Electrical bed with adjustable height

Vega
A new bed concept

We believe that technology becomes functional when intuitive and efficient.

Technology at the service of operators and patients

GIVAS presents VEGA, a revolutionary concept of electric bed, born from the synergy between our R&D Dept. and medical and nursing teams.

This partnership gave birth to a Technologic, Intuitive, Ergonomic and Efficient product that makes everyday assistance and sanitizing operations easier, thus increasing the patient’s comfort and independence.

- Minimizing the risk of falling
- Independence of movements for the patient
- Maximum comfort
  (backrest self-regression/raising and courtesy night light)

- Less exertion
- Prompt intervention
- Intuitive and efficient controls
- Designed for easy sanitizing operations

- Maximum flexibility of use
- Indicators of faults and/or maintenance
- Night light (safe position indicator)
Security and comfort

Bifunctional and self-rehabilitative ergonomy

The containment sides of the Vega bed guarantee the patient's maximum protection for the entire length of the bed, as they minimize the risk of trapping limbs, (according to standard CEI EN 60601-2-52).

They are made of polypropylene, rotary printed and dyed in the mass, highly resistant even under high stress conditions.

The ergonomic design of the handle allows the patient to move autonomously, thus avoiding excessive exertion for the healthcare operator while facilitating the patient's physical and psychological rehabilitation.

- Riduzione rischio cadute
- Mobilizzazioni autonome
- Massimo comfort
- Minimizing the risk of falling
- Independence of movements for the patient
- Maximum comfort

Close-up of the handles on the containment sides: they can be easily grabbed at whatever backrest incline

"Out-of-Bed Function": bed to its minimum height, backrest up, legrest completely flat for a safe exit from the bed

Self-regression and raising system of the backrest section

Comfort position
Maximum flexibility

Vega... a new generation bed

The containment area has a clean and modern design: head and foot boards curving inwards, 4-sector side rails and non-toxic materials make the VEGA bed ideal also for pediatric use.

The VEGA bed is meant for accommodating children of different ages with their different sizes accordingly. Givas reckons that extendable pediatric beds cannot guarantee the necessary safety and comforts for patients as big as grown-ups.

It is possible then to contain children 90 cm tall at least through the use of compensation cushions that reduce the dimensions of the lying surface, as shown below.
Just look!

Total safety in just one look

Night hours are the most delicate time of the day for healthcare operators as they must ensure total safety for the patients. Wrong height and section incline adjustments are the main causes for accidental falling of patients when getting out of the bed. Vega changes all of that: just one look is enough to know if the bed is in the safest night position.

In SAFE MODE, a GREEN LED light placed under the bed casts a light beam on the floor that lets the operator know if the bed is in the right position. If not, the light beam is RED.

SAFE POSITION

Vega casts a GREEN light beam when:
- the lying surface is completely flat
- the bed is at its minimum height

If one of these settings is not complied with, then the RED light will be automatically activated.
All under POD control

It is simple and safe to have total control in your hand

POD control is much more than a simple supervisor of bed functions and movements: it is a total monitoring system of all those bed functions that can be required by hospital nurses and healthcare operators.

Some of the most important and innovative functions are:

a) Battery charge indicator;
b) Indicator signalling when bed is connected to the power grid;
c) Indicators for maintenance needs;
d) Safety night light indicator (RED/GREEN light on);
e) Indicator of locked functions;
f) Indicator of incline degrees of each section.

Some screenshots of POD control for VEGA management

The intuitive images on the control buttons shorten the response time
Light and smart

Agile, light and easy to move, and above all steady, sturdy and functional

Brake centralized system

VEGA is equipped with a 4-wheel braking system with directional control: the foot controls placed at the 4 corners of the bed guarantee safety and prompt intervention. The locking system allows:

a) To simultaneously lock all wheels;
b) To simultaneously unlock all wheels;
c) To activate the directional lock on a single wheel, while leaving the others free; if endowed with a 5th wheel, this one will be locked in the directional position.

If wheels are unlocked, an alarm signals when the bed is stationary and connected to the grid.

Easy to drive

VEGA can be equipped with a 5th wheel placed at the center of the bed that helps to move it and allows it to turn 360 degrees. The 5th wheel is endowed with directional lock, activated by the braking system, and with a cushion system that minimizes floor imperfections.

The 5th wheel (Ø 125 mm) guarantees top manoeuvrability in difficult steering situations; it also allows the bed to turn 360 degrees.
Simplicity of movement

Reliability in any situation

A large lying surface is the necessary starting point for offering top comfort to patients. The ABS surface has been carefully designed so as to be corner-free, with soft lines and ventilation ducts that guarantee proper aeration to the mattress, thus avoiding any dangerous and annoying inconvenience for the patients.

An integrated system fastens the mattress in six different spots: this prevents any misalignments between the ABS surface and the mattress when the bed is moved.

Different-sized surfaces

- A - Backrest section with self-regression and raising system
- B - Fixed pelvis section
- C - Femoral section
- D - Calf section with hinge endowed with negative rotation lock

Movements of all different sections

- Adjustable height
- Trend and reverse-Trend
- Auto 0°÷30°
- 30°÷70°
- 0°÷28°
- 30°÷70°
- 0°÷15°
- 0°÷15°
- 0°÷16°
- 0°÷16°
- 285 mm

Side rails unlocking lever

Removable head/foot boards

Integrated bed extension

Electric calf section, height adjustable

Screenshot of POD control displaying backrest incline

Screenshot of POD control displaying Trend and reverse-Trend incline

Screenshot of POD control displaying Trend and reverse-Trend incline
Features

1. New ergonomic design for head/foot boards
2. Housing for I.V. stand outside the lying surface
3. Single control for the locking/unlocking of head/foot boards
4. Double-pulse bilateral foot control
5. Inside/outside bilateral movements controls, integrated on the side rails
6. POD control (Operator Control Panel with multifunction Display)
7. Standard supervisor
8. Flexible hanging FPP panel
9. Hand control with support (RAT620 Opt.)
10. Bed structure with fixed head frame
11. Bed structure with mobile head frame
12. Manual CPR emergency device
13. Lying surface made of printed ABS, corner-free, with aeration holes and integrated system that fastens the mattress in 6 spots
14. Calf section moved by mechanical rack, gas spring or electrically
15. Braking system with directional steering that can be activated at the 4 corners of the bed
16. Electric calf section height adjustment
17. Backrest emergency release (CPR)
18. Trend & reverse-Trend incline gauge
19. Backrest incline gauge

Backrest with amortized descent and raising with stop at 30° to prevent ventilation pneumonia.
The structural components of GIVAS’s beds are painted with Biomaster protected epoxy powder coating. Biomaster is an effective antibacterial additive that prevents the growth and spread of harmful bacteria such as MRSA, VRE, E.Coli, Salmonella, Campylobacter, Legionella and over 50 different species of bacteria. Independent tests have shown that Biomaster inhibits the growth of bacteria and as it is an integral part of our products, it will provide permanent and lasting protection against the risk of cross-contamination.

**Biomaster efficiency:**

1. **Biomaster binds to the cell wall, disrupting growth**

2. **The Biomaster ions interfere with enzyme production, stopping the cell producing energy**

3. **Biomaster interrupts the cell's DNA, preventing replication**

**The introduction of additives:**

- **Biomaster binds to the cell wall, disrupting growth**
- **The Biomaster ions interfere with enzyme production, stopping the cell producing energy**
- **Biomaster interrupts the cell's DNA, preventing replication**

**Bacteria lands on the Biomaster surface…**

**Bacteria can't survive**

**Permanent product protection**

**Technical data**

<table>
<thead>
<tr>
<th>Sections</th>
<th>**</th>
<th>**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bed length with bumpers and fixed head frame</td>
<td>**</td>
<td>2220</td>
</tr>
<tr>
<td>Bed length with bumpers and mobile head frame</td>
<td>**</td>
<td>2170</td>
</tr>
<tr>
<td>Bed width with 4-sector side rails</td>
<td>**</td>
<td>1020</td>
</tr>
<tr>
<td>Bed width with compass side rails</td>
<td>**</td>
<td>1000</td>
</tr>
<tr>
<td>ABS lying surface dimensions</td>
<td>**</td>
<td>1960 x 870</td>
</tr>
<tr>
<td>Height adjustment (twin wheels Ø125 mm H 145 mm)</td>
<td>**</td>
<td>400 — 815</td>
</tr>
<tr>
<td>Height adjustment (twin wheels Ø150 mm H 165 mm)</td>
<td>**</td>
<td>430 — 835</td>
</tr>
<tr>
<td>Integrated bed extension</td>
<td>**</td>
<td>285</td>
</tr>
<tr>
<td>Backrest Self-Regression/Raising</td>
<td>**</td>
<td>100 / 50</td>
</tr>
<tr>
<td>Trendelenburg/reverse-Trendelenburg adjustment</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Backrest adjustment</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Femoral section adjustment</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Calf section adjustment</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>Safe working load*</td>
<td>**</td>
<td>250</td>
</tr>
<tr>
<td>Payload of the lifting pole</td>
<td>**</td>
<td>75</td>
</tr>
<tr>
<td>ABS backrest section</td>
<td>**</td>
<td>750 x 870</td>
</tr>
<tr>
<td>ABS seat section</td>
<td>**</td>
<td>240 x 870</td>
</tr>
<tr>
<td>ABS femoral section</td>
<td>**</td>
<td>350 x 870</td>
</tr>
<tr>
<td>ABS calf section</td>
<td>**</td>
<td>620 x 870</td>
</tr>
<tr>
<td>Space under the basement for hoist insertion</td>
<td>**</td>
<td>&gt; 150</td>
</tr>
<tr>
<td>Reference standards</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>CEI/EN60601-1 Ed. Terza/Third Ed.</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>CEI/UNI EN60601-2-52 Ed. prima/First Ed.</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>EN60601-1-2 (EMC)</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>UNI 6141:1968</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>UNI CEI EN ISO 14971:2012</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>UNI CEI EN ISO 15223-1:2012</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>UNI EN ISO 3746:2011</td>
<td>**</td>
<td>**</td>
</tr>
</tbody>
</table>

**Dati elettrici - Electrical data**

<table>
<thead>
<tr>
<th></th>
<th>**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>100-240 V ± 10%</td>
</tr>
<tr>
<td>Insulation class</td>
<td>I</td>
</tr>
<tr>
<td>Applied part</td>
<td>Tipo B / II Type</td>
</tr>
<tr>
<td>Electrical protection degree</td>
<td>IPX6</td>
</tr>
<tr>
<td>Battery autonomy</td>
<td>10 cicli di alzata / 10 lifting cycles</td>
</tr>
<tr>
<td>Engine power source</td>
<td>24V</td>
</tr>
</tbody>
</table>

* The WORKING LOAD is obtained by adding up: patient (215 kg), mattress (20 kg) and accessories (15 kg).