



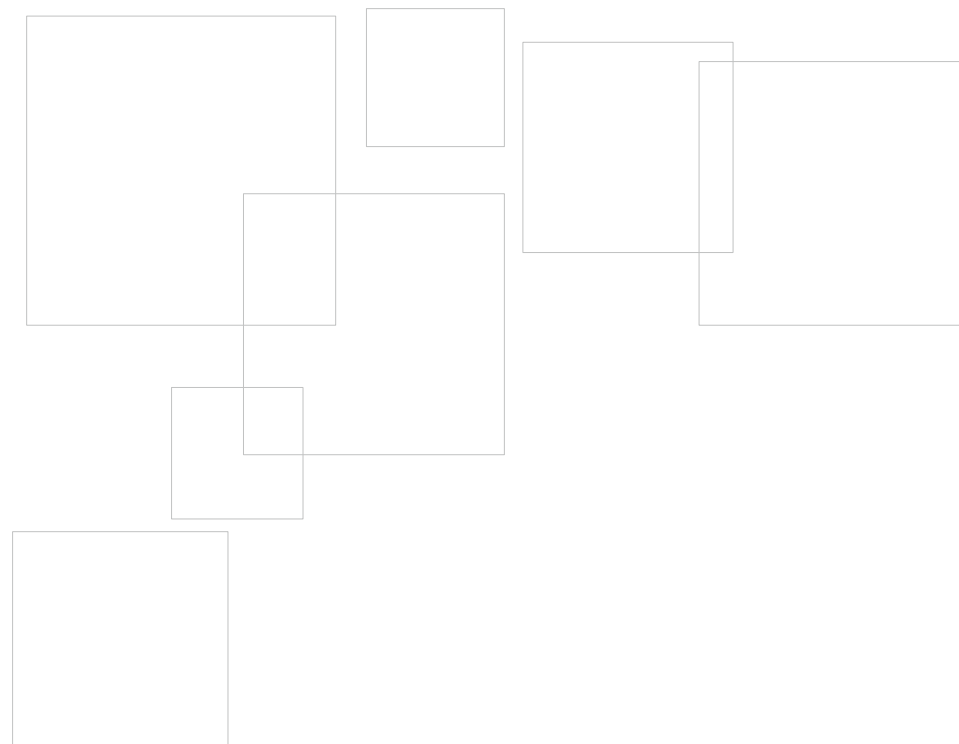
OPERATING THEATRE LISSA

2008
CEILING PENDANTS

2014
OPERATING LAMPS

2015
OPERATING TABLES





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INMED TRADITION & FUTURE

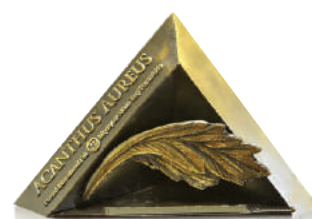
INMED-KARCZEWSKY is a result of over 30 years of experience, tradition and innovative attitude towards medical supply industry. The company was founded in 1980 s when some of us worked for former ZTM factory in Wrocław. The present company was founded in 1995 as Inmed and further on in December 2005, turned into Inmed-Karczewsky to point the label solidity, reliability and experience of Krystyna and Edward Karczewski. Since that our medical supply products meet the requirements of so called the new attitude directive and all products manufactured by the company meet the standards of ISO 9001 and ISO 13485 integrated Quality Management Systems (QMS). Nowadays we are Inmed-Karczewsky LLC LLP and our staff is over 70 best specialists in the field of medical supply products design and manufacture, managing the most sophisticated and challenging medical projects. We are granted the status of leaders in manufacturing medical gas piping systems in Poland- the dominating industry in our manufacture. For roughly 15 years we have been refining medical supply units including bed head units, pendants and ceiling mounted beams. So far the number of medical supply units already manufactured by us has run into several dozen thousands. It has allowed us to gain vast and inestimable experience. Thus we feel privileged to present a catalog of our LISSA family products which we are particularly proud of. The basic idea for the implementation of this new variety of bed head units was to release completely new label. The question was how to implement family values perceived by us as the core and essence of life and business while releasing a new bed head unit. We quickly figured out the new variety of bed head units should be derived from MERY - our first and classical product. Besides, what seems particularly crucial MERY label is derived from Mery – the name of the granddaughter of Krystyna and Edward. Other families – LUNA, CARO and VEGA do not come from other grandchildren names, however are closely related to other values, equally important for us. We figured out that blending tradition and modern lifting of the label would directly result in statistically higher label recognition and expansion as well as support the promotion of releasing new bed head units.

INMED-KARCZEWSKY team

nomination



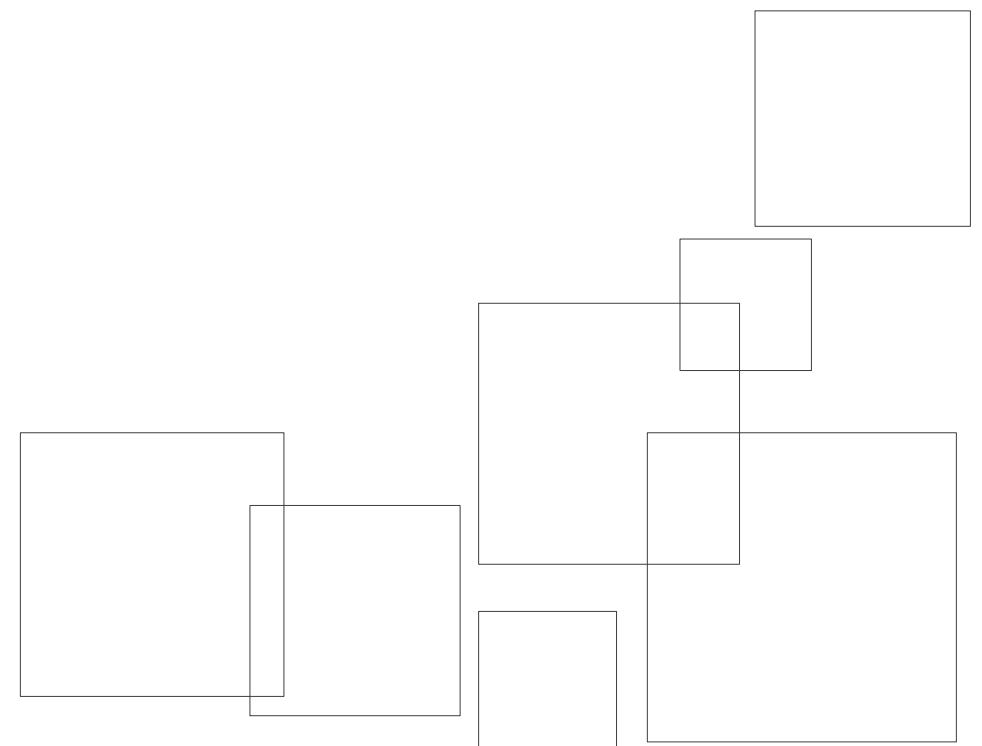
finalist



medical ceiling pendant

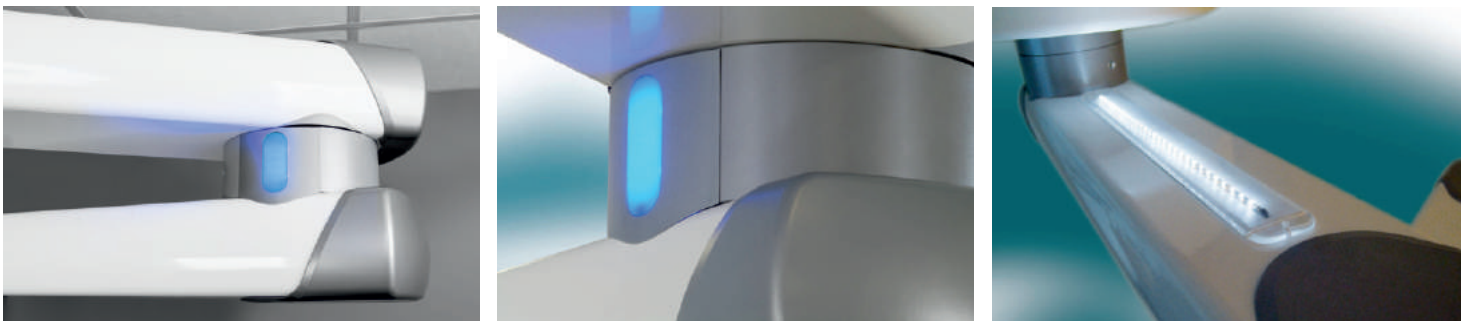
LISSA

classic, heavy, heavy-lift



medical ceiling supply units

We offer the wide family of modern LISSA ceiling units, intended especially for use in operating theatres, ICUs, NICUs. Longer arms enable pendants configuration and use in hybrid operating theatres with 160cm + 100cm (2,6ml) total extension between pivot axles and load capacity exceeding 200kg. The innovative design of the bearings facilitates movement of double swivel arms and even extremely high loads capacities.





