Dräger

# Dräger Ambia®
# Medical Supply Units

D-1959-2021

Dräger. Technology for Life®

# Delivering Care-Centred Workplaces for Acute Care

Patient well-being and efficiency in your clinical processes: Both are key to the success of your hospital. That's why our holistic approach to a well-designed healthcare workplace and environment with modern scheduling tools always takes into account patient needs and clinical requirements. Attractively designed, our flexible system of workstation components provides numerous solutions to organise and structure medical workplaces – be it emergency departments, operating rooms, intensive care units or other hospital wards. They allow user-friendly positioning of medical devices, and make your workplace as intuitive to use as possible.

**This is why we are your specialist in acute care.**

## Expertise in Workplace Design

With more than 60 years of experience in designing medical workplaces, we understand how clinical workflows and processes affect patient care. Planning from the inside out places emphasis on the actual needs of patient-centred care and eliminates rash dimensional or technical restrictions. So, starting the planning process with the patient in focus is our proven approach when designing sustainable and optimised healthcare workplaces.

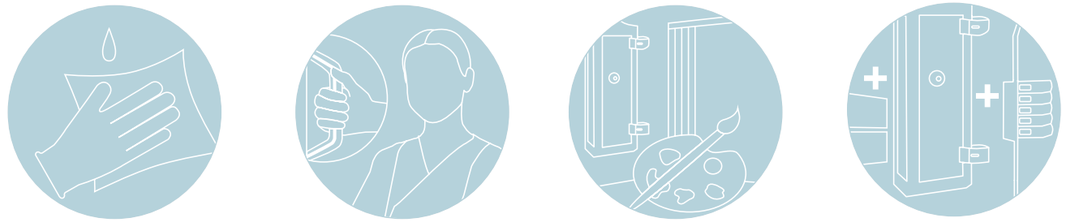
## Planning Reliability

In order to ensure that medical workplaces in the hospital are future-proof, it is essential to take into account individual needs and requirements, as well as spatial conditions. Our consultants will work with you to design individual workplaces so as to create the ideal environment towards your vision of care. We start with an initial workflow analysis, first by constructing a mock-up using our 3D tool, and finally having a hands-on workshop in one of our Design Centers or Showrooms.

# Product Description

### AMBIA®

The Dräger Ambia ceiling supply units are a flexible and ergonomic solution to your patient-centred healing environment. Mounted as ceiling units with mobile arms and optional height adjustment, they ensure the secure positioning of your hospital equipment carriers or medical devices in up to three dimensions. Clinical staff can conveniently position the ceiling unit's arms, columns, heads and lift systems in any work situation.



## WORKPLACE CUSTOMIZATION

# WHY

### CUSTOMISATION MATTERS

– With an optimally designed medical workplace, clinical therapies and treatments can be supported effectively and efficiently, which in turn improve daily care routines[1].
– Customising workplaces leads to more planning reliability and secures investment. As a result, a tailor-made system brings peace of mind for years to come.
– Well-organised workplaces can mitigate the risk of medical errors, which will save time and costs, and improve clinical outcomes[2].
– Increase in staff satisfaction due to the fact that all technical equipment is arranged and assigned to caregiving procedures.

– A custom-tailored supply system, taking into account the type of medical workplace and the spatial conditions
– Mounting of equipment on all 4 corners of the supply unit through 360 degrees
– Numerous workstation components available, e.g. shelves or drawers, to organize the workplace


– Large selection of columns and heads in different lengths and sizes
– Flexible system to quickly adapt in case of emergency situations

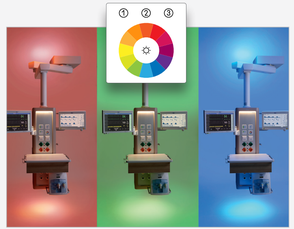
1 American Institute of Architects, Academy of Architecture for Health, The Facility Guidelines Institute (with assistance from the U.S. Department of Health and Human Services). Guidelines for design and construction of hospital and health care facilities. Washington, DC: AIA Press; 2001
2 Reiling/Hughes/Murphy. Patient Safety and Quality: an evidence-based handbook for nurses. Chapter 28, The Impact of facility design on patient safety, 2008. https://www.ncbi.nlm.nih.gov/books/NBK2633/

## HEALING SUPPORTIVE ENVIRONMENT

# WHY

### HEALING SUPPORTIVE ENVIRONMENT MATTERS

– The hospital stay is often a time of great stress for patients and this can affect the healing process.
– Due to environmental factors such as light or noise, hospitalised patients frequently suffer from diminished circadian rhythms and poor sleep, which may lead to cognitive impairment[3].
– Other aspects for a Healing Design: Poor illumination may lead to errors in dispensing medication[4], and patient falls in hospitals may lead to negative outcomes such as injuries or prolonged hospitalisation[5].




