

Multi-purpose ORs

Dräger CareArea™ solution offers maximum flexibility and optimizes turn-around times

The Chirurgie West is the newest facility of the Landeskliniken Salzburg. The Landeskliniken were founded more than 300 years ago and are one of the most advanced hospitals in Austria today. The surgical department of the Chirurgie West currently employs 50 surgeons and more than 55 nurses and medical assistants. With the exception of transplantations, it offers almost any type of surgical procedure.

The Starting Point

In the old surgical department, all electrical and gas outlets were located in the walls. Since no ceiling supply units were installed, all devices and equipment had to be rolled in and out before and after each procedure to permit cleaning and disinfection of the OR. Furthermore, the changing needs of the various surgeons and procedures had to be reflected in the OR set-up which led to longer turnaround times. Equipment and devices had to be rolled to the desired positions with their connected hoses and cables lying on the floor. Stumbling over these obstacles was major risk for staff as well as patients, especially when accidentally disconnected.

Project Goals

The main goal was a true multi-purpose OR with state-of-the-art equipment. The OR needed to be



very flexible to address the various case types without prolonging the turn-around times.

The specific demands were:

- flexible device and equipment management to accommodate various types of procedures,
- an ergonomic OR set-up that adapts to the needs of surgeons and staff,
- no obstacles, i.e. hoses and cables on the floor impeding efficient cleaning and disinfection,
- an anesthesia workstation lifted off the floor, providing floor clearance to prevent tripping hazards and increase positioning flexibility.

Chirurgie West (Surgery Unit West) of Landeskliniken Salzburg in Salzburg, Austria

- public hospital offering general surgery, trauma and MIS from appendix to oncology, from arthroscopy to polytrauma.
- surgeries per week: up to 150
- number of ORs: 6
- project size: 6 ORs
- opening date: Oct 6, 2001
- main goal: a multi-purpose OR with state-of-the-art equipment



“The innovative Dräger solution with the Mova Cart gives us the flexibility of a true multi-purpose OR. Furthermore, our turn-around times have decreased substantially.”

Prof. Dr. Waclawiczek
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The Solution

Nursing staff, anesthesiologists and surgeons were part of the planning team from the beginning to ensure compliance with everybody's needs.

The Dräger CareArea™ solution is based on five separate ceiling supply units. They provide all electrical and gas outlets needed in the OR. Hoses and cables are kept off the floor and all devices only need short cable connections. Each unit has its designated parking position which simplifies cleaning and shortens the room turn-around time. Additionally, the equipment is protected against damage.

All four ceiling supply units DVE 8082 can pick up the anesthesia device as well as the OR equipment on the Mova Cart *lift*. This way the ORs can meet any given positioning demand. With the Mova Cart *lift*, a complete MIS set-up or a digital x-ray system (RICS-PAX) can be lifted off the floor and arranged according to the surgeon's and staff's needs. This combines the benefits of a ceiling mounted system with the flexibility of cart-based equipment.

The anesthesia machine can be docked to the DVE 8082 and lifted



DVE 8082 with special adapter for an anesthesia device



DVE 8082 with digital x-ray equipment (RICS-PAX) on the Mova Cart lift

with a special adapter. This implements the anesthesia machine into the innovative Dräger CareArea™ solution. The Dräger Movita 6032 carries two large monitors, e.g. for x-ray images. It can be positioned ergonomically due to its motorized arm. The system also allows to operate a complete x-ray set-up within the OR without disturbing the workflow. Repositioning is easy and fast due to the flexible ceiling supply units.

Evaluation

- **Flexible OR use:**
Mova Cart *lift* provides for flexible equipment and ergonomic positioning through variable lifting heights and positions throughout the OR.
- **Faster room turn-around:**
Clear floors allow for fast and efficient cleaning and disinfection after each case. All major equipment can be lifted thus avoiding tripping hazards and soiled cables and hoses.
- **Increased OR efficiency:**
Easy and direct equipment access and standardized OR set-ups reduce mistakes and risks. Turn-around times and procedure duration are shortened significantly.