MEDICAL SUPPLY SYSTEMS

modul technik

Welcome

Showroom
and Training Centre

WELCOME TO MODUL TECHNIK

Can modern medical technology simultaneously meet the complex demands of hospitals, operating rooms and hospital wards? Can it support doctors and staff through ergonomic design and positively impact patient recovery? Yes it can. And it can also do so much more! Creating medical supply systems which place the individual – patients as well as nursing staff – in the very centre, have been our main focus ever since Heinz-Georg Balagny founded **modul technik** in 1984. Now the second generation is running the family business. We feel more committed than ever to our father‘s idea because **modul technik** combines innovation and quality Made in Germany with creativity and pioneering design. We are helped enormously in this task through the 30 years‘ experience of our well-qualified staff and through our close dialogue with medical professionals and care experts for the ongoing development of new ideas.

Over the following pages you can find out about our superior systems for normal and intensive care, for operating rooms and our special solutions for other areas of care. You will quickly understand that we love what we do. We also love where we come from, the Westerwald region in the heart of Germany, whose beauty we want to share with you through atmospheric photos.

And if we succeed in inspiring you, that is even better. Then please come and visit us in our modern communications centre in Montabaur to find out in person about us and our products.

Kind Regards

Anna Balagny
Managing Director

Philip Balagny
Managing Director

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MORE SUCCESS THANKS TO MADE IN GERMANY!

Many distribution partners across the world trust the quality and variety of the medical supply systems from **modul technik**. To find a contact person in your area consult our website at www.modul-technik.de. Are you a dealer in medical products? Then please contact us and become a **modul technik** distribution partner!

Your contact person:
Mrs. Anna Balagny

MODUL TECHNIK STANDS BY GERMANY AS A LOCATION

The **MADE IN GERMANY** trademark is much more than an advertising promise for us. Germany's high quality standards, its excellent infrastructure, the globally respected education system as well as the high level of qualifications and commitment of our employees and trainees, are the core of our corporate success.

Our customers benefit from our responsiveness and appreciate our ability to offer customised, customer-specific solutions. We can only guarantee this flexibility from Germany!

Therefore we demonstrate our conscious responsibility and loyalty to Germany as a location! We also benefit from the above-average labour productivity in Germany. We value our employees for their understanding of quality and their experience, and as part of our healthy growth, we will continue to create new jobs and through our regular education and training programmes we are also addressing the skills shortage in Germany.

Collaborative partnerships with regional suppliers are also important cornerstones in our company's quality assurance. We are always in close contact with our suppliers, who share our views regarding quality, responsibility and productivity.

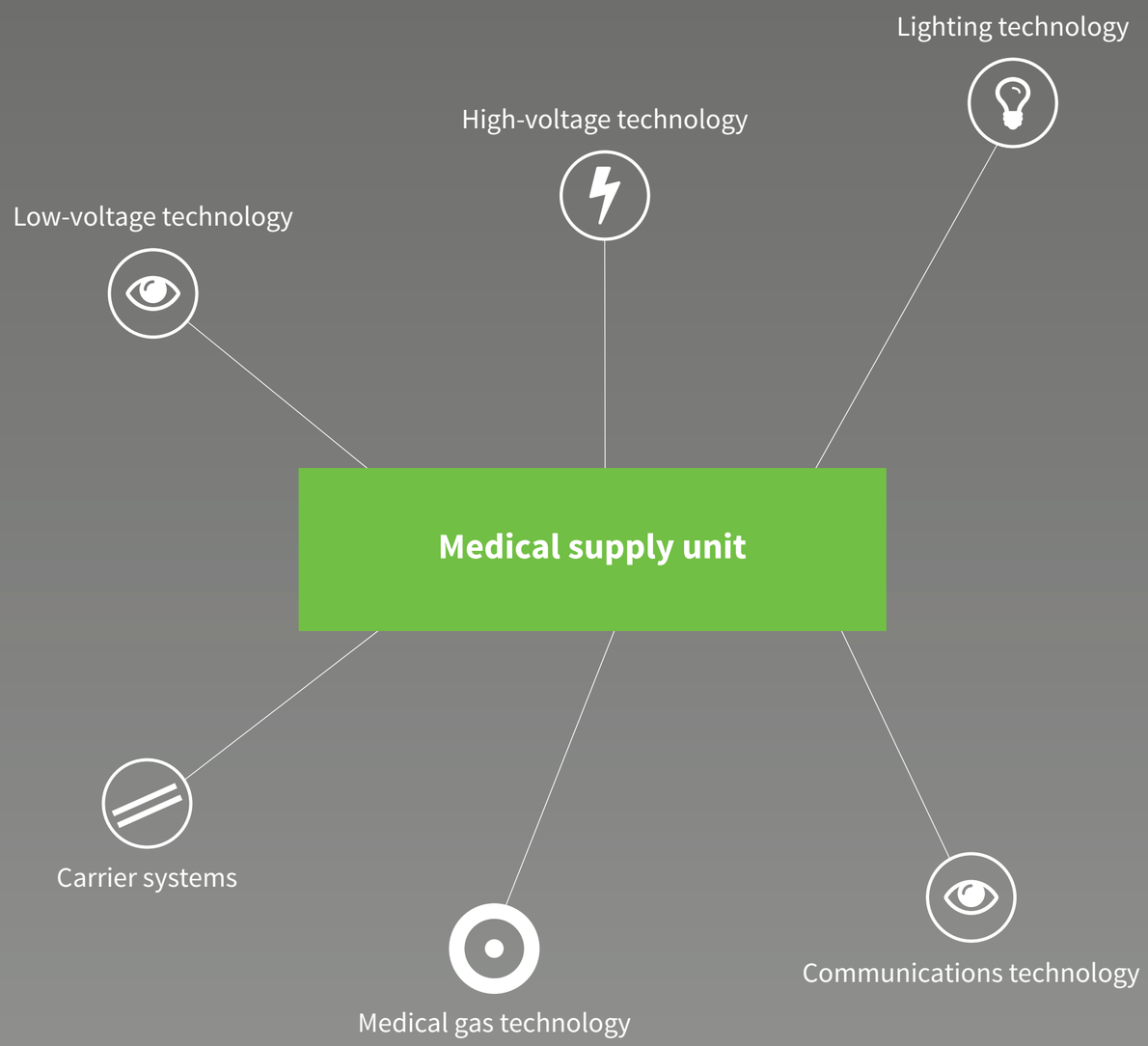


fig. 001 | Chart Medical Supply System

OUR MEDICAL SUPPLY UNITS

OUR MODULAR CONCEPT: FLEXIBLE COMBINATIONS AND TOTALLY CUSTOMISABLE!

What makes the medical supply units from **modul technik** so special? Actually everything! This is because our Class B medical products are modular in their design and can be easily and cost-effectively adjusted through combinations and customisations to the most diverse areas of application.

This is how we meet all the essential requirements for the optimum supply of the patient place with low and high voltage current, data and communications technologies and medical gases, and thereby enable the adaptation of diverse medical apparatus. Our individual design options as regards the colour, material and image motifs applied make each unit that we deliver a unique, connection-ready device.

Our ideal scenario is when we can work closely with you early in the planning phase of your facility. Then we can give architects and planners valuable and project-specific advice and assistance, saving you both time and effort.

All our basic modules are made from high-quality aluminium with its inherent long durability and ease of use. The powder coatings of all extruded aluminium profiles take specific hospital hygiene requirements into account and can be supplied in any colour you want from the RAL or NCS colour scale.

For those areas where particular comfort is to be provided, we also use wood décor and decorative graphics to transform a technical assistance device into an elegant piece of furniture. You can choose from our standard range or choose whatever you want. Whether you want atmospheric photos, artistic graphics, paintings or image-text combinations, we create all graphics in high-resolution, brilliant quality digital printing.

It goes without saying that all our products meet the “Essential Requirements” of EU Directive 93/42/EEC and are manufactured according to DIN EN ISO 11197. Our products only leave our premises after rigorous final testing for functionality and workmanship quality. This is also guaranteed by our quality management system that is certified according to DIN EN ISO 9001 and DIN EN ISO 13485.

STANDARD DESIGN

You do not have any customisation requirements and simply want to install proven and well-tested systems. Then we recommend our standard units to you which are described in more detail in an information box on many product pages. We can offer you these standard products at special conditions.

GENERAL EQUIPMENT FEATURES

GENERAL EQUIPMENT HIGH-VOLTAGE TECHNOLOGY

The medical supply unit can be equipped with both earthed sockets (230 V/16 A with control light) and with CEE sockets (230 V/16 A 3 pole or 400 V/16 A 5-pole). The brand, number and electric circuit types of the installation elements and the voltage type of the supply voltage are specified depending on the project. Potential equalisation sockets can also be specified in accordance with the number of sockets.

As a preference PEHA COMPACTA safety sockets are installed.

Custom installation of additional elements is also possible. The electrical connecting terminal block is factory-installed and wired to the electrical equipment.

GENERAL EQUIPMENT MEDICAL GAS TECHNOLOGY

The medical supply unit is connected to the on-site medical gas supply at the central feed-in point. Current is usually supplied to the media either laterally, at the back or from the top directly into the respective media-specific channels or ceiling columns. The copper pipes installed inside the supply unit meet the quality requirements for medical gases according to DIN EN ISO 7396-1.

If required, the system is delivered ready for use with integrated tapping points according to DIN EN ISO 9170-1 and DIN EN ISO 9170-2. Market-available brands such as DRÄGER, GREGGERSEN, HEYER, MEDAP or other country-specific brands can be installed. Based on the specific project, the specialist planners will decide whether single or dual-circuit systems are to be used.

GENERAL EQUIPMENT MONITORING AND COMMUNICATIONS TECHNOLOGY

The connection sockets for monitors and patient monitoring devices are usually provided by the operator. In other cases we can arrange for delivery in consultation with the planners. Whereas specialist companies connect the monitor systems, we of course install all connector systems, sockets and IT inputs in accordance with manufacturer specifications. This is the best possible preparation for a fast and smooth apparatus connection after the installation of the supply unit.

GENERAL EQUIPMENT APPARATUS CARRIER SYSTEM G 1000

The apparatus carrier system (25x10 mm) is used to attach medical accessories such as flowmeters, catheter baskets, examination lights and much more. Consult our comprehensive Accessories Catalogue for a wide range of equipment options.

GENERAL EQUIPMENT LIGHTING TECHNOLOGY

There are many different lighting technology options available for the optimum lighting of the workplace and for the patient environment.

These include lamps for indirect general lighting, reading and examination lighting and lamps to provide lighting orientation. All technical data and lighting options can be found in the table on the respective product page.

Lighting modules meet the standards listed in DIN 5035 “Interior room lighting by artificial light” - Part 3, lighting in hospitals and in DIN EN ISO 11197. The lighting modules used in 2E user group rooms are generally equipped with low-stray field ballasts and are subjected to an EMC test.

Furthermore, many units can also be equipped with the bio-dynamically effective Visual Timing Light. More information on this can be found in the next chapter.

ASSEMBLY, CLEANING, MAINTENANCE AND REPAIR

ASSEMBLY

The medical supply unit can be assembled and fixed to both solid and lightweight construction walls. For lightweight construction walls an additional supporting structure is required on-site. For ceiling-suspended supply units, supporting structures are used based on the specific project.

CLEANING

The supply unit can be cleaned with standard cleaning agents and disinfected with alcohol-free disinfectants.
A high-quality electrostatic powder coating has been applied to the surface. Blank parts are made of anodised aluminium or stainless steel. The plastic components are cleaning and disinfectant-resistant.

MAINTENANCE AND REPAIR

The system must be maintained for the first time after 5 years and then after every 2 years. A contractual service agreement can be concluded for the maintenance work if required. More information can be found in the respective operating instructions.

ACCESSORIES

Our comprehensive range of accessories means you can set up your work area exactly as you want it. Consult our Accessories Catalogue to find out about the wide range of options available to you.

VISUAL TIMING LIGHT

Sunrise over the Westerwald makes the pleasant and activating effect of sunlight palpable. Human beings cannot exist without natural light. This is because light modulation over the course of a day has a direct effect on numerous processes in our hormonal balance, metabolism and psyche. Our internal body clock follows the direction of the sun from the cool morning light, to the bright midday sun and to the warm twilight, thus maintaining the equilibrium of our biorhythms. Through the revolutionary Visual Timing Light (VTL) concept from Derungs you can now bring the power of the sun into your hospital and care rooms.

LET'S FOLLOW THE SUN!

You can identify all products equipped with the VTL technology with this logo!

VISUAL
TIMING
LIGHT

modul VTL

Derungs inside

VISUAL TIMING LIGHT – BIODYNAMIC LIGHT IN PATIENT CARE

LIGHT

Light is absolutely essential in nature. It ensures growth, diversity and beauty. For us humans, light is the most natural life supporting element in the world. It determines our whole existence by influencing important hormonal and metabolic processes and constantly resynchronising our inner clock.

RHYTHM

Our inner clock must be resynchronised by biologically effective light such as daylight or artificial lighting which is similar to daylight every day. In the event of a lack of exposure to this light which keeps our inner clock in synch, or if our rhythm is negatively influenced by continuous lighting, we demonstrably begin to suffer from restlessness, sleep disorders or depression. Especially intensive care patients and patients with dementia often lack a day/night rhythm.

VISUAL TIMING LIGHT (VTL) IN MEDICAL CARE

Whenever there is a lack of natural daylight, the VTL light management system from **modul technik** and Derungs supplies patients with the light they need. It simulates daylight conditions from dusk until dawn and at night time. A special adjustment of the light colour and level of illumination caters for vitalisation in the morning and supports resting periods and sleep phases. The combination of biodynamic light and medical care is a logical improvement towards an ideal environment for both patients and nursing staff.

BENEFITS

Scientific studies suggest a strong link between biologically effective artificial lighting and wellbeing. Structuring the day not only improves the wellness of patients. It simultaneously relieves the burden on nursing staff and motivates them. VTL is an important building block for a holistic care concept which offers long-term financial benefits through energy efficiency, nursing efficiency and image enhancement.

Many psychological or physical influences a patient is exposed to have a negative effect on sleeping behaviour and the required synchronisation of the body, which is essential for a healthy sleep. Healthy sleep phases effectively support healing processes and make a significant contribution to patients' recovery. Delirium, stress and the experience of pain in patients can be positively influenced, which supports the overall recovery process.

Visual Timing Light in patient care is the consistent development of decades of experience with Derungs VTL in senior care.

For further information on the subject, please visit **www.modul-technik.com.**

Our experts will be pleased to give you advice.

fig. 002 | Cold tone light is stimmulating and acivating, while warm tone light is relaxing and supports resting periods.

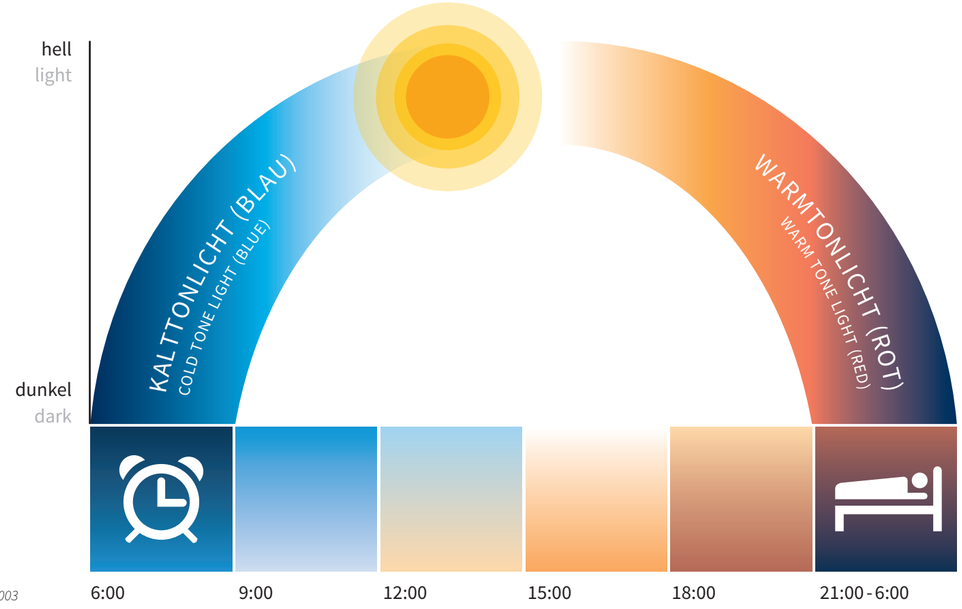


fig. 003

NORMAL CARE

The special challenge of Normal Care is to create a friendly, personal and homely atmosphere for patients in which they feel comfortable, are not constantly reminded of their illness and where they have a feeling of privacy despite all the nursing care taking place around them. At the same time the care and cleaning staff need a working environment in which every movement counts, technical and nursing aids are quickly accessible and hygienic safety is assured.

High-quality materials and surfaces, innovative lighting concepts, modern design elements and a free choice of image motifs for young and old patients make our medical products for Normal Care into sophisticated pieces of furniture reminiscent of home. Technology remains in the background – but without the loss of any ergonomics.

