

Ceiling support units



Independant®

Flexible positioning and optimum utilization of space in the operating room and intensive care unit



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The idea of using swivelling ceiling mounts to have equipment and medical gases readily available for patient treatment has long proved successful. Flexible positioning, optimum utilization of space in the operating room and intensive care unit as well as the requirements towards hygiene and safety speak in favour of this solution. A clear assignment of devices, no more cables or supply lines to stumble over and, above all, the unrestricted flexibility of all components advocate this concept.

KLS Martin ceiling mounts are used in surgery, endoscopy, anaesthesia, intensive care or as monitor supports. We offer customized solutions for all load classes with bearing loads ranging from 30 kg to almost 1,000 kg.

Independant® ceiling mounts

The new generation of Independant® ceiling mounts features a completely novel service head. The modular structure of power supply and gas modules, trays, drawers and infusion rails amounts to greater clarity and user-friendliness in the operating room or intensive care unit.

The entire service head consists of the following basic components.

The **base** is the supporting basic element and is available in five different lengths, as required.

Gas, power supply or data modules can be installed on the base; the fittings can either be positioned forwards or backwards, for greater clarity and ease of use. We ensured that all modules feature a high level of integration of gas outlets, power outlets and manometers. Furthermore, a great emphasis was placed on the space and weight-saving arrangement of all components. The resultant reduction in volume amounts to considerably more freedom of movement at the workplace. All modules can either be installed on the left or the right of the base. Individual requirements are thus taken into consideration as early as at the planning stage.

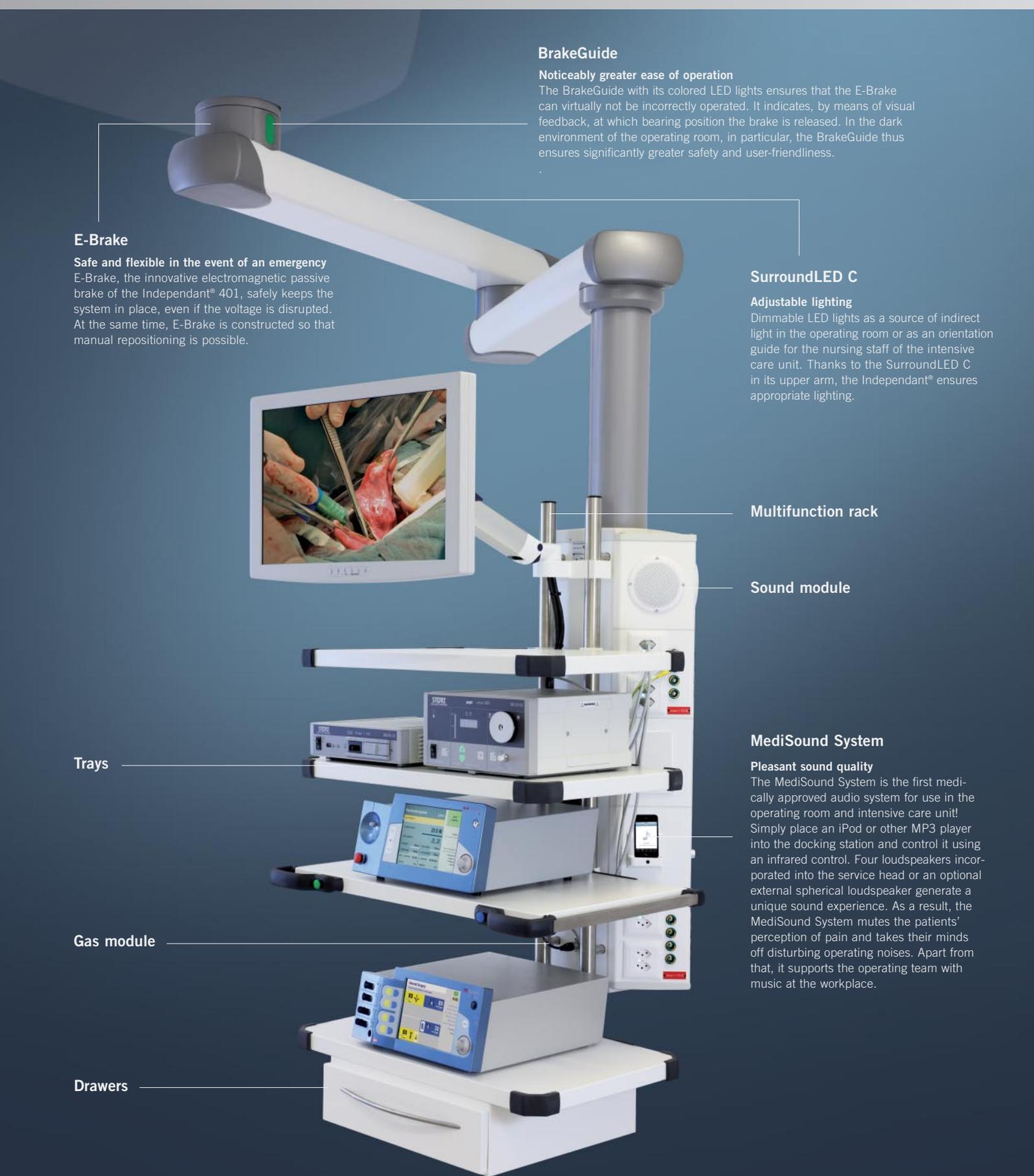
The **multifunction rack**, which is available in three different lengths, allows for the installation of different fittings. Trays and drawers can be smoothly adjusted along the vertical support and can be

seamlessly adapted to the dimensions of the device into which they are to be incorporated. This optimizes the organization of space and guarantees ergonomic operation. The multi-function racks can even be fitted with trays on the front and back, ensuring the optimum utilization of space and a balanced distribution of the bearing load.

