

TRUMPF

Ceiling mounted support systems
in the hospital of the future



INNOVATIONS FOR PATIENT CARE

TRUMPF



TRUMPF

Ceiling mounted support systems – ergonomics and safety for staff and patients

Our aim:

optimum working conditions and premium patient care.

Our basic principle in developing ceiling mounted support systems? To provide your patients and your staff with the best and safest medical care possible. Therefore patients' and users' needs are top most priority.

TRUMPF system solutions guarantee to fulfill the demand-oriented workstation design and ideal room planning. We optimize your workflow and the quality of your operational performance. The result: the greatest possible safety for patients and users alike under optimum working conditions.

Maximum flexibility

Extensive modularity for individual layout of workstations around the patient

Optimum ergonomics

Functionality and safety at the workstation due to cockpit design (overview at a glance)

High performance

Extremely large operating radius and high pay loads enable perfect and space-saving solutions

Future-oriented performance

Highest safety, easy upgrading and highly cost efficient

Competence and experience

With more than 40 years of experience in ceiling mounted workstation design and continuous interaction with world-wide hospitals





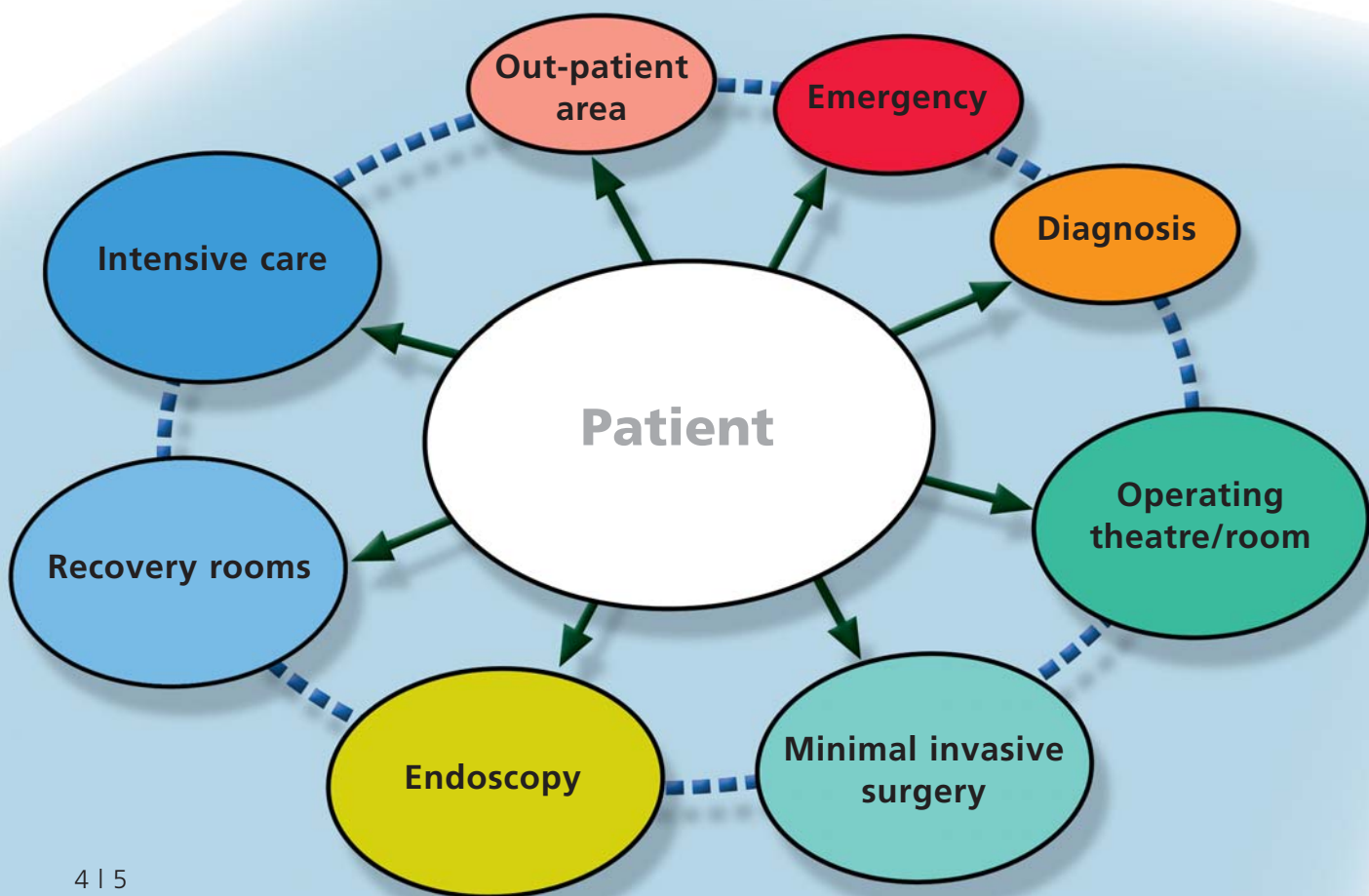
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Ceiling mounted support systems – solutions for optimum patient care

Networking – the basic principle of our thought.

From the admission to the discharge, we analyze the patient's route through the hospital and the associated work sequences. The development of our products is always focused on these integral procedures. Thus Patient Process Optimization (PPO) will ensure high-performance workstations and ideal patient care.

- Individual room planning is the key to a clear layout of the workstation and optimized workflow
- Reduced stress due to ergonomic design and process-orientated product (user friendly)
- Inter-ward solutions minimize the hospitalization of the patient and minimize operating costs
- The improved usage of resources – such as human, time and investments resources – will lead to tangible and measurable efficiency



Emergency ward – variable use in inter-disciplinary applications

Ideal solutions for the decisive first-aid.

With TRUMPF ceiling mounted support systems, you react most optimally to the changing requirements in emergency cases:

- Space-saving and flexible solutions for life-sustaining systems
- Flexible mounting of equipment depending on the kind of surgery
- Any equipment ready to hand for immediate reaction and preventive measures
- Safe and fast transport of patients



- 1 *Clearly laid-out room design and equipment arrangement*
- 2 *Space-saving solutions – any equipment is easy to reach*

Anaesthesia / surgery – customized solutions in differentiated environment



Medical cockpit for ergonomic working and safe patient care.

Reliable monitoring of the vital system as well as fast and safe access to the equipment: TRUMPF ceiling mounted support systems enable integration of anaesthesia units and surgical equipments (provision by original manufacturers). Every device is positioned individually with a single movement.

Maximum flexibility

- Variable and space-saving use of the operating theatre/room due to high modularity
- **Anaesthesia Lifting System** easy positioning and safe operation of the anaesthetic device at different working heights
- Large number of modular shelves for individual arrangements of devices of different size
- The versatile **IMEC (Interdisciplinary Medical Equipment Carrier)** solution for efficient patient conveyance

Highest safety

- Short cables and tubes due to integrated gas/electrical media connections inside the support head
- Floor free of clustered cables/gas hoses: safe, simple and better accessibility for the users and patient
- High headroom clearance due to good height adjustment of the arms
- Safe positioning and absolutely steady position by innovative **Active Brake System**
- One-hand operation: maintenance-free rolling bearing and ergonomic operating handle enable fast change of parking and working position



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- 1 *IMEC from the operating theatre/room to ICU for efficient workflow*
- 2 *Flexibility in the operating theatre by separation of surgical and anaesthetic workstations*
- 3 *Precise docking and motor-driven height adjustment of anaesthetic equipment*
- 4 *Ideal arrangement of devices due to extreme height adjustment of the arms*

Minimal invasive surgery / endoscopy – future-oriented workstations for individual requirements



Modular concept in endoscopy (pioneering surgical techniques).

Modern surgery requires increasing varieties of medical equipment for the various surgical procedures. Optimum use of space and individual positioning of appliances lay the foundations for ergonomic working practices.

Intelligent use of space

- Individual workstation design due to high modularity
- Future-oriented safety by simple upgrading of the systems
- Special solutions for integrated workstations in the operating theatre/room (e.g. OR1, RiwoNet, EndoAlpha)
- Space-saving possibilities of combination with surgical and examination lamps
- **Endoscopic Lifting System**
Fast and easy change of equipment trolley for universal use in different applications

Ergonomics and workflow

- Mounting and safe connection of all peripheral equipment
- Media connections (gas/electrical) close to the equipment
- Free access to the equipment and patient: no hoses or cables on the floor

Flexibility

- Precise and fast positioning of screens and monitors by height-adjustable carrying arms
- Ideal view in working position, maximum headroom clearance in parking position
- Ergonomic and non-reflective positioning of the screens and monitors
- Shelves adaptable in height and depth for placing several devices of different size



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- 1 Individual arrangement of equipment in MIS and Endoscopy
- 2 Intelligent use of space: good view of the screens
- 3 Height-adjustable pendant for loads up to 180 kg
- 4 Fast motorised height adjustment up to 700 mm

Intensive care / recovery rooms – easy and fast access to patient and equipment



Medical cockpit design in the intensive care workstation.

The medical cockpit design (overview glance) integrates all necessary functions in a very confined space: care, monitoring and documentation. It enables free access to the patient from all sides, clear view to monitoring screens and free access to the equipment.

Fast and safe care

- Free access to patients due to intelligent arrangement of the equipment
- Safe patient monitoring due to ideal positioning of the monitors
- Variable use of common ventilators in different rooms due to special **Ventilator Docking System (VDS)**
- Removable infusion module for safe patient transport and optimum workflow (optional) with **IMEC (Interdisciplinary Medical Equipment Carrier)**

Technology for every individual application

- Space-saving solutions for full integration of infusion management systems, patient monitoring and respiration system
- Modular and upgradeable support heads ensure future capacity
- Fast and safe operation due to **Active Brake System**
- Numerous media connections (gas/electrical) in direct vicinity to the system components for short cable duct

Efficient use of space

- Flexibility in the workstation design due to high modularity
- Simple change of infusion and monitoring side for patient repositioning (e.g. decubitus prophylaxis)
- Integration of communication equipment (e.g. nurse call, documentation, data sampling) and media connections
- Modular accessories, e.g. shelves (to be mounted at front and back of the support head), equipment rails, rod holders, drawers



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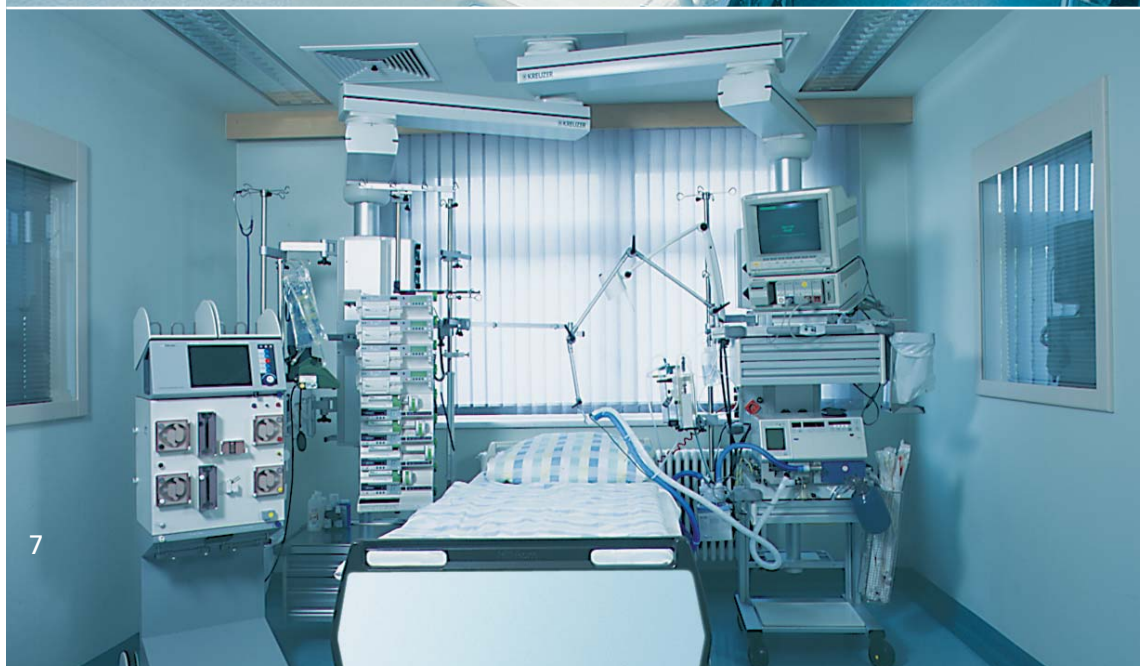
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- 1 Medical cockpit design for quick overview monitoring
- 2 Free access to head end for easier handling in case of emergency
- 3 uniPORT: filigreed structure with new functions and colour concepts
- 4 IMEC for optimum workflows in interdisciplinary patient conveyance

- 5 Space-saving solutions and free access to patients
- 6 Combination with examination light
- 7 Flexible use of ventilator in different rooms thanks to intelligent dock-on trolley



Neonatology – Place for personal care and technology

- 8 *Free access to the patient – clearly laid-out and flexible arrangement of the equipment in the room*
- 9 *Space-saving solutions for multiple-bed rooms*
- 10 *The integrated design provides more space to cater for the presence of relatives*
- 11 *uniPORT: new colour concepts create a pleasant atmosphere*



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Quality personal care at the right moment.

In particular in the neonatology ward, human contact plays a decisive role for faster recuperation with the support from the staff, parents and patients. At the same time, optimum medical care must be ensured with the medical staff concentrating on the patient instead of the equipment.

- Efficient use of space: Large swivel ranges of the systems create space for emotional care
- Ideal positioning of equipment and instruments to react safely and effectively in case of emergency



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- Easy handling due to **Active Brake System**
- Integration of infusion systems, monitoring screens and ventilator enables fast and unimpeded access to all sides of the patient

- Docking equipment trolley with integrated accessories drawer for flexible use of respirators
- New colour concepts for pleasant atmosphere at the paediatric ward

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