“FEEL AT HOME” – SIMPLY BEAUTIFUL FOR BOTH PATIENTS AND STAFF

With its decorative design elements, warm colours and high-quality materials and surfaces, which are normally only to be found at home, the “feel at home” product range brings a few home comforts into every hospital and care room, whether in a normal nursing day, in elective service rooms with a specific comfort standard or in special care areas such as children‘s care. All “feel at home” products have been designed to maximise the patient‘s feeling of being at home whilst at the same time creating ergonomic working conditions for staff. And what‘s more, nursing staff also feel better in their daily work in the attractive “feel at home” environment than in a sterile hospital atmosphere.

“MODUL CLASSIC” – THE FUNCTIONAL CLASSICS FROM MODUL TECHNIK

Do you view functional modular systems with many diverse combinations as being important for your patient care? Then in that case “modul classic” should be your first choice.

Although designed according to the creed of “form follows function” you do not have to forego your individual design tastes, if at issue for instance is the colour of the powder-coated housing. Many smart details have also been incorporated to make the staff‘s work easier. The many design variants for single and multi-bed supply enable a high degree of design freedom.

NORMAL CARE

MEV 8000

fig. 004 | MEV 8000

COMFORT IS NOT AN ART!

Concealed behind the decorative wall panel of the **MEV 8000** is the medical supply technology – accessible from both sides at all times yet completely invisible at first glance.

You can decide for yourself whether you prefer a classic, modern or extravagant style and we will then design the high-quality finished surfaces according to your requirements – with a sophisticated real wood veneer, easy-care plastic surfaces in any colour you want and with digitally printed designs. However, you can also select a variant from our comprehensive standard range.

The centrally placed supply units are enhanced with lighting elements which convey a consistent and pleasant atmosphere to the room. Whether it is a question of treatment light, indirect light or a reading light for the patient, everything is possible as are an infinite number of combinations.

The additional provision of the lateral fold-out carrying systems and/or front apparatus carrier rails, demonstrates the versatility of the **MEV 8000** for Normal Care.

MEV 8000

COMFORT IST NOT AN ART!

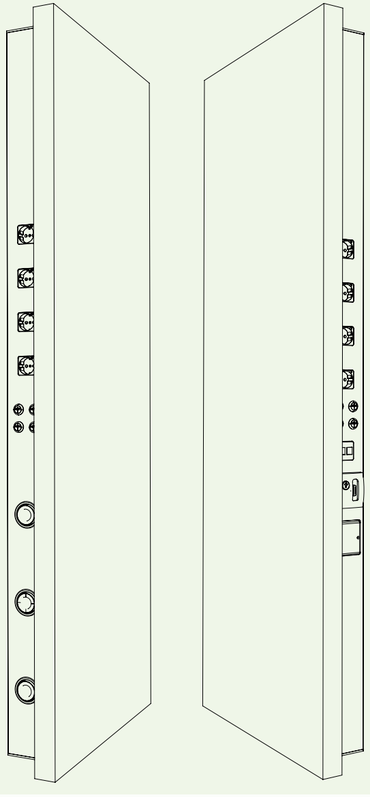
STANDARD DESIGN

High-voltage current technology
8 mains sockets, brand Peha (COMPACTA)
8 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 600 mm x 1700 mm x 150 mm
Décor: R 4889 Bella Noce schoko (melamine resin-coated)



tab. 001

fig. 005 | MEV 8000

DRK Klinikum Westerwald Krankenhaus Hachenburg, Germany

MEV 8000

COMFORT IST NOT AN ART!

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology LED downlight (optional)
Nominal voltage: 95 V – 260 V / 50 – 60 Hz
Protection class: II
Operating type: electronic converter (1-3,6 W)
Lamp output: 1 W
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

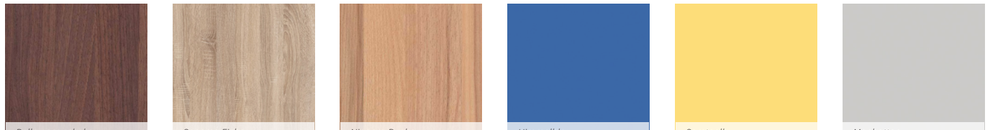
General information
Media current feed: Rear or from top
Décors: HPL-laminate or melamine resin coating
Optional support tubes: Side-mounted, swivel
Optional patient lamp Front-mounted
Additional load: Max. 80 kg

tab. 002

fig. 006 | MEV 8000 with frontal patient lamp, side view

fig. 007 | MEV 8000, customized solution

EXAMPLE DECORS



Bella noce schoko | *Sonoma Eiche* | *Niagara Buche* | *Himmelblau* | *Samtgelb* | *Manhattan*

MEV junior

fig. 008 | MEV junior, jungle-decor

BIG ADVENTURE FOR LITTLE PATIENTS!

Tim is dreaming in the Formula 1 Room of being a racing driver, Helene likes her fairy room, Anton slumbers blissfully amongst jungle animals and Johanna would like to have just such a fantastic horse picture at home – with **MEV junior**, nursing rooms in children's wards are instantly transformed into colourful and child-friendly worlds of adventure.

As with the **MEV 8000**, all the medical technology is concealed laterally behind an individually designed wall panel which is however always accessible. But on its front, children's wishes come true. Whether they are standard children's motifs from our wide selection or self-selected photos and graphics, we make everything possible. And because the image motifs can be easily exchanged, you can adapt the room design from time to time to the changing spirit of the times.

Indirect and reading lighting can be set up by attaching lighting elements to the front. The connectivity options of the supply unit is your decision. The wide range of accessories, such as the two-sided fold-out carrying systems or front support rails, make the **MEV junior** a good all-rounder for all nursing care situations.

MEV junior

BIG ADVENTURES FOR LITTLE PATIENTS!

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology LED downlight (optional)
Nominal voltage: 95 V – 260 V / 50 – 60 Hz
Protection class: II
Operating type: electronic converter (1-3,6 W)
Lamp output: 1 W
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear or from top
Décors: HPL-laminate or melamine resin coating
Optional support tubes: Side-mounted, swivel
Optional patient lamp Front-mounted
Additional load: Max. 80 kg

tab. 003

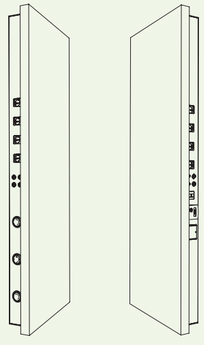
STANDARD DESIGN

High-voltage current technology
8 mains sockets, brand Peha (COMPACTA)
8 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 600 mm x 1700 mm x 150 mm
Décor: Children's décor from standard range (digital printing)



tab. 004

STANDARD DECORS *

fig. 009 | Astronaut

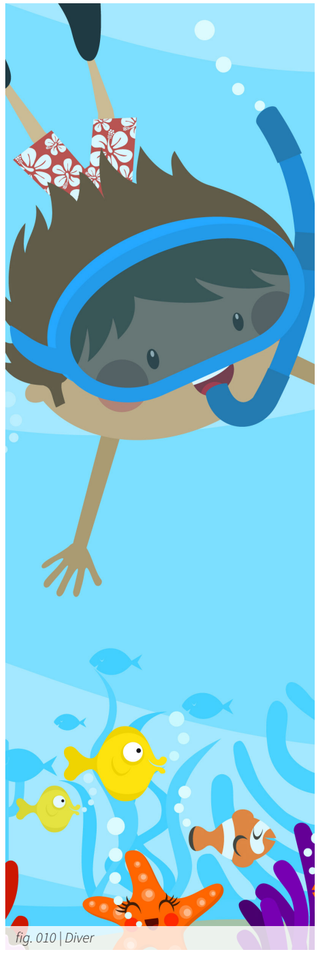


fig. 010 | Diver

fig. 011 | Jungle

* customized designs available on request.

comfort

fig. 012 | comfort

IT'S ALL IN THE NAME FOR PATIENTS AND STAFF

Modern wall design or medical supply unit? In the **comfort** model the eye is initially drawn to the high-quality real wood veneer finish of the surfaces or to the individually selectable graphics or photo images.

That this is a sophisticated medical supply system with all the necessary and individually combinable media connections, is hard to believe even at second glance. Only 65 mm in height, **comfort** is only slightly thicker than a wall painting yet includes everything that is required in Normal Care.

The connections are easily accessible and at optimum working height on the front of the decorative unit. On request the connector panel can be concealed by a matching slide cover. One hand movement and the technology completely disappears, and with another everything is immediately accessible.

You can also use **comfort** to be creative with patient and room lighting as there are many tasteful designs of lighting systems to choose from.

comfort? Of course! Coming to your nursing rooms soon!

comfort

IT‘S ALL IN THE NAME FOR PATIENTS AND STAFF

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear
Optional equipment rail: Front-mounted
Material of optional equipment rail: Stainless steel
Number of media channels: One to three
Décors: HPL-laminate or melamine resin coating
Optional patient lamp Front-mounted

tab. 005

fig. 013 | comfort, triple-channel version

fig. 014 | comfort Royal Buckinghamshire Hospital Aylesbury, Great Britain

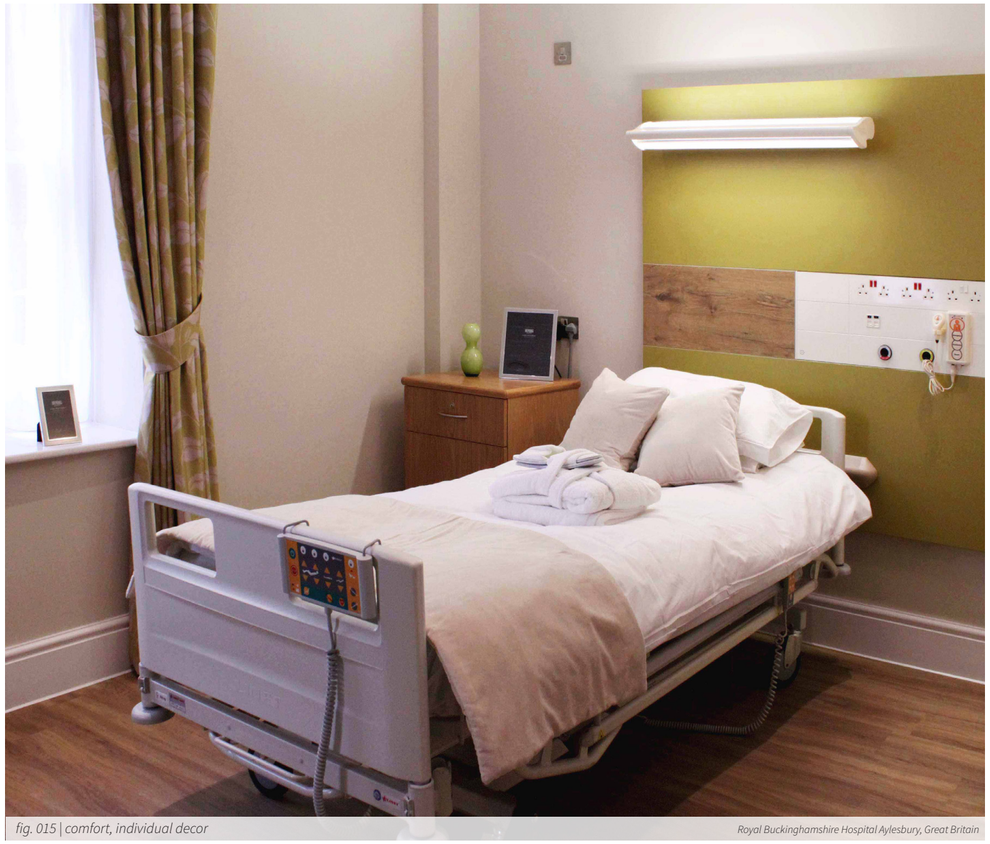


fig. 015 | comfort, individual decor Royal Buckinghamshire Hospital Aylesbury, Great Britain

EXAMPLE DECORS

Bella noce schoko | *Sonoma Eiche* | *Niagara Buche* | *Himmelblau* | *Samtgelb* | *Manhattan*

VIP 2000

fig. 016 | VIP 2000, open sliding door

ELECTIVE SERVICE ROOMS FOR “VERY IMPORTANT PATIENTS”

A nursing room picture – this is how you could name the furnishing concept behind the **VIP 2000**, because here the high-quality room aesthetics are consistently in the foreground.

When closed the media connections are concealed behind a tasteful picture, which you yourself can select. Only when the picture is moved to the side with one hand movement, does the individually equipped connection technology appear.

The technology enables maximum flexibility in terms of connection equipment and the installation of additional accessories. For instance, pivoted extension arms and support arm systems for infusions and devices can be easily installed, making additional infusion and device trolleys superfluous.

Another highlight is that cables can also be fed out through the openings at the base of the picture, even when the module is closed. This means that even with continuous monitoring and supply, the room loses none of its comfort. There is also extra storage space for books and smartphone in the shelf segment integrated on the side.

VIP 2000

ELECTIVE SERVICE ROOMS FOR “VERY IMPORTANT PATIENTS”

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear
Décor body: FUNDER-MAX 0570 FH textile grey
Décor sliding door HPL-laminate (digital printing)
Optional patient lamp Front-mounted

tab. 006

fig. 017 | VIP 2000, front closed with individual decor

fig. 018 | VIP 2000, shelves

fig. 019 | VIP 2000, with lateral outlets for medical gases

ambient cube

fig. 020 | ambient cube

THE BEAUTY OF SIMPLICITY

Who says functional supply solutions in hospitals must be sterile and boring? **ambient cube** proves the opposite by combining modern design with high-quality materials and functional technology to create a real eye catcher.

Take a look for yourself. As you can see, you see nothing! That is apart from fine wood surfaces, since all the electrical installation elements disappear out of view underneath the module.

As is the case with all our products, **ambient cube** can be furnished according to your specific wishes and equipped with a wide range of lighting options. You can of course also coordinate housing colours and décors individually to your own room design and to the other furniture.

ambient cube

THE BEAUTY OF SIMPLICITY

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 53 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Décors: HPL-laminate or melamine resin coating
Optimum assembly height: 1650mm (rail bottom edge)
Optional light control: DALI DIM

tab. 007

STANDARD DESIGN

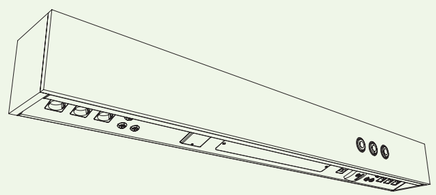
High-voltage current technology
6 mains sockets, brand Peha (COMPACTA)
6 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Lighting technology
Reading light (T5 fluorescent tubes): Output ≙ 24 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 1800 mm x 200 mm x 205 mm
Décor: R 4889 Bella Noce schoko (melamine resin-coated)



tab. 008

fig. 021 | ambient cube, individual decor
Katholisches Klinikum Koblenz-Montabaur, Germany

EXAMPLE DECORS

Bella noce schoko | *Sonoma Eiche* | *Niagara Buche* | *Himmelblau* | *Samtgelb* | *Manhattan*

ambient simplex

fig. 022 | ambient simplex

BEAUTIFUL FRONT WITH LOTS BEHIND!

Be it the fine wood décors in the various structures, fronts in a range of bright colours or elegant patterns – **ambient simplex** is streets ahead in terms of taste.

The connections for high and low voltage current, data and communications which we combine according to your requirements, are concealed behind the pull-down screen. Here the various lighting variants also ensure the best ambient light and cosy reading light options. Indirect room lighting can also be integrated on the top side.

The outlets for medical gases are accessible from the front in this variant.

ambient simplex

BEAUTIFUL FRONT WITH LOTS BEHIND!

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 53 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Décors: HPL-laminate or melamine resin coating
Optimum assembly height: 1650mm (rail bottom edge)
Optional light control: DALI DIM

tab. 009

STANDARD DESIGN

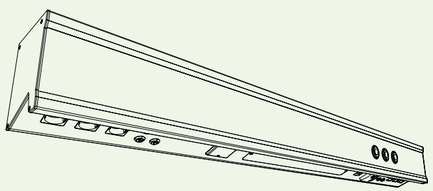
High-voltage current technology
6 mains sockets, brand Peha (COMPACTA)
6 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Lighting technology
Reading light (T5 fluorescent tubes): Output 24 W
Indirect lighting (T5 fluorescent tubes): Output 2 x 39 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 1800 mm x 200 mm x 185 mm
Décor: R 4889 Bella Noce schoko (melamine resin-coated)



tab. 010

fig. 023 | ambient simplex, individual decor

EXAMPLE DECORS

Bella noce schoko | *Sonoma Eiche* | *Niagara Buche* | *Himmelblau* | *Samtgelb* | *Manhattan*

ambient light

fig. 024 | ambient light

COMFORT IN 1001 COLOURS

Light is the easiest way of creating comfort and atmosphere in a room. Seen from this perspective, **ambient light** is a true all-rounder, since the integrated LED light concept constantly creates new, luminous colour moods, which are freely selectable or which change based on a specified program cycle.

But of course it is still much more than an atmospheric design object.

Equipped with all the media connections according to your specifications, it is the central access point for patient care. Since the installation components for the communications, electric and data technologies are positioned on the underside, they are only visible at second glance, yet are accessible at all times.

In addition to the LED light on the front, this supply unit can also be fitted with various reading light and ambient light options.

ambient light

COMFORT IN 1001 COLOURS

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 53 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Night light (LED): Output ≙ 4.3 W
Ambient lighting (LED-RGB): Output 12,5 W / m

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Optimum assembly height: 1650mm (rail bottom edge)
Optional light control: DALI DIM

tab. 011

STANDARD DESIGN

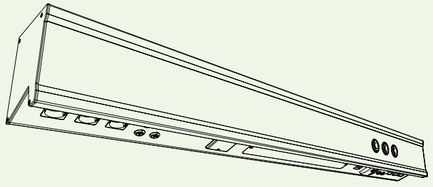
High-voltage current technology
6 mains sockets, brand Peha (COMPACTA)
6 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Lighting technology
Reading light (T5 fluorescent tubes): Output ≙ 24 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Ambient lighting (LED-RGB): Output ≙ 22,5 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 1800 mm x 200 mm x 185 mm



tab. 012

fig. 025 | ambient light, with frontal outlets for medical gases

ambient compact

fig. 026 | ambient compact

PERFECT SUPPLY IN THE MOST COMPACT SPACE

To what extent can a medical supply unit be designed to be compact without losing any of the required media connectivity?

With **ambient compact** our developers have impressively answered this question. Its housing has the same small dimensions as ambient front. The trick. Through the positioning of additional installation elements on the front, there is space for additional media connections such high and low voltage, data and communications and medical gases. And different lighting solutions are also possible in the compact unit. This means that **ambient compact** is the ideal solution for a high supply requirement in cramped space situations.

ambient compact

PERFECT SUPPLY IN THE MOST COMPACT SPACE

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 11 W / 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 40 W / 53 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Décors: Powder or foil coating
Optimum assembly height: 1650mm (rail bottom edge)
Optional light control: DALI DIM

tab. 013

STANDARD DESIGN

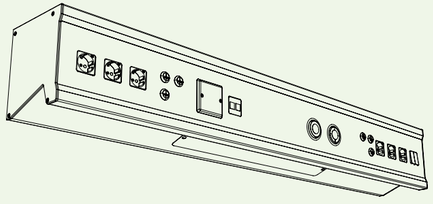
High-voltage current technology
6 mains sockets, brand Peha (COMPACTA)
6 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Lighting technology
Reading light (LED): Output ≙ 11 W
Indirect lighting (LED): Output ≙ 40 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul

General information
Rear feed
Dimensions (W x H x D): 1400 mm x 200 mm x 185 mm
Décor: Powder coating according to RAL colour scheme



tab. 014

fig. 027 | ambient compact

ambient junior

fig. 028 | ambient junior, robot-decor

INDIVIDUAL, COLOURFUL AND FUN

Whether a mouse group or pirate crew – already by kindergarten the little ones like to know where and to whom they belong. Why not also in hospital? With **ambient junior** you can give every child their very own space. Whether they are thematically designed rooms and wards or an individual image motif for each bed – you have a completely free hand in the design of the front panel and in the colour of the housing.

The suggestions on this page are only three examples from our standard range. We will be pleased to present others to you. Or you can create your own designs with us.

However playful the exterior may be, the interior of this medical supply unit is still very serious. The technology and the equipment options with media connections and lighting variants correspond to those of ambient front.

ambient junior

INDIVIDUAL, COLOURFUL AND FUN

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 53 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Décors: HPL-laminate or melamine resin coating
Optimum assembly height: 1650mm (rail bottom edge)
Optional light control: DALI DIM

tab. 015

STANDARD DESIGN

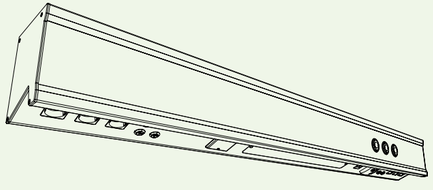
High-voltage current technology
6 mains sockets, brand Peha (COMPACTA)
6 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Lighting technology
Reading light (T5 fluorescent tubes): Output ≙ 24 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed
Dimensions (W x H x D): 1800 mm x 200 mm x 185 mm
Décor: Children's décor from standard range (digital printing)



tab. 016

STANDARD DECORS *

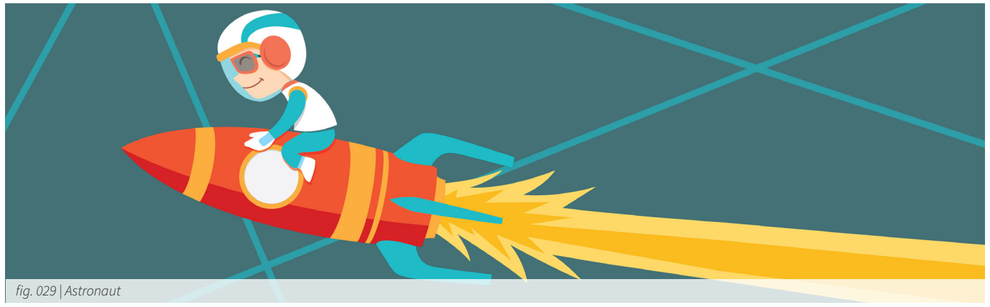


fig. 029 | Astronaut

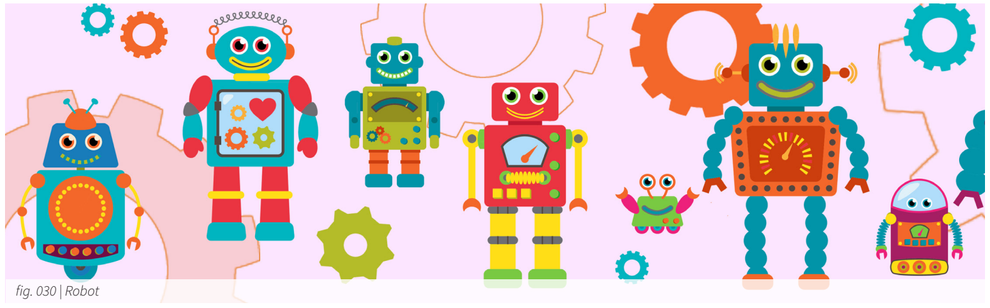


fig. 030 | Robot

fig. 031 | Superheroes

* customized designs available on request.

modulux pure

fig. 032 | modulux pure

SLEEK DESIGN AND A SURPRISING INTERIOR

modulux pure emerges as a true spatial and functional miracle despite its restrained dimensions.

Data, communications, low and high voltage current installation components are concealed in the base. Compact and sleek, front-accessible tapping points for medical gases are integrated into the overall design. Supply and monitoring equipment is always in the right place due to the front support rails that can also be installed.

A groove for attaching additional accessories is provided on the bottom edge.

And of course there is also space for different lighting variants for room, examination and patient lighting. And as the housing has a virtually wireless finish, it can also be cleaned particularly easily and hygienically.

And by the way, you can choose the housing colours from any RAL and NCS colours.

modulux pure

SLEEK DESIGN AND A SURPRISING INTERIOR

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 53 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Optimum assembly height: 1650mm (rail bottom edge)
Optional light control: DALI DIM
Fixing groove for other accessories: Available on the base
Optional equipment rail: Front

tab. 017

STANDARD DESIGN

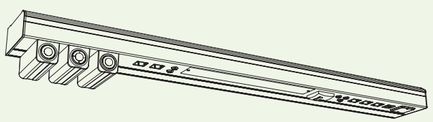
High-voltage current technology
5 mains sockets, brand Peha (COMPACTA)
5 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
2 hollow wall sockets, Ø 68mm (e.g. for nurse call button)

Lighting technology
Reading light (T5 fluorescent tubes): Output ≙ 24 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 39 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Rear feed



tab. 018

fig. 033 | modulux pure, two-bed unit

fig. 034 | modulux pure with indirect lighting

IV 1054

fig. 035 | IV 1054 with equipment carrier rails of aluminium

THE ALL-ROUNDER WITH HUGE POTENTIAL

IV 1054 convinces customers through its almost unlimited equipment and expansion options.

Low and high voltage current, data and communications connections and medical gases are easily accessible at all times. In addition, aluminium or stainless steel support rails can accommodate all medical apparatus.

The system is particularly flexible when it comes to the media feeds, which can be routed from the back, on both sides or from the top. Depending on your requirements, **IV 1054** can also be designed as a single, double or triple-channel system.

The screw-free front profiles of **IV 1054** make cleaning easy and hygienic and these can also be obtained electrostatically powder-coated in an anodised design or in any RAL/NCS colour.

We did not install an integrated lighting solution for the **IV 1054** in order to achieve maximum flexibility. modulux pure can be used as a matching and cost-effective enhancement as a pure lighting and/or additional supply unit.

IV 1054

THE ALL-ROUNDER WITH HUGE POTENTIAL

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear, from top or side
Optional equipment rail: Above and below
Material of optional equipment rail: Stainless steel or aluminium
Number of media channels: One to three
Additional load: max. 50 kg/m

tab. 019

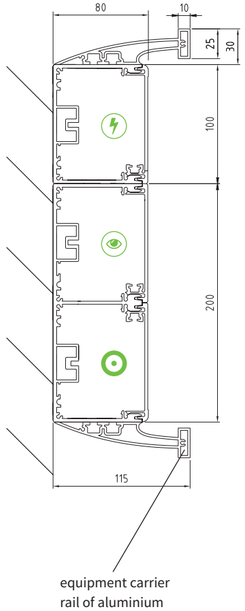


fig. 036

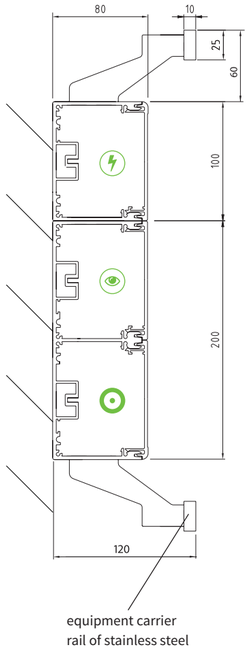


fig. 037

fig. 038 | IV 1054, triple-channel version

IVV 1054

Infusion bottle holder

fig. 039 | IVV 1054 with swiveling support tube for the infusion equipment

THE SOLUTION FOR NARROW PATIENT ROOMS

Sometimes narrow room dimensions limit the options for the use of horizontally arranged supply systems. So this where **IVV 1054** lends a hand with a change of perspective. Rotated by 90 degrees, this vertical supply unit provides optimum patient care in the smallest of spaces. Arranged one above the other, the tapping points for medical gases, high and low voltage current and data and communications technologies can be designed as single, double, triple or four channel versions depending on your requirements.

But there's still more. Apparatus and accessories such as infusion bottle holders or examination lights all have their place on the **IVV 1054** thanks to the stainless steel support arm fixed on the side making bulky apparatus trolleys or infusion stands superfluous.
As a result you not only gain space but also provide optimum working conditions for doctors and nursing staff.

modulux pure enhances the system as a matching lighting solution which like the **IVV 1054** can be provided in electrostatically powder-coated variants in all RAL colours

IVV 1054

THE SOLUTION FOR NARROW PATIENT ROOMS

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear or from top
Optional support tubes: Side-mounted, rigid or swivel
Number of media channels: One to three
Total additional load: max. 100 kg/m

tab. 020

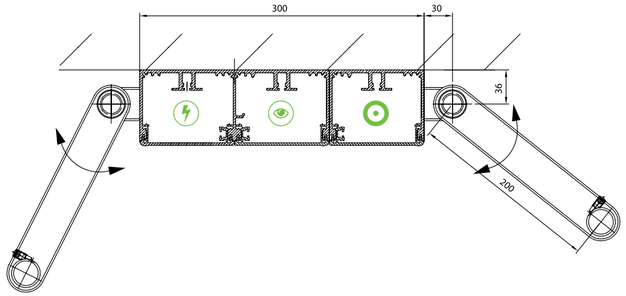


fig. 040

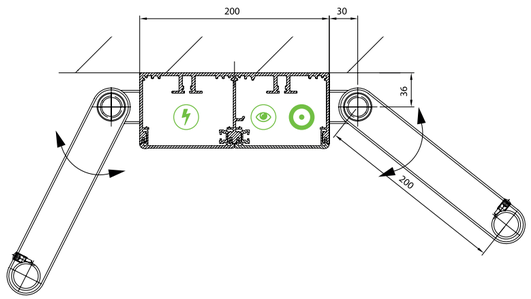


fig. 041

fig. 042 | IVV 1054, triple-channel version

fig. 043 | IVV 1054, with rigid mounting tubes

IV 1054 UP & IVV 1054 UP

fig. 044 | IVV 1054 UP

WALL-MOUNTED FOR MORE SPACE

New hospital buildings in particular enable the planning freedom to provide wall flush-mounted medical supply systems. However, the benefits of **IV 1054-UP** are not only demonstrated in its small footprint and in its elegant aesthetics of this only 90 mm deep flush-mounted modules. Depending on requirements and room design it can also be implemented in both horizontal and vertical variants in many different sizes, with different media connections and still have the same flexibility as all **modul technik** products.

Whether medical gases, electricity, data and communications technologies or single, double, triple or four channel versions – everything is possible. And everything is very transparent, easily accessible and very easy to clean. This achieved through the option of anodised or electrostatically powder-coated wall-mounted surfaces in the colour of your choice.

Our accessories programme also offers several appropriate room lighting solutions. We will be pleased to find the right lighting solution for you.

And what‘s more, the system can also be considered for conversion or refurbishment projects since the particularly flat design only requires an approx. 100 mm thick lightweight front-wall structure, behind which are concealed the cables and connections to the available media supply units. We will be pleased to advise you.

IV 1054 UP & IVV 1054 UP

WALL-MOUNTED FOR MORE SPACE

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Media current feed: Rear
Number of media channels: One to three

tab. 021

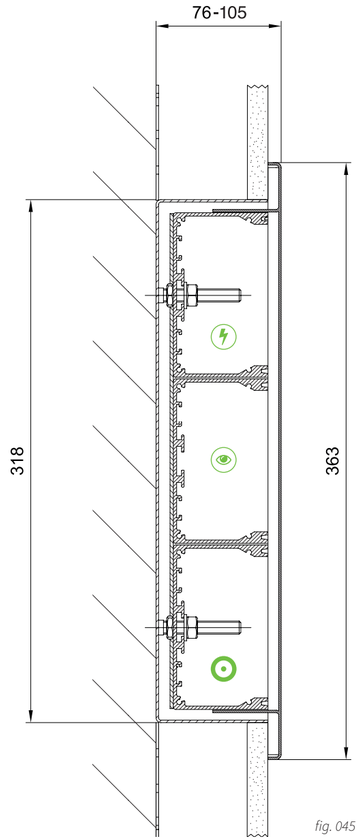


fig. 045

fig. 046 | IV 1054 UP, triple-channel version

INTENSIVE CARE

When a human life is in danger, doctors and nursing staff need optimum working conditions and direct access to all technical and medical aids. Because no two cases are alike, an intensive care system must also be designed so that all apparatus and monitoring systems that are required in a specific case are available to hand flexibly and easily. Ease of use, fast and short work steps, perfect hygiene conditions and optimum lighting are the benefits which distinguish all modul technik intensive care systems.

INTENSIVE CARE

IV 1054

fig. 047 | IV 1054 in combination with modulux pure and equipment carrier rail G1000

OUR INTENSIVE CARE CLASSIC

The benefits of the **IV 1054** can be briefly summarised as follows – a clear design which can be equipped with all the media required for intensive care and the recovery room and which is robustly finished and mounted connection-ready and with a media feed-in at a central input point.

In the same way as all **modul technik** products, **IV 1054** offers maximum flexibility through a wide-ranging accessories range. Apparatus carrier systems and equipment rails enable a very accessible, space-saving and transparent installation of all apparatus, infusion and lighting elements. However, there is also the option to order the system in single, double, triple channel versions. In all variants the media are physically separated from each other by a multi-chamber system which increases the functional safety. We plan medical gases, high voltage current, data and communications technologies according to your needs. modulux pure is the ideal enhancement as a lighting solution.

And we are pleased to take your design wishes into account. We design the screw-free and thereby safe and hygienically designed aluminium surfaces to be either anodised or electrostatically powder-coated in any RAL or NCS colour.

IV 1054

OUR INTENSIVE CARE CLASSIC

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: Rear, from top or side
Optional equipment rail: Above and below
Material of optional equipment rail: Stainless steel or aluminium
Number of media channels: One to four
Additional load: max. 50 kg/m

tab. 022

fig. 048 | IV 1054, customized solution — *Unfallkrankenhaus Berlin, Germany*

fig. 049 | IV 1054 in combination with equipment carrier system FS 4500 — *Deutsches Herzzentrum Berlin, Germany*

IVV 1054

fig. 050 | IVV 1054 with mounting tubes

MORE SPACE IN INTENSIVE CARE THROUGH ITS VERTICAL DESIGN

All the benefits of the **IV 1054** can also be found in the **IVV 1054**, which due to its vertical design is particularly well-suited for use where room conditions do not permit a horizontally arranged system.

Its interior equipment also reflects this rotation and **IVV 1054** is distinguished by its single, double or triple channel system, a central feed-in point for all integrated media, multi-chamber systems for separating media within the system, wireless and screw-free surfaces and total flexibility regarding media placement with high voltage current, medical gases, data and communications connections.

The optionally available supporting tube systems (rigid or swivel) are used to attach monitors, for infusion management or other medical apparatus. This ensures transparent operation and supports the professional treatment of patients.

This can be combined with the modulux pure lighting system that is available, as the **IVV 1054**, in any electrostatically powder-coated RAL or NCS colour. As an option, the aluminium surfaces of the **IVV 1054** are anodised.

