



OPERATING TABLES VANTO II



Benefit from our many years of experience in manufacturing, sales, service and state-of-the-art equipment technology so that you can concentrate on your core tasks.

VANTO



WELCOME

With more than 45 years of experience in the field of medical and laboratory technology, the second generation of SCHLUMBOHM Medizin-Labor-Technologie GmbH is already successfully meeting the demanding requirements of the market. As early as 2014, company founder Hans-Joachim Schlumbohm retired from day-to-day operations and handed over the management to his son Tobias Schlumbohm. As before, Schlumbohm Senior is responsible for research and development in the company.

As a manufacturer of steam sterilizers, washer disinfectors, care combinations, stainless steel furniture and systems for the treatment of medical waste, we supply hospitals and laboratories worldwide with our medical and laboratory technology. A total of more than 120 highly qualified employees work at our production sites in Germany and Italy.

The correct determination of requirements and the preparation of planning proposals are an absolute must. Professional project support right up to installation and commissioning is just as much a part of this as customer service, which follows on seamlessly. With our solutions you not only get technically mature systems, but also the assurance that you have a professional partner who takes care of your smooth functional processes.

An important key to our long-term success and acceptance in the market is ensuring quality, operational reliability and functionality in day-to-day operation and to harmonise these features with economic aspects.

In this context, for example, a team of over 20 service technicians is available to you 365 days a year, 24 hours a day, with an immediate service throughout Europe. The acceptance of orders as well as the scheduling of all employees working in the field is done centrally from Hamburg.

Tobias Schlumbohm
Geschäftsführer

Hans-Joachim Schlumbohm
Gesellschafter

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SERVICE + CONTACT



INNOVATIVE NEW PRODUCTS PRESENTED IN BRIEF
THE NEW GENERATION OF OUR OPERATING SYSTEM
VANTO II

A smart operating system making complex things simply

Simplicity

VANTO II has been conceived to facilitate the work of OR staff in operating rooms. A new software with control system of the configuration ensures an easy use in the picking of the table top and/or of the entire system with the help of trolleys. The anti-collision safety system of the outer casing of the base allows the user to make any required position safely. Furthermore, the VANTO II table top has a unique Fix Torque system that allows to hook/unhook the sections of the operating table in a secure and rapid way and in a single movement without using additional clamps or locks.

Modularity and universality

The operating system with transferable table tops VANTO II is completely modular with a single central section to which numerous components (head, leg and other sections) can be added. Thanks to special sensors, the table is able to automatically detect the configuration setting and the table top orientation. Moreover, the table top also boasts a wide range of accessories that satisfy the needs of every surgical discipline.

Accessibility

The VANTO II system offers the exclusive possibility of accessing the column from all four sides. The lateral trolleys allow access indifferently from the left and the right side, while the longitudinal trolleys allow access from head or feet side of the system. Both types of trolleys are used for the transfer of the operating table top alone or for the transfer of the whole operating system. This distinctive feature allows to improve the space organization and ensures an optimal management of the patient.

Radiolucency

The table top is completely radiolucent on its entire length. Therefore, it allows a rational and easy use of the C-Arm and the realization of radiographies on all its length, possible also thanks to the longitudinal shift of the table top. The vascular table top and the carbon fibre sections allow for a 360° radiolucency.

Technology

The VANTO II system contains the technological solutions that meet the needs of both surgeons and patients. The system allows to perform various movements simultaneously or even to set different security protocols according to the specific requirements of the surgical operation. In addition, VANTO II has a state of the art anti-collision safety system that protects from unexpected errors or crashes.

COLUMN

Three types of column for any necessity

The column and the base are made in stainless steel and noble materials of highest quality superficially treated with state-of-the-art procedures (electropolishing for stainless steel) in order to increase the resistance to oxidation, ensuring a longer life and a greater resistance to antibacterial products.

The column contains all the electronic and mechanical components designed for the system functioning including the power supply. Therefore, even in case of discharged batteries, there is no external power supply that could disturb the operators.

The unique control panel integrated in the column controls all movements of both table top and column and allows to memorize instantly 36 different positions, any of which can be automatically recalled by the user anytime.



Mobile column

The mobile column is built on an ultra-flat base with minimum thickness that ensures maximum stability to the entire system. It offers an easy access to the table top for the users and avoids collisions with C-arms, pedals, trolley, etc.



Stationary column

The stationary column is fixed to the floor with 340° rotation. This allows better patient positioning for any type of the surgery. The remote control manages the electric block system of the column.



Mobile Plus column

VANTO II Plus has two wheels integrated to the base of the column which allows to transfer the table without using the standard trolley. An auxiliary removable mini trolley can be used for intraoperative transfers or minor adjustments before, during or after the surgery.

TABLE TOP Flexibility and universality in a single table top

The operating table top of the VANTO II system is universal and suitable for all surgical specialties including traumatology.



Ergonomics

The table top has been designed to simplify the daily activities of the OR operators and to increase the patients' safety and comfort in order to prevent injuries caused by decubitus.

Modularity

The table top is completely modular thanks to the single central section to which numerous components (head and leg sections, elongation plates) can be added. The system automatically detects the configuration setting and the table top orientation and recognizes the sections and accessories attached to the central module of the table.



CUSHIONS

The comfortable choice

All the VANTO II cushions are soft, radiolucent, antistatic, anti-decubitus and easy to remove.

The table top and all its sections have two types of cushions, which can be ordered depending on the surgical needs:

- Moulded cushions
- Memory foam visco-elastic cushions

Moulded cushions

The moulded cushions with a thickness of 60/70 mm have a specific ergonomic design. They have no seams or joins to allow the ingress of fluid and are easy to clean thereby reducing the chances of cross infection.

The cushions are thicker in the center of each section for a better comfort of the patient.



Memory foam visco-elastic cushions

Memory foam visco-elastic cushions with a thickness of 80/90 mm are designed to reduce decubitus problems and to give maximum comfort to patients. These cushions are suitable for long lasting interventions and reduce pressure sores.



Both types of cushions are latex free.

Cushion attachment system

All the VANTO II sections have an easy cushion attachment system. Both moulded and visco-elastic cushions are interchangeable. Therefore, the OR staff can choose which type of cushion to use according to the needs of the surgical procedures.

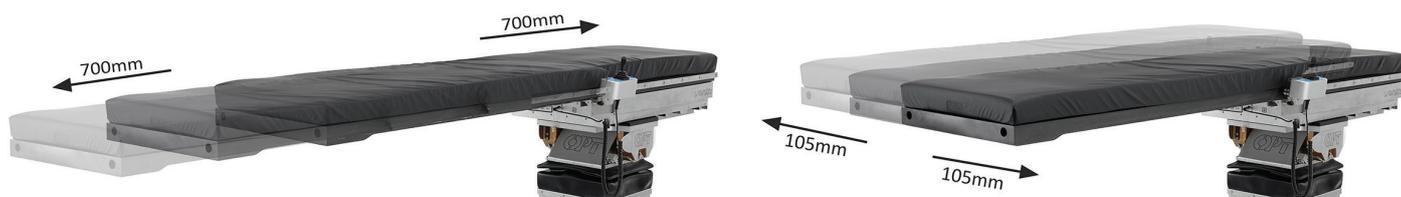
This cushion attachment system simplifies the cleaning process and allows a fast preparation of the table to the next intervention.



