

#### MATRIX B12



#### **INCLUSIVE HEALTHCARE**



#### **Bariatric Bed**

Matrix B12 was created as a solution to assist in the care of patients with morbid obesity. Focused on the inclusion of patients exceeding the maximum load of standard hospital beds, this is a key bed to complement any healthcare facility.

With pre-defined medical positions, safety features and tools to reduce hospitalisation times, it becomes a bed that fulfils the therapeutic requirements of most patients and an indispensable tool for healthcare professionals.

#### **Robust Architecture**

Reinforced structure in key points and lifting system by trapezoidal arms electrically articulated by 2 linear motors Linak brand.

Lifting stroke of 420-715 mm and maximum patient load of 400 Kg.

## <sup>1</sup> Handset Control

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

# <sup>2</sup> 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

#### **PORTABLE CONTROLS**

User Friendly Device

Allows the following positions:

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

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

  - Auto Contour
  - Height
  - Trendelenburg and Reverse
  - Cardiac Chair
  - Examination

  - Shock
  - CPR

## **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





Patient in Control Automatic Positions

Reverse Trendelenburg Set the Uprising



Rails Handgrip **Safe Movements** 

# 3 Mobilisation

Low Minimum Height Easy Bed Exit/Entry



#### **Autoregression**

The articulation of the mattress platform (backrest) 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 autoregression of the backrest articulations causes decompression and relief of the sacroiliac area, a critical point in the development of pressure ulcers.





#### 3 STEPS OF EARLY MOBILITY Better Outcomes

### High Risk of Bedsores

The inclination in the foot area and the different foam layers allow for superior endurance, enabling the prevention of bedsores in heavier patients, ideal for bariatric units.

#### **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.



A bed designed to improve the patient's autonomy, giving him/her control of functions such as the Cardiac Chair position to improve the practice of activities and meals or the Rest position for periods of safe sleep.





#### **Differentiating Accessories**

Matrix B12 includes the option of incorporating accessories and extras important for various areas of healthcare for bedridden patients



#### **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.

## ENHANCED SAFETY

**Emergency Procedures** 

#### **Endotracheal Intubation**

The head end and foot end panels are vertically removable, allowing unobstructed intubation.



#### INFECTION CONTROL Hospitality

#### **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.

#### **Mattress Platform**

The bed frame is made up of 4 modular components in phenolic (HPL). All components are removable for cleaning.





#### **Batteries**

1.2A/h battery module to keep the bed operational when disconnected from the power supply.

When plugged in, it electronically manages the charging process, making it unnecessary to unplug the power socket once the batteries are charged

#### **Power Cable Protection**

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

Matrix B12 is equipped with a convenient portable cable holder to fit on top of the head panel in addition to the reel fixed to the snap-in frame of the same head panel.

#### LIGHT HANDLING Emergency Procedures



### LIGHT HANDLING

Easier Transport

#### **1** Transport Handrails

The head/foot boards are made entirely of washable materials, in particular the stainless steel handrail, a material with great capacity for cleaning and disinfection, durability and high resistance to impact. The panels are vertically removable.

#### **2** Centralised Braking

Bed equipped with 2 brake pedals, at the rear corners of the bed, with centralised effect and directional lock.

#### **3** Premium Casters

High-quality German brand Tente wheels, Ø150 mm, double-band ABSfaired, with high load capacity.

Structure	Bed frame with Ipx4 protection	Base	Open design base to prevent dirt build-u
	Robust metal frame epoxy painted		Base corners protected by plastic fairing
	Mobile components zinc plated or/and stainless steel		Integral Ø150mm ABS double casters
	Corners protected by soft bumpers		Central locking and steering control
	Bilateral foley bag hooks		
		Head/Foot	In laminated and plastic, with stainless st
	Dodius	Doards	Easily removable
Mattress Platform	4 sections bed frame (3 articulated + 1 fixed)		Foot end with rack for nurse control supp
	Phenolic (HPL) panels extractable for cleaning		
	Autoregression	Side Rails	Full-length, in epoxy painted metal
	Flexible mattress shoulders		Soft drop released by red handle
	Bilateral levers for a quick manual CPR release		
	Foot section manually adjustable by a mechanical rack	Electric Setup	Motions managed by a microprocessed
			Low voltage motors DC24V (4 linear acti
			Gel batteries with discharge alarm
Control	Handset control with extendable helical cable		Cable holder for transport

Nurse control with extendable helical cable

#### TECHNICAL FEATURES Model 945.B12

qp
gs
teel handrail
port
unit
uators)





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



Serum support Stainless steel column Adjustable rod with 4 hooks

Serum support Epoxy painted column Adjustable rod with 4 hooks

#### Writing Tray



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



Bariatric patient lifting Stainless steel double column Trapezee with adjustable handle

#### **Urinal Holder**



Support for urinal Calibrated stainless steel rod construction Removable and adjustable



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

#### **BED ACCESSORIES**

#### **Crutches Holder**

910.570

IV Pole

910.104i

910.104

#### Lifting Trapezee

910.200E1

#### **O2 Tank Holder**

910.530

#### MATRIX B12

Recommended mattress dimensions

External dimensions

Min/Max height



Maximum back incline		60°	
Maximum Cardiac Chair		85°	
Maximum leg incline		35°	
Maximum foot lowering		20°	
Maximum incline	Trendelenburg Reverse Trendelenburg	15° 15°	

#### Maximum weight (SWL)

Power supply

Control unit power

Battery charge

Electrical protection

#### **Endboard Decoration**

Availability of non standard finishes on request.



#### **TECHNICAL SPECIFICATIONS**

#### **Dimensions** +/- 5%

1920 x 1060 x 180 mm

2120 x 1200 mm

390/763 mm\*

#### **Joints** +/- 5%

#### **Capacities** +/- 5%

100-240 VAC, 50/60 Hz

Applied parts type B

400 Kg

390 VA

18 W

Class 1

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