Your additional benefit is that **IVV 1054** is delivered pre-assembled and connection-ready and requires only one central connection point for all media which can be fed either at the back or from the top.

IVV 1054

MORE SPACE IN INTENSIVE CARE THROUGH ITS VERTICAL DESIGN

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: Rear or from top
Optional support tubes: Side-mounted, rigid or swivel
Number of media channels: One to four
Total additional load: max. 100 kg/m

tab. 023

fig. 051 | IVV 1054, equipping example

fig. 052 | IVV 1054, triple-channel version

DRK-Krankenhaus Mölln-Ratzeburg, Deutschland

IME 1500 & IME duplex

fig. 053 | IME duplex

STANDING OUT IN THE LITERAL SENSE OF THE WORD

Working at patients‘ beds in emergency admissions, intensive care and also in intermediate care, requires easily accessible media connections, which enable fast and ergonomic apparatus and medication changes. The smart solution of the vertically designed **IME 1500** and **IME duplex** is that they meet your staff as they “stand out” at an angle from the wall.

Both systems can be equipped with medical gases, high voltage current, data and communications technologies according to your specifications. Whereas the **IME 1500** connections are one-sided, on the side opposite to the patient‘s bed, **IME duplex** has two media sides and can therefore be placed in the middle between two patient beds.

The comprehensive range of accessories of stable stainless steel support tubes and matching apparatus carriers, lighting elements and attachments for infusions, makes the IME range a compact and multi-purpose supply system for many areas of application.

We plan the equipment for IME systems on an individual basis and adapt it to the respective area of application.

IME 1500 & IME duplex

STANDING OUT IN THE LITERAL SENSE OF THE WORD

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology LED downlight (optional)
Nominal voltage: 95 V – 260 V / 50 – 60 Hz
Protection class: II
Operating type: electronic converter (1-3,6 W)
Lamp output: 1 W
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
AGSS: 5 bar

General information
Media current feed: Rear or from top
Additional load IME 1500: Max. 80 kg
Additional load IME duplex: Max. 160 kg

tab. 024

fig. 054 | IME 1500, equipping example

fig. 055 | IME duplex, equipping example
DRK-Krankenhaus Mölln-Ratzeburg, Germany

fig. 056 | IV 1054 in combination with modulux pure and FS 4500

DIVERSE COMBINATIONS ARE OUR STRENGTH

modul technik's greatest strength is reflected in the countless combination options of the various system components. This becomes clear, for example, in the **IV 1054**, **modulux pure** and **FS 4500** systems which have been closely coordinated to each other.

The central media supply is provided via the **IV 1054** which can be designed as a single, double or triple-channel version and is supplied via a central connection point with all media. modulux pure positioned above includes various technical light components which provide indirect room lighting, examination lighting and patient reading lights. Further media and connections, e.g. for medical gases, can also be integrated into modulux pure.

The combination example is completed with the flexible **FS 4500** apparatus carrier system.
Here all devices, pumps, infusions and materials required in intensive care always have their place ready to hand. This is ensured by the wide equipment range which includes equipment rails, drawers, retractable keyboards, equipment consoles and infusion holders.

We will assemble the system according to what you want. Depending on the treatment need, the position of individual accessory parts can also be changed at any time with just a few hand movements.

MS 1054

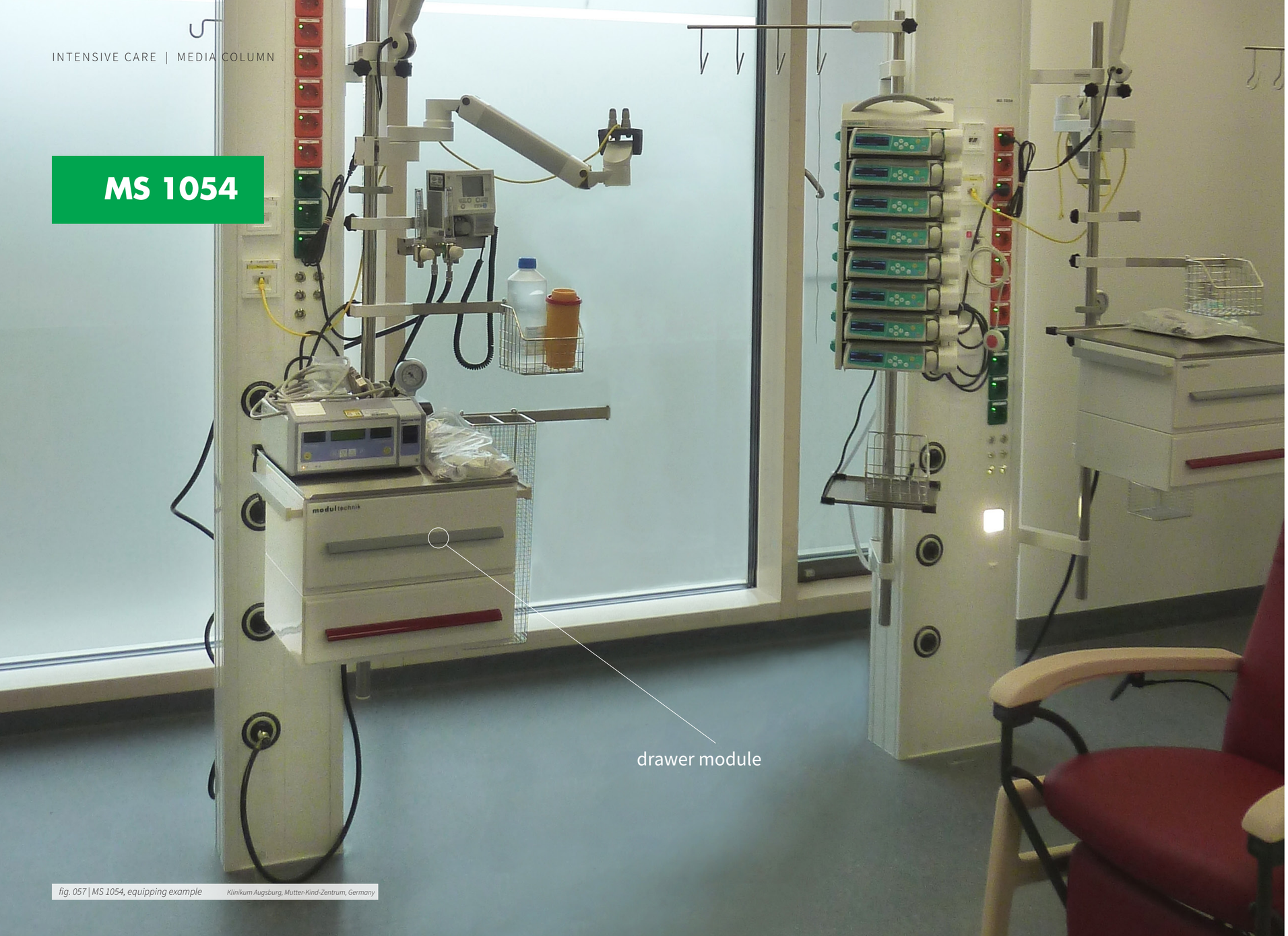


fig. 057 | MS 1054, equipping example *Klinikum Augsburg, Mutter-Kind-Zentrum, Germany*

MORE FREE SPACE THROUGH FREESTANDING PLACEMENT IN THE ROOM

With our **MS 1054** media column which can be installed freestanding in the room, we offer you a flexible system for all room situations in which wall-mounted supply systems are out of the question.

The core of the system is a compact media column which is firmly anchored to the floor and ceiling and in which all required media accesses such as medical gases, high voltage current, data and communications technologies are integrated.

The optionally available accessories make the **MS 1054** a multi-purpose and flexible treatment station. Side-mounted stainless steel tubes incorporate infusion bottle holders, lighting elements and other aids. But storage consoles and drawer pull-outs can be installed at any height you want – ideal for every work situation and always exactly where they are required in the room.

MS 1054

MORE FREE SPACE THROUGH FREESTANDING PLACEMENT IN THE ROOM

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology LED downlight (optional)
Nominal voltage: 95 V – 260 V / 50 – 60 Hz
Protection class: II
Operating type: electronic converter (1-3,6 W)
Lamp output: 1 W
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
Laughing gas 5 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: From the top
Optional support tubes: Side-mounted, rigid or swivel
Total additional load: Max. 160 kg

tab. 025

fig. 058 | MS 1054, floor connection with column

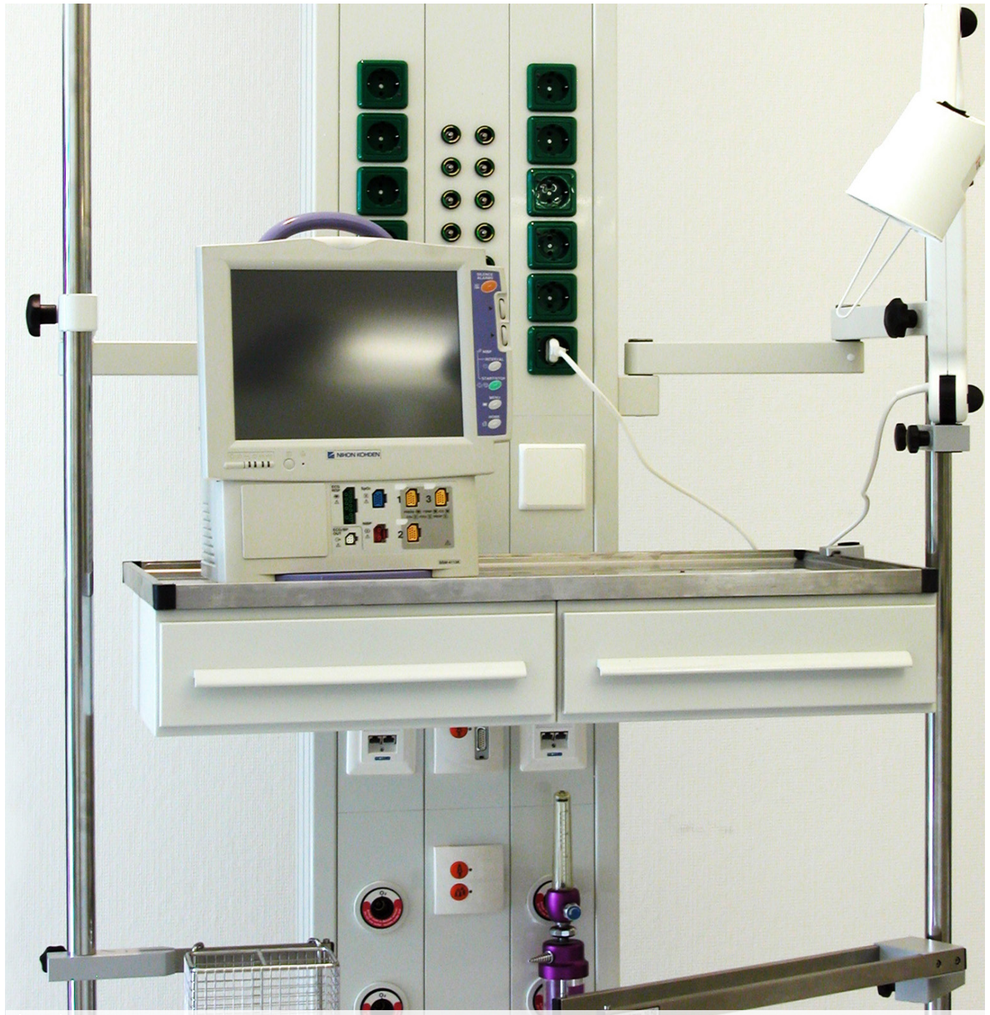


fig. 059 | MS 1054, equipping example

IZM 2560

fig. 060 | IZM 2560

PARTITION WALL SYSTEMS TO INCLUDE EVERYTHING

The interior design of your intensive care ward or recovery ward becomes very easy to plan with the customised **IZM 1650** partition wall system. Made from high-quality aluminium and available in any electrostatically powder-coated RAL or NCS colour, we plan, deliver and install the system as a turnkey solution including window areas, doors and all installations. Its robust lightweight construction means it can be installed in nearly all buildings without any static problems.

The **IZM 2560** system takes account of the particular supply need in intensive care through the possible integration of the **IV 1054** (horizontal) and/or **IVV 1054** (vertical) supply systems. The connection to the media supply required for this purpose is via the central feed-in point in the suspended ceiling.

Finally the **FS 4500** apparatus carrier system can be wall-mounted and enables an ergonomic arrangement of all equipment and which if required can be moved across the entire width of the wall.

The equipment options are almost unlimited. Water supply and hand wash basins, wall-mounted work areas and many other equipment options can also be installed.

We plan and manufacture your partition wall system according to your individual specifications and will be pleased to advise you in the planning phase.

IZM 2560

PARTITION WALL SYSTEMS TO INCLUDE EVERYTHING

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: From the top
Optional equipment rail: Front

tab. 026

fig. 061 | IZM 2560 — *Marienhaus Klinikum St. Elisabeth Krankenhaus Neuwied, Germany*

fig. 062 | IZM 2560 with equipment carrier system FS 4500

fig. 063 | IZM 2560, Turn-key ICU — *Heinrich-Heine-Universität Düsseldorf, Germany*

moduflex 2500

fig. 064 | moduflex 2500 with equipment carrier system GW 2500

EVERYTHING YOU NEED COMES FROM ABOVE

The ceiling-suspended **moduflex 2500** supply system has been specifically developed for intensive care requirements. Because all media and apparatus attachments are fed from above, it enables optimum freedom of movement and perfect floor hygiene at the patient place.

Media are fed through ceiling columns which have a rear inspection opening. The tapping points for high and low voltage current, medical gases and other media are installed in the ceiling bars. The patient place is connected via the **GW 2500** and **IW 2500** apparatus carrier systems. Maintenance costs are also minimised through the rigid tubing up to the tapping points for medical gases.

We offer a wide equipment and accessory programme to match **moduflex 2500** which allows the design of the entire work area to be customised. This includes catheter baskets, various examination lights, extension arms and drawers.

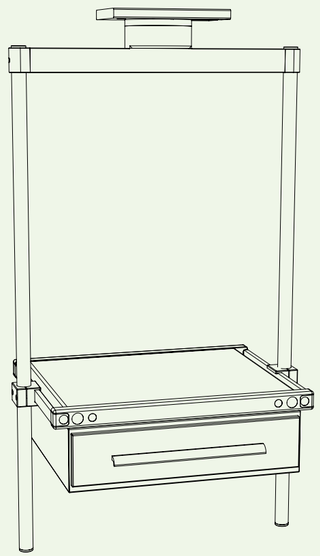
The system is also equipped with a lighting solution for indirect room lighting and a reading light.

moduflex 2500

EVERYTHING YOU NEED COMES FROM ABOVE

GW 2500

The GW 2500 apparatus trolley is used as a carrier system for moduflex 2500 and the OP 3800 media bridge. Medical apparatus can be freely positioned along the height-adjustable consoles. The trolley is continuously braked by a manual friction brake.



IW 2500

The IW 2500 infusion trolley is the slim brother to the GW 2500 and incorporates all necessary equipment and accessories for infusion supplies.

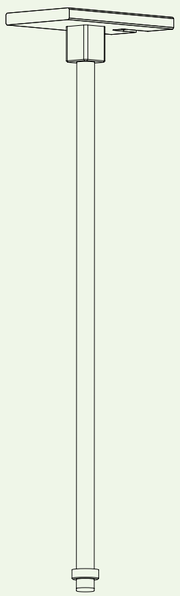


fig. 065

fig. 066 | moduflex 2500, bottom view

moduflex 2500

EVERYTHING YOU NEED COMES FROM ABOVE

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm^2 max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 64 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 54 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: From the top in the support columns
Additional load per apparatus trolley: Max. 120 kg
Optional light control: DALI DIM
Optional indirect RGB lighting: Output ≙ 3 x 39 W

tab. 027

fig. 067 | moduflex 2500 with drawer module

fig. 068 | moduflex 2500 with GW 2500 and IW 2500

moduflex nova

fig. 069 | moduflex nova with BSP 2500

COMPACT, MODERN AND FLEXIBLE

The eye is immediately drawn to the appealing aesthetics of the **moduflex nova** intensive care unit, and also by its very compact design and the linear, easy to clean housing. However, it is its inner values and its high degree of flexibility that make the system an intensive care all-rounder.

The system incorporates all media accesses and can be equipped with a range of lighting solutions including room lighting, examination, reading and night lights. Another option is the Visual Timing Light for bio-dynamic lighting control, also on the intensive care ward. The **BSP 2500** basic support head system provides the media tapping points which we plan and fit customised to your requirements.

As well as its interfaces for high voltage and low voltage current, medical gases and other media, the **BSP 2500** supply head system has many other options for use with apparatus carrier systems, drawers, monitor mounts, working lights and much more.

To create maximum operating flexibility, the swivel arms and the movability of the supply head ensure a range of +/- 500 mm. Ideally **moduflex nova** is equipped with a supply head for the infusion side and an additional one for the monitoring side.

moduflex nova

COMPACT, MODERN AND FLEXIBLE

BSP 2500

BSP 2500 can be horizontal or vertical in design. BSP 2500 is used under moduflex nova as the horizontally movable supply trolley.

In combination with our support arm system, the ceiling supply units of the moduversa range are created.

