

# Turning the perspective

Dräger CareArea™ solution easily adapts shifted space requirements

The Hayama Heart Center is a private institute providing all types of cardiac and aortic surgeries in its two ORs. The hospital has 60 ward beds. All rooms are designed with a warm and comfortable hotel-like atmosphere. The ICU offers 6 beds. In this unit, 1 nurse cares for 2 patients.

An international advisory board of world renowned cardiac surgeons consulted management and supported the choice of facilities to ensure that patients receive the most advanced heart treatment.

## The Starting Point

The Hayama Heart Center is a completely new institute. The area around each of the 6 ICU beds, especially the right hand corridor, needs a clear walkway. The nurses need free access to the storage area behind the bed, where all drugs and disposables are stored in cupboards. The architecture of the room and the planned position of the beds limit the space on its left hand side.

## Project Goals

The overall philosophy of the hospital is to provide the best available technology integrated into a modern and comfortable environment for patients and staff. In the ICU, this comprises of easy-to-use equipment and a smooth workflow concept. It was also an absolute “must” for the



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clinicians to get ceiling supply units for maximum flexibility and hygiene. The main goal was to introduce a compact workstation allowing for clear walkways around the bed.

The specific demands were:

- good access to the patient and to the storage area behind the bed,
- floors clear of hoses and cables to increase the safety of patients and staff,
- a compact ventilation area,
- flexibility in positioning the “dry” side,
- all gas and electrical connections closely positioned to the devices,
- additional working surface on the infusion side.

## Hayama Heart Center in Hayama, Japan

- private hospital specialized in heart surgery
- total number of beds: 60
- number of ICU beds: 6
- project size: complete ICU
- opening date: March 2001
- main goal: state-of-the-art facilities allowing good access to the patient and to the storage area behind the bed.



“Dräger was our absolute first choice. [...] Our nurses were not so familiar with the system of ceiling supply units at first. But now they cherish the advantage of easy positioning of the devices, which gives them good access to the bed from all sides – even with our limited space.”

**Tadashi Isomura, M.D.**  
**Director**  
**Hayama Heart Center**

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The quality management system at Dräger Medical AG & Co. KGaA is certified according to ISO 13485, ISO 9001 and Annex II of Directive 93/42/EEC (Medical devices).

## The Solution

In the Dräger CareArea™ solution, all six bed spaces are equipped equally with the double-arm system Movita 6002/6002 to avoid possible mistakes. As the right side of the bed was considered to be used as a walkway to the storage cupboards, the supply unit and the bed were not positioned exactly under the middle axis of each bed space, but more to the left half.

The Evita 4 ventilator and the hemodynamic monitoring are mounted on shelves of the supply column, thus enabling short cable and hose leads to the gas and electric outlets. A humidifier bag is attