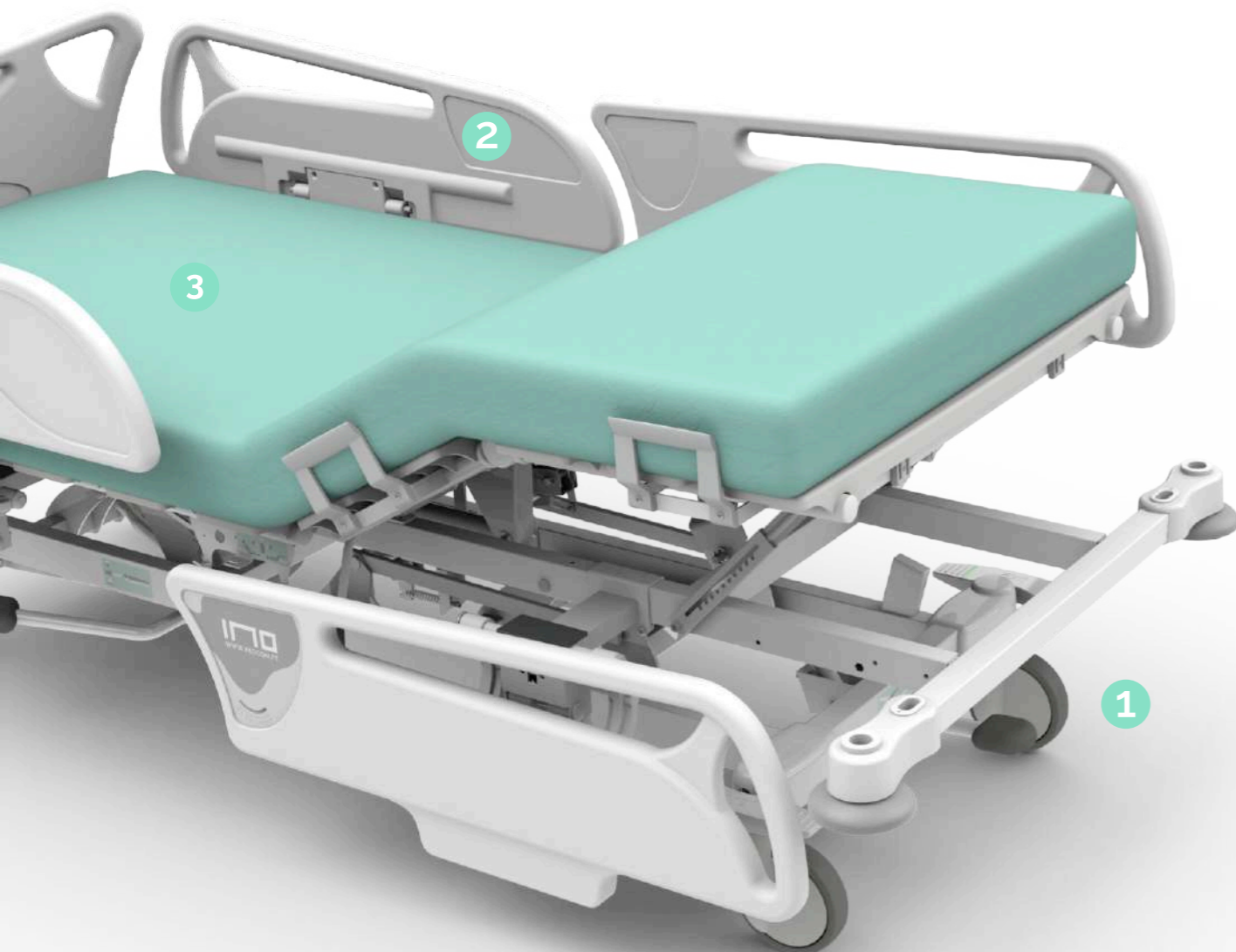
EN 60601-2-52 Standard

Side rails comply with EN 60601-2-52. They prevent and avoid the risk of injuries caused by accidental falls through high side coverage.

3

Urgent Procedures

The hydraulic system facilitates quick and uncomplicated procedures. In a few seconds, the back section may go from a sitting to a lying down position and thus facilitate helping patients in cardiac arrest.



Transport Handgrips

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

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.

X-Ray Cassette Holder

Matrix H 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



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.



TECHNICAL FEATURES

Model 945.H5

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.

Standard

Optional

Extra

Structure

Robust metal frame epoxy painted	●		
Mobile components zinc plated or/and stainless steel	●		
Corners protected by soft bumpers	●		
Bilateral foley bag hooks	●		

Head/Foot Boards

In HDPE medical (High Density Polyethylene)	●		
Easily removable	●		
Transport lockers (removed on demand)	●		
Linen holder drawer			●

Base

Open design base to prevent dirt build-up	●		
Base corners protected by plastic fairings	●		
Integral Smart Ø150mm ABS casters		●	
Ø150mm zinc steel casters		●	
Central locking and steering control	●		

Side Rails

Splitted, in HDPE medical (High Density Polyethylene)		●	
Full-length, in epoxy painted metal		●	
Trendelenburg angle gauge			●
Head-end rails decoration			●
Collapsible and folding system Gap Zero	●		
Soft drop released by red handle	●		

Mattress Platform

4 sections bed frame (3 articulated + 1 synchron)	●		
Modular PPC panels extractable for cleaning		●	
Phenolic (HPL) panels extractable for cleaning		●	
Double autoregression	●		
Flexible mattress shoulders	●		
Synchron system between back and hip sections	●		
Foot section manually adjustable by a mechanical rack	●		
X-ray cassette holder and radiolucent HPL backrest			●

Control

Bilateral lever for inclining back and legs	●		
Bilateral pedal for bed height regulation	●		
Foot end pedal for Trendelenburg and Reverse regulation	●		

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

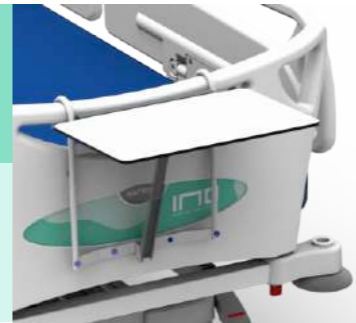


Patient lifting
Stainless steel column
Trapezee with adjustable handle

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

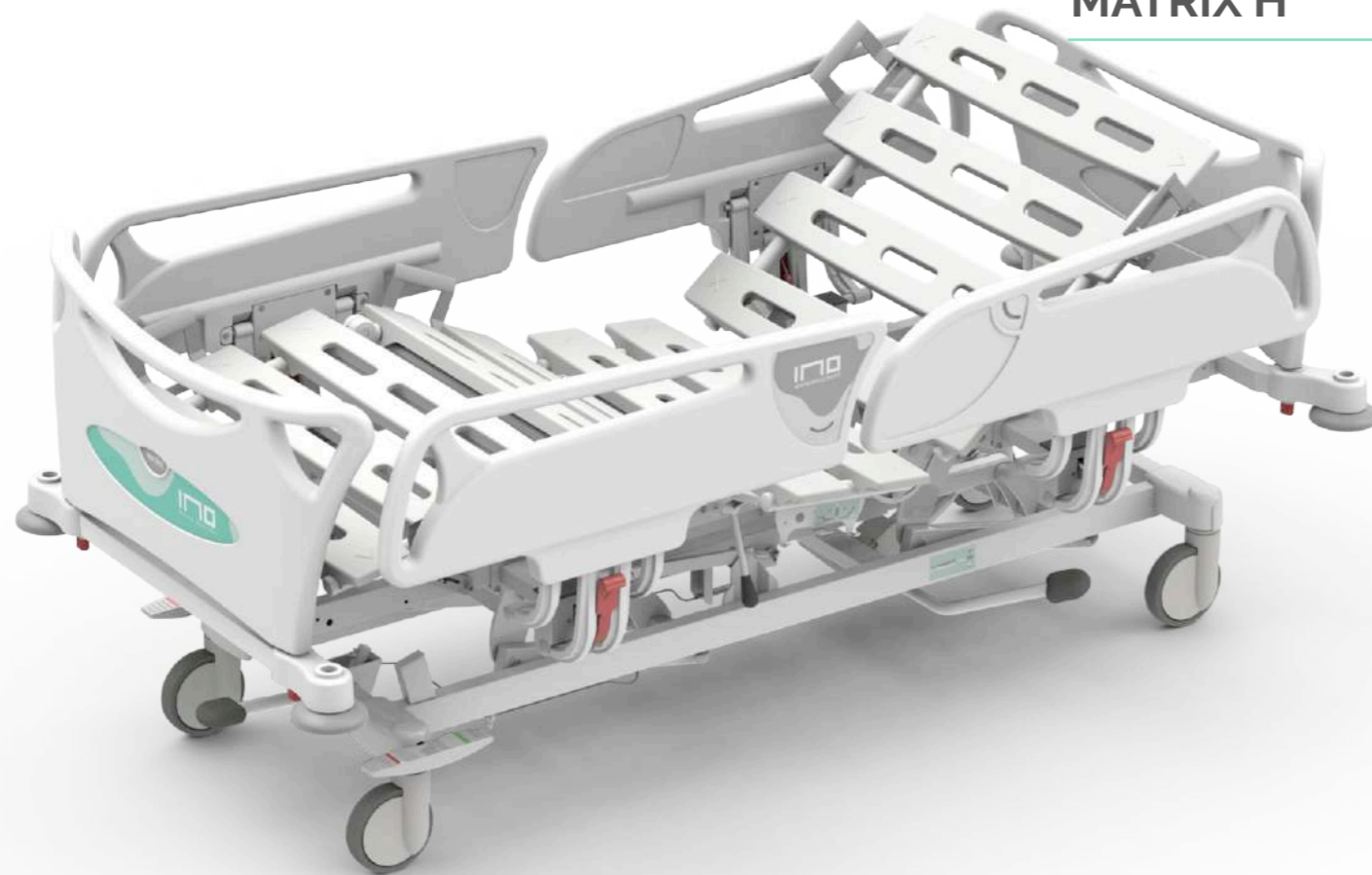


Traction Frame

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

910.423

MATRIX H



* 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
Min/Max height	440/780 mm*

Joints +/- 5%

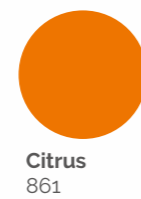
Maximum back incline	70°	
Maximum Cardiac Chair	90°	
Maximum leg incline	30°	
Maximum foot lowering	25°	
Maximum incline	Trendelenburg	15°
	Reverse Trendelenburg	15°

Capacities +/- 5%

Maximum patient weight	180 Kg	
Power of gas pumps	Elevation	10000N
	Trendelenburg	1100N
	Back	600N
	Legs	420N

Barriers Decoration

Availability of non standard finishes on request.



Conformidade e Registo

- Marcação CE
- Registado como Dispositivo Médico Classe I, nº 125/DM/2017/01/217 - Infarmed
- Segue o preceituado no regulamento do Parlamento Europeu 2017/745/EU e Decreto-Lei 145/2009
- Certificados segundo a norma EN ISO 9001 - Sistema de Gestão da Qualidade
- Certificados segundo a norma EN ISO 13485 - Concepção e fabricação de Dispositivos Médicos

medi⁺ HEALTH

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