MOBILE OPERATING TABLE

asso
life made simple
OPT SurgiSystems is an Italian brand and manufacturer of operating tables and OR accessories of the highest quality. OPT’s production and headquarters are located in Calliano (Trento), Italy.

For more than 90 years the company has improved the patient’s quality of life by manufacturing ideal electro-medical high-end equipment. The long experience in this field leads to the creation of medical devices designed for the global market and able to meet the needs of healthcare professionals all over the world and facilitate their work.

The company manufactures products, which confronts themselves with state-of-the-art global surgery. We satisfy the clinical needs with our technological, innovative devices designed with the highest reliability.

As a result OPT SurgiSystems is one of the leaders on the national and international markets and is constantly working on its development and perfection. Close collaboration with the surgical world and attention to each detail are essential parts of our final success.
Dedicated to you,
who are taking care of us.

www.opt-ita.com
Mobile operating table ASSO summarizes all the technology and know-how acquired by OPT in more than 90 years of history.

Following its tradition and its continuous technological development OPT has created a mobile operating table with high technology and powerful performances but at the same time easy to use and whose functions are easy to comprehend.

The operating table ASSO reaches even the most extreme positions with respect to the safety and comfort of both patient and user. It is a state-of-the-art product in terms of innovative and aesthetic criteria, rationality in every detail, safe use and versatility.

Three fundamental guidelines have been followed in the design of the table:

1. Care for the patient: ASSO ensures maximum comfort even in case of long lasting interventions thanks to anti-decubitus cushions and silent and smooth electrical movements, which improve the patient’s comfort and safety.

2. Care for OR operators: ASSO fulfills all the requirements of various surgical specialties. The patient positioning is precise and immediate thanks to the complete modularity of the table top and the unique fast locking/unlocking system of the table top sections. The table top is also able to recognize the sections that have been added. The innovative software solution allows the surgeon to work with a perfect “vision” of the surgical field.

3. Care for hospitals: The use of ASSO with universal table top allows to organize a better logistics in the multidisciplinary operating rooms. In addition, thanks to its modularity the table top can be easily used in any surgical discipline without the need of adding specialized tables.

ASSO makes life in an OR easier and safer for both staff and patients. It is complete with automatic support systems such as the automatic detection of the table top orientation and the anti-collision safety system to prevent collision with the floor. These features allows the user to make any required position safely. Furthermore, the innovative fix torque system enables 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.

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

ASSO has electrical movements of all its components and a sophisticated software that fully respects the safety of both user and patient. For instance, the table automatically modifies the movement speed if particular sections have been attached.

The table 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 360° radiolucency.

ASSO is designed with cutting-edge technological solutions that meet the needs of both surgeon and patient. To achieve the best performance also in terms of safety, ASSO offers the possibility to set different security protocols according to the specific requirements of the surgical operation. Moreover, ASSO is complete with the most innovative security systems that protect from any unexpected errors.
**Universality and flexibility in one table**

**Ergonomics**

ASSO is a state-of-the-art product in its category in terms of aesthetical and innovative criteria, rationality in each detail, safety and versatility. It is a universal table suitable for all surgical specialties including traumatology.

The table top has been designed to simplify the daily activities of the OR staff and to increase the patients’ safety and comfort in order to prevent injuries caused by decubitus. The base of the table is compact and has a small footprint in order to allow a better access to the operating area.

**Modularity**

ASSO has an entirely modular table top with a single central section to which numerous components (head and leg sections, elongation plates) can be added. ASSO allows to configure the table top attaching additional sections to both sides according to the surgical specialty. The table then automatically detects the configuration and does not require to reset with the remote control.

**MOBILITY**

**Precision of motion**

**Maneuverability**

ASSO operating table has a simple and practical maneuverability and is completely safe thanks to 4 swiveling castors. They allow an easy control of the table even in narrow spaces. The castors also have a special cover to protect them against accidental impacts and infiltration. A 5th mechanical wheel (optional) ensures to easily move the table in case of obese patients’ transportation.

**Stability**

ASSO has a system with electrical pins (controlled by wired or wireless remote control) that can lock the table in the required position and thus ensuring maximum stability in any surgical operation.

**Electrical 5th wheel**

The operating table ASSO can be supplied with a 5th electrical and retractable wheel. The 5th wheel allows the user to comfortably and safely move the table in case of long transfers or even in case of obese patients’ transportation. This motorized wheel can be activated by ASSO wired remote controls.
**Total control of the table in one hand**

OPT adds to its line of wireless and wired 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 table in all its functions.

Using these wireless and wired remote controls it is possible to make all electrical movements of the operating table ASSO (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 table.

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

- Setting and selection of safety protocols for obese patients
- Visualization of all electrical movements of the table and movement degrees
- Automatic detection of sections attached to the central module of the table top
- Indications/ settings of the tabletop orientation on the column
- Visualization of the charging status of both remote control and the batteries of the table
- Information on the status of the operating table and warning through descriptive alarm messages
- Visualization of information about the use of the table
- Configuration of customized parameters of the table

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.

ASSO 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 table ASSO through a simple and quick binding procedure. Every remote control can activate only one table at a time thus avoiding any interference with other operating tables.

In addition, ASSO remote controls have an exclusive button to memorize instantaneously a specific position of the table, which can be recalled by the user any time.

ASSO column has an integrated control panel which can also be used as an emergency control. It can activate all the column and the table top movements without the use of any wired or wireless remote controls.

ASSO can be controlled by a foot switch with three pedals that controls three electro-hydraulic movements: height variation, longitudinal tilt and lateral tilt of the table top.
To ensure an optimal exposure of the surgical site, ASSO offers the opportunity to reach the most extreme positions with respect to the safety and comfort of both patient and user.

ASSO has electro-hydraulic column movements and electro-mechanical table top movements, completely independent from one another.

**Electro-hydraulic movements:**
- Height variation (without cushions): 600-1,060 mm
- Trendelenburg / Reverse Trendelenburg: ± 35°
- Bilateral tilt: ± 27°

**Electro-mechanical movements:**
- Lower back section inclination: + 90°/- 50°
- Thorax flex: + 90°/- 50°
- Kidney flex: + 90°/- 50°
- Leg section indication: + 90°/- 90° (independently right or left or together)
- Longitudinal translation of the table top: 400 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)
- Self levelling - zero automatic position with simultaneous realignment of all movements, in order to speed the maneuver and especially to avoid trauma to patients.

**Manual movements:**
- Head section adjustment (removable): + 53°/- 53° (tiltable without adjustment at -90°)
- Upper back section: + 60°/- 90° (with tiltable section)
- Leg section spread: 180°

ASSO movements are extremely silent in order not to distract surgeons and OR staff during the intervention. Moreover, the electrical movements are extremely fluid and thus increasing the patient’s comfort and safety.
Tolerance +/- 2° on angular movements and +/- 3% on linear movements.
Anti-collision system
ASSO has a sophisticated anti-collision system of the table top that prevents from crashes against the floor.

Stability
A system with electrical pins (controlled by wired or wireless remote controls) can lock the table in the required position and thus ensuring maximum stability in any surgical operation.

Modularity and flexibility
The extreme modularity of ASSO 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 OR staff needs.

Attachment system
The innovative fix torque system allows to hook/unhook the sections of the operating table in a safe and rapid way and in a single movement without using additional clamps or locks.

Remote panel integrated to the column
An integrated remote panel, placed at the base of the table, allows to perform all electrical movements of both column and table top. In addition, there are luminous indicators of the battery charge status and of the correct data transmission.

Mobility
The maneuverability of ASSO is ensured by 4 swiveling castors that allow easy control of the table even in narrow spaces.

Central module of the table top
The central section of the table top is 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 components designed for table functioning including the power supply. Therefore, even in case of discharged batteries, there is no external power supply that could disturb the operators.

Base of minimal size
The base of ASSO ensures maximum stability and practicality. This avoids collisions with the surgeon, OR personnel and other devices (C-arms, etc.).

Stability
A system with electrical pins (controlled by wired or wireless remote controls) can lock the table in the required position and thus ensuring maximum stability in any surgical operation.

TECHNICAL FEATURES
Know-how acquired in more than 90 years of experience
The tradition of innovation

ASSO is made of stainless steel and noble materials of the highest quality.

The standard cushions of the operating table are made in soft, radiolucent, anti-static, anti-decubitus and ergonomically shaped material. Their thickness of 60 mm allows a comfortable patient positioning even during long lasting operating sessions. The total absence of stitching on the cushions makes their cleaning extremely easy.

As an alternative, it is possible to choose cushions in visco-elastic material with a thickness of 80/90 mm. This type of cushion is anti-decubitus, easily removable and of maximum comfort for the patient. All the cushions of the table top and of the sections are latex free.

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 360° radiolucency.

Unique attachment system of the table top sections

All of the sections of the table top ASSO 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.

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 simpler cleaning of the table. After the treatment, the surface is smooth, shiny and more resistant to scratches and bacterial agents.

CONSTRUCTIVE TECHNOLOGY

Main features

Radiolucency

Bariatric surgery (for obese patients)

The exceptional load capacity of ASSO is 453 kg (1000lb)*.

* With the operating table code 7712000/P
Thanks to special sensors, ASSO automatically detects the position of the head and leg sections (or 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.

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

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

ASSO 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 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.

ASSO 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).

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 and 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 table ASSO is fully compliant with the regulation 93/42/CEE, 2004/108/CE, 2006/95/EC, 2011/65/CE 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

SURGICAL POSITIONS

Technical drawing of ASSO with the different configurations of the operating table

- Laparoscopic surgery
- Thorax surgery in lateral decubitus
- Colon surgery
- Abdominal surgery

GENERAL 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

Hip surgery with traction device in carbon fibre

Knee arthroscopy

Femur surgery

Tibia surgery
Skull surgery in prone decubitus

Skull surgery in park bench position

Skull surgery in supine decubitus

Skull surgery in beach chair position

Spine surgery in prone decubitus

Column stabilization

Spine surgery in genupectural position

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