technical data

- 60, 80, 100, 120cm arms; 140, 160cm extended arms and their combinations,
- lifting arms with up to 250kg capacity,
- lifting range to 700mm in 15 seconds,
- maximum angular rotation up to 350 degrees with possibility of additional brakes options,
- coloured 'brake released' LED indication,
- bearings cross section exceeding 100cm2,
- bearings with electromagnetic or pneumatic brakes,
- heads of different cross-sections, e.g. 26x27cm hexagonal, heights from 20 to 200 cm,
- shelves with load capacities up to 80kg,
- gas outlets – customized according to users specifications (e.g. AGA, DIN),
- anesthetic gas scavenging system (AGSS),
- electrical sockets – 45x45 add on or faced,
- sockets with phase signalization (optionally), different colors available,
- equipotential bonding pins,
- provisions for teletechnical installations (RJ45, RJ12 etc.) and nurse call system,
- IIb class medical device, CE1011 Declaration of Conformity.

| Length (cm) | LISSA _{classic} | LISSA _{heavy} | LISSA _{heavy-lift} |
|-------------|--------------------------|-------------------------|-----------------------------|
| | Load capacity max. (kg) | Load capacity max. (kg) | Load capacity max. (kg) |
| 60 | 640kg | 1000kg | — |
| 80 | 470kg | 820kg | — |
| 100 | 370kg | 650kg | 250kg |
| 120 | 300kg | 540kg | — |
| 60+60 | 300kg | * | — |
| 60+80 | 260kg | * | — |
| 80+80 | 220kg | * | — |
| 60+100 | 220kg | * | 250kg |
| 80+100 | 190kg | * | 250kg |
| 100+100 | 170kg | * | 250kg |
| 120+100 | 150kg | * | 250kg |
| 120+120 | 130kg | * | 250kg |
| 140+100 | — | 250kg | 250kg |
| 160+100 | — | 210kg | * |

* different load capacities available

arms and consoles

LISSA arms in a few versions are available. This enables pendants configuration depending on user's needs and space in the room. Detailed analysis of medical technology and equipment together with a very wide range of available designs gives us unlimited possibilities of customizing our pendants to particular projects.

The pendants can be equipped with a broad range of typical accessories as e.g. shelves, drawers, hangers, medical rails, wire holders, monitors arms, examination lights, manometers, alarm panels for medical gases, sockets with voltage indicators (for one socket or entire circuit) and many others elements facilitating professional patient service, e.g. communication light in the arm or in the head or sound system with iPod docking station.

LISSA heads are made of anodized or powder coated aluminium profiles in any RAL colours and can be equipped with a broad range of suspended accessories. A great number of heads configuration possibilities is unquestionable advantage (the accessories can be mounted in vertical ducts /onto inside guide rails/, onto load-bearing outside guide rails and onto 10x25mm standard rails, e.g. on shelves or main body). We offer the full range of shelves, drawers, lamps, jibs etc., enabling configuration of every medical worksite.



Single swivel multimovement pendant



Double swivel multimovement pendant

LISSA family

LISSA family means ideal ranges, capacities and additional functions to fit in every medical room. LISSAclassic is standard unit for the majority of users at minimum cost comparing to its highest quality. Innovative bearings solutions enable high load capacities while reducing movement force of suspended equipment at the same time. LISSAheavy type is designed for higher load capacities and with up to 260cm total arms extension.

Operating theatres require not only swivel movement of pendants, but also lifting and lowering. LISSAheavy-lift arms provide this function (load capacities up to 250 kg). Two types of lift drive are possible: electric drive ('soft starting' version is optional) or spring drive. Most of LISSA arms are available with electromagnetic, pneumatic or electro-pneumatic brakes. Light arms for monitors, accessories or infusion pumps can also be added and mounted on the same axis or separately.

advanced design

We specialize in professional design of medical units and devices for operating theatres. We create the highest quality simulations and visualizations of medical equipment we install later on.

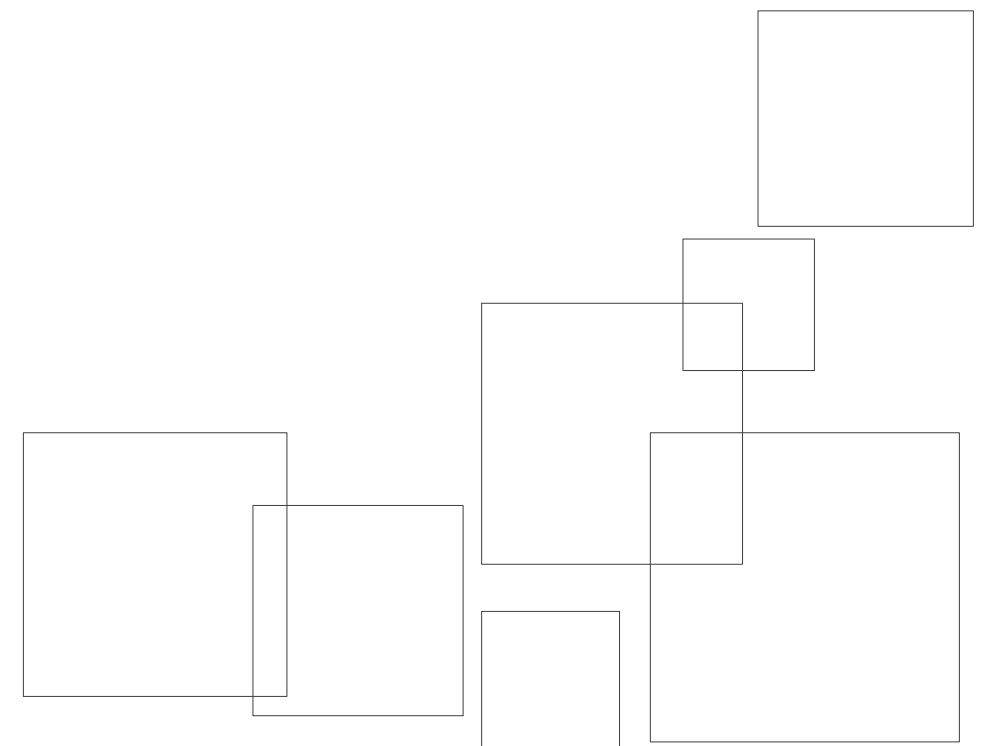




surgical lamp

LISSAled

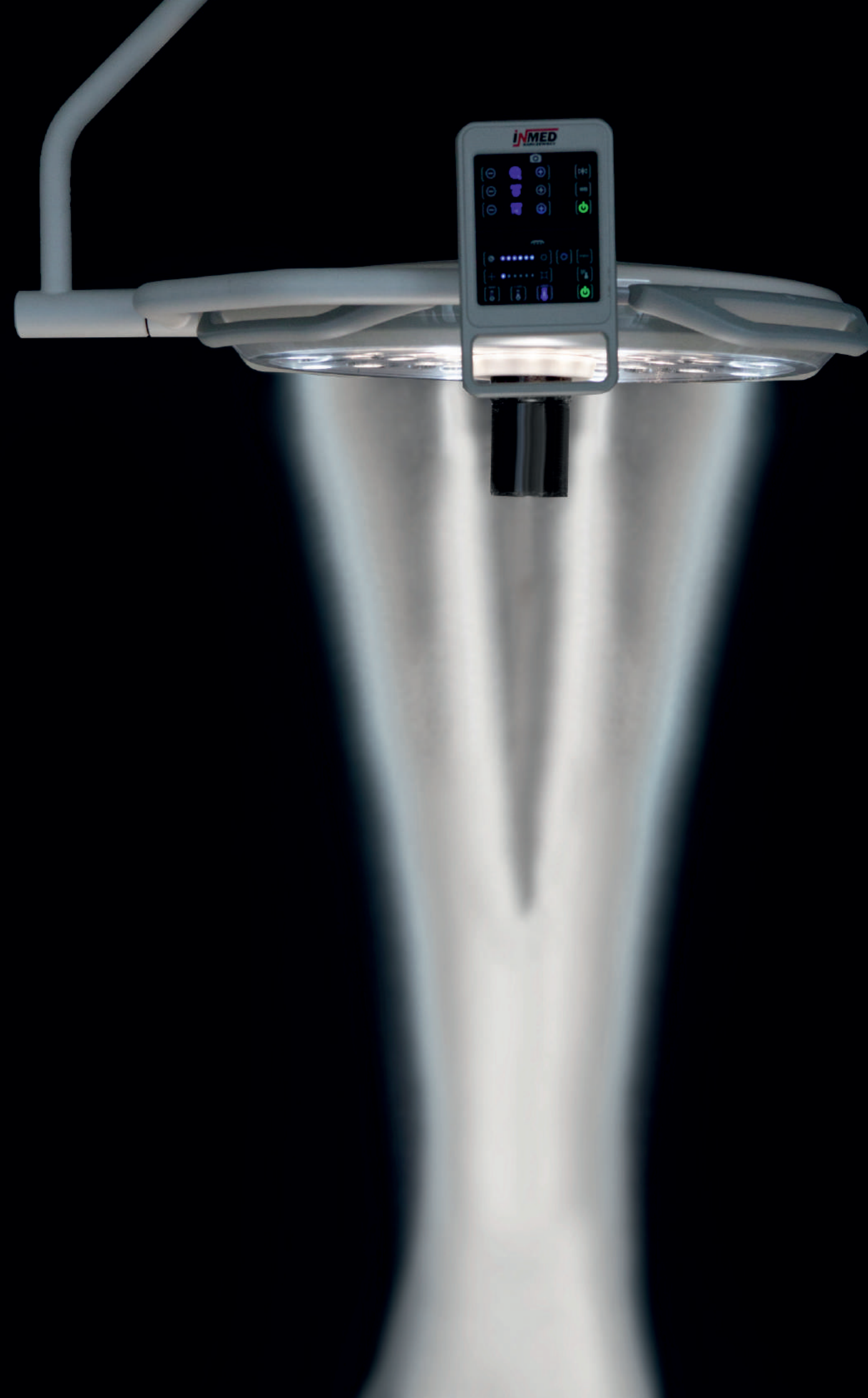
120, 160, 160premium





surgical lamps

LISSAled meet expectations and demands of ergonomic and comfortable surgeon work. This modern designed LEDs lamp of the latest materials and very high technical parameters can be offered in two versions – with 120,000LUX and 160,000LUX intensity. LISSAled is equipped with three controllers: quick controller on central grip, center sub-handle controller and multifunctional intuitive one-touch control panel. All controllers are synchronized. Besides, this very modern product offers the highest levels of CRI, Ra and R9 and a few steps of selectable color temperature together with a high level shadow-free illumination possibilities. We applied iLEDsens to maximize the shadow-free illumination possibilities. The iLEDsens detects the obstacle in light rays, increases or decreases the light intensity of particular LED sections automatically. LISSAled head is made of ultra-lightweight materials. Can be optionally equipped with HD Camera fitted onto central grip. LISSAled can be offered as single dome or dual dome, e.g. 120,000LUX + 160,000LUX, mounted to ceiling, wall or as a mobile version.







sterility and hygienic operation

LISSAled adopt central detachable and autoclavable hand grip with quick controller. It is synchronized with touch sensor control panel that is located on round rail and can be also used to control position of the lamp. The rails can be made of antimicrobial copper or ABS.