BSP 2500 incorporates all the connections for full low voltage and high voltage current, data and communications technologies and medical gases. Every medical accessory can be adapted through the optional tubes and the front-integrated rails.

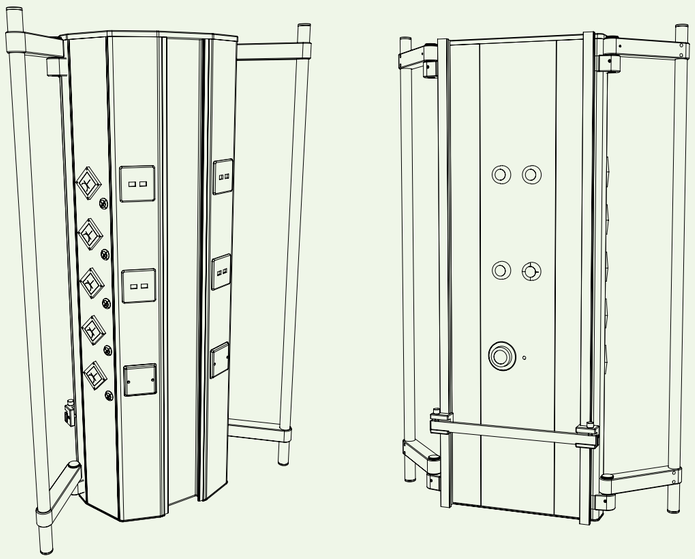


fig. 070

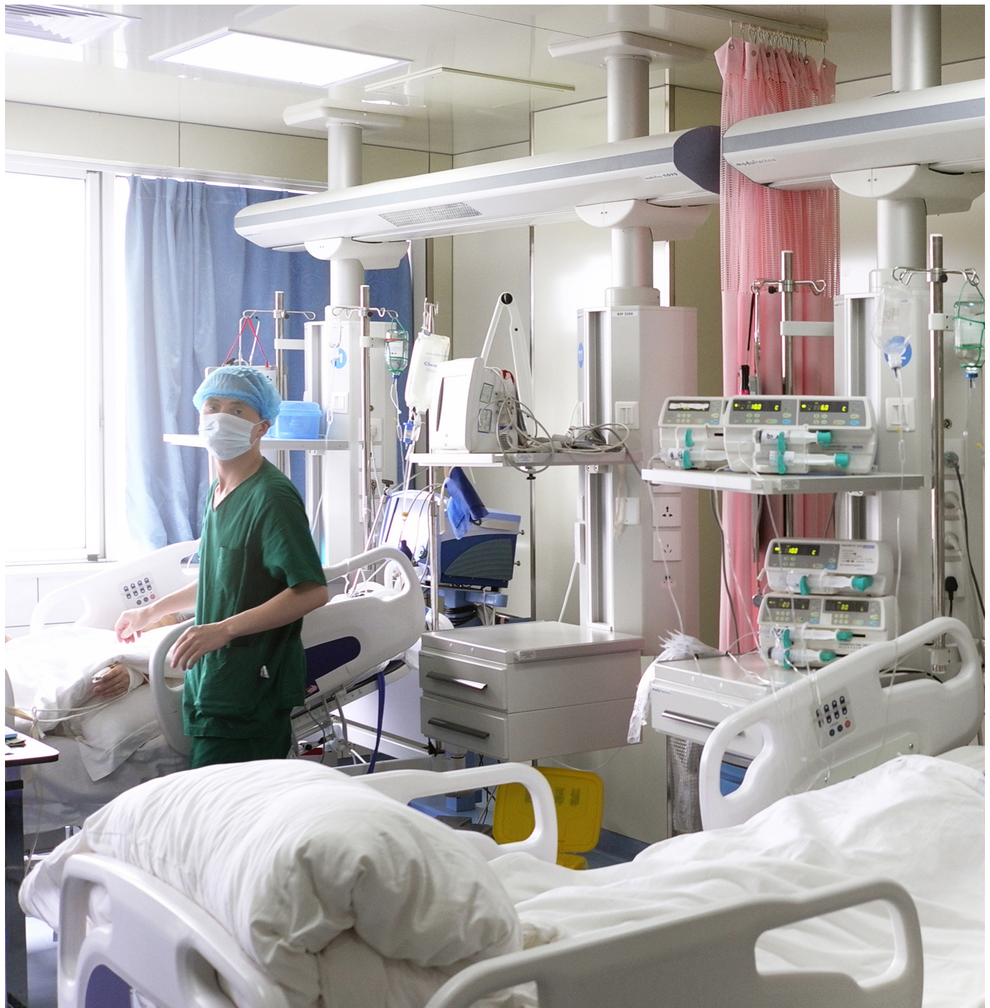


fig. 071 | moduflex nova *Zunyi Hospital, China*

moduflex nova

COMPACT, MODERN AND FLEXIBLE

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Reading light (LED): Output ≙ 23 W
Reading light (T5 fluorescent tubes): Output ≙ 24 W / 2 x 24 W
Indirect lighting (LED): Output ≙ 64 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 54 W
Night light (LED): Output ≙ 4.3 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
CO_2: 5 bar
AGSS: 5 bar

General information
Media current feed: From the top in the support columns
Additional load per supply head max. 115 kg
Optional light control: DALI DIM
Optional indirect RGB lighting: Output ≙ 3 x 39 W

tab. 028

fig. 072 | moduflex nova, BSP 2500 centralised — St. Vincenz-Krankenhaus, Limburg

fig. 073 | moduflex nova

fig. 074 | moduflex nova, BSP 2500 decentralized with extension arm — Elkerliek Ziekenhuis Helmond, Netherlands

moduversa

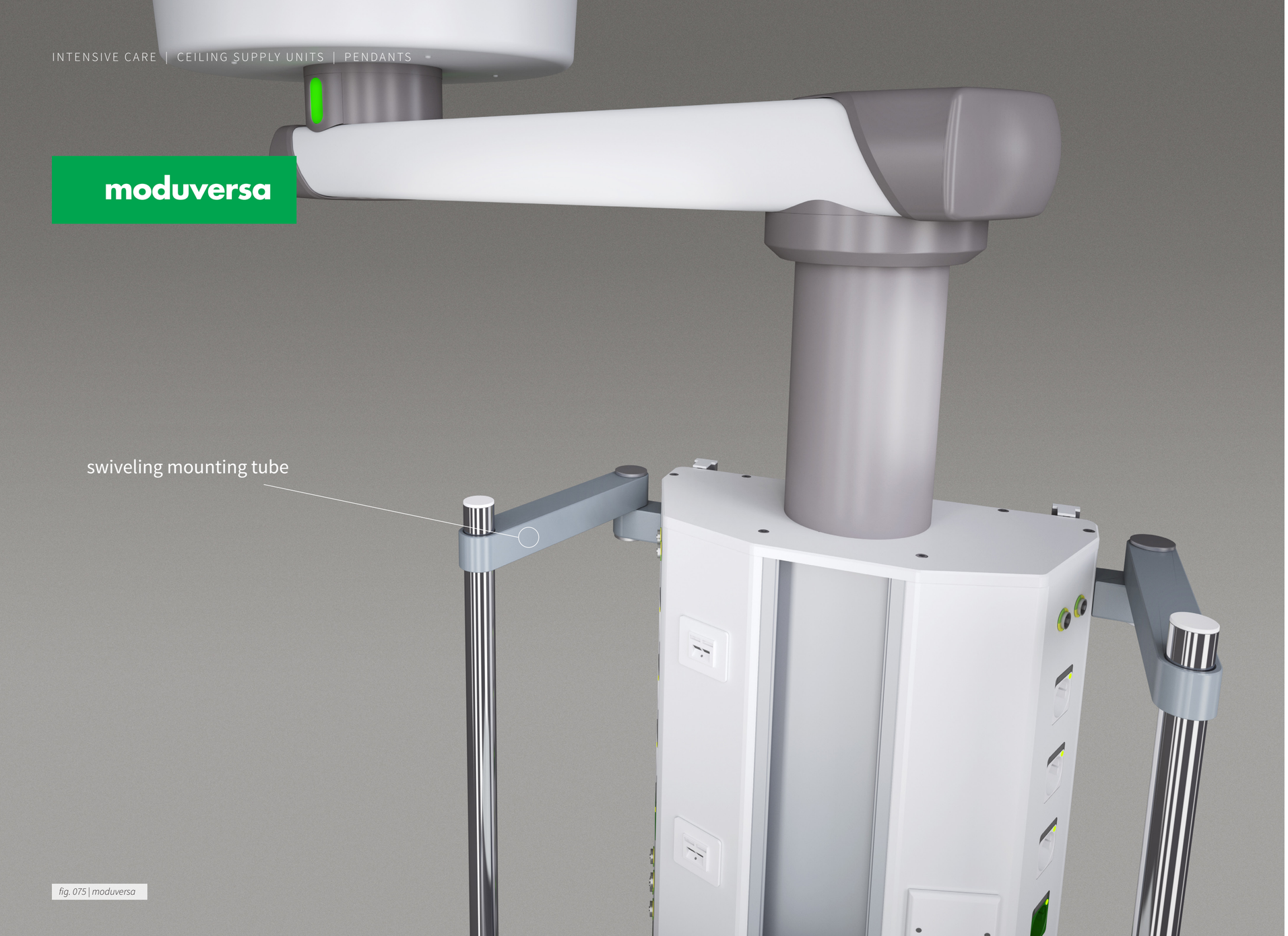


fig. 075 | moduversa

TURN AND TILT IT JUST AS YOU WISH

So you can provide the best possible care for your intensive care patients in every situation, we have developed the flexible ceiling-mounted **moduversa** supply system for heavy loads.

Through its sophisticated bearing and mounting, **moduversa** can be moved into every desired position with little effort and its maintenance-free electromagnetic braking system ensures a long service life and low operating costs.

Based on your requirements we manufacture your **moduversa** as a single or tandem system. You can choose the colour of the supply heads from the RAL/NCS colour scales. Arms can be ordered in either RAL 9010 or 9002. Furthermore, with an arm length of 800 mm or more, **moduversa** can be equipped with LED lighting in the arm. A wide range of accessories such as retractable keyboards, drawers and work surfaces complete the system.

moduversa can be designed as a single or tandem system.

moduversa

TURN AND TILT IT JUST AS YOU WISH

BSP 2500

BSP 2500 can be horizontal or vertical in design. BSP 2500 is used under moduflex nova as the horizontally movable supply trolley.

In combination with our support arm system, the ceiling supply units of the moduversa range are created.

BSP 2500 incorporates all the connections for full low voltage and high voltage current, data and communications technologies and medical gases. Every medical accessory can be adapted through the optional tubes and the front-integrated rails.

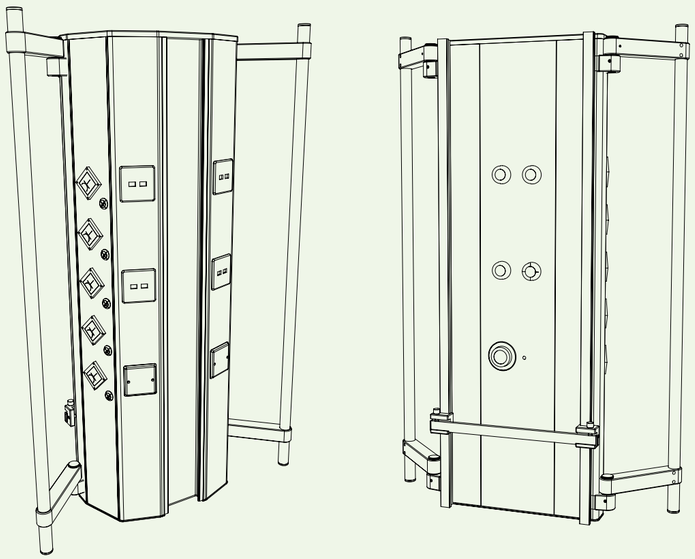


fig. 076

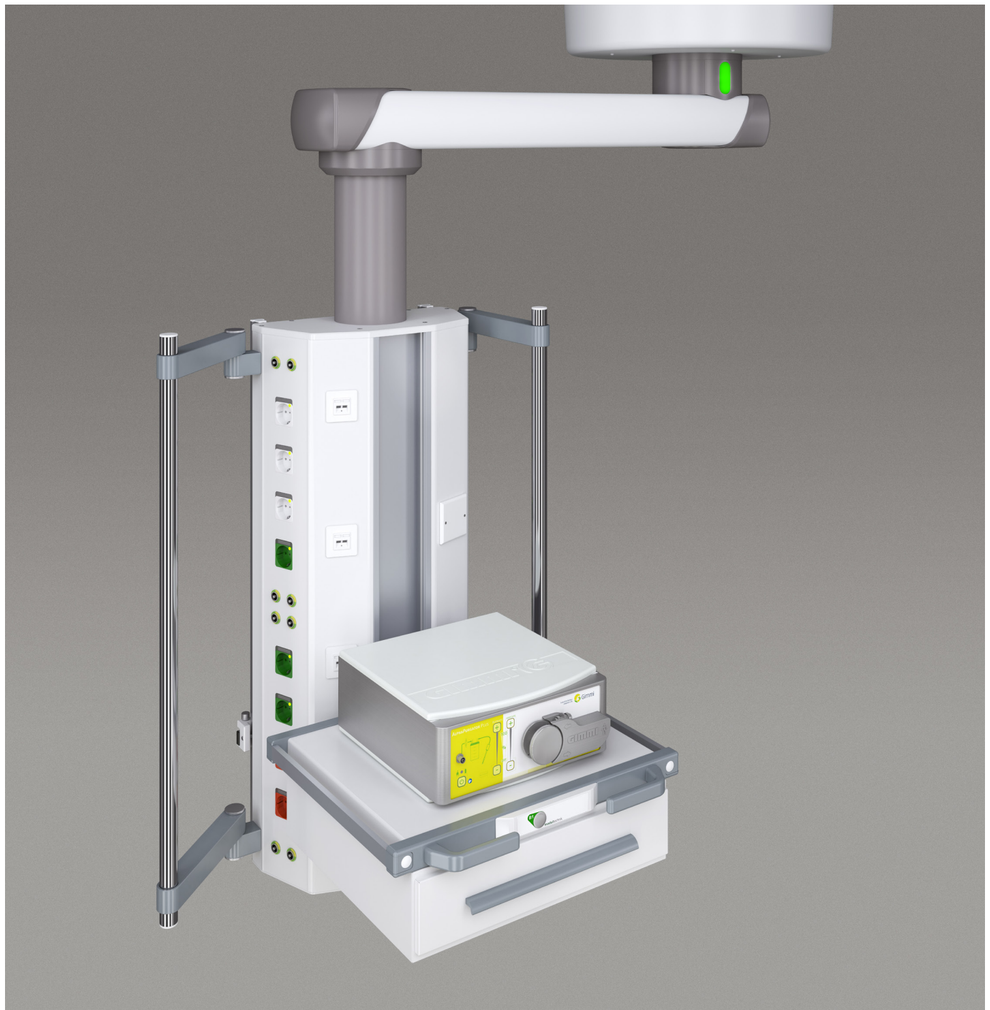


fig. 077 | moduversa with consoles and drawer module

moduversa

TURN AND TILT IT JUST AS YOU WISH

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology indirect RGB lighting
Nominal voltage: DC 12 V
Available design option: From 800 mm arm length

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar
AGSS: 5 bar

Support arm length	max. additional load support arm
600 mm	640 kg / 1000 kg*
800 mm	470 kg / 820 kg*
1000 mm	370 kg / 650 kg*
1200 mm	300 kg / 540 kg*

* Max. additional load XL-variants (optional)

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide* (optical feedback)
Total additional load of supply unit: Project-related

* BrakeGuide cannot be combined with compressed air brake

tab. 029

fig. 078 | moduversa, back view

fig. 079 | moduversa/moduversa plus, tandem version

moduversa plus

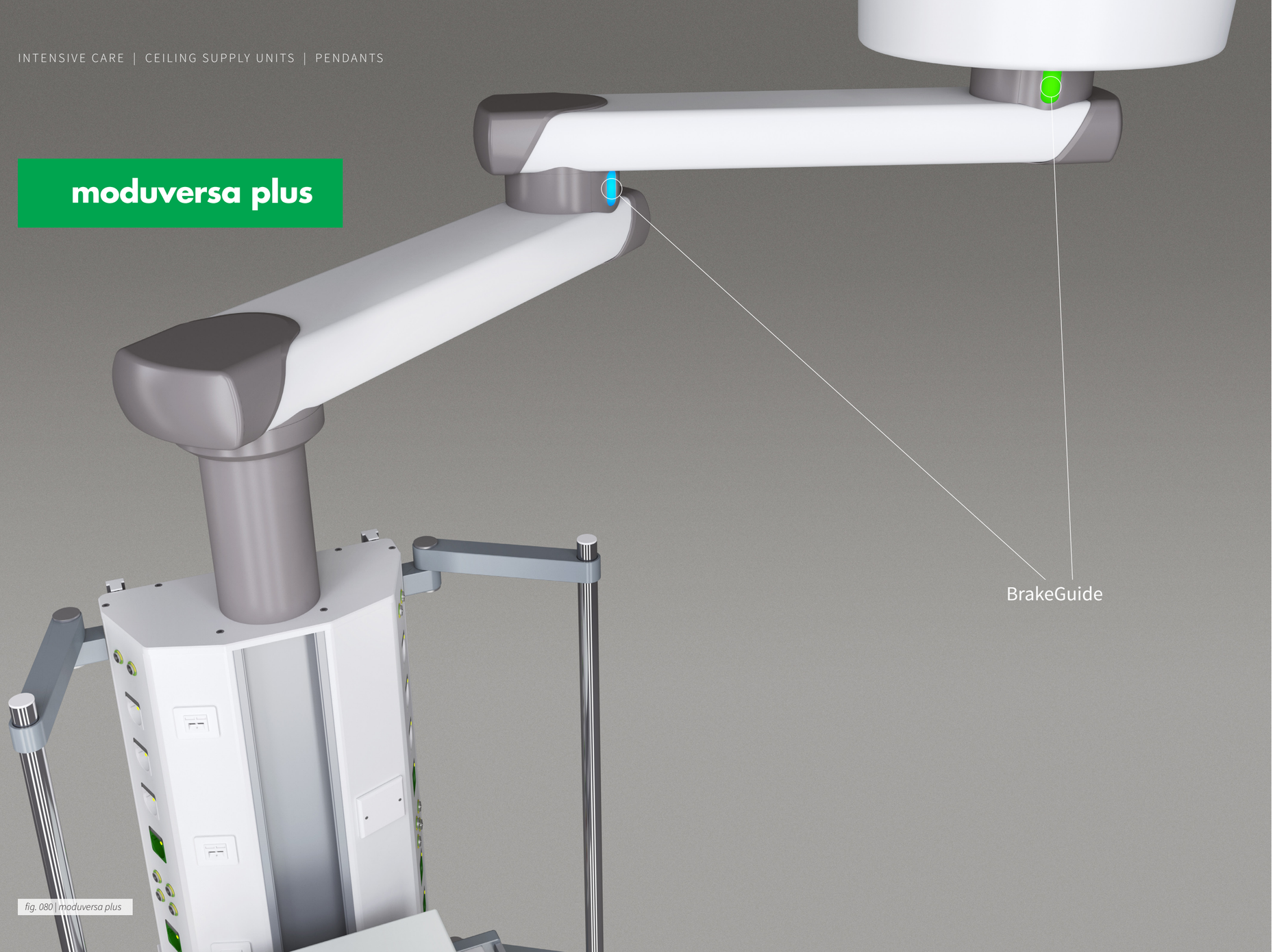


fig. 080 | moduversa plus

MORE FREEDOM OF MOVEMENT THROUGH TWO ARMS

A modern, streamlined design and high carry loads for attaching a wide range of medical apparatus are the distinguishing features of all **moduversa** models. The additional benefit of **moduversa plus** is an additional swivel and a second arm which is used to move the supply head even more flexibly into position. With its possible operating radius of over two metres, any point can be reached with precision.

The inner values are the same as for the **moduversa**, namely extremely light and accurate positioning through a sophisticated bearing and electromagnetic braking system; high attachment capacity for media feeds on the supply head and a carry load which can withstand additional medical apparatus, retractable keyboards and drawer systems without any loss to its mobility.

We comply with your requests as far as the colour scheme of the **BSP 2500** is concerned since the electrostatic powder coating can be supplied in all colours from the RAL/NCS scales. Arms can be designed in either RAL 9010 or 9002.

moduversa can be designed as a single or tandem system.

moduversa plus

MORE FREEDOM OF MOVEMENT THROUGH TWO ARMS

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology indirect RGB lighting
Nominal voltage: DC 12 V
Available design option: From 800 mm arm length

Operating pressure of medical gas technology

Oxygen: 5 bar	Compressed air: 5 bar
Vacuum: - 0,8 bar	AGSS: 5 bar

Support arm length	max. additional load support arm
600 mm / 600 mm	300 kg / 530 kg*
600 mm / 800 mm	260 kg / 470 kg*
800 mm / 800 mm	220 kg / 390 kg*
800 mm / 1000 mm	190 kg / 330 kg*
1000 mm / 1000 mm	170 kg / 300 kg*
1200 mm / 1000 mm**	150 kg / 270 kg*
1200 mm / 1200 mm**	130 kg / 240 kg*
1400 mm / 1100 mm**	240 kg*
1400 mm / 1200 mm**	200 kg*
1600 mm / 1000 mm**	200 kg*

* Max. additional load with XL-extension arm (optional)
** Not available with compressed air brake

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide *(optical feedback)
Total additional load of supply unit: Project-related
* BrakeGuide cannot be combined with compressed air brake

tab. 030

fig. 081 | moduversa plus, back view

fig. 082 | moduversa plus with swiveling mounting tubes

Customized solution

fig. 083 | MEV 8000 *Berlin Charité, Pilotprojekt - Parametrische (T)Raumgestaltung, Germany, © Tobias Hein*

THE INTENSIVE CARE WARD OF THE FUTURE

modul technik starts at the point where other companies hit their limits.

For example for the „Pilot Project - Parametric Dream Room Design“ at Charité Berlin, modul technik has created a unique and customised patient care solution.

The **MEV 8000** installed there fits seamlessly into the planning concept designed by the GRAFT architectural practice and is supporting the philosophy of the entire research project.

This has enabled the effectiveness of this room on the healing process of the patient to be examined undisturbed and users and patients alike benefit from the versatility of our products.

We are pleased to discuss any specific requirements with you. Please challenge us!

Customized solution

fig. 084 | MEV 8000 customized solution

Berlin Charité, Pilotprojekt - Parametrische (T)Raumgestaltung, Germany, © Tobias Hein

fig. 085 | MEV 8000 customized solution

Berlin Charité, Pilotprojekt - Parametrische (T)Raumgestaltung, Germany, © Tobias Hein

OPERATING ROOMS

Reliable air and climate control technology, uncompromising hygiene, uninterruptible care with all media and the highest ergonomic standards – in operating rooms every smallest detail counts. Details which can be found in the medical supply units and the comprehensive accessories from **modul technik**. Together with us you can design your operating rooms to meet the standards of all medical disciplines as well any as customised room conditions. Regardless of whether you require classic OR or versatile and particularly economic OR concepts, we can work with you from the planning phase to commissioning.

OPERATING ROOMS

modufilio

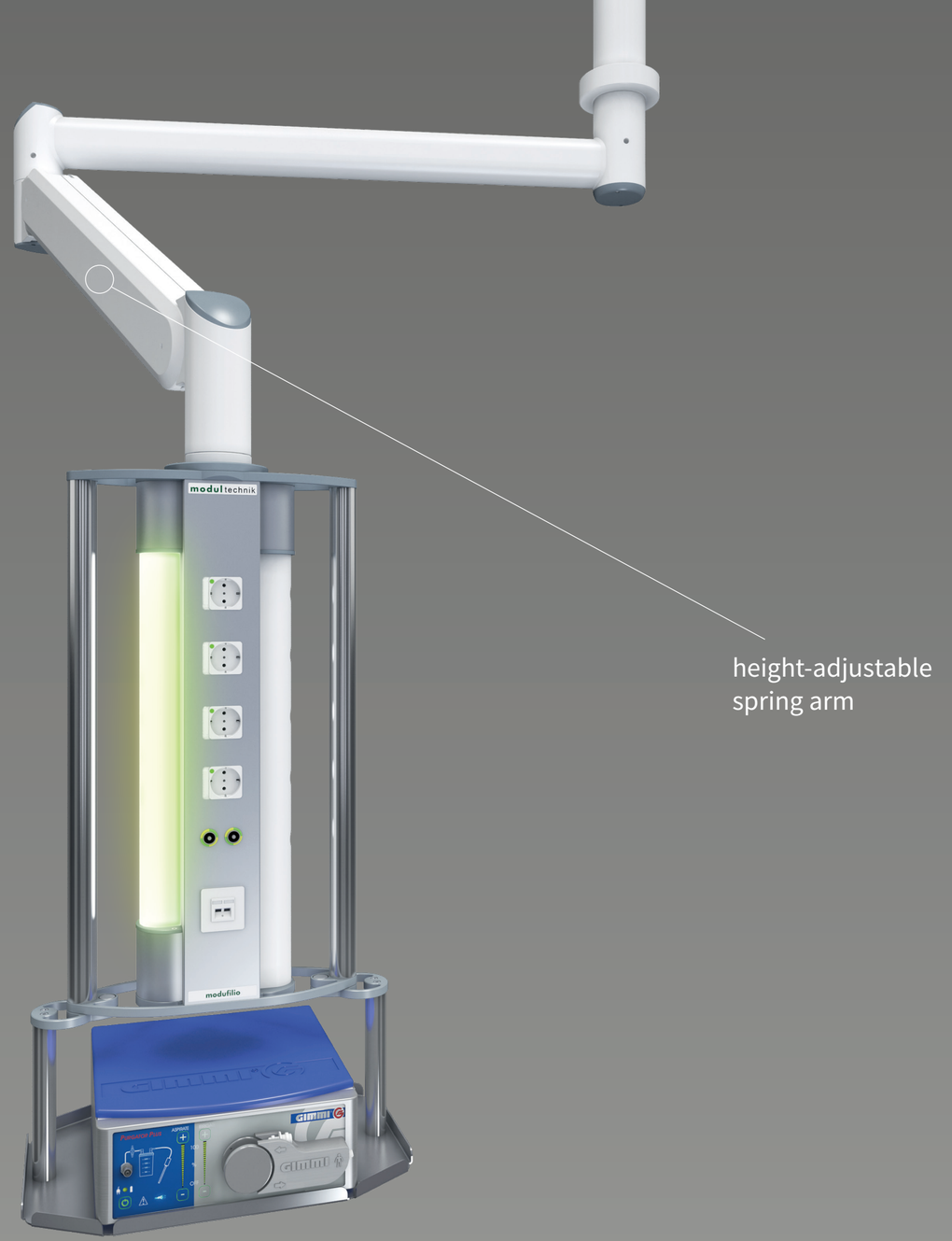


fig. 086 | modufilio

THE COMPACT ALL-ROUNDER – BIG IN A SMALL ROOM

Our “smallest one” is also our latest and is packed full with innovative solutions in its construction, design, workmanship and equipment flexibility.

Whether for use in endoscopy or for outpatient treatment, wherever space conditions are cramped and working requirements are varied and flexible, this ceiling supply unit scores very highly.

The lightweight spring arm of **modufilio** can move the compact supply head into any position in a maximum radius of 2.2 metres around the ceiling mount.

Despite its small size the unit can be equipped with a wide range of options including high voltage and low voltage current, medical gases, data and communications technologies and storage surfaces for medical apparatus.

An LED lamp which can also be supplied in different colours provides additional work area lighting.

modufilio

THE COMPACT ALL-ROUNDER – BIG IN A SMALL ROOM

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
230 V - 240 V / 50 Hz - continuous operation
Protection class I
IP 20 degree of protection

Lighting technology LED at side (optional)
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection cross-section: 1mm² max.
Protection type: IP 54
Lamp output: 2.5 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Vacuum: - 0,8 bar

General information
Minimum opening for cable: 28 mm x 28 mm
Narrowest point (bearing): Ø = 50 mm
Spring ranges: 8 - 16 kg; 15 - 32 kg; 30 - 45 kg
Additional load in support arm: Max. 45 kg
Optional cable management
Optional console

tab. 031

STANDARD DESIGN

High-voltage current technology
4 mains sockets, brand Peha (COMPACTA)
2 potential equalisation sockets (POAG)

Communications technology
1 data socket, RJ 45, 2 pcs, brand Peha (COMPACTA)
1 hollow wall sockets, Ø 68mm

Lighting technology LED, at side
Lamp output ≙ 2,5 W

Medical gas technology
1 gas tapping point oxygen (O^2), brand modul
1 gas tapping point compressed air (Air), brand modul
1 gas tapping point vacuum (Vac), brand modul

General information
Cable management, at side
Console, below
Support head: Length ≙ 720 mm
Double Extension Arm: Length ≙ 2,200 mm
Total additional load: 30 kg

tab. 032

fig. 087 | modufilio with LED-Sidelight and cable management

moduversa-Series

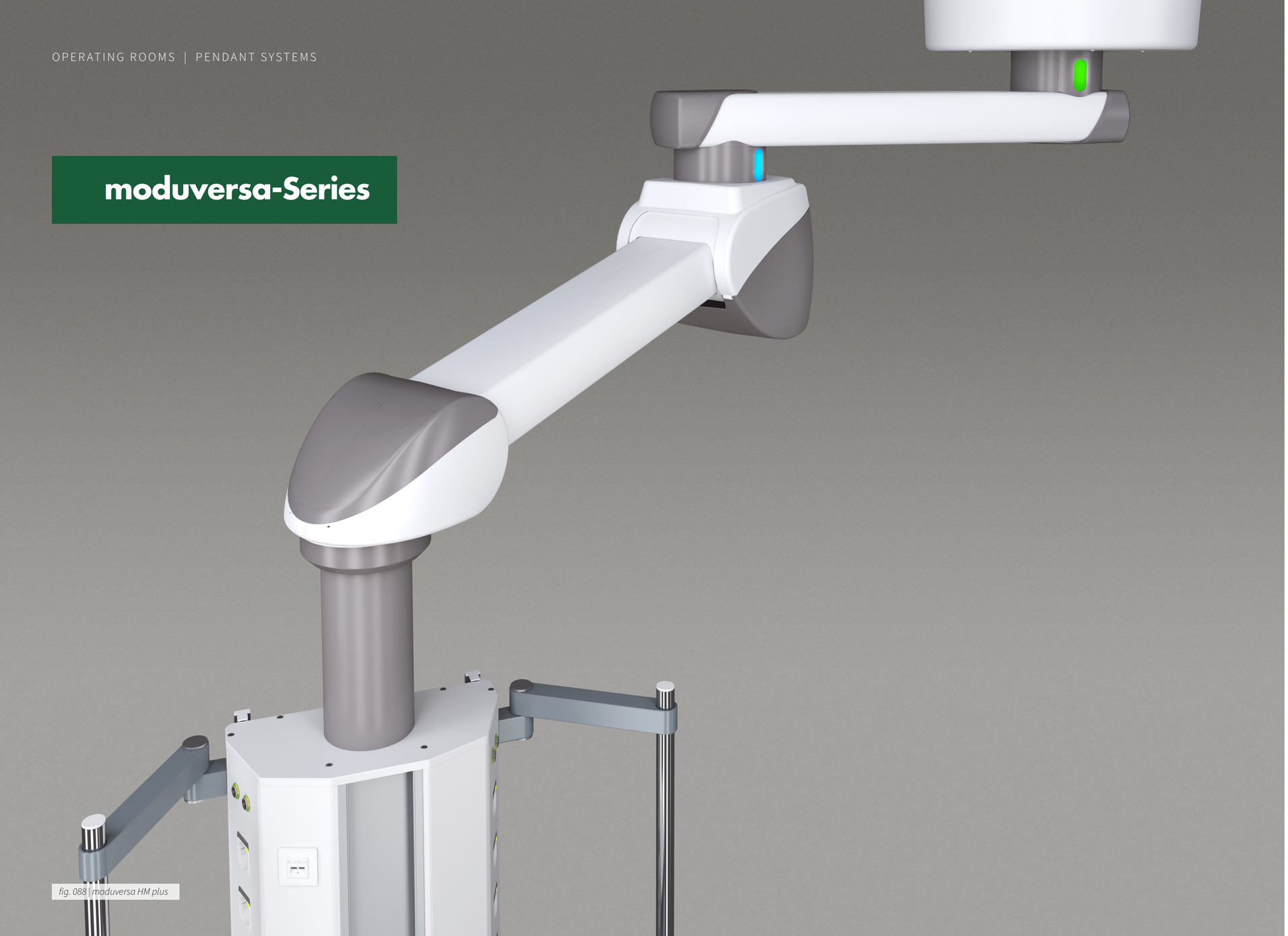


fig. 088 | moduversa HM plus

MODUVERSA – A STRONG FAMILY

The new generation of our ceiling supply units is called **moduversa**. Designed for heavy loads, this product family in a modern look boasts many technical innovations.

Whether with two extension arms, as a tandem unit for extra flexibility in your work area or height-adjustable with a spring- or motor arm – there is a right solution for everyone!

We will do the planning. The result: An ergonomic workplace which meets your requirements.

moduversa

COMPLEX TECHNOLOGY ELEGANTLY PACKED

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology indirect RGB lighting
Nominal voltage: DC 12 V
Available design option: From 800 mm arm length

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Compressed air: 8 bar
Vacuum: - 0,8 bar
Laughing gas 5 bar
CO_2: 5 bar
AGSS: 5 bar
Air-Motor: 8 bar

Support arm length	max. additional load support arm
600 mm	640 kg / 1000 kg*
800 mm	470 kg / 820 kg*
1000 mm	370 kg / 650 kg*
1200 mm	300 kg / 540 kg*

* Max. additional load XL-variants (optional)

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide* (optical feedback)
Total additional load of supply unit: Project-related

* BrakeGuide cannot be combined with compressed air brake

tab. 033

Even the basic model of the **moduversa** range combines all the benefits of the product family for heavy loads. The sleek and elegant design of the support arms in its robust design provides huge assembly capacities for media feeds to the **BSP 2500** supply head.

The maintenance-free bearing system of the swivel joints makes the system easy to swivel and an integrated electro-magnetic brake system facilitates accurate positioning without readjustments. However, on request the system can also be designed to run pneumatically.

