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Gen. 2014 - Ing



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**vanto**<sup>®</sup>  
the power in surgery





## OPT: a history of successes since 1921

OPT was founded back in 1921, just a few years after World War I, when the Italian State set up a small orthopaedic workshops in every region for manufacturing prostheses. Mario Cristofolini, OPT's founder, was the first manager of the Trento workshop who then went on to become its owner when the State opted for privatization.

Making the most of the experience he had acquired, he made the surgical and medical needs of the time his priority and taking advantage of the creative skills of his collaborators, between 1930 – 1932 he began to design and make his first orthopaedic operating tables.

In the post-war period following World War II thanks to founder's son Mr. Aldo Cristofolini, who starts to work in OPT, this activity took on an even greater importance and it was around this time that the company stopped manufacturing prostheses. When the factory moved from Trento to Calliano during the 1980's, business activities broadened to begin producing operating tables with increasingly improved features to meet the ever increasing demands of the international market.



## OPT operating tables: tomorrow's future here today.

The company's history, made up of men and women, ideas, courage, dedication and passion for future challenges has always been the driving force behind our desire to reach **TECHNOLOGICAL SUPREMACY**: being number one in terms of quality, performance and design is not simply a mission, but a day-to-day reality, realized through a whole series of highly innovative products.

Each OPT product has been

- conceived for the international market, in the traditional style of those who really know how to make operating tables and satisfy customers ... always,
- designed with the intelligence and skill of those who look to the future,
- manufactured with the care and passion of those who love doing things and doing them well.



Mario Cristofolini



Aldo Cristofolini

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
**ISO 9001**  
= ISO 13485 =



## Services

### Educational

OPT offers a theory and practical training program on the safe use of its operating tables addressed to professional operating theatre staff as well as being open to clinical engineering services of private and public sector facilities. The course aims to deal with all the various topics concerning correct positioning of the patient on the operating table for various surgical requirements, and the possible complications which could arise from incorrect positions.



### Customer advice and assistance service

OPT is always ready to meet individual requests and satisfy personal needs providing highly-qualified skilled personnel to give free pre-sales advice and after-sales practical assistance.

**vanto**  
the power in surgery



## 2 Benefits

- The Vanto operating system
- Integration and remote controls control systems)
- Performance
- Modularity



## 8 Components

- Column
- Trolley
- Operating table



## 14 Applications

- Bariatric surgery
- General surgery
- Gynaecology / Urology / Proctology
- Neurosurgery
- Orthopaedics and traumatology
- Cardio - Vascular
- ENT - Maxilofacial
- Paediatric and neonatal surgery



## 23 Technical data

- Movements



## 24 Safety

- Active safety



## 25 Services

- Educational
- Customer advice and assistance service



# Benefits

## Why Vanto?

We have looked  
at the operating table  
from a better vantage point;

in an aim to create a top quality product in terms of technology and meets any surgical demands, thus facilitating the work in the operating theatre while at the same time still focussing on being competitive in markets all over the world.

**VANTO** is the result of the long and dedicated work carried out by a team of highly qualified engineers, and consultants together with important international research centres, leaders in technological innovation.

**vanto**<sup>®</sup>  
*the power in surgery*



### VISION

VANTO has full and detailed vision over all the peripherals with recognition of each one's status and the configuration of the table-top, allowing the user to perform the most appropriate and safe command in at any time.

### AUTOMATION

VANTO is equipped with the most advanced, while at the same time most robust and reliable solutions available in the market in terms of automation and data transmission protocols.

### NETWORK

VANTO has been designed to be integrated in a network of communicating systems located both inside and outside the operating unit.

### TECHNOLOGY

VANTO offers maximum performance thanks to patented solutions and the best technology available in the world while always remaining open to future developments.

### OPERATING

VANTO has been designed to fully meet the needs of theatre staff as well as all the various operating techniques, even the most innovative and recent, while never forgetting the needs of the patient.

## The Vanto operating system

Transferable table-top system with

**unique access  
to all four sides**

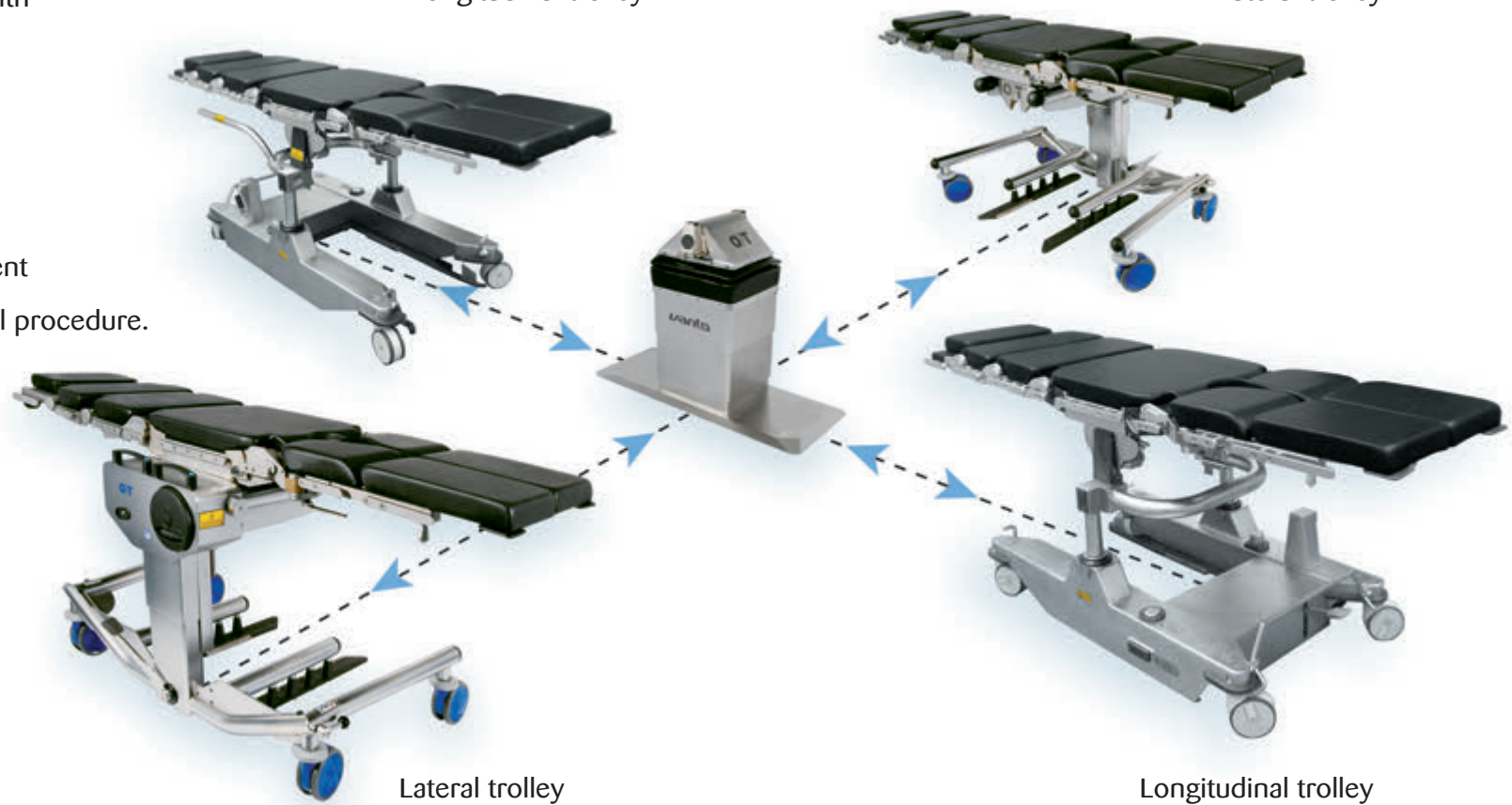
for rational organization  
of theatre space

and optimum patient management

and care throughout the surgical procedure.

Longitudinal trolley

Lateral trolley





# Integration and remote controls (control systems)"

Human interface: portable,  
touch-screen, easy to use

- **Fitted with a control panel**  
for moving the operating table.
- **Useful**  
for consulting manuals, OPT products,  
technical datasheets, etc.
- **Personalizable**  
with the addition of specific protocols for  
the operating unit, teaching halls etc...



Top of the range electronics: the highest  
intelligence at the service of surgery.



- **Software**  
par excellence, with highly developed functions  
(e.g. selection of table-top pick-up modes) and  
intelligent diagnostics on an integrated **graphic  
display** and **alphanumeric** control panel, scalable  
and open to future evolutions and development.



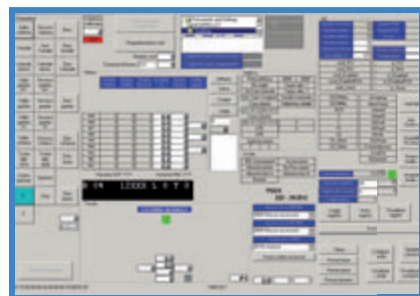
- **Control system**  
All twelve electromechanical move-  
ments (self-leveling included) supplied  
with Vanto System are controlled using:
  - a built-in keyboard with graphic display
  - a cable keyboard
  - backlight wireless remote control unit
  - cable remote control
  - auxiliary touch  
screen system
  - pedal-board



- **Remote control,**
  - with backlighting and standard  
protocol, safe and reliable.
  - **WIRELESS**
  - complete with mobile  
recharging station
  - the exclusive button for instant storing  
of a specific position, which can be im-  
mediately recalled by the operator



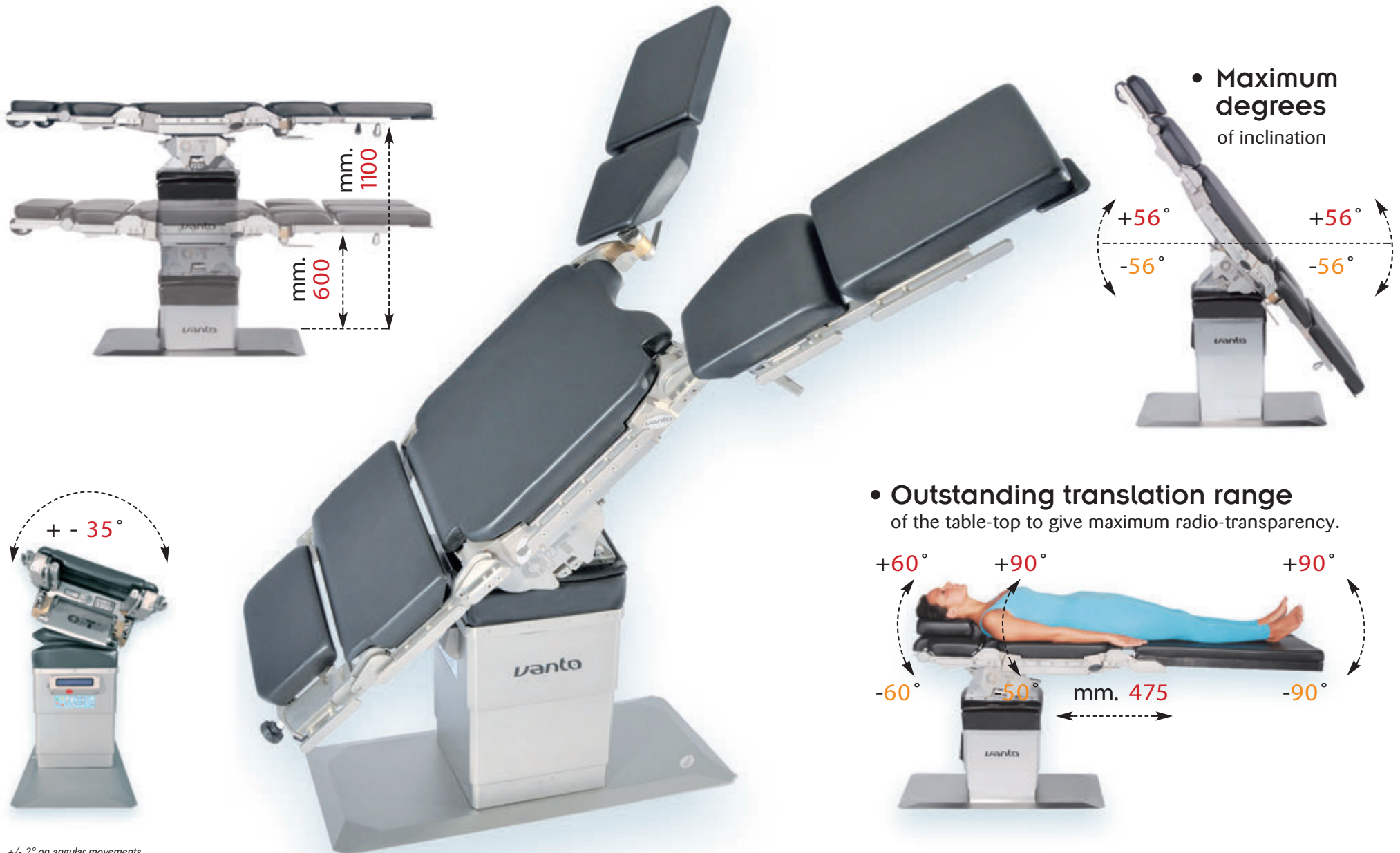
- **Completely compatible**  
in the integrated operating theatres  
of world leading suppliers.
- **Connectivity with the  
outside world using  
multi-system:**  
W.F. with standard protocol



- **Intelligent diagnostics**  
for technical assistance
- **Wireless interfacing**  
for managing technical data.

# Performance

The best and widest combination of simultaneous movements



+/- 2° on angular movements,  
+/- 1% on linear movements

# Modularity

From modularity and symmetry comes maximum flexibility

- **Central seat section completely symmetric:**  
symmetry and modularity of the head section, leg section and extension plates.
- **Maximum flexibility:**  
all kinds of surgery on a single table.
- **“Fix torque”**  
quick, safe and hygienic system for fixing and releasing sections.



cod. 9905056



cod. 9905034

cod. 9924024

cod. 9907071



cod. 9905055



cod. 9933055



cod. 9933053



cod. 9920051



cod. 9905054







cod. 9933054



cod. 9930050



cod. 9923052

cod. 8812000



cod. 9933057



cod. 9930051



cod. 9930053



Innovative unique attachment system which makes installation of the sections rapid, safe and hygienic with a single movement

# Components

## Column

This is the heart of the operating table. It controls all the movements of the table-top and allows the user to memorized and called up all the most frequently used operating positions in automatic mode.

Managed by a microprocessor and installed on an ultra-flat base of minimum thickness made from stainless steel, it is designed to occupy as little space as possible so as to avoid hindering the movements of the surgeon and the operating staff as well as guaranteeing maximum stability.

**vanto<sup>m</sup>**  
"Mobile"

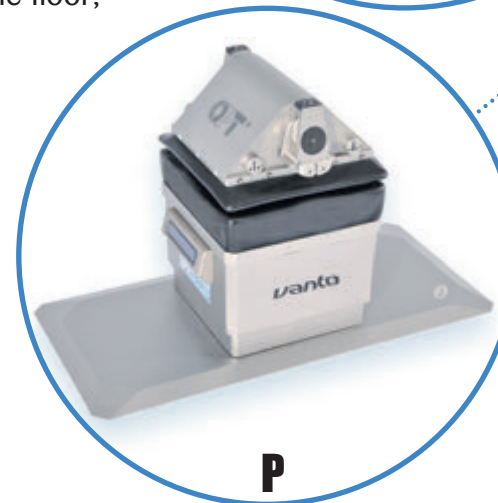
**vanto<sup>p</sup>**  
"Mobile Plus"

**vanto<sup>s</sup>**  
"Stationary"

Movable column  
with trolley



Manoeuvrable column  
with wheels and  
extractable mini trolley



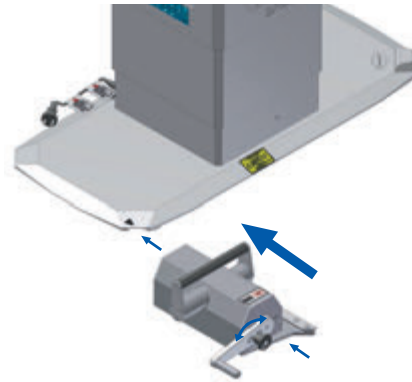
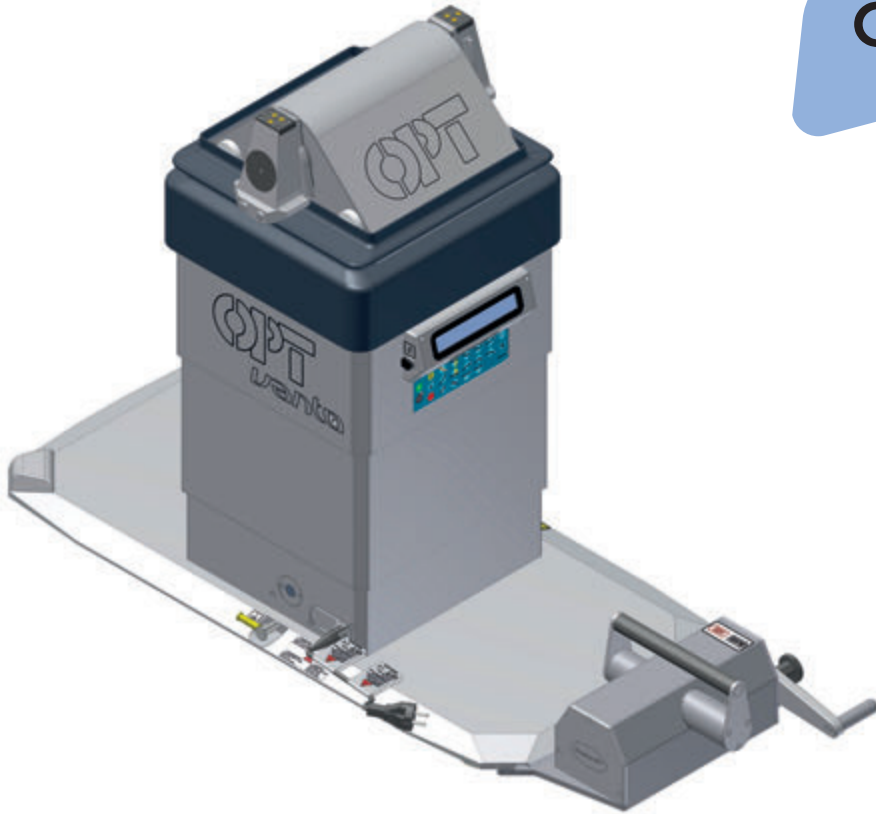
Column fixed to the floor,  
with 350° rotation



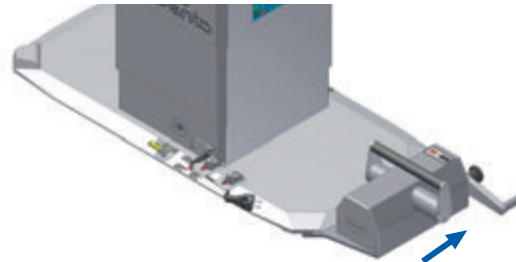


# OPT Vanto plus column

The Vanto Plus system, while maintaining its special characteristics of having a flat base, as well as all the normal movements by means of a trolley, also has wheels integrated in the base so that it can be moved autonomously.



By means of an auxiliary removable handling carriage (code 8849001), particularly useful for small transfers of the entire system, it is possible to avoid using the standard trolley in the operating theatre so as not to interfere in the field of operations should it be necessary to make minor adjustments to repositioning the system.



# Trolleys

OPT is the only company on the international market offering longitudinal trolleys (head and foot side) and lateral trolleys (both left and right side) for transferring the table-top only or the whole system (column + table-top).

## Longitudinal trolley

- 3 different versions available:
- basic model with integrated 5<sup>th</sup> wheel
  - with Trendelenburg / Antitrendelenburg and integrated 5<sup>th</sup> wheel
  - with Trendelenburg / Antitrendelenburg, height adjustment and integrated 5<sup>th</sup> wheel

## Lateral trolley

- 3 different versions available:
- basic model
  - with Trendelenburg / Antitrendelenburg
  - with Trendelenburg / Antitrendelenburg, height adjustment
  - optional 5<sup>th</sup> wheel



Trend/Antitrend button



Height adjustment foot pedal



Longitudinal trolley



5<sup>th</sup> wheel

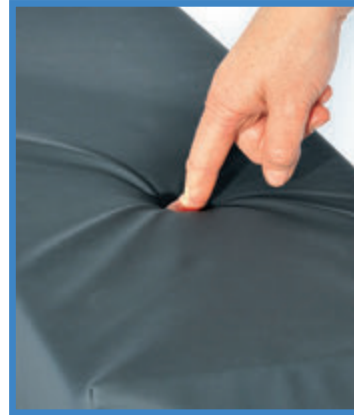


Lateral trolley



# Table-tops

Universal table-top suitable for all types of surgery, **radio-transparent along its entire length**, (Max. patient weight = 360 kg), equipped with independent electrical movements and complete with removable pads for maximum patient comfort which can be washed in automatic laundering systems.



viscoelastic pads

universal operating table top "Light"



Universal table-top

## Construction features

### Structure

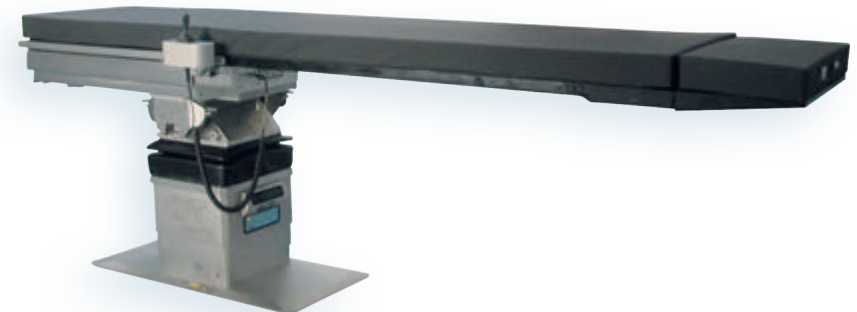
- table tops, as well as the trolleys and the column, are made of high quality stainless steel
- the surface is electropolished, and treated that ensures greater durability and a more simple, and safe, sanitization

### Cushions:

- The cushions of the table top are a soft radiolucent material, anti-static, electrically conductive, anti-decubitus and ergonomically shaped
- The cushions have the unique characteristic of the total absence of seams for an easy cleaning.
- It is possible to choose the cushions in viscoelastic material with a thickness of 80 mm, with characteristics of anti-decubitus, with maximum comfort for patients and easily removable.
- All the cushions of the OPT VANTO, are free of latex ( latex-free).

### Specialistic carbon fibre table-top

- with longitudinal slide ("standard" version)
- with longitudinal and lateral slide ("XY" version)



# Emergency devices

## MPC – code 9927034

*Device for moving the table-top onto the trolley – Emergency column or table-top movement device*

VANTO Emergency Movement is an exclusive accessory available to the OPT Vanto operating system which makes it possible to move the Operating Table in various operating situations:

it allows the movable sections of the surgery table top to be moved even in the absence of the column or when the table top itself is not positioned on the column but on the trolley, thus making it possible to position the patient beforehand and consequently reduce the times between one operation and the next.

Furthermore, it can be used as an emergency appliance in the event of a fault affecting the table's electronic control unit by connecting the appliance to the column or the table-top it is possible to complete operating activities, in fact it can substitute all the operating system electronics. The emergency movement device is equipped with internal batteries, consequently it can be moved together with the table-top.



## EPS – code 9927035

*Column emergency power supply device*

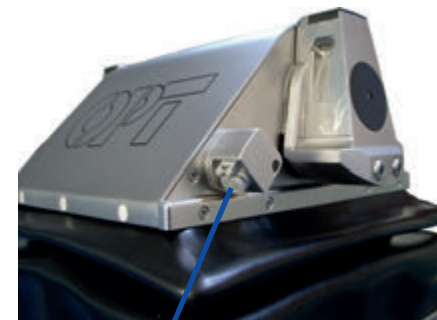
To accompany the MPC system there is an EPS accessory. The EPS emergency power supply device makes it possible to provide low voltage electricity to the table top in the event of flat accumulators or internal power supply unit failure.



## MPC "Light" – code 9927055

*Device for moving the table top on trolley*

System for the movement of the operating table on trolley that allows to move the movable sections of the surgical tops even in the absence of the column, when the same table top are not positioned on the column but on the cart, thus allowing positioning the patient in advance reducing time between a surgery and the other.



EPS/MPC connection  
connector on the column

code 009992703501





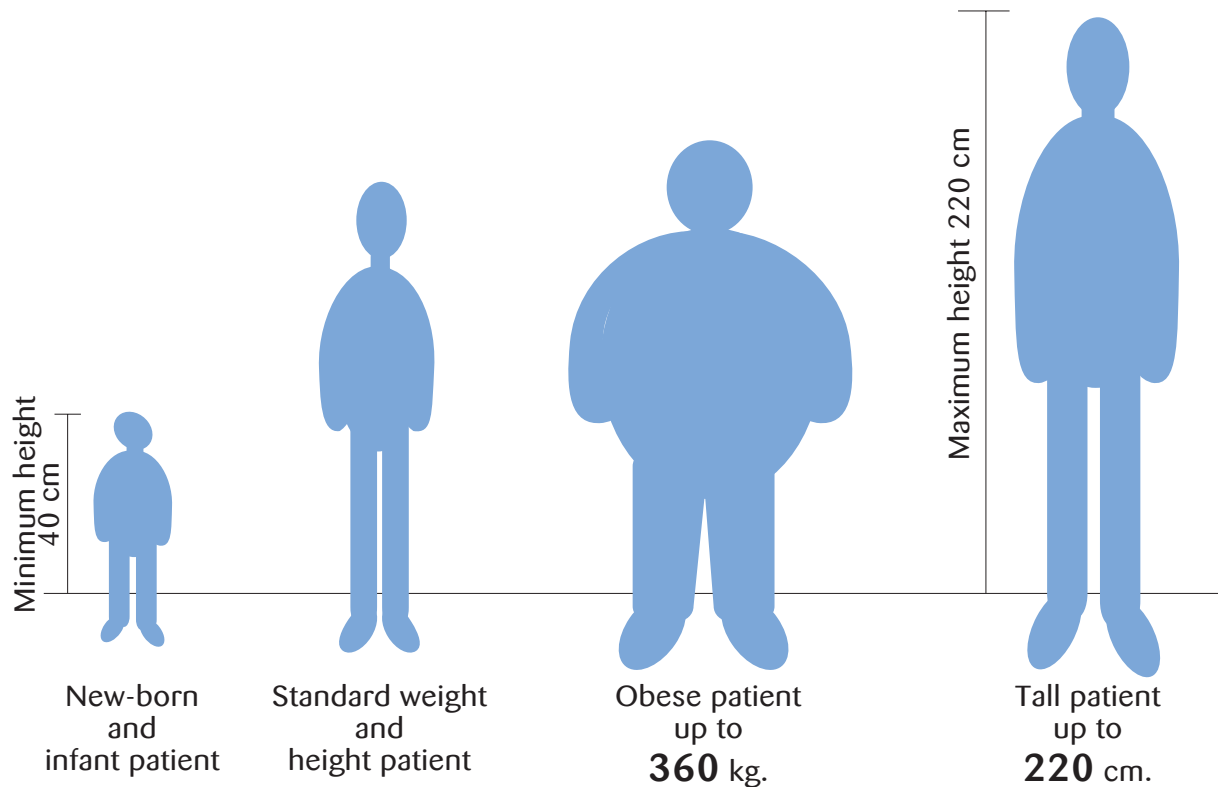
A photograph of a Vanto operating table in a surgical suite. The table is white and grey, with the brand name 'Vanto' visible on the side. It is positioned in a room with blue walls and a blue floor. In the background, there is a surgical light fixture and a control panel. The table is tilted upwards, and its mechanical components are visible.

# Applications



## The Vanto operating system:

- designed to carry patients weighing up to 360 kg
- thanks to its modular design it can be adapted to different patient heights and sizes