Trays, drawers, flat screen monitor supports and infusion modules are adaptable.

Trays are available in different designs and widths, with buttons for arm control and drawers underneath. The handles are made of soft and hard plastic, thus providing integrated impact protection. Trays and drawers can be ergonomically installed back or front, depending on their intended use and the space available. Integrated storage compartments facilitate cable management, keeping excess cable lengths out of the way. A rubber lip seals the storage compartments externally, ensuring that hygiene requirements are met.

The **infusion modules** are available in several designs and can be fitted with hooks for up to four infusion bottles. They can easily be fitted or retrofitted to the multifunction rack.



BrakeGuide

Noticeably greater ease of operation

The BrakeGuide with its colored LED lights ensures that the E-Brake can virtually not be incorrectly operated. It indicates, by means of visual feedback, at which bearing position the brake is released. In the dark environment of the operating room, in particular, the BrakeGuide thus ensures significantly greater safety and user-friendliness.

E-Brake

Safe and flexible in the event of an emergency

E-Brake, the innovative electromagnetic passive brake of the Independent® 401, safely keeps the system in place, even if the voltage is disrupted. At the same time, E-Brake is constructed so that manual repositioning is possible.

SurroundLED C

Adjustable lighting

Dimmable LED lights as a source of indirect light in the operating room or as an orientation guide for the nursing staff of the intensive care unit. Thanks to the SurroundLED C in its upper arm, the Independent® ensures appropriate lighting.

Multifunction rack

Sound module

MediSound System

Pleasant sound quality

The MediSound System is the first medically approved audio system for use in the operating room and intensive care unit! Simply place an iPod or other MP3 player into the docking station and control it using an infrared control. Four loudspeakers incorporated into the service head or an optional external spherical loudspeaker generate a unique sound experience. As a result, the MediSound System mutes the patients' perception of pain and takes their minds off disturbing operating noises. Apart from that, it supports the operating team with music at the workplace.

Trays

Gas module

Drawers

Independent® ceiling mounts

A range of useful extensions completes the range of opportunities offered by the service head.



SurroundLED F – Adjustable lighting

Dimmable LED lights as a source of indirect light in the operating room or as an orientation guide for the nursing staff of the intensive care unit. Thanks to the SurroundLED F in the base of the service head, the Independent® ensures pleasant lighting.

Flat screen monitor support

The TFT support is installed on the multifunction rack. Height-adjustable gas spring arms and a bracket that can be fixed at the height required ensure perfect integration into your workplace configuration.

Keyboard support and writing surface

The swivel-mounted writing surface takes account of the ergonomic requirements towards the workplace in the operating room and completes the range of options.

SwingoM6 medical cart

Frequently, medical carts with medical devices are required near the operating area, to complement the options offered by ceiling mounts.

Thanks to a patented locking mechanism, the SwingoM6 medical cart can easily be connected to the multifunction rack of the service head. Medical carts of different designs can thus dock to the supply unit and be disconnected via the handle after use.



Independant®

The suspension systems

With the exception of the Independant® 30 and Independant® 40 variants, the new service head can be combined with the following suspension systems:

Version	Description	Height adjustable	Load-bearing capacity
Independant® 30	Small monitor or surgical suspension system for wall or ceiling mounting in combination with a marLux® operating light. Allows for an additional load of up to 25 kg (e.g. one monitor or one HF unit). Alternatively, the pendant can be fitted with a power supply box.	yes	40 kg
Independant® 40	Small surgical suspension system for ceiling mounting in combination with a marLED® or marLux® operating light. It is flexibly positionable, enabling the optimum utilization of space in the operating room. Allows for an additional load of up to 30 kg (e.g. one HF unit and a surgiCam® control device).	yes	40 kg
Independant® 100	Swivel ceiling mount, either with height-adjustable spring arm or with motor arm offering a load-bearing capacity of 120 kg. Safe positioning guaranteed, thanks to pneumatic brakes.	yes	120 kg
Independant® 200	Motorized swivel ceiling mount for bearing loads of up to 200 kg. Large cable outlets for medical gases, electric and data cables.	yes	200 kg
Independant® 300	Universal heavy-duty suspension system for surgery, endoscopy, anaesthesia and intensive care. Optionally available with single or tandem extension arm offering a large swivelling range. Pneumatic brakes ensure high position .	no	580 kg
Independant® 401	Conspicuous not only due to its user-friendly design without external screw connections. The suspension system is extremely versatile: The non-wearing electromagnetic braking system is color-coded and optionally available with LED lights that provide visual feedback on the bearing position at which the brake is released. Large openings and outlets enable the smooth and rapid installation of the ceiling mounted supply unit.	no	640 kg
Independant® 500	Heavy-duty suspension system that allows for a very high additional load of almost 1,000 kg. The suspension system is in particular utilized for the lifting of anaesthesia machines.	no	964 kg

Load-bearing capacity: maximum load-bearing capacity of the arm system
Additional load: additional weight that can be loaded onto the service head

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