The high maximum load means the supply system can be planned for use with nearly all apparatus placements.

moduversa can be designed as a single or tandem system.

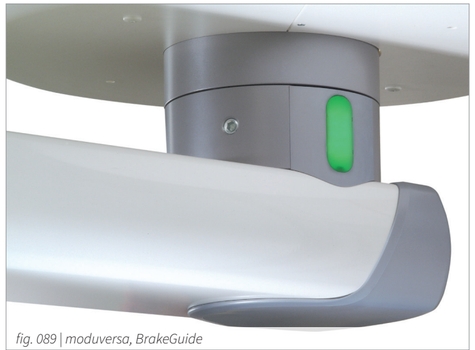


fig. 089 | moduversa, BrakeGuide

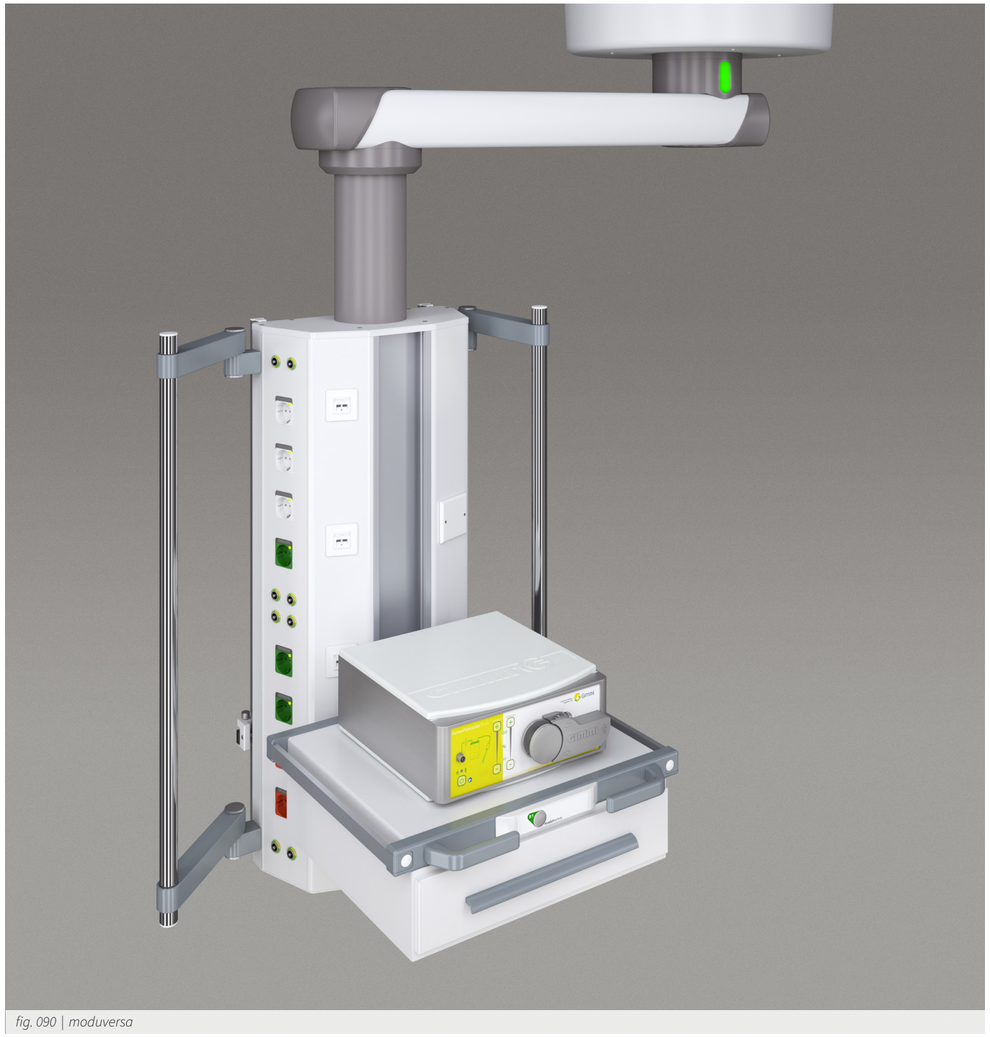


fig. 090 | moduversa

moduversa plus

MORE PRECISION, MORE OPERATING RANGE

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology indirect RGB lighting
Nominal voltage: DC 12 V
Available design option: From 800 mm arm length

Operating pressure of medical gas technology

Oxygen: 5 bar	Compressed air: 5 bar
Compressed air: 8 bar	Vacuum: - 0,8 bar
Laughing gas 5 bar	CO_2: 5 bar
AGSS: 5 bar	Air-Motor: 8 bar

Support arm length	**max. additional load support arm**
600 mm / 600 mm	300 kg / 530 kg*
600 mm / 800 mm	260 kg / 470 kg*
800 mm / 800 mm	220 kg / 390 kg*
800 mm / 1000 mm	190 kg / 330 kg*
1000 mm / 1000 mm	170 kg / 300 kg*
1200 mm / 1000 mm**	150 kg / 270 kg*
1200 mm / 1200 mm**	130 kg / 240 kg*
1400 mm / 1100 mm**	240 kg*
1400 mm / 1200 mm**	200 kg*
1600 mm / 1000 mm**	200 kg*

* Max. additional load with XL-extension arm (optional)
** Not available with compressed air brake

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide* (optical feedback)
Total additional load of supply unit: Project-related

* BrakeGuide cannot be combined with compressed air brake

tab. 034

With **moduversa plus** you acquire additional movement space through its second, swivel arm. Within a radius of over two metres around the ceiling attachment point, you can accurately position the **BSP 2500** supply system at any point in the room. This means that **moduversa plus** is the ideal solution if flexible working is requested and if concurrent horizontal movement of the supply unit is required.

The bearing and the electromagnetic braking system of **moduversa plus** enable the particularly light and precise positioning of the supply head. In this design **moduversa plus** is also maintenance-free and requires no compressed air, which makes the installation easier and saves additional costs.

moduversa plus is also available with a pneumatic braking system as a cost-effective alternative.

On request, **moduversa plus** may be also be designed as a tandem system.

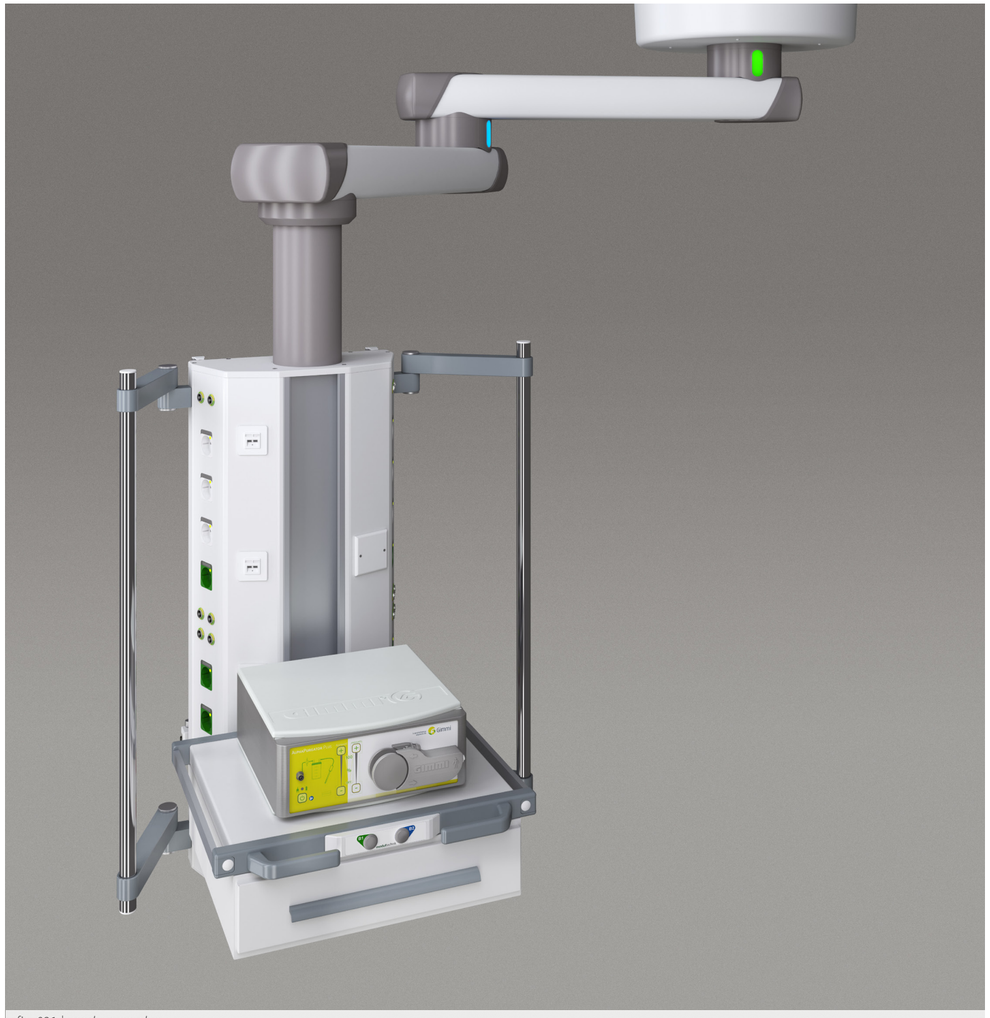


fig. 091 | moduversa plus

moduversa HM

GENTLE POSITIONING WITHOUT JERKS!

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Compressed air: 8 bar
Vacuum: - 0,8 bar
Laughing gas 5 bar
CO_2: 5 bar
AGSS: 5 bar
Air-Motor: 8 bar

Support arm length	max. additional load support arm
1000 mm	150 kg / 250 kg*

* Max. additional load with XL-bearing (optional)

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide *(optical feedback)
Total additional load of supply unit: Project-related
Height-adjustment: Electric motor
* BrakeGuide cannot be combined with compressed air brake

tab. 035

The highlight of **moduversa HM** is the sophisticated bearing system of the joints and particularly in the motor which drives the articulated joint for the vertical positioning.

Through the soft-start drive technology the system starts up extremely gently and moves **BSP 2500** supply head including all the monitors and apparatus attached to it into the desired position without any start-up jerking. No wobbling, no dropping of attached items - only gentle gliding into the desired position.

The electromagnetic braking system has LED lights at each joint which makes correct operation considerably easier. The integrated dimmable LED lighting in the horizontal arm improves illumination of the work area.

The maximum arm load capacity of 150 kg is sufficient for most medical applications.

And by the way, all products in the **moduversa** range have been designed so they also retain their respective position in the event of power failures and can even be positioned by hand.

moduversa HM can be designed as a single or tandem system.

fig. 092 | moduversa HM

moduversa HM plus

MAXIMUM FLEXIBILITY IN THE OR

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology indirect RGB lighting
Nominal voltage: DC 12 V
Available design option: From 800 mm arm length (upper extension arm)

Operating pressure of medical gas technology

Oxygen: 5 bar	Compressed air: 5 bar
Compressed air: 8 bar	Vacuum: - 0,8 bar
Laughing gas 5 bar	CO_2: 5 bar
AGSS: 5 bar	Air-Motor: 8 bar

Support arm length	**max. additional load support arm**
600 mm / 1000 mm	150 kg / 250 kg*
800 mm / 1000 mm	150 kg / 250 kg*
1000 mm / 1000 mm	150 kg / 250 kg*
1200 mm / 1000 mm**	140 kg / 250 kg*
1400 mm / 1000 mm**	140 kg*
1600 mm / 1000 mm**	200 kg*

* Max. additional load with XL-extension arm (optional)
** Not available with compressed air brake

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide* (optical feedback)
Total additional load of supply unit: Project-related
Height-adjustment: Electric motor
* BrakeGuide cannot be combined with compressed air brake

tab. 036

Just as **moduversa HM**, the motorised HM plus also has the soft start system for a smooth positioning in the room and the LED-supported electromagnetic braking system.

Thanks to its second horizontal arm **moduversa HM plus** offers even more flexibility in the exact positioning of the **BSP 2500** supply head. More flexibility is not possible, especially since the maximum operating radius is approximately 2.6 metres around the ceiling mount.

Despite the additional joint, the maximum load capacity is more than sufficient for numerous medical devices, monitors, work tables and drawer blocks.

And by the way, all products in the moduversa range have been designed so they also retain their respective position in the event of power failures and can even be positioned by hand.

On request **moduversa HM plus** can also be configured as a tandem system or combined with other models in the **moduversa** range.

fig. 093 | moduversa HM plus

moduversa HF

FEATHERLIGHT AND ALWAYS ON YOUR SIDE

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Compressed air: 8 bar
Vacuum: - 0,8 bar
Laughing gas 5 bar
CO_2: 5 bar
AGSS: 5 bar
Air-Motor: 8 bar

Support arm length	max. additional load support arm
1000 mm	180 kg

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide*(optical feedback)
Total additional load of supply unit: Project-related
Height-adjustment: Spring force

* BrakeGuide cannot be combined with compressed air brake

tab. 037

Whether you are sitting or standing, **moduversa HF** is always by your side and offers optimum access in every position to all media connections and apparatus on the rotatable **BSP 2500** supply head.

The positionable system has infinite horizontal and vertical adjustments and with an arm length of 1 metre can adapt to every room size and work situation. The maximum arm load capacity of 180 kg is sufficient for most medical applications.

The maintenance-free electromagnetic brake system and the smooth swing arm enable precise positioning in both a vertical and horizontal direction. And here the spring can be set precisely for the respective load. LED signal lamps on the braking system make accurate operation easier.

Like all **moduversa** products, moduversa HF can be designed as a single or tandem system.

fig. 094 | moduversa HF

moduversa HF plus

FLEXIBLE WORKING – AT EVERY POINT IN THE ROOM!

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 115 V - 240 V / 50-60 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology indirect RGB lighting
Nominal voltage: DC 12 V
Available design option: From 800 mm arm length
(upper extension arm)

Operating pressure of medical gas technology

Oxygen: 5 bar	Compressed air: 5 bar
Compressed air: 8 bar	Vacuum: - 0,8 bar
Laughing gas 5 bar	CO_2: 5 bar
AGSS: 5 bar	Air-Motor: 8 bar

Support arm length	**max. additional load support arm**
600 mm / 1000 mm	180 kg
800 mm / 1000 mm	170 kg / 180 kg*
1000 mm / 1000 mm	150 kg / 180 kg*
1200 mm / 1000 mm**	130 kg / 180 kg*
1400 mm / 1000 mm**	180 kg*
1600 mm / 1000 mm**	180 kg*

* Max. additional load with XL-extension arm (optional)
** Not available with compressed air brake

General information
Media current feed: From the top in the support arm
Braking system: Electromagnetic (optional compressed air)
Comfort option: Braking system with BrakeGuide*(optical feedback)
Total additional load of supply unit: Project-related
Height-adjustment: Spring force
* BrakeGuide cannot be combined with compressed air brake

tab. 038

The spring arm of **moduversa HF plus** can be adjusted to the specific load and enables an effortless height adjustment of the **BSP 2500** supply head. The additional swivel arm ensures horizontal flexibility.

This enables the system to position itself through infinite precision adjustments at every point within the operating radius of 2.6 metres. Here the user is supported by an electro-magnetic braking system which through LED signal lamps makes accurate operation easier.

At the maximum arm length of 2.6 metres, the additional load on the arm of the **moduversa HF plus** is up to 180 kg.

The LED light integrated into the swivel arm ensures optimum illumination of the work area.

Like all moduversa products, **moduversa HF plus** can be designed as a single or tandem system.

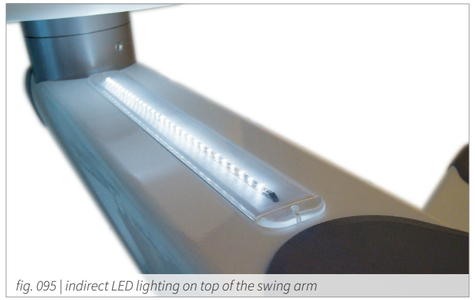


fig. 095 | indirect LED lighting on top of the swing arm

fig. 096 | moduversa HF plus

DVE 5500

fig. 097 | DVE 5500

ONE SUPPLY UNIT – ENDLESS POSSIBILITIES

With **DVE 5500 modul technik** presents a ceiling supply unit which can adapt to every working and room situation.

The compact and connection-ready design which can be equipped in any combination with high voltage and low voltage current, communications and data connections and medical gases, is the winning factor for this supply unit.

However, the particular strengths of the **DVE 5500** are in its versatility, be it in its horizontal or vertical design, rigid mounting or rotation up to 330°. Whether as a pure supply unit equipped with carrier tubing for medical apparatus and storage with drawer blocks, **DVE 5500** is always focused on your needs and requirements and never vice versa.

DVE 5500

ONE SUPPLY UNIT – ENDLESS POSSIBILITIES

TECHNICAL DATA

(country-specific differences possible)
Further techncial data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Compressed air: 8 bar
Vacuum: - 0,8 bar
Laughing gas 5 bar
CO_2: 5 bar
AGSS: 5 bar
Air-Motor: 8 bar

General information
Media current feed: From the top in the support columns
Total additional load of supply unit: Project-related
Rotatable option: By 330°
Location of supply unit: Horizontal or vertical

tab. 039

fig. 098 | DVE 5500

fig. 099 | DVE 5500

fig. 100 | DVE 5500 with mounting tubes and console

OP 3800

fig. 101 | OP 3800

THE BRIDGE TO THE OR OF TOMORROW

With **OP 3800 modul technik** provides you with a fully-integrated OR medical care system, since as well as the integrated connections for high voltage and low voltage current, medical gases and data and communications technologies, with the circulating air flow between the media bridge and ceiling, a disruption and turbulence-free laminar air supply is integrated into the system.

