

TRUMPF KREUZER

Ceiling mounted support systems
in the hospital of the future



INNOVATIONS FOR PATIENT CARE

TRUMPF



TRUMPF KREUZER

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 KREUZER 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 results: minimum hospitalization, – reduced costs, – higher productivity.

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



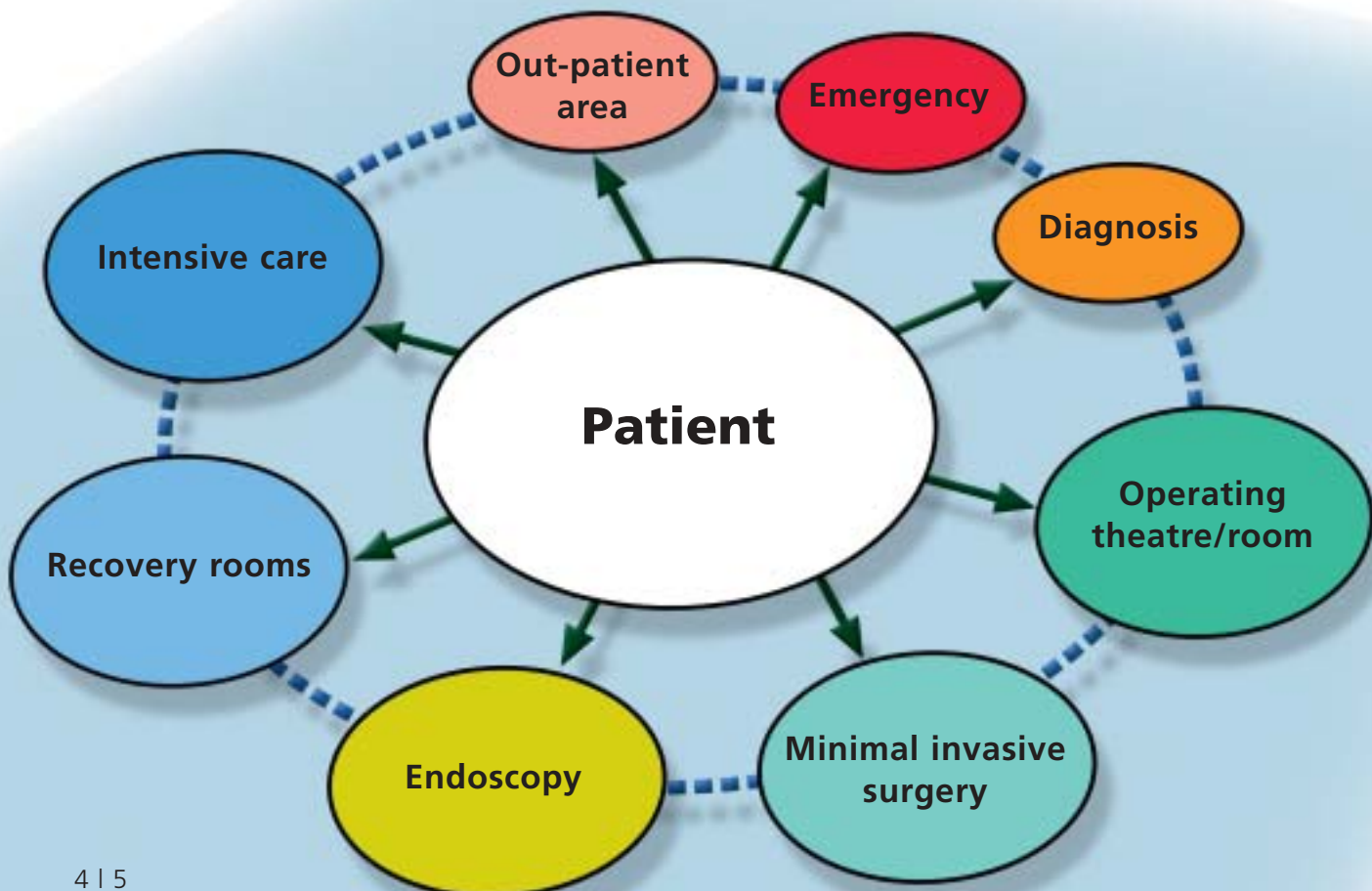


TRUMPF KREUZER ceiling mounted support systems – solutions for optimum patient care

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 KREUZER 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 equip-
ment depending on the kind
of surgery
- Any equipment ready to
hand for immediate reaction
and preventive measures
- Safe and fast transport of
patients



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

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 KREUZER 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 (ALS):** 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
- TRUMPF KREUZER **IMEC (Interdisciplinary Medical Equipment Carrier)** for efficient and effective workflow (OR to ICU)

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 (ABS)**
- 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 (ALS)
- 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. The optimum use of space as well as individual positioning of the equipment depending on its application, is the basic principle for ergonomic concept. TRUMPF KREUZER ceiling mounted support systems optimize your workflow and guarantee efficient working.

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 (ELS):** Fast and easy change of equipment trolley for universal use in different applications

Ergonomics and workflow

- Mounting and safe supply of all peripheral equipment due to special support heads and equipment trolleys
- Media connections (gas/electrical) close to the equipment
- Free access to the equipment and patient: no tubes 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
- Special tilt-and-swivel units for 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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4.2

- 1 Individual arrangement of equipment in MIS and Endoscopy
- 2 Intelligent use of space: good view to the screens
- 3 Modularity: easy, special positioning of the equipment
- 4 Endoscopy Lifting System (ELS): fast positioning of the equipment trolley and simple operation of the equipment

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)

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 (ABS)**

- 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
- New colour concepts create pleasant atmosphere for staff and patients – and help to recover faster



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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 optimization of workflow

- 5 Space-saving solutions and free access to patients
- 6 At TRUMPF KREUZER only: combination with examination lamp
- 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 Technology recedes into the background and makes room for personal human care
- 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 (ABS)**
- 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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