## Bariatric surgery

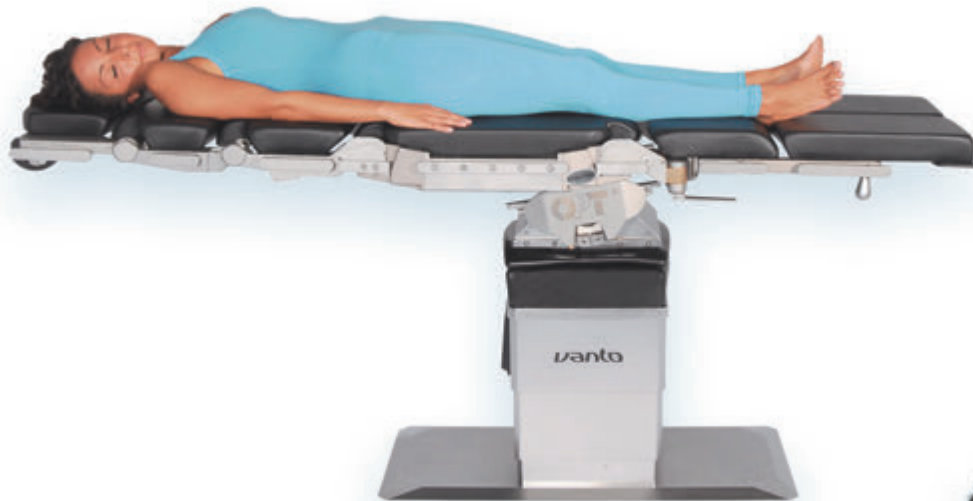
Universal table-top



# General surgery

Universal table-top

Laparoscopic surgery



Abdominal surgery



Thorax surgery  
in lateral decubitus



# Gynaecology • Urology Proctology

Universal table-top

**vanto**<sup>®</sup>  
the power in surgery  
APPLICATIONS



Urology  
Flex position



Gynaecology/Proctology  
in lithotomy position

# Neurosurgery

Universal table-top

Lateral decubitus  
Park bench



Supine decubitus

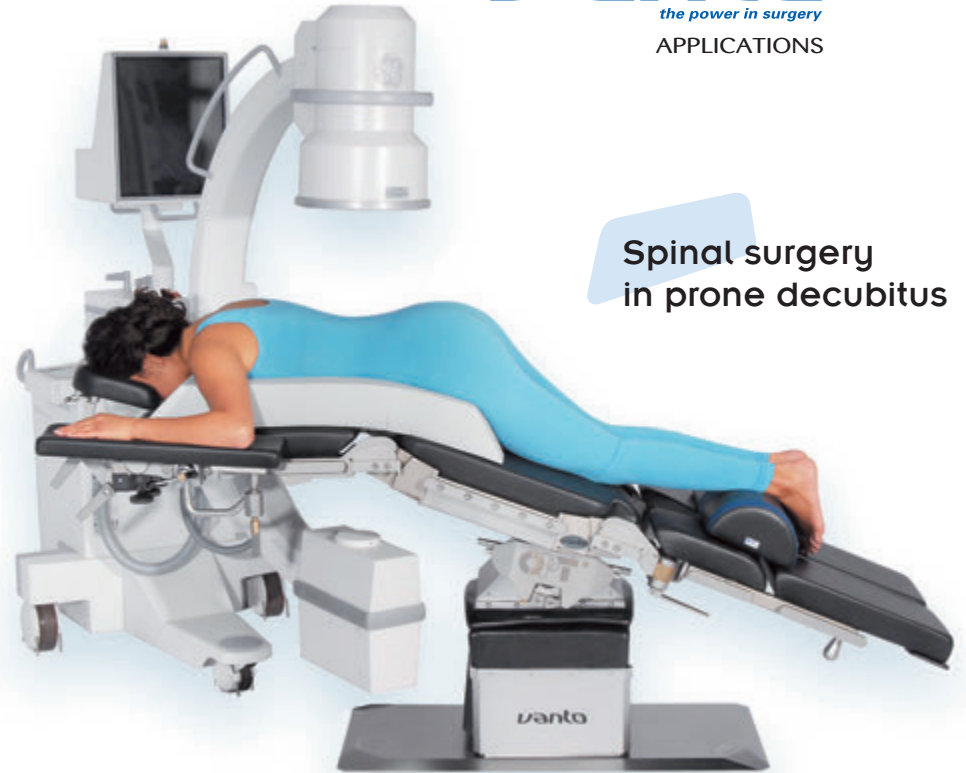


Prone decubitus





Semiseated decubitus  
Beach-chair



Spinal surgery  
in prone decubitus



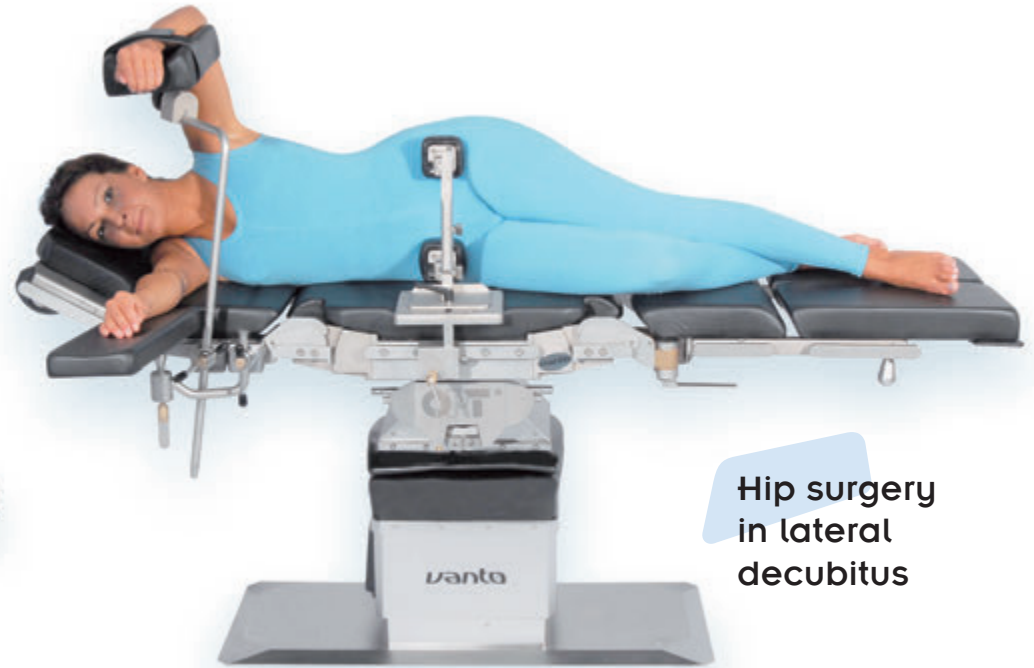
Spinal surgery  
in genupectoral decubitus

# Ortho • Trauma

Universal table-top



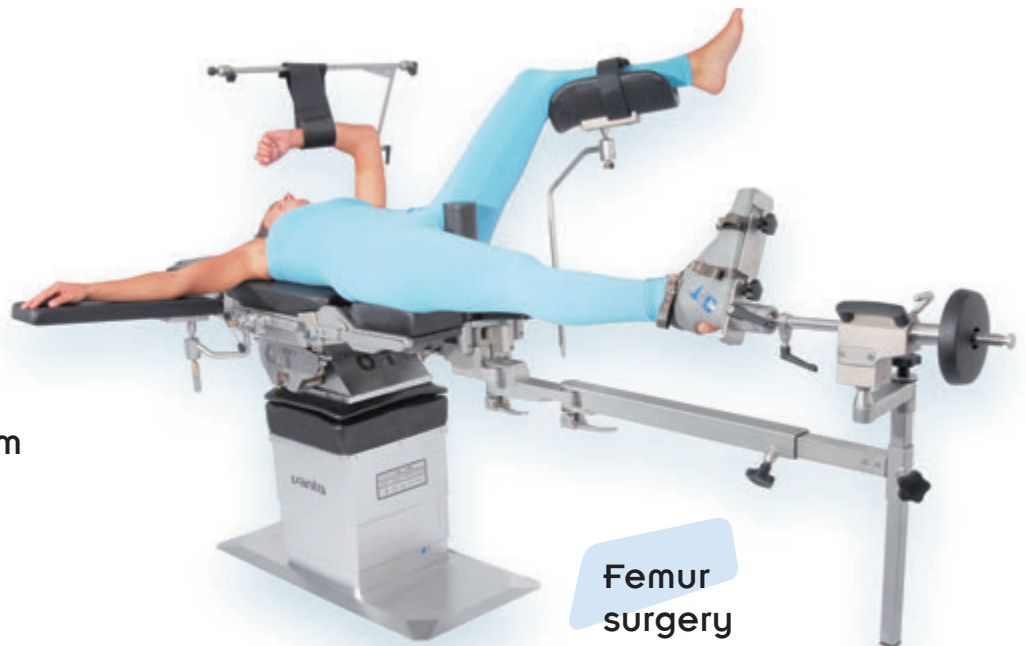
Shoulder surgery



Hip surgery in lateral decubitus



Arm and forearm surgery



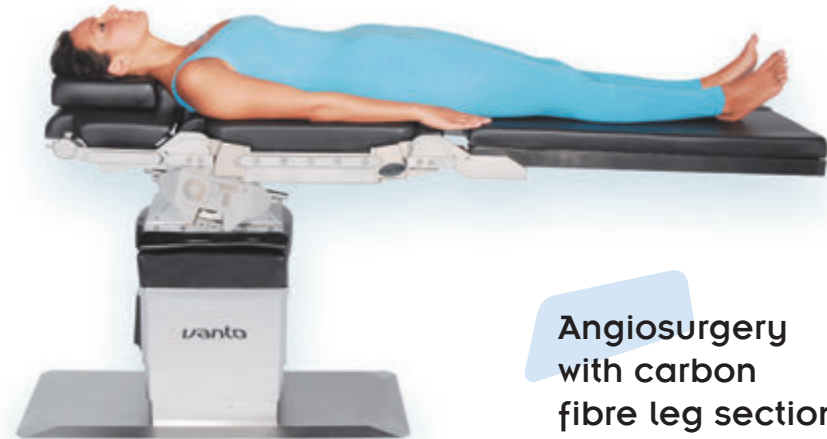
Femur surgery



## Cardio • Vascular



Tibia  
surgery



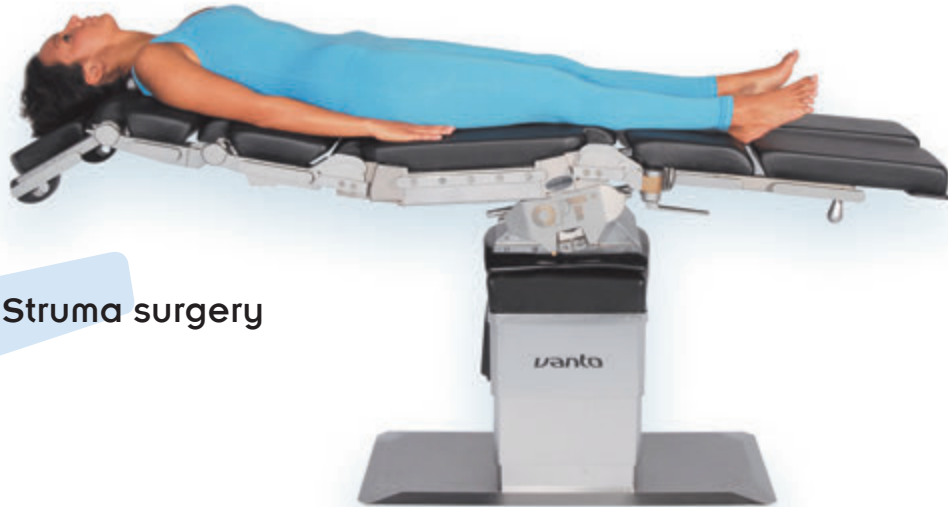
Angiosurgery  
with carbon  
fibre leg section



Angiosurgery  
with specialist carbon  
fibre table-top

## ENT • Maxilo-facial

Universal table-top



Struma surgery



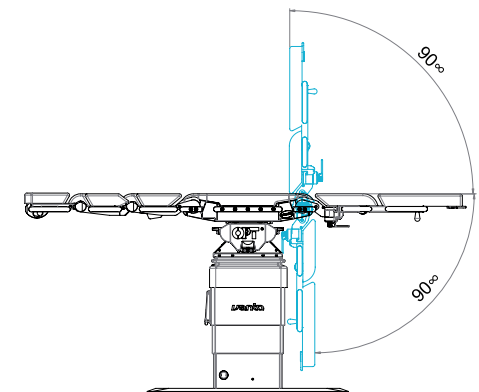
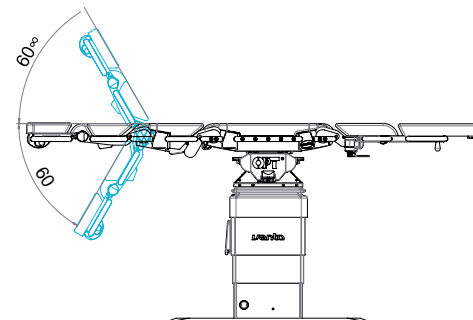
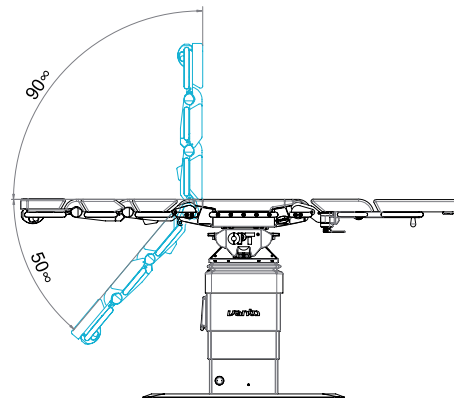
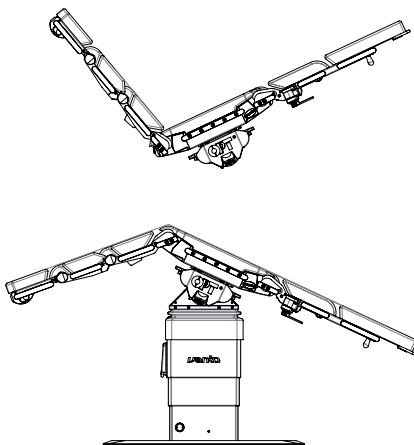
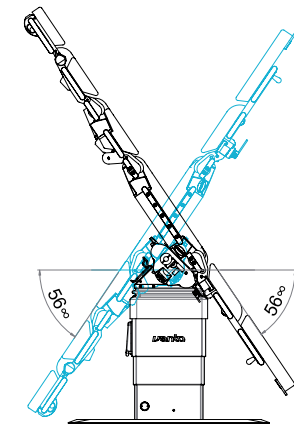
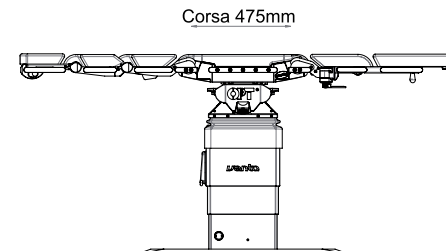
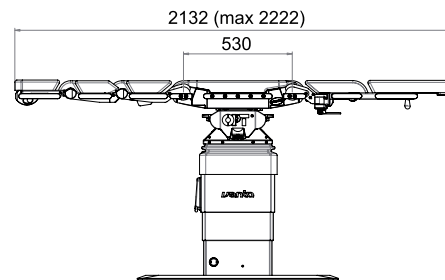
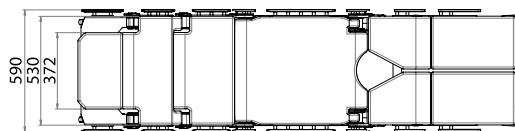
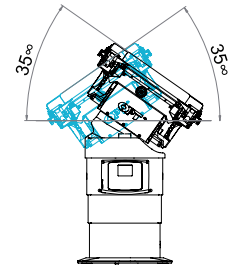
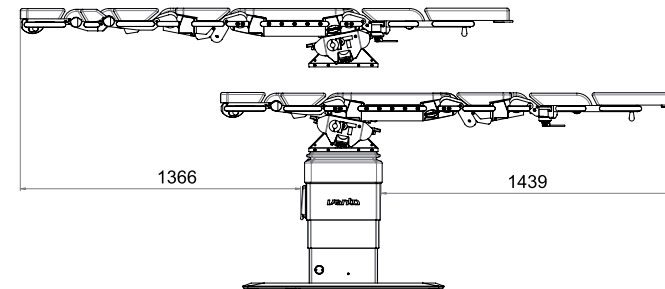
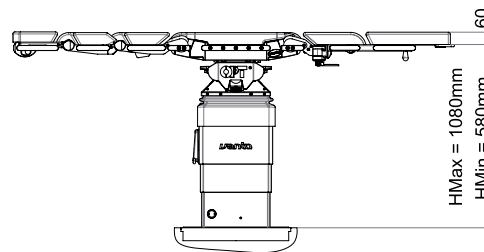
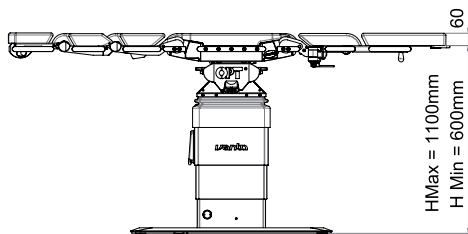
Ophthalmic surgery  
with specialist head rest

## Paediatric and neonatal surgery

Universal table-top



# Technical data





# Safety

## Active safety

- Automatic recognition of patient orientation and table-top configuration, setting of the movement angulations and activation of the anti-collision system for the single section.
- Automatic recognition of the single section of the table-top and the specific accessories, from whichever side they are mounted.
- User support, through specific functions available on the integrated control panel, in choosing the safest and most useful system performance, depending on the criticality of patient conditions and on the surgical field of use.
- “Fix Torque” joints: mounting and fixing in position with a single action.
- Table-top and table-top + column transportation available either fully automatic and manual
- STOP button on all control units (integrated, remote, cable-linked).

*CE mark – VANTO is designed in compliance with the EC standards and directives for electro-medical equipment.*