Carbon fibre table tops

The VANTO II system has two types of carbon fibre table tops for vascular surgery. They were designed to satisfy the needs of cardiac surgery, vascular surgery, interventional radiology, orthopaedics - traumatology, angiography, neurosurgery and all the other surgical specialties where radiolucency is required.

- Vascular "X" carbon fibre table top - complete with antistatic, radiolucent, electro-conductive removable cushion. The table top has a longitudinal slide of 700 mm. The radiolucent area from the head side is 1840 mm (1540 mm without the head section); 1680 mm of which visible at 360 ° (1380 mm without the head section).



- Vascular "XY" carbon fibre table top - complete with antistatic, radiolucent, electro-conductive removable cushion. The table top has a longitudinal slide of 700 mm and bilateral slide of 105 mm, both movements can be performed simultaneously. The radiolucent area from the head is 1840 mm (1540 mm without the head section), 1680 mm of which visible at 360 ° (1380 mm without the head section).



Both types of vascular table tops are controlled by a IR or wired remote control. The vascular "XY" carbon fibre table top has an optional joystick with adjustable speed for easy and quick movements.



TROLLEY Uniqueness that makes the difference

OPT is the only company in the world that can offer 3 types of longitudinal trolleys (head side and foot side insertion) and 3 types of lateral trolleys (right and left side insertion) to move only the table top and/or the entire system (column and a table top). This is possible thanks to the simple mechanical selector on the side of the trolley. This distinctive feature allows a rational space organization and an optimal patient management during the perioperative procedure.

The trolleys are made entirely of electro polished stainless steel. A distinguishing feature of VANTO II is the possibility of picking the table top (or the table top and the column together) manually, half-automatically or automatically.

Both longitudinal and lateral trolleys are available in three versions:

- standard trolley
- trolley with Trendelenburg and Reverse Trendelenburg
- trolley with adjustable height and with Trendelenburg and Reverse Trendelenburg

Lateral trolley

The lateral trolley, exclusive feature of OPT, allows to transfer only the table top or the entire system indifferently from the left and the right side of the patient. This type of trolley is suitable for narrow operating rooms where space needs to be optimized.



Longitudinal trolley

The longitudinal trolley allows to transfer only the table top or the entire system indifferently from the head or feet side. It is easy to move thanks to a 5th wheel, optional, which can be inserted or removed easily and quickly using a foot button.

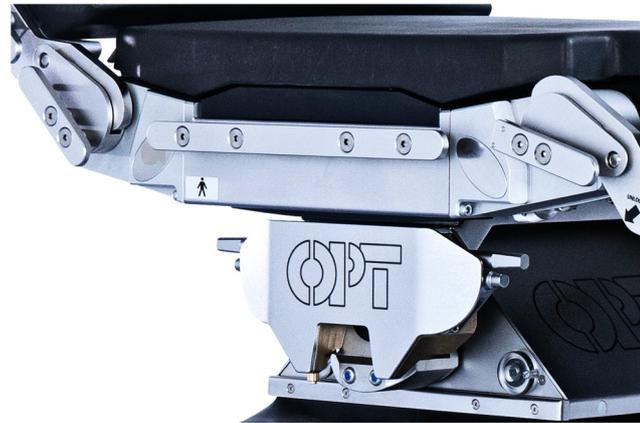


TECHNOLOGY

The tradition of innovation

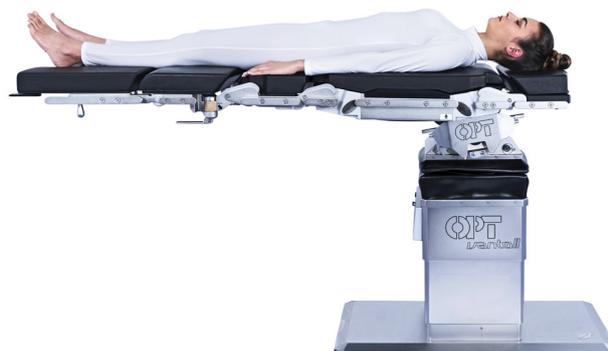
Main features

The operating system VANTO II is made of stainless steel and noble materials of highest quality. The stainless steel is treated with electro-polished procedure that ensures a longer life of the material and a safe table cleaning.



Radiolucency

The table top is completely radiolucent on its entire length. Therefore, it allows a rational and easy use of the C-Arm and the realization of radiographies on all its length, possible also thanks to the longitudinal shift of the table top. The vascular table top and the carbon fibre sections allow for a 360° radiolucency.



Unique attachment system
of the table top sections

All the removable sections of VANTO II have a unique Fix Torque system. This system allows to hook/unhook the sections in a secure and rapid way and in a single movement without using additional clamps or locks.



Bariatric surgery
(for obese patients)

The exceptional load capacity of VANTO II is 453 kg (1000 lb).



Electro-polishing

The electro-polishing procedure is currently the best technique for stainless steel treatment. It ensures a longer life of the material and a simple safe cleaning of the system. After the treatment, the surface is smooth, shiny, and more resistant to scratches and bacterial agents.



Washing tunnel

The operating table top and the trolley can be washed in the washing tunnel (protection against water jets: IPX6).

CONTROL SYSTEMS

New wireless remote controls with display



Total control of the table in one hand

OPT adds to its line of remote controls state-of-the-art remote controls with LCD touch screen display. Thanks to this option users always have a clear control of the operating system in all its functions.

Using these wireless remote controls it is possible to make all electromechanical movements of the operating system VANTO II (including self-levelling).

Thanks to the bidirectional communication with the column, the display allows to quickly obtain various information and to activate all functions of the system.

The main features of the new wireless remote controls with LCD display are:

- Possibility of memorizing customized positions which can be recalled any time
- Setting and selection of safety protocols for obese patients
- Visualization of all electromechanical movements of the system and movement degrees
- Automatic detection of sections attached to the central module of the table top
- Indication of the tabletop orientation on the column
- Visualization of the charging status of both remote control
- Information on the status of the operating system and warning through alarm messages
- Information on the use of the operating system
- Configuration of customized parameters

The remote controls have intuitive graphic symbols in order to make their use immediate and extremely simple even for less experienced users. They also have backlit buttons and can therefore be used even with soft lights.

VANTO II remote controls have a STOP button to block instantly any movement. Moreover, the remote controls with LCD display have a LOCK/UNLOCK button to block temporarily the buttons and a SPEED button to change the movement speed.

Every remote control can be connected to a specific VANTO II column through a simple and quick binding procedure. Every remote control can activate only one column at a time thus avoiding any interference with other operating systems.

In addition, VANTO II controls have an exclusive button to memorize instantaneously a specific position of the operating system, which can be recalled by the user any time.

Integrated control keyboard



VANTO column has an integrated control available in two version, with or without display which can also be used as an emergency control. It can activate the column and the table top movements without having to use any wired or wireless remote controls.

Moreover, the integrated remote panel has a dedicated button to search for the available wireless control giving an acoustic signal.

The version with display allow the operator of the OR room to have an exact replica of the remote control with display and have a live virtual view of the table positioning.

Foot switch



VANTO II can be controlled by a foot switch with three pedals that control three electromechanical movements: height variation, longitudinal tilt and lateral tilt of the table top.

Emergency systems



MPC system - exclusive accessory for VANTO II, to use as an emergency device in case of failure on the electronics of the table. By connecting this device to the column or to the table top it is possible to complete the surgery intervention.

Moreover, this device allows to move the table top sections when the table top is installed on the trolley. This allows to position the patient in advance and therefore reduces preparation time between the operations.



EPS system - emergency device for the power supply of the operating system in case of uncharged batteries or power supply failure.

TECHNICAL FEATURES

Know-how acquired in almost 100 years of experience

Modularity and flexibility

The extreme modularity of VANTO II increases the flexibility of the OR. For instance, it allows to change the table configuration quickly and easily according to the required surgical discipline and thus adapting to the needs of OR staff.



Attachment system

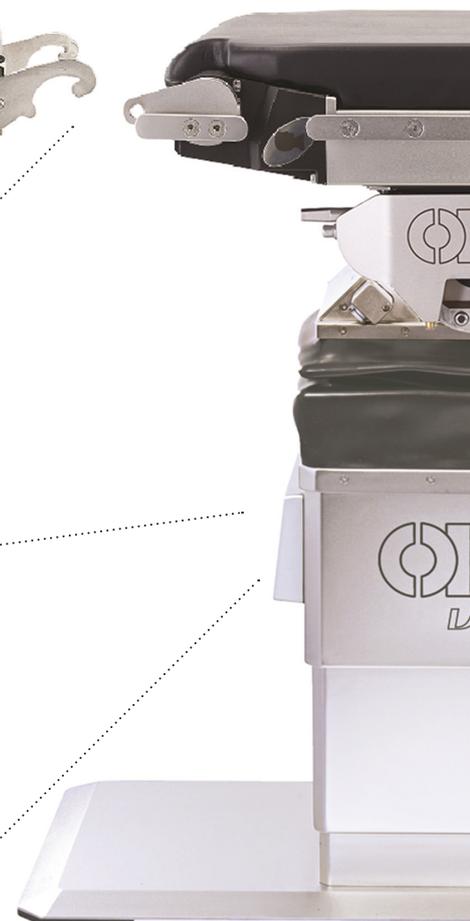
The innovative Fix Torque system allows to hook/unhook the sections of the operating table in a secure and rapid way and in a single movement without using additional clamps or locks.

Remote panel integrated into the column

The remote panel integrated into the column has a menu in five different languages and always indicates several information such as battery charge, table positioning, type of table top and accessories attached to the head/leg sides of the central section, movement and the Trendelenburg and Reverse Trendelenburg degrees.

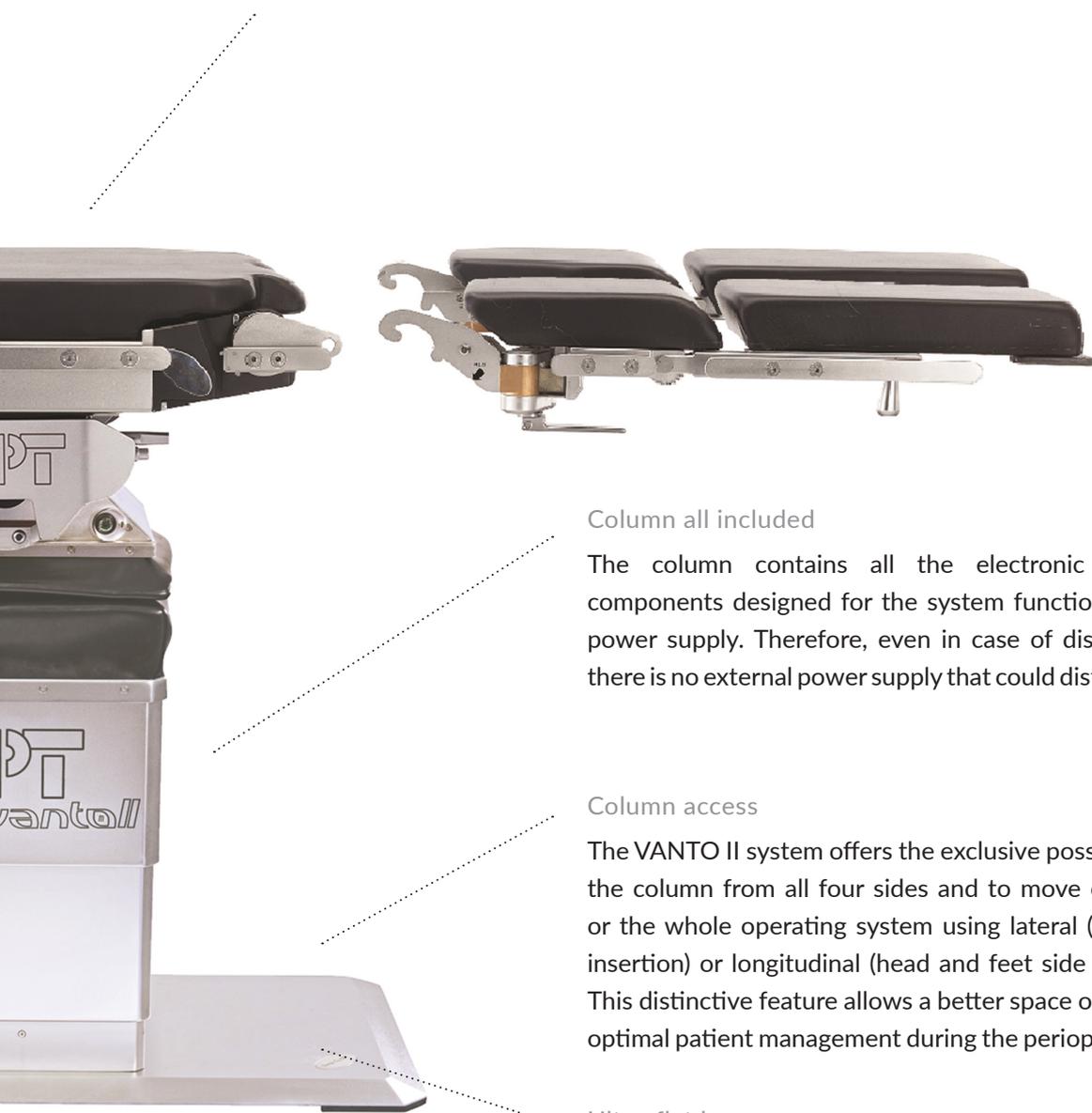
Cleaning button

The integrated remote panel has a “clean” button – by pushing it, the system raises the column until the maximum height and allows an easy cleaning of the surfaces even in the overlapping areas of the outer casing.