– Ceiling and floor light, as well as indirect working light on the supply unit, to avoid overhead lighting at night
– RGB light to create a soothing or stimulant atmosphere
– Circadian light within the Ponta beam to assist the patient's sleep pattern

– A selection of various colours for the frame rails, to match to your room concept
– Mounting of medical equipment out of the patient's view
– Drawer fronts available in different colours
– Option to place medical equipment out of the patient's view

3 Southwell and Wistow, Sleep in hospitals at night— Are patients' needs being met? Journal of Advanced Nursing, 21(5), 1101–1109. 1995
4 Buchanan et al., Illumination and errors in dispensing. Am J Hosp Pharm. 1991 Oct;48(10):2137-45.
5 Schwendimann et al., Falls and consequent injuries in hospitalized patients: effects of an interdisciplinary falls prevention program. BMC Health Services Research 2006, 6:69.

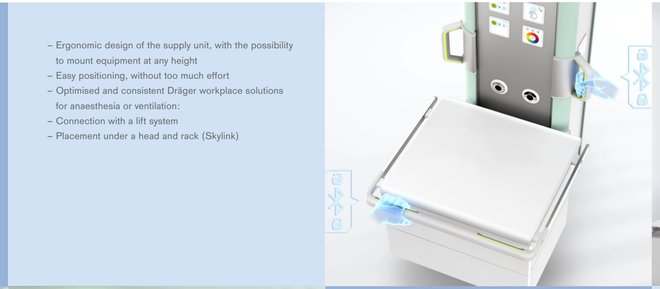
## USER-FRIENDLY ERGONOMICS

# WHY

### USER-FRIENDLY ERGONOMICS MATTER

– Ergonomic workplace design can ease the workflows, leading to more efficient and effective clinical processes[6].
– Ergonomic deficiencies are major sources for medical errors and clinical complications[7], as well as the inappropriate organisation of medical supplies, and lack of space and visibility[8].
– Both patient and staff safety are improved when devices are positioned ergonomically according to the procedures in the care unit.
– Intuitive control concepts of medical devices can improve the correct usage and control, thus reducing the risk of medical errors[9].

– Ergonomic design of the supply unit, with the possibility to mount equipment at any height
– Easy positioning, without too much effort
– Optimised and consistent Dräger workplace solutions for anaesthesia or ventilation:
– Connection with a lift system
– Placement under a head and rack (Skylink)



– Several intuitive user interfaces to control the system:
  – sensor-equipped handles that can be mounted at any height
  – touch-sensitive control panels,
  – sensor-equipped handles on workstation components
  – remote control options

6 Held: Prospektive Ergonomie in der Neugestaltung komplexer Arbeitssysteme und Produkte. 2007
7 Matern et al., „Working conditions and safety in the operating room", Deutsches Ärzteblatt, volume 103, issue 47, 2006
8 Mahmood A, Chaudhury H, Valente M, Appl Nurs Res. Nurses' perceptions of how physical environment t affects medication errors in acute care settings. 2011 Nov;24(4):228-37
9 Matern et al., „Working conditions and safety in the operating room", Deutsches Ärzteblatt, volume 103, issue 47, 2006

## INFECTION PREVENTION

# WHY

### INFECTION PREVENTION MATTERS

– About 7% of the hospitalised patients in developed and 10% in developing countries will acquire at least one healthcare-associated infection (HAI)[10].
– Steps to control HAIs: the design of the workplace, the design of the single medical devices, and hygienic workflows of the medical personnel.
– According to the WHO, the workplace needs to be as tidy as possible to prevent cross-infection: standardised operating procedures for safe and effective decontamination of high-touch patient care areas and all reusable items/ equipment can help[11].

– Several cable management solutions to help avoid the accumulation of dust, and to keep the workplace tidy

– Contactless control of the frame light and/or ceiling and floor light with swiping gesture
– Just one disinfectant necessary for the whole Dräger workplace, out of a list of various validated disinfectant agents
– Easy cleaning thanks to rounded profiles, closed housings and smooth surfaces

10 Health care-associated infections Fact Sheet WHO: http://www.who.int/gpsc/country_work/gpsc_ccisc_fact_sheet_en.pdf
11 Guidelines on core components of Infection Prevention and Control Programmes, World Health Organization, 2016

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