technical specification

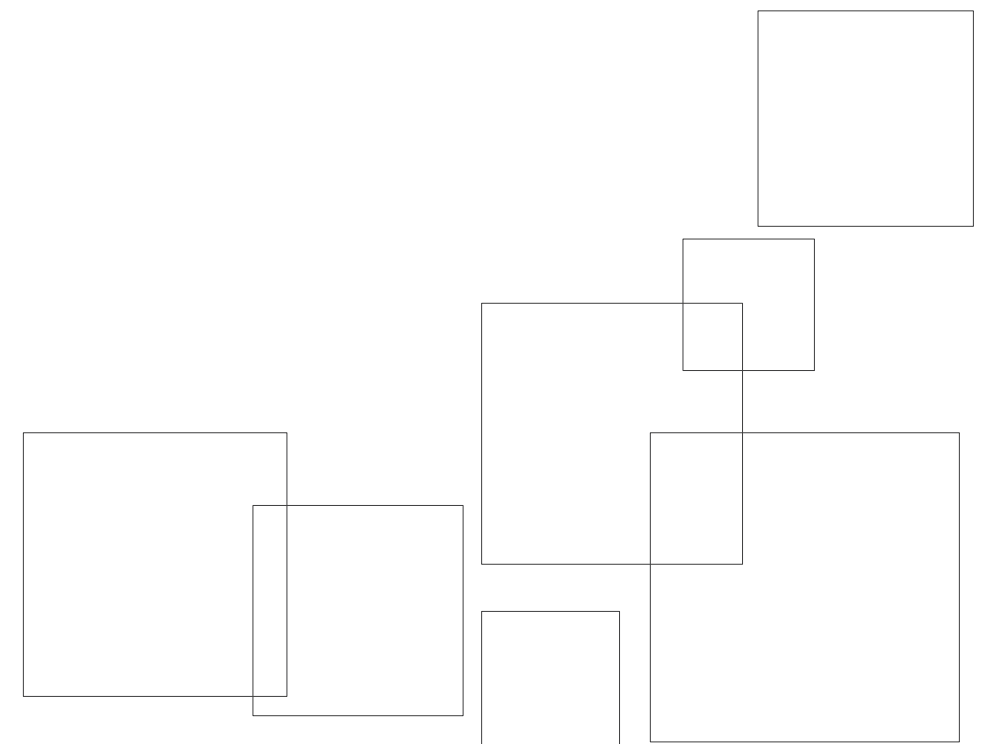
| Model No. | | LISSAled 120 | LISSAled 160 | LISSAled-160 premium |
|---|---------------|---|---|---|
| Number of LED(EA) | | | | |
| Head Size(cm) | | 50 cm | 60 cm | 67 cm |
| Illumination EC at 1m working distance | Max. (Lux) | | | |
| | Min. (Lux) | | | |
| ENDO Mode(Lux) | | YES | YES | YES |
| Increase of temperature near surgeon's head | | < 1 °C | < 1 °C | <1 °C |
| Color Rendering Index | Ra | 95 | 95 | 95 |
| | R9 | 90 | 90 | 90 |
| Color Temperature | | 4300 K (optionally 3,800/4,300/4,800) | 4300 K (optionally 3,800/4,300/4,800) | 3,800/4,300/4,800 |
| Focus Field Size | Max. (cm) | Max. 30 cm | Max. 30 cm | Max. 30 cm |
| | Min. (cm) | Min. 20 cm | Min. 20 cm | Min. 20 cm |
| Depth of Illumination | Ec 60% | 65 | 85 | 85 |
| | Ec 20% | 125 | 150 | 150 |
| Dilution Effect | With Tube | 100% | 100% | 100% |
| | 1 mask | 50% | 55% | 75% |
| | 2 mask | 48% | 52% | 60% |
| | 1 mask + tube | 50% | 50% | 70% |
| | 2 mask + tube | 48% | 48% | 56% |
| Smart Sensor(EA) | | No | No 4 SENSORS | 4 SENSORS |
| Power Consumption(W) | | ≤85 | ≤125 | ≤125 |
| Life Span(hours) | | 50 000 | 50 000 | 50 000 |
| | | 2 Mega Pixel Camera (Internal & External) | 2 Mega Pixel Camera (Internal & External) | 2 Mega Pixel Camera (Internal & External) |
| | | Additional Wall Control Panel | Additional Wall Control Panel | Additional Wall Control Panel |
| | | Additional Monitor Arm | Additional Monitor Arm | Additional Monitor Arm |
| Assembly Options | | Single/Dual/ Triple Ceiling / Wall / Mobile versions | Single/Dual/ Triple Ceiling / Wall / Mobile versions | Single/Dual/ Triple Ceiling / Wall / Mobile versions |



operation tables

LISSAot

1000, 2000, 3000





LISSAot operating tables

We offer three mobile operating tables: LISSAot 1000, 2000, 3000 with different functionality, technical parameters and accessories. LISSAot are multi-purpose, with hydraulic and electromotive height adjustment options, the most resistant upholstery and made of the finest materials, e.g. outside frames and side rails of aluminium or stainless steel.

Different kinds of accessories can be mounted onto side rails of each table and any element being touched can be made of antimicrobial Cu+ copper as an option. We offer the full range of surgical and orthopaedic appliances to LISSAot tables as well as guards, supports, holders, straps etc.



LISSAot 1000 operating table

This versatile and economical operating table is designed for various fields of applications and types of examinations as well as in outpatient departments.

Features

- five-piece tabletop
- 40 mm thick upholstery; electrically conductive, biocompatible cover, antistatic according to ISO 2882, available in black only
- radiolucent table surface
- table frame made of aluminium and stainless steel, powder coated in grey aluminium (RAL 9007), the column housing made of stainless steel
- stainless steel mobile base, with the large smooth-running and electrically conductive double castors (\varnothing 125 mm) ensuring a high stability; two double castors located underneath the backrest lockable with a foot pedal
- maintenance-free hydraulic height adjustment (770 – 1070 mm) done with a foot pump; through this type of construction, LISSAot 1000 remains independent of any power source
- straight, split, removable, vertically and laterally adjustable leg plates
- continuous back section adjustment and Trendelenburg / reverse Trendelenburg positioning gas spring assisted and easy to operate from head end of table
- lateral adjustment (20°) done using smooth crank mechanism, from underneath seat section
- laterally shifted or completely removed headrest

- width of tabletop without standard side rails – 540 mm, with standard side rails – 590 mm

Adjustment ranges

- headrest $\pm 45^\circ$
- backrest $+75^\circ/-45^\circ$
- Trendelenburg 30°
- reverse Trendelenburg 30°
- lateral tilting (both sides) 20°
- leg sections (vertical) $+20^\circ/-90^\circ$
- leg sections (lateral spread) $0-90^\circ$
- height 770-1070 mm

Accessories

The following accessories can be mounted onto standard side rails:

- arm support
- leg holders
- handcuffs
- instrument table
- body strap
- anesthesia pole
- shoulder/side supports
- side support
- arm/hand surgery table
- side guard
- mounting clamps (dual kit)
- 111 leg rests (dual kit)





LISSAot 2000 operating table

This economic and multi-function table designed for operating rooms adopts hydraulic and electromotive height adjustment. Hydraulic adjustment is done with centrally located foot pump while electric one – with hand or foot (option) switch. Drive specifications: 230V, 50/60Hz, 0,8A, IP30, v=9mm/s, 3000N.

Features

- lifting column made of anodized light alloy
- manually adjustable upholstered parts; through such type of construction, independent of power source, LISSAot 2000 is available at a very competitive priceranges
- removable upholstered segments (thickness 65 mm) made of soft polyurethane foam and covered with black, electrically conductive synthetic leather (cotton/polyester mix and 100% PVC compound coating)
- headrest continuously adjustable (positive and negative) and secured with clamping rod locking mechanism
- back, seat and leg section adjustments assisted by gas pressure springs; leg rests can be individually folded down by 90°
- standard side rails on outside frame of backrest, seat and leg sections allow use of various accessories, e.g. anesthesia pole, instrument table, side and shoulder supports, arm supports etc.

Accessories

- paper roll holder (retrofitting is not possible)
- central locking castor system with Ø 50 mm castors (retrofitting is not possible)

- arm support
- leg holders
- handcuffs
- instrument table
- body strap
- anesthesia pole
- shoulder/side supports
- side support
- arm/hand surgery table
- side guard
- mounting clamps (dual kit)
- leg rests (dual kit)



LISSAot 2000 is designed for various fields of applications and types of examinations and can be equipped with different components accordingly.

Optional equipment

- plastic-coated steel frame and plastic base cover
- glass bead blasted stainless steel frame and stainless steel base cover
- compartment for X-ray tape, approx. 435x305 mm, under seat section
- stainless steel tray, approx. 250x190x45 mm (retrofitting is not possible)
- upholstered pads, thickness 40 mm, antistatic according to ISO 2882; seamless upper surfaces; hooks and loops fasteners located on undersides to attach pads to 15 mm thick radiolucent support plates
- removable, split and vertically/laterally adjustable leg plates instead of standard leg sections which can only be dropped down 90° (vertical adjustment: 0°/-90°, lateral adjustment/spread: 0°/90°)
- headrest adjustable by gas pressure spring instead of with clamping rod locking mechanism





LISSAot 3000 operating table

This multi-function table well suited for use in a variety of medical fields adopts electromotive adjustment options for optimal patient positioning and handling by operator.

Features

- LISSAot 3000: height and seat section adjustments controlled by two separate electric motors; no lateral tilting on this model
- LISSAot 3001: three separate electric motors for height, seat and lateral tilting adjustment
- maintenance-free, spill-proof and extremely quiet motors controlled by pneumatic foot switch (or hand switch upon request at time of ordering)
- removable upholstered segments (thickness 65 mm) covered with black, electrically conductive synthetic leather (cotton/polyester mix and 100% PVC compound coating)
- standard side rails (25x10 mm) pre-mounted on outside of frame
- continuous adjustments of backrest and leg sections assisted by gas pressure spring; leg sections can be adjusted individually as needed
- continuously adjustable headrest (positive and negative), secured with clamping rod locking mechanism
- high stability ensured by wide base of frame; base is supplied as standard with levelling screws to compensate for uneven floor (mobile version with central locking system is optionally available)

- standard side rails on outside frame of backrest, seat and leg sections allowing use of various accessories such as anesthesia pole, instrument table, side and shoulder supports, arm supports, etc.

Drive specifications

- height adjustment: 230V, 50/60Hz, 3,7A, 850W, IP55, $v=14\text{mm/s}$, 7000N
- seat adjustment: 230V, 50/60Hz, 3,7A, 850W, IP55, $v=14\text{mm/s}$, 7000N
- lateral tilting: 230V, 50/60Hz, 1,8A, 360W, IP55, $v=7\text{mm/s}$, 10000N

Adjustment ranges

- backrest $+45^{\circ}/-23^{\circ}$
- Trendelenburg $+23^{\circ}$
- reverse Trendelenburg $+23^{\circ}$
- seat section $+35^{\circ}/-23^{\circ}$
- headrest $+20^{\circ}/-30^{\circ}$
- leg sections $0^{\circ}/-90^{\circ}$
- lateral tilting (both sides) $+20^{\circ}$
- height 775-975 mm



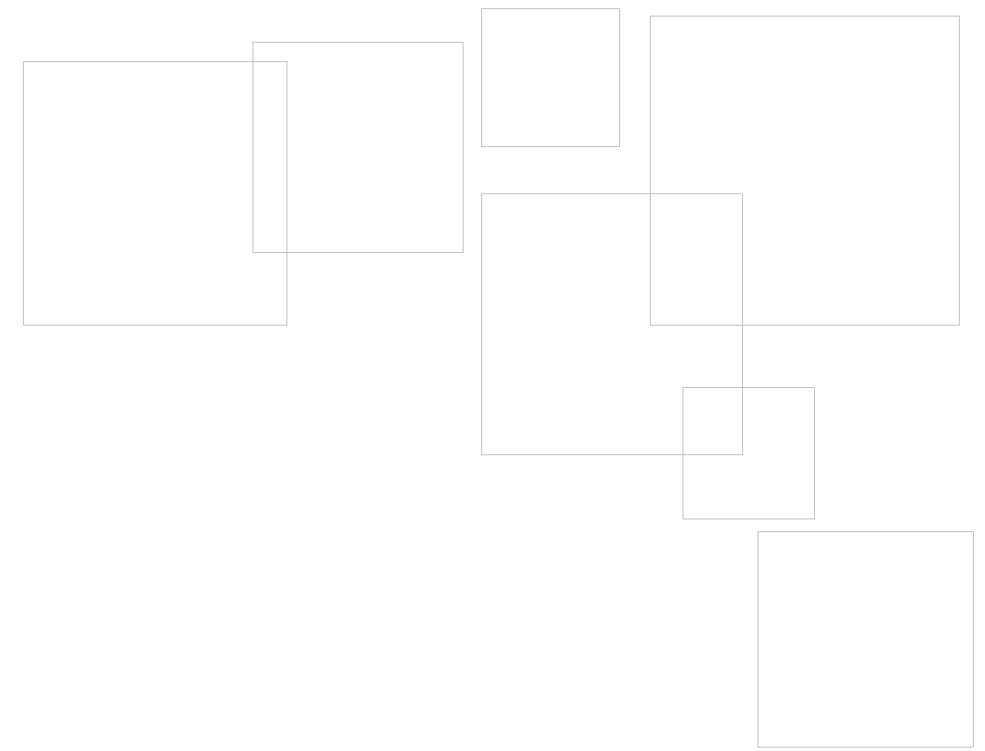
Equipment options

Headrest adjustment by gas pressure springs available instead of clamping rod locking mechanism.

Accessories

- central locking castor system with $\varnothing 50$ mm castors
- base equipped with two fixed castors (at foot end) and two multi-directional castors (at head end); foot pedal to lock/unlock located at head end of base frame (retrofitting is not possible)
- paper roll holder mounted at head end (retrofitting is not possible)
- arm support
- leg holders
- handcuffs
- instrument table
- body strap
- anesthesia pole
- shoulder/side supports
- side support
- arm/hand surgery table
- side guard
- mounting clamps (dual kit)
- leg rests (dual kit)





thank you for your trust