PTU GAMMA/1

FIXED PATIENT TRANSFER UNIT

Technology, Safety and Comfort for the health of patients

The fixed patient transfer unit “Gamma/1” has evolved with all the knowledge, expertise and know-how of OPT SurgiSystems gained in more than **90 years of experience** in the medical sector.

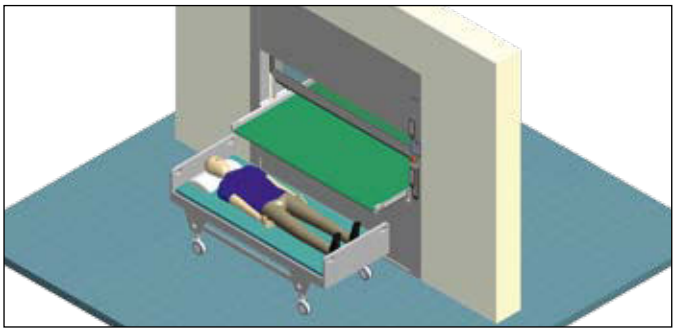
This brand new system allows to **transfer the patient** in the Operating Block before and after a procedure **in a safer, more comfortable and less traumatic way**.
In this way, the patient and the hospital personnel are prevented from manual lifting and it organizes the access to the Operating Block in a quick and professional way.

The hospital personnel is supported in this delicate operation and, at the same time, the patient can face with ease the tension deriving from a surgical procedure.

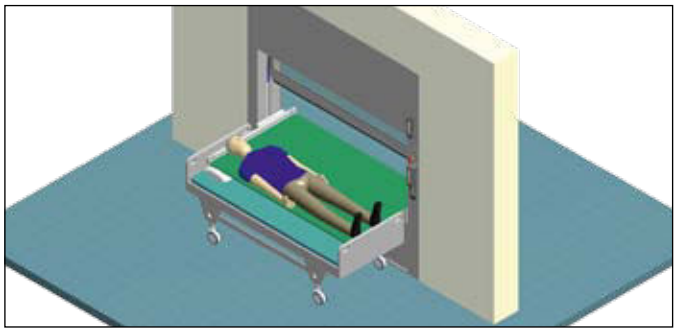
Moreover, the use of the patient transfer unit “Gamma/1”, particularly in its version “with window”, contributes to **maintaining the hygienic conditions of the operating room** by dividing the aseptic zone from the septic one.

TRANSFERRING SEQUENCE

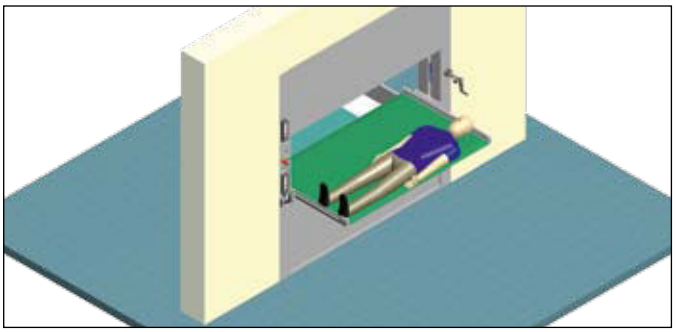
Transferring a patient from a stretcher to the operating table and vice versa is a daily operation in an Operating Block that can imply difficulties and problems for both patient and OR personnel. By using the patient transfer unit “Gamma /1” such operation can be done also by only one operator, in all safety and ease. The patient transfer unit “Gamma/1” allows transferring **the patient** both with **single movements and in a sequential way** with prearranged procedures.



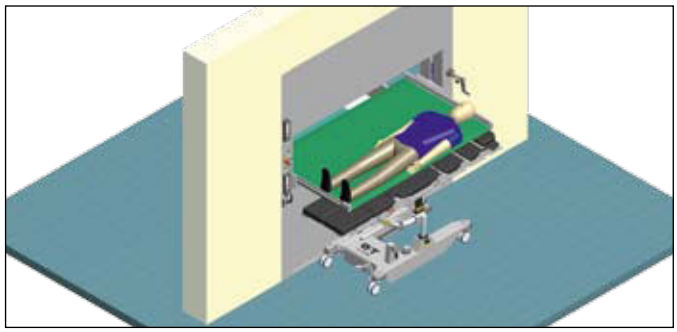
1. The stretcher with the patient is moved closer to the patient transfer unit Gamma/1, adjusting the height of the platform. The correct positioning is done by pressing the button” transfer top down“ and, depending on the PTU model, by the sensors that detect the stretcher.



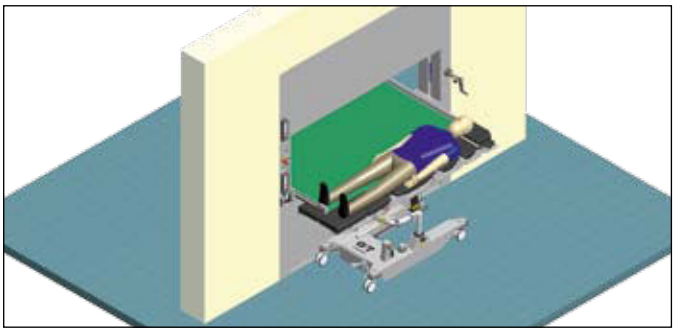
2. The patient is collected from the stretcher by the contemporaneous movements of belt rotation and transfer top translation. The table top is lifted up to the maximum height to allow the removal of the stretcher and at the same time the opening of the window (if present).



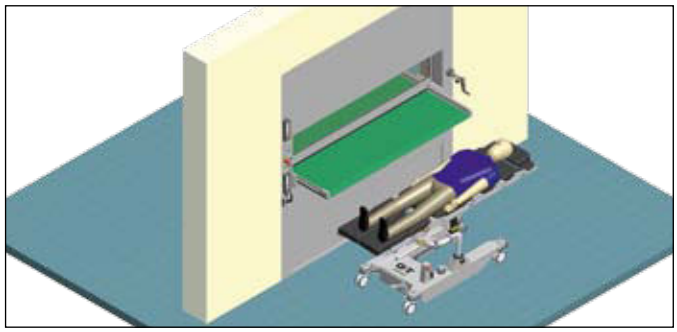
3. Table top transfer from the septic to the aseptic area. Collecting, lifting up and transferring the patient and closing the window can be done manually or sequentially. Such operations can be managed by only one operator.



4. The operating table is moved closer to the PTU, checking the height of the transfer top and the patient’s position. The correct positioning is done by means of the button “transfer top down” and, depending on the PTU model, by the sensors that detect the operating table.



5. The patient is carefully transferred onto the operating table by the contemporaneous movements of belt rotation and transfer top translation.



6. Table top is lifted up to the maximum height to allow the removal of the operating table with the patient on it and at the same time the window closure (if present). The operations of downloading, lifting up, and closing the window can be done manually or sequentially.

Similar operations are made for transferring the patient from the aseptic zone (Operating Block) to the septic zone.

SAFETY

Safety is a priority in drawing and manufacturing OPT products.

The attention is focused both on the **safety and ease of the patient** during the complicated passage from the bed to the operating table with drainage tubes, drip-feed, etc. (and vice versa) and on the **safety and ease of the operator in this complicated operation**. Times for transferring the patient are reduced and so is the patient's strain.

The operator can be helped by the patient transfer unit Gamma/1 in the different passages of loading and unloading the patient thanks to **state-of-the art safety and control systems** in order to avoid dangers in case of lack of concentration or wrong operations.

The companies, which has **EN ISO 9001** regulation, has used for years high quality material and respects strict drawing and production regulations, controls and inspects every single product before delivery to the end customer to ensure a perfect level of functionality and safety.

The patient transfer unit Gamma/1 is in accordance with 9**3/42/CEE, 2007/47/CE, 2004/108/CE, 2006/95/EC and 2011/65/CE** regulations and with the technical regulations for medical devices **EN 60601-1 and EN 60601-1-2**.

COMFORT

The patient transfer unit Gamma/1 has been conceived to offer the best comfort for the patient during pre- and post-operative transfers in the Operating Block.

We have focused our attention on this aspect, being aware of the patient's emotional state both before a procedure and the confusional state after it.

Therefore Gamma/1 ensures delicate, constant and linear movements both during the loading and the unloading of the patient with its conveniently calibrated speed in order to avoid sudden movements. All electro-mechanical movements are operated by the system through acceleration and deceleration ramps **to ensure the patient's comfort** during transfers.

Using the PTU avoids uncomfortable and potentially traumatic manual transfers from the operating table to the stretcher and vice versa.

Depending on the model, the PTU Gamma/1 can be completed with a heated table top to improve the patient's comfort.
The table top has all belevelled edges to avoid possible collision with the patient.

Ergonomics

The structure is smooth and without sharp edges and allows easy access in order to maintain or clean it. The transfer table has an excellent useful length (1880 mm) and at the same time an overall dimension that allows easy access to the borders of the bed.

Cleaning and maintenance

To clean the transfer belt of the table top quickly and safely it is possible to press the rotating button, thus cleaning easily also the hidden parts.

SIDE - A

TECHNICAL FEATURES

Used materials

The patient transfer unit Gamma/1 is composed of a single unit of **high quality steel with stainless surfaces** (with removable panels for maintenance operations). The patient transfer unit Gamma/1 is completely **latex free**.

Commands of the system

The patient transfer unit “Gamma/1” is moved by t**wo wired manual remote controls** (n. 1 remote control in the aseptic zone, while the other one is in the septic zone). Depending on the model, it can have **two more I.R. remote controls** (one for the aseptic zone and one for the septic zone).

Through the remote controls the PTU makes the following electro-mechanical movements:

- up/down movement of the PTU table top;
- PTU table top slide;
- rotation of the PTU transfer top belt;
- up/down movement of the separating window (if present).

For a simple and immediate use the buttons are serigraphed with the corresponding movements. By necessity or in case of danger releasing the button causes the immediate stop of the movement.

Emergency button

Mushroom-shaped that allows the operator to **completely block**, by necessity, **any electro-mechanical movement**.

Led for the operator

The patient transfer unit Gamma/1 has two leds, one for each side, which inform on the functionalities of the circuits of the patient transfer unit and inform (through light and acoustic signals) of possible damage of the PTU itself.

Speed control

Speed regulation of the table movement by pressing the corresponding button on the remote control, to reduce the transfer time of the patient.

Heated table top (optional)

The PTU can have a **heated table top** for a better patient's comfort.

Patient detecting system (for PTU with window)

Sensors to detect the patients on the borders (and/or obstacles of every kind) that prevent **the contact with the closing window** during the transfer. Once the obstacle has been detected, **sensors stop immediately the closing window** and make it re- open to its maximum height.

Manual emergency movement (optional)

Emergency system that in case of problems with motors and/or absence of electricity allows **the manual slide of the transfer table top**.

PTU Gamma/1 sensor kit – septic side (optional)

Sensor kit that **detect the presence of the stretcher** and stop the down movement of the table top at the correct height.

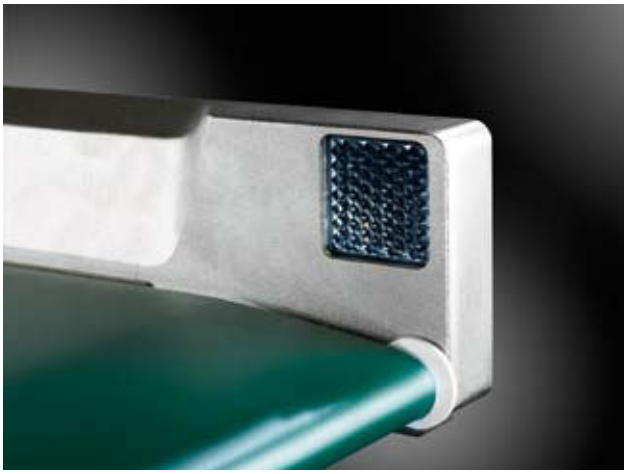
PTU Gamma/1 sensor kit – aseptic side (optional)

Sensor kit that **detect the presence of the operating table** and stop the down movement of the table top at the correct height.

Anticollision protection

A pair of photocells on the side of the table top that **detect the presence of the patient** and, blocking the movement of the belt, create a protection barrier during the transfer.

Manual emergency movement



Anticollision protection

The patient transfer unit “Gamma/1” without window

VERSION “WITHOUT WINDOW” AND “WITH WINDOW”

The patient transfer unit “Gamma/1” is available in **two versions “without window”** and **“with window”.**

The closing window of the PTU version “with window” allows the patient transfer unit to **divide the aseptic zone** (Operating Block) **from the septic zone**, before and after the patient’s transfer with clear advantages from the hygienic point of view.

TECHNICAL DATA AND DIMENSIONS

Patient transfer unit with window

- Load transfer table top height adjustable: 620 – 1.030 (mm)
- Useful length of the table top: 1.880 mm.
- overall dimensions of the table top: 1.925 mm
- Passage light of the load table top: 2003 mm.
- Supply voltage: AC 230 V – 50 Hz mono-phase
- Nominal power input: 2.000 VA
- Protection against electric shock: Class I
- Protection against direct and indirect contacts: Type B equipment
- Degree of protection against harmful ingress of water: IPX4
- Load capacity: 180 kg patient's weight
- Weight: Kg. 695

Patient transfer unit without window

- Load transfer table top electrically adjustable: 620 – 1.020 (mm)
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- Nominal power input: 2.000 VA
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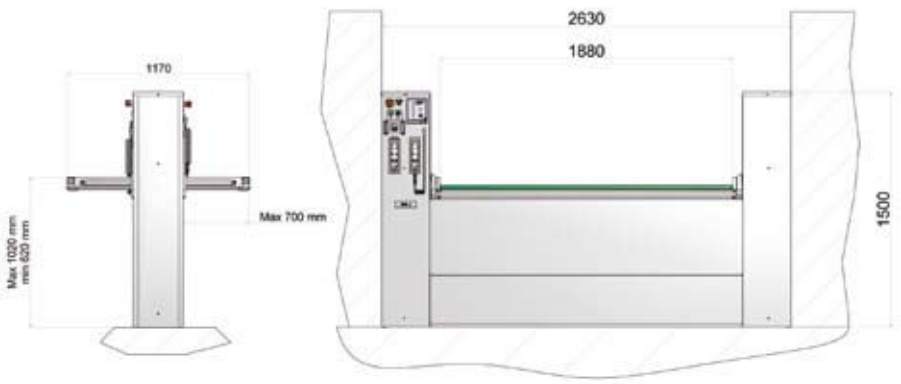
- Protection against direct and indirect contacts: Type B equipment
- Degree of protection against harmful ingress of water: IPX4
- Load capacity: 180 kg patient's weight
- Weight: Kg. 630



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