Central module of the table top

The central section of the table top is symmetric and motorized on both sides (back and legs). It does not need any additional electric section for the electromechanical movements and performs all surgical activities without the need of moving the patient.



Column all included

The column contains all the electronic and mechanical components designed for the system functioning including the power supply. Therefore, even in case of discharged batteries, there is no external power supply that could disturb the operators.

Column access

The VANTO II system offers the exclusive possibility of accessing the column from all four sides and to move only the table top or the whole operating system using lateral (right and left side insertion) or longitudinal (head and feet side insertion) trolleys. This distinctive feature allows a better space organization and an optimal patient management during the perioperative procedure.

Ultra-flat base

The ultra-flat base of VANTO II ensures maximum stability and great practicality. It avoids collisions with the surgeon, OR personnel and other devices (C-arms, etc.).

Anti-collision system

The operating system VANTO II has a sophisticated anti-collision system of the table top that prevents from crashes against the floor.

PERFORMANCES Extreme positions with simplicity

The operating system VANTO II uses electromechanical movements that can be performed also simultaneously:



- Height variation (without cushions): 600-1.150 mm
- Trendelenburg / Reverse Trendelenburg: $\pm 56^\circ$
- Bilateral tilt: $\pm 35^\circ$
- Lower back section: $+ 90^\circ/- 50^\circ$
- Upper back section: $\pm 60^\circ$ (with motorized section)
- Thorax flex: $+ 90^\circ/- 50^\circ$
- Kidney flex: $+ 90^\circ/- 50^\circ$
- Legs section: $+ 90^\circ/- 90^\circ$ (independently right, left or together)
- Longitudinal slide of the table top: 475 mm (completely electromechanical)
- Flex - only one button for two simultaneous movements (back section / Reverse Trendelenburg)
- Reflex - only one button for two simultaneous movements (Trendelenburg / back section) with double button for the leg movement.
- Self levelling - zero automatic position with simultaneous realignment of all movements, in order to speed the maneuver and especially to avoid trauma to patients.

The system has also the following manual movements:

- Head section adjustment (removable): $+ 53^\circ/- 53^\circ$ (tiltable without adjustment at -90°)
- Upper back section: $+ 90^\circ/- 90^\circ$ (with foldable section)
- Legs section spread: 180°



The electromechanical Trendelenburg and Reverse Trendelenburg movements combine with the longitudinal slide to maintain the same light point on the table top.

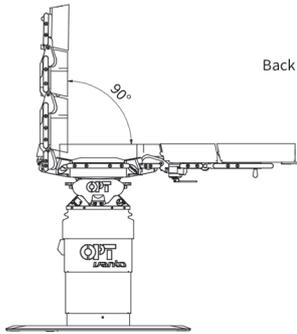
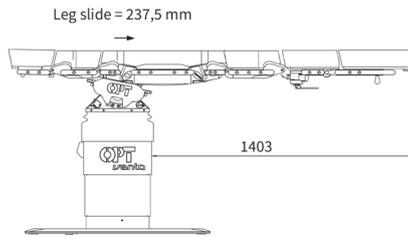
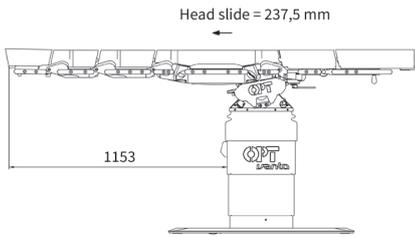
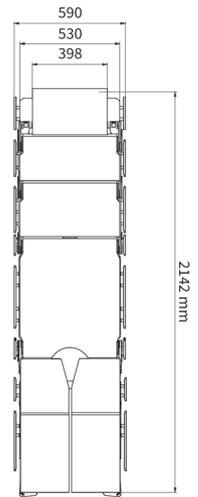
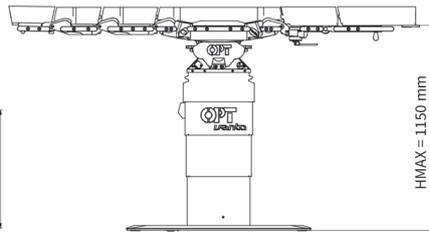
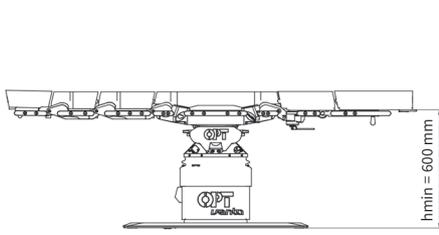
Noise reduction and fluidity in movement

Thanks to its completely electromechanical movements, VANTO II is extremely silent in order not to distract surgeons and OR staff during the intervention. Moreover, the electromechanical movements are extremely fluid and thus increasing the patient's comfort and safety.

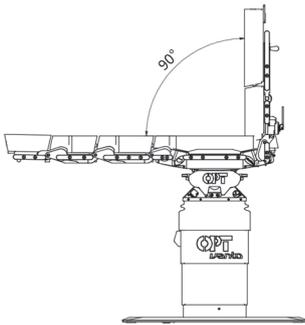
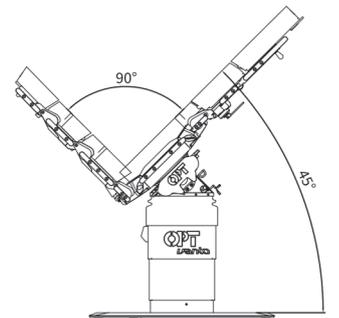
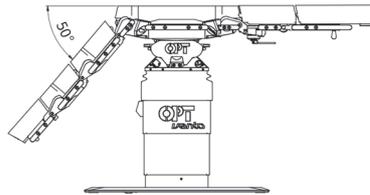
Combined movements

A distinguish feature of VANTO II is the possibility to perform combined electromechanical movements in a fluid and smooth way for a quicker and simpler patient positioning.

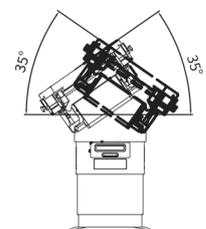
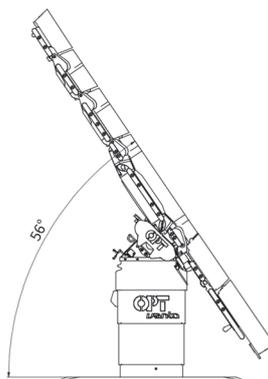
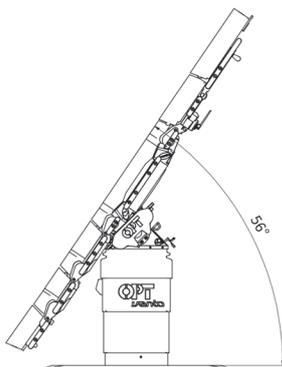
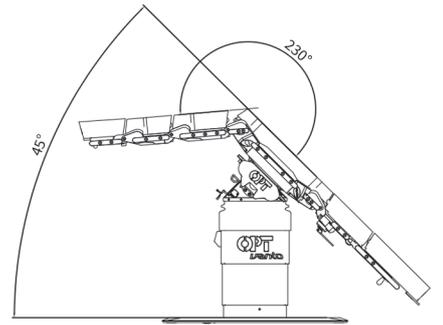
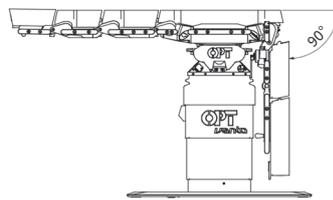
TECHNICAL DRAWINGS



Back sections



Legs sections



Tolerance +/- 2° on angular movements and +/- 3% on linear movements.
 Operating table with the column code 880200001 and table top code 881200001.

TECHNOLOGY AND SAFETY

Full safety for operators and patients

Full integration

VANTO II can be integrated with the main control systems for integrated OR thanks to wireless communication protocols which comply with the most stringent regulatory standards.

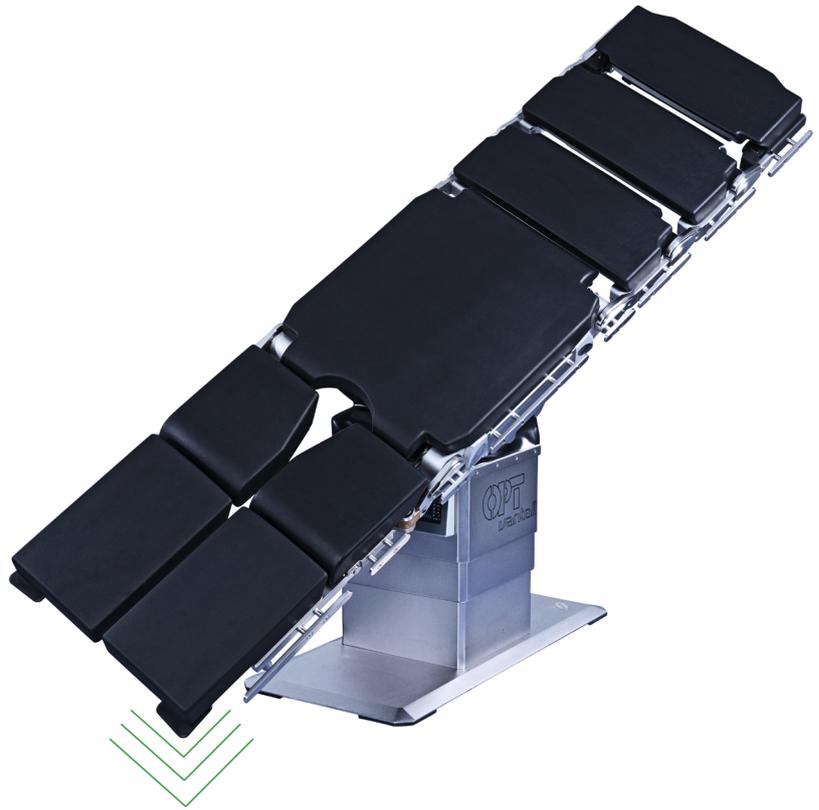
Safe positioning of obese patients (security protocols)

With VANTO II the user can set up several safety protocols according to needs of the surgical procedure and according to the patients' weight or height.

Automatic detection of the table top orientation

Thanks to special sensors, VANTO II automatically detects the position of the head and leg sections (or of any accessory placed directly on the central section from the head/leg side). This leads to the automatic detection of the patient's orientation and to the consequent regulation of the movement degrees and the activation of the anti-collision system of the single sections.





Anti-collision system

The operating system has an exclusive anti-collision safety system that recognizes the sections attached to the table top and can prevent collisions against the column and/or the floor without limiting its performances.

Safety

Safety is a prior focus of OPT in the development and design of all its products. Attention is paid on the patient's safety and tranquility as well as on the safety of the operators working in the OR.

VANTO II has been designed according to passive safety principles (a reliable, solid and efficient product) and to active safety principles (devices which prevent and avoid any errors caused by misuse).

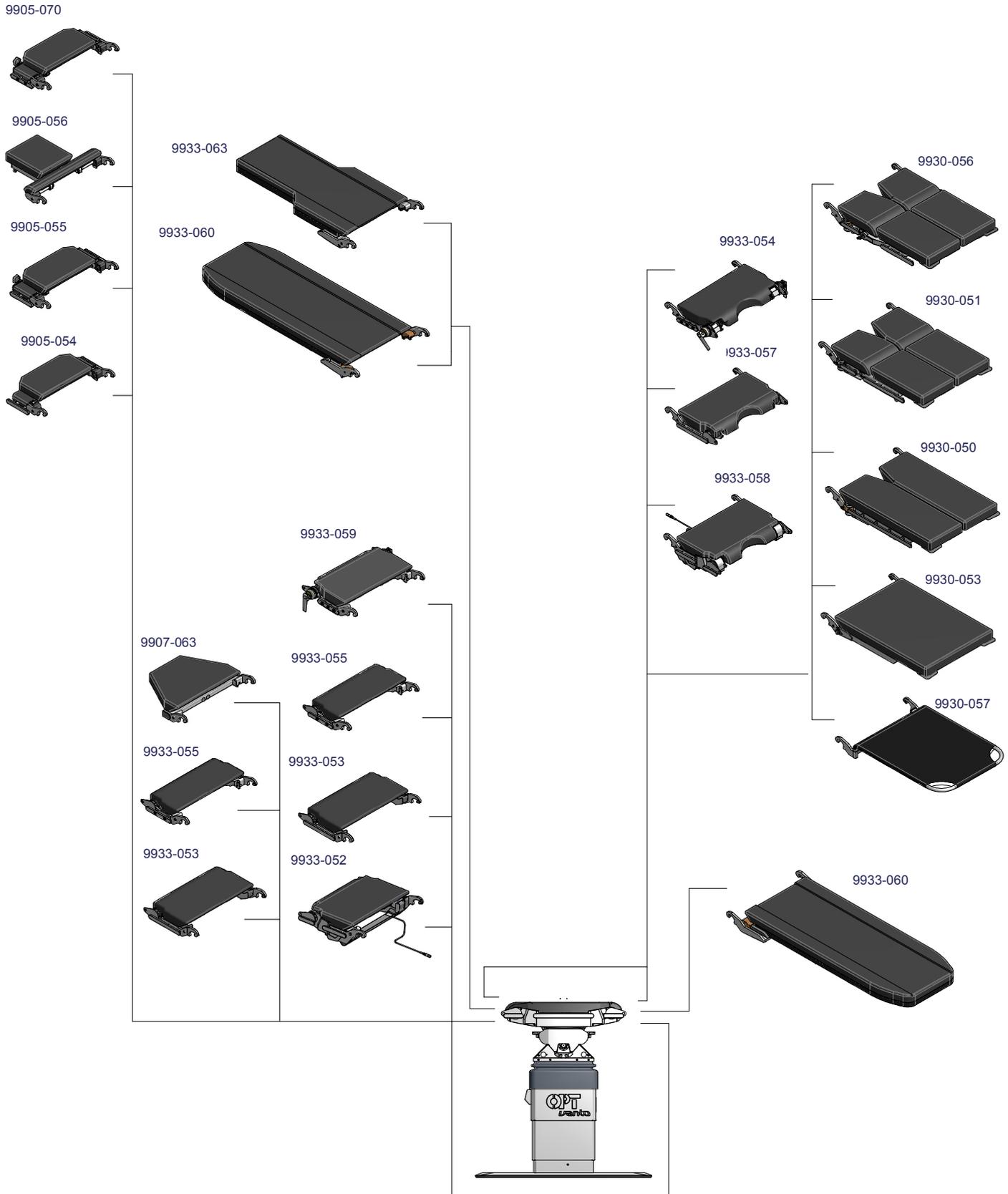
ISO Certification

OPT SurgiSystems complies with UNI EN ISO 9001 and UNI EN ISO 13485 certification. The company has always used high-quality materials and has complied with the most stringent regulatory standards of design, manufacturing. It controls and tests each product before the delivery to the end user. This ensures an optimal level of functionality and safe use.



The operating system VANTO II is fully compliant with the regulation 93/42/CEE, 2014/30/UE, 2014/35/CE, 2011/65/CE, 2014/53/UE (RED) and with the technical standards for medical devices CEI EN 60601-1, CEI EN 60601-1-2, CEI EN 60601-2-46.

MODULARITY Flexibility in the operating room



Technical drawing of VANTO II with the different configurations of the operating table.

SURGICAL POSITIONS

GENERAL SURGERY



Laparoscopic surgery



Thorax surgery in lateral decubitus



Colon surgery



Abdominal surgery



Kidney surgery in lateral decubitus
(flex position)



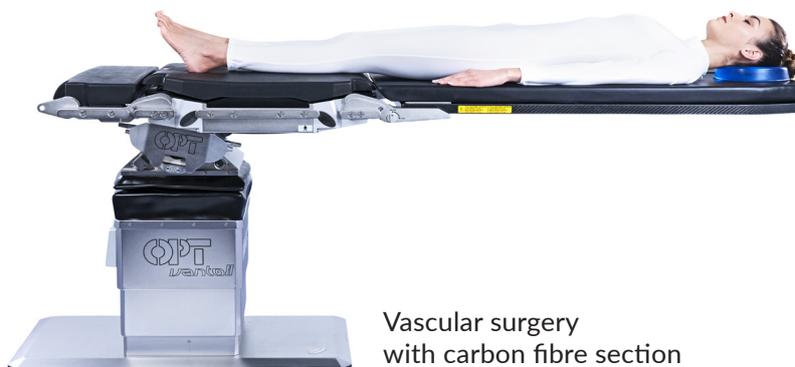
Gynae-uro-procto
in lithotomy position



Lithotomic surgery



Lithotomic surgery
with instrument tray



Vascular surgery
with carbon fibre section



Thyroid surgery



Goiter surgery



Shoulder arthroscopy in lateral decubitus



Shoulder surgery in beach chair position



Shoulder surgery



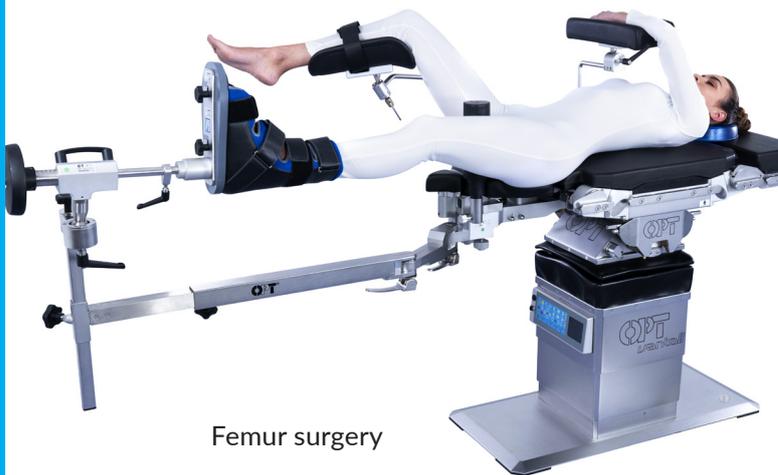
Hip surgery in lateral decubitus



Knee arthroscopy



Hip surgery with traction device
in carbon fibre



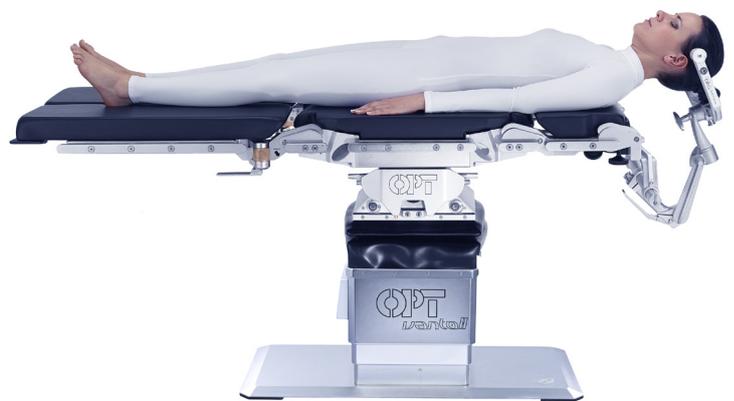
Femur surgery



Tibia surgery



Skull surgery in prone decubitus



Supine decubitus



Skull surgery in beach chair position



Spine surgery in genupectoral position



Skull surgery in park bench position



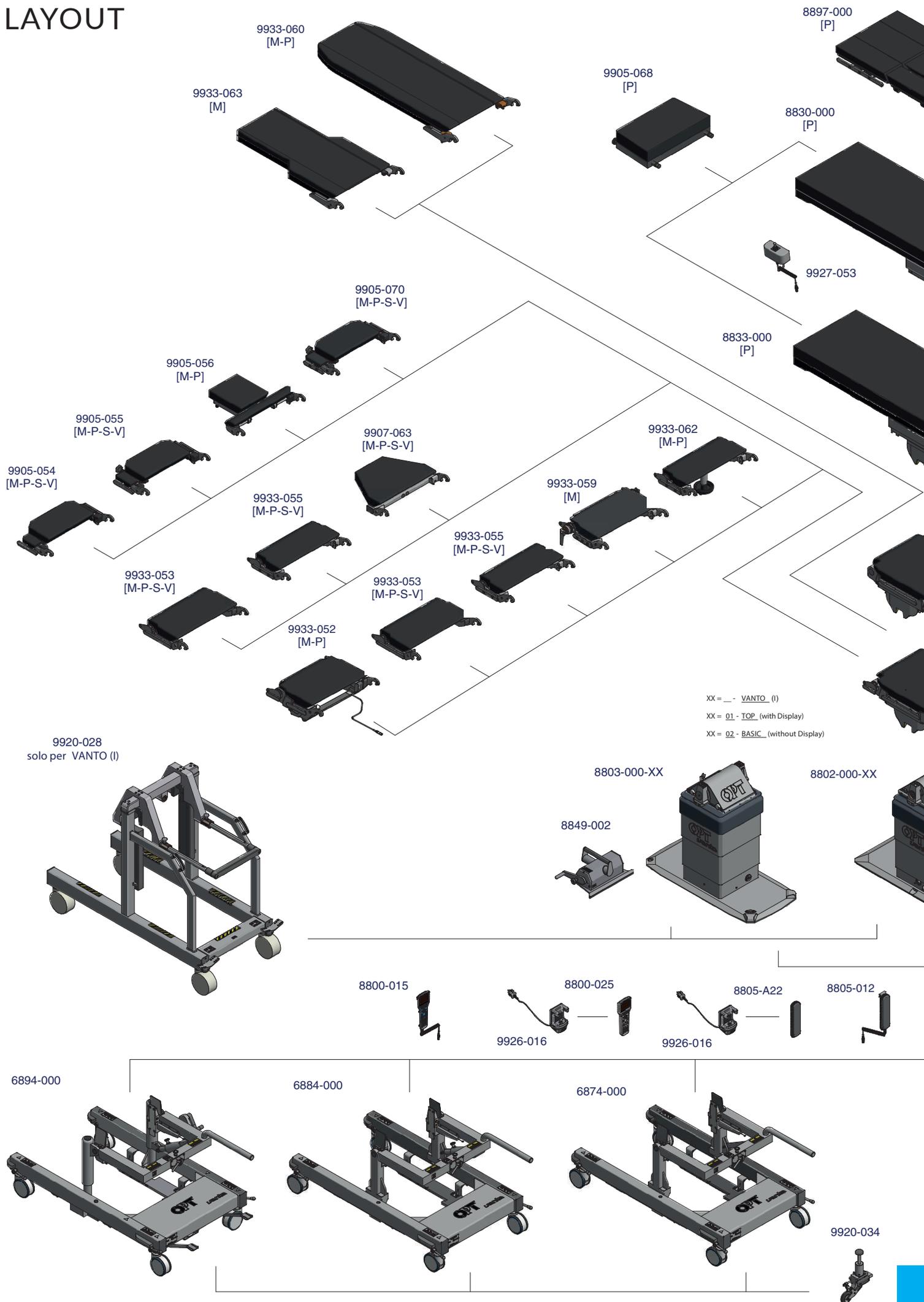
Spine surgery in prone decubitus



Column stabilization

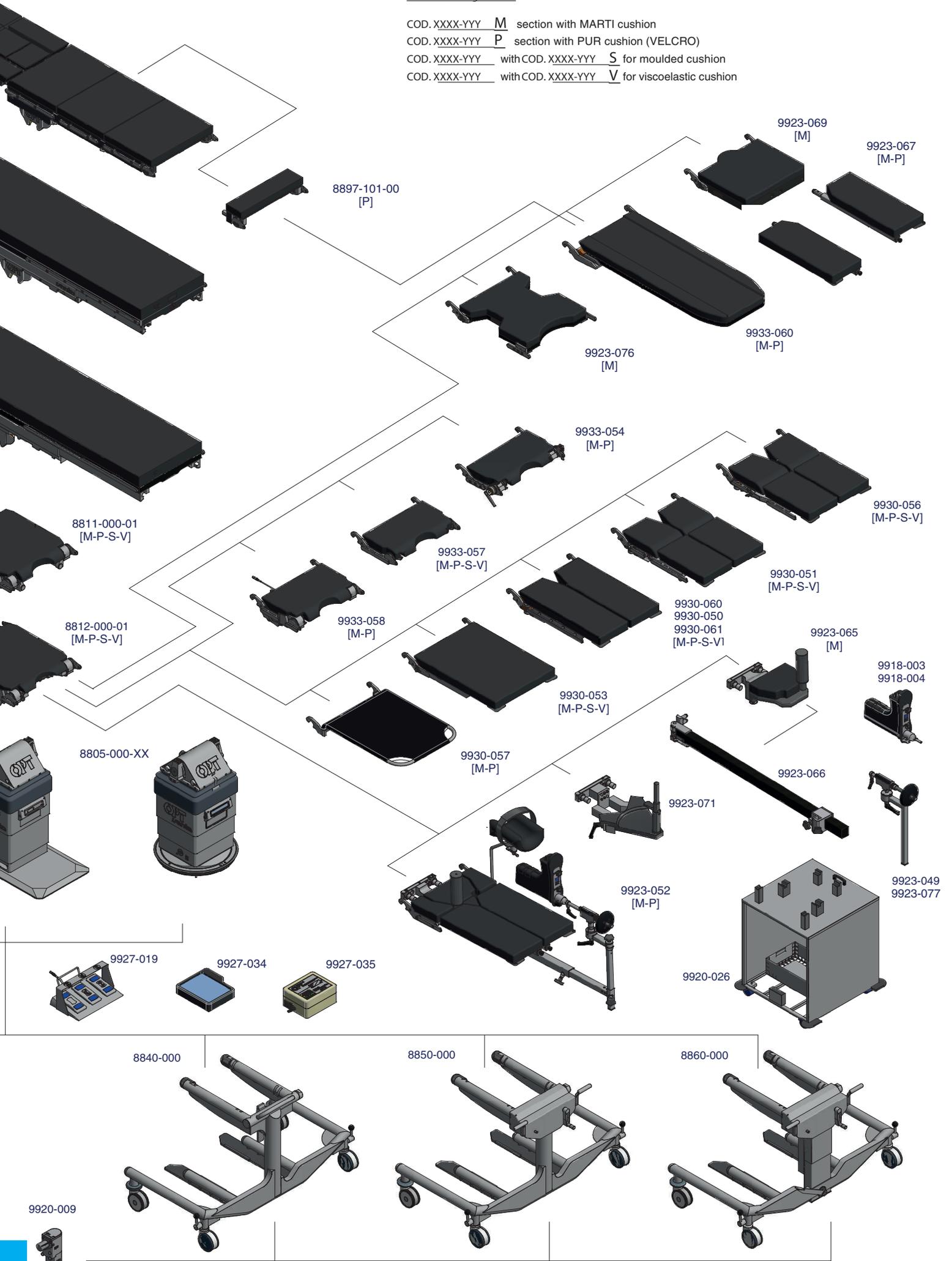


LAYOUT



Sections configuration:

- COD. XXXX-YYY **M** section with MARTI cushion
- COD. XXXX-YYY **P** section with PUR cushion (VELCRO)
- COD. XXXX-YYY with COD. XXXX-YYY **S** for moulded cushion
- COD. XXXX-YYY with COD. XXXX-YYY **V** for viscoelastic cushion





WASHER DISINFECTORS

SWD Series

The devices of the SWD series are the ideal washer disinfectors for the safe and efficient reprocessing of surgical instruments, MIC instruments, anaesthetic material, containers, surgical shoes and laboratory utensils. In addition to an attractive design and reduced external dimensions, innovative details to increase process reliability and DIN EN ISO 15883 were at the forefront of its development.



LARGE-CAPACITY WASHER DISINFECTORS

WDC Series

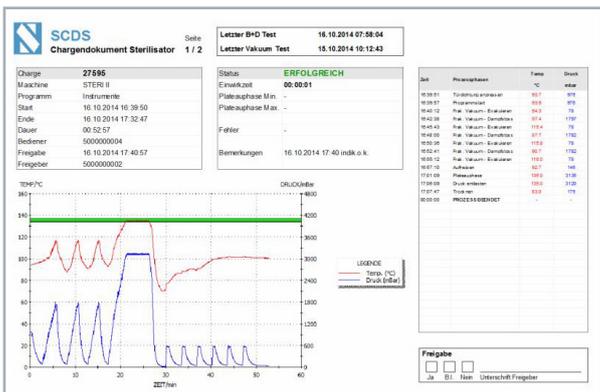
Large-capacity washer disinfectors for the reprocessing of medical devices as well as large-volume goods such as transport trolleys, containers, surgical shoes, etc. Aspects such as safety, hygiene, durability, reliability, low maintenance and resource-saving use were taken into account in the development of the large-capacity washer disinfectors. These devices guarantee a high level of operator safety with the best cleaning results.



STEAM DISINFECTION SYSTEMS

SHD Series

Large-scale disinfection systems using the VSV process for large-volume goods for infection prevention. Especially for the economical disinfection of large quantities of solid and porous goods such as mattresses and pillows. The latest generation of hi-tech solutions has been developed in terms of economy, resource conservation and ease of use. With maximum safety for the operator and best disinfection results.



BATCH DOCUMENTATION

SCDS

System solution for complete sterile material documentation. The SCDS batch documentation system has been developed for fast, simple and safe documentation that meets all legal requirements. All work steps in the reprocessing process are recorded, documented and stored. This considerably reduces the time required for the documentation of processes in the sterile material supply department.



VALIDATION

Quality assurance during reprocessing

Due to our high professional standard in the fields of cleaning, disinfection and sterilisation, a team of qualified application engineers is at your disposal. When validating reprocessing processes, the focus is on quality assurance measures and thus the requirement of reproducible processes in the reprocessing of medical devices. We help you to analyse and optimise your treatment process.

Range of services

Complementary product range



STEAM STERILIZERS

SHS Series

The new generation of fully automatic SCHLUMBOHM steam sterilizers of the SHS series are the result of state-of-the-art development work and proven, mature device technology for daily use in the medical sector. User-friendliness as well as energy and resource-saving technology were just as much a priority in the future-oriented development as optimum accessibility for maintenance and service.



CARE COMBINATIONS

AF2 Series

Bedpan washers and care combinations for fully automatic emptying, cleaning and thermal disinfection of bedpans, urine bottles and other vessels for human excreta. All requirements of the German Medical Devices Act (MPG), the Medical Devices Operator Ordinance (MPBetreibV), DIN EN 15883 Parts 1 and 3 and the Robert Koch Institute (RKI) recommendation on "Requirements for hygiene in the reprocessing of medical devices" are fully met.



STAINLESS STEEL FURNITURE

Functional furniture

Our medical functional furniture with high quality materials and workmanship is characterised by the highest hygiene standards, extensive functionality and individual adaptability. The material stainless steel no. 1.4301 is not only resistant to disinfectants, but also guarantees a long service life compared to other materials.

SEALING DEVICES



ULTRASONIC BATHS



WATER TREATMENT



... and more. Please contact our sales department. We will find the right solution for you.

STAMP

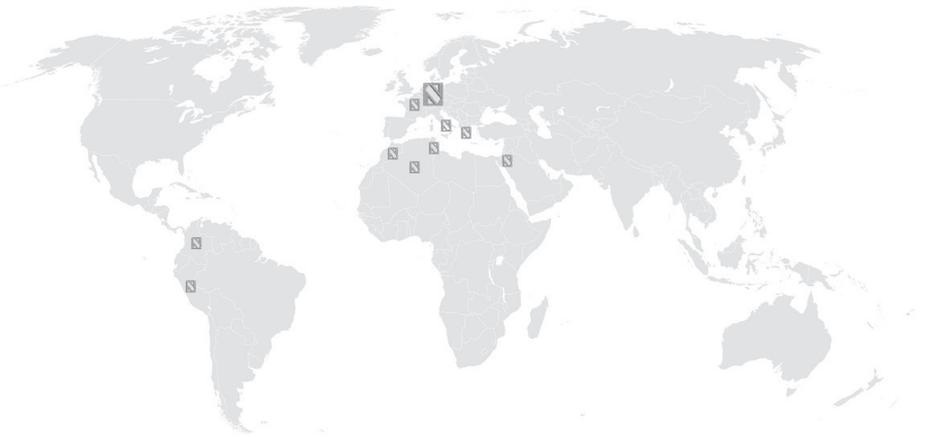
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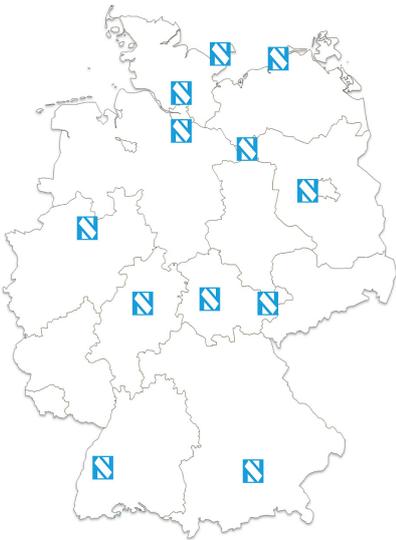


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International SCHLUMBOHM support centers



Germany service centers



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