The media bridge is equipped according to your individual specifications and requirements. We deliver the **OP 3800** connection-ready and assembled. Maintenance costs are also minimised through the rigid tubing up to the tapping points for medical gases.

You can even choose the shape of the **OP 3800**. In addition to the standard rectangular design, it can also be supplied as a U–shaped or L-shaped design.

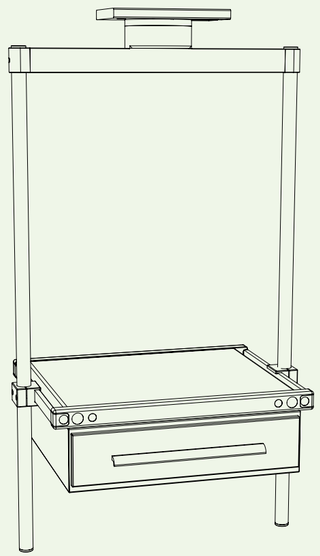
Your additional advantage is that with the **OP 3800** you retain your flexibility regarding any later expansion to the Hybrid-OR. Retrofitting of cables and connections for imaging procedures does not pose any problem at all.

OP 3800

THE BRIDGE OF THE OR OF TOMORROW

GW 2500

The GW 2500 apparatus trolley is used as a carrier system for moduflex 2500 and the OP 3800 media bridge. Medical apparatus can be freely positioned along the height-adjustable consoles. The trolley is continuously braked by a manual friction brake.



GW 3600

In addition to GW 2500, the inner running GW 3600 can be used on the OR 3800 in order to incorporate more material into the work place.

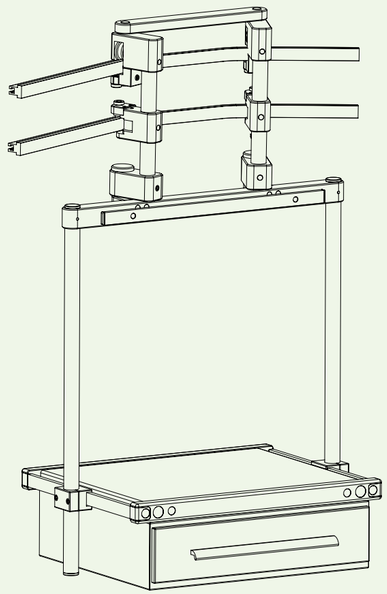
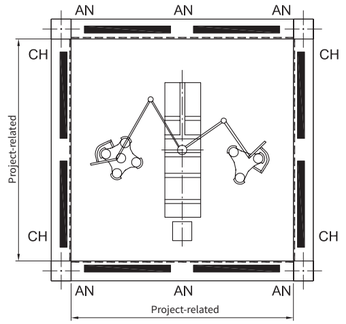


fig. 102

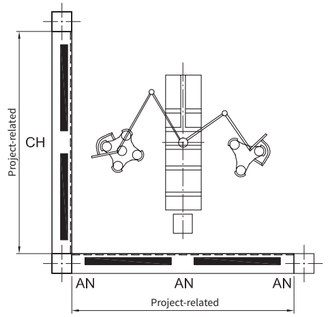
fig. 103 | OP 3800, example of equipping *St.-Johannes-Hospital Dortmund, Germany*

OP 3800

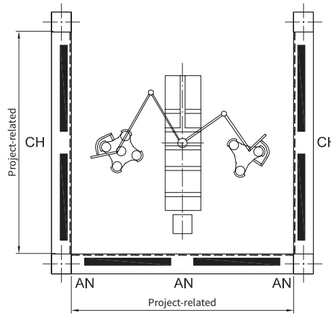
THE BRIDGE OF THE OR OF TOMORROW



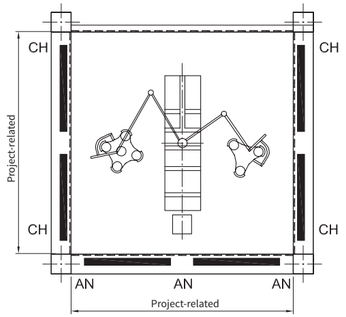
Typ 1
(4-sided)



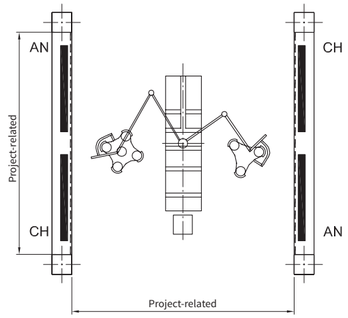
Typ 2
(L-shape)



Typ 3
(U-shape)



Typ 4
(4-sided foot side: IV 1054)



Typ 5
(2-sided)

LEGENDE

AN	=	Anaesthesia
CH	=	Surgery
--	=	Glass shield
▬	=	Indirect lighting

fig. 104

fig. 105 | Media bridge OP 3800 with green lighting for use in endoscopy

OP 3800

THE BRIDGE OF THE OR OF TOMORROW

TECHNICAL DATA

(country-specific differences possible)
Further technical data and design options on request

Electric specifications
Nominal voltage: 230 V - 240 V / 50 Hz - continuous operation
Protection class: I
Protection type: IP 20

Lighting technology
Nominal voltage: 230 V - 240 V / 50 Hz
Protection class: I
Connection type: Plug connection
Connection cross-section: 1.5mm² max.
Protection type: IP 20

Work place lighting (LED): Output ≙ 23 W
Work place lighting (LS-tubes T5): Output ≙ 24 W
Indirect lighting (LED): Output ≙ 80 W
Indirect lighting (T5 fluorescent tubes): Output ≙ 2 x 54 W

Operating pressure of medical gas technology
Oxygen: 5 bar
Compressed air: 5 bar
Compressed air: 8 bar
Vacuum: - 0,8 bar
Laughing gas 5 bar
CO_2: 5 bar
AGSS: 5 bar
Air-Motor: 8 bar

General information
Media current feed: From the top in the support columns
Additional load per apparatus trolley: Max. 120 kg
Optional light control: DALI DIM
Optional indirect RGB lighting: Output ≙ 3 x 39 W

tab. 040

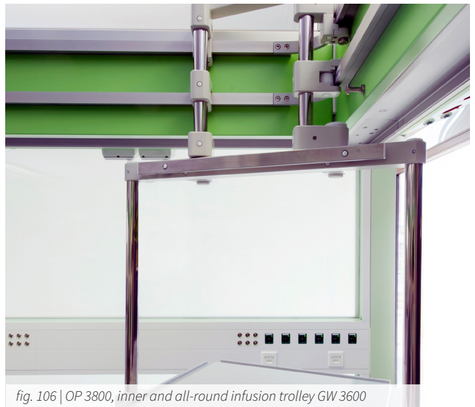


fig. 106 | OP 3800, inner and all-round infusion trolley GW 3600

fig. 107 | OP 3800, rotary switch for GW 3600

fig. 108 | OP 3800

Hybrid OP

fig. 109 | OP 3800, Hybrid-Solution *Krankenhaus der Barmherzigen Brüder Trier, Germany*

THE NEXT GENERATION OF OPERATING ROOMS

More and more hospitals are taking the decision to expand individual operating rooms to the Hybrid-OR. In addition to economic benefits, the combination of traditional OR techniques and imaging procedures enable a more diverse usage and far-reaching interdisciplinary collaboration in the operating room.

With the Hybrid-OR system variant of the **OP 3800** system, **modul technik** is presenting both a proven and at the same time innovative solution that is already in widespread use.

Based on the ceiling system which includes all the supply connections, we develop a Hybrid-OR system totally customised to your requirements from a single source.

This also means that we place great emphasis on the ergonomic requirements and create optimum working conditions for the entire OR team.

Plan your Hybrid-OR with **modul technik**. We will be pleased to present our reference sites to you.

Monitor carrier systems

fig. 110 | Monitor carrier system Acrobat 2000

APPROPRIATE MONITOR SUPPORT ARM SYSTEMS

Our comprehensive range of monitor support arms has the appropriate model for every requirement, regardless of whether loads are one or forty kilograms, or whether they are wall or ceiling-mounted and also on the moduversa systems.

We utilise the proven Acrobat and Onda Space product ranges which stand out due to their high-quality materials, smooth bearings, precise and stable positioning together with easily accessible internal cable feeds.

OTHER APPLICATION AREAS

Reliable medical technology, the best working conditions for medical staff and a pleasant atmosphere for patients always go hand in hand at **modul technik**, which together with the modular design of our systems creates optimum solutions for every area of application. And this applies equally whether they are to be used in a hospital, in senior or palliative care, emergency admissions, outpatient or in dialysis treatments. Your additional benefit is that most of our products can be used in different treatment and care areas which increases the flexibility of your space usage.

OTHER APPLICATION AREAS

Senior Care

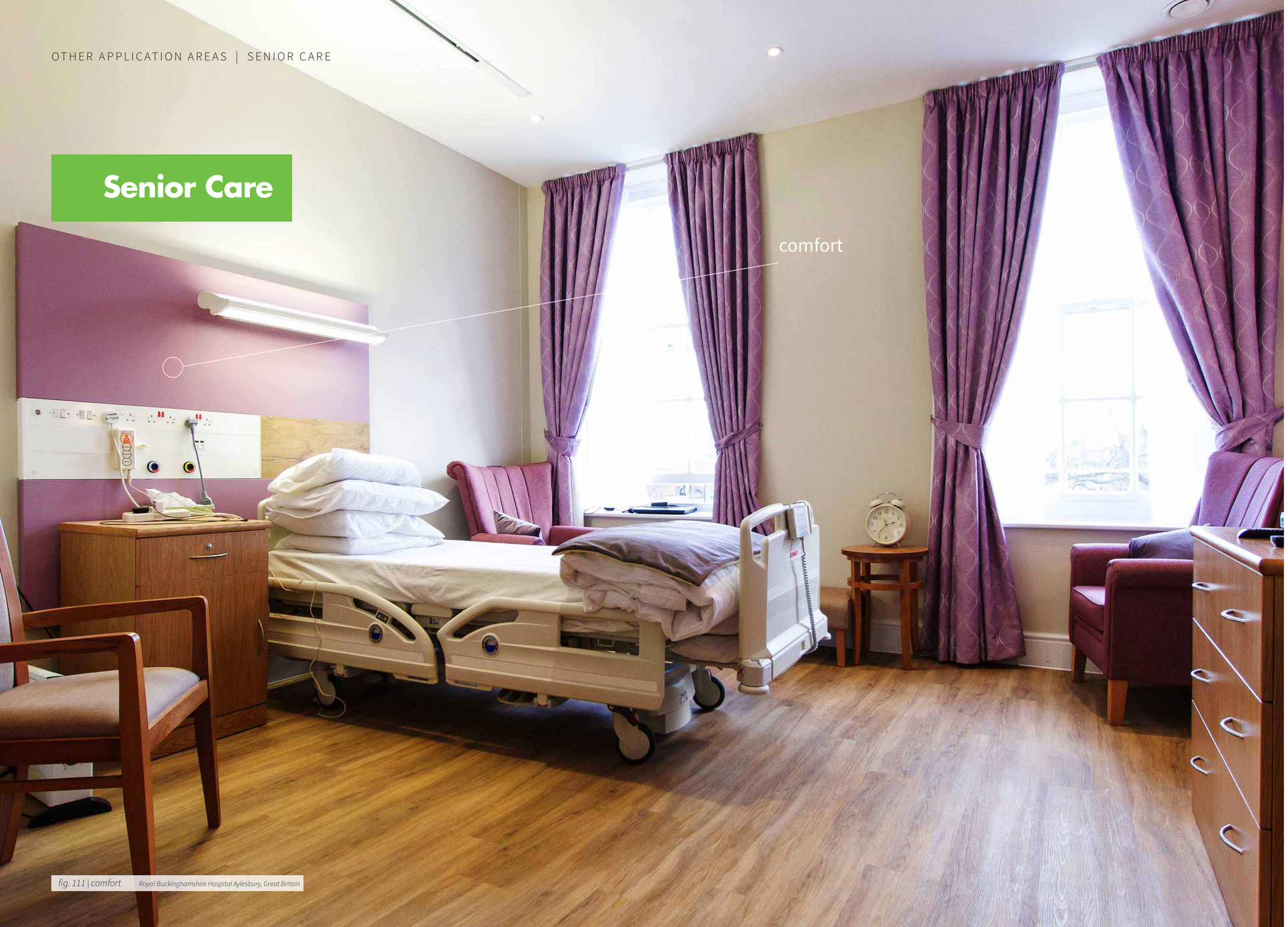


fig. 111 | comfort *Royal Buckinghamshire Hospital Aylesbury, Great Britain*

SENIOR CARE
WITH THE FEELING OF HOME

Good senior care should provide those persons in need with their individual living space where they can live in dignity and with self-determination. At the same time staff working conditions should enable optimised, patient-facing and efficient care. What may sound simple at first glance, is a major challenge, especially when it comes to furnishing and equipping care rooms.

With the ergonomic systems which are also designed for their comfort, our “feel at home” range enables you to easily overcome this challenge.

A cool nursing home environment is transformed into a comfortable atmosphere. Materials, colours, light and design reflect individual tastes and the sophisticated technology disappears from view, yet is still always available.

All products in the “feel at home” range can also be equipped with the bioactive Visual Timing Light. Particularly amongst residents with depression or dementia, this contributes significantly to activity and psychological well-being.

And last but not least care homes using modul technik solutions create added value for residents and their family-members.

Our product recommendations for use in senior care:

- **comfort**
- **ambient cube**
- **MEV 8000**
- **VIP 2000**

Palliative Medicine

fig. 112 | MEV 8000

THE INDIVIDUAL AT THE CENTRE

“High-person, low-technology” is one of the principles of palliative medicine. However, necessary pain care, symptom monitoring, parenteral nutrition or oxygen supply require the use of state-of-the-art medical technology in the immediate vicinity of the patient.

At the same time, however, the well-being of the patient and his/her encounters with family-members and care-givers should not be impaired by a sterile hospital atmosphere or disruptive technology.

You can fulfil both requirements with the medical supply units from **modul technik**. Warm colours, decorative frames, wood surfaces and variable light create a personal and atmospheric room design.

Nursing staff also experience the best possible working conditions and have access to all the necessary connections and aids.

The individual at the centre – with **modul technik** this applies both to patients and staff!

Our product recommendations for use in palliative care:

- **MEV 8000**
- **VIP 2000**

Dialysis

fig. 113 | IV 1054 DIA

IV 1054 DIA – EVERYTHING YOU NEED FOR DIALYSIS

IV 1054 is not only an individually equipped supply unit for high voltage and low voltage current, medical gases, data and communications technologies.

A second area, separated from the other media, also invisibly and safely accommodates the entire tubing and connection system of your dialysis with the supply and disposal of dialysis concentrate, permeate and wastewater.

A compact, hygienic and reliable solution in one single part and for which you can choose the colour yourself to match every furnishing colour scheme.

Emergency Admission

fig. 114 | IV 1054 in combination with modulux pure and FS 4500

AS DIVERSE AS YOUR DAILY CHALLENGES

Medical supply systems which are flexible in their use - from basic to intensive care - are at the heart of emergency admissions.

Whether for the treatment of mobile or lying patients, for monitoring solutions and the integration of diagnostic imaging or for trauma rooms,

The **modul technik** product range comprises specialised solutions for all emergency admission treatment areas. The comprehensive accessories for carrier systems, computer workstations, assemblies for infusions, equipment trolleys, drawers, etc. complement the supply units making them fully equipped work areas.

Because all the systems are compatible with each other, the accessories can be combined in many different ways and used in a wide range of supply systems – thereby increasing your flexibility.

Our product recommendations for use in emergency admissions:

- **IV 1054-series**
- **IVV 1054**
- **modufilio**
- **moduversa**

ACCESSORIES

The comprehensive **modul technik** accessories programme enables individual adaptation of medical supply units for the requirements of each workplace.

Medical supply units can therefore be adapted to new local conditions either during the planning phase or retrospectively.

As a result of the uncomplicated and varied structure of **modul technik** accessories programme, there is a variety of possible combinations.

ACCESSORIES

Accessories

fig. 115 | moduflex nova, equipped with various accessories for intensive care

ACCESSORIES

ACCESSORIES FOR ALL AREAS OF USE

Information on our range of accessories is contained in a separate accessories catalogue. It can be found on our website **www.modul-technik.de**. We will be happy to send you a copy on request.

Which accessories do you need for your work place?

- Individual accessories, tailored to our medical supply units
- docking trolley
- indirect light / reading light
- consoles and drawer module
- equipment rails
- Vertical support tubes
- cross arm for medical accessories
- Infusion bottle holder
- separators
- Catheter baskets
- cable management
- examination light
- socket outlet boards
- connecting devices for medical gases
- monitor support arm systems

modul technik

Medizinische Versorgungssysteme und Geräte
medical supply systems and equipment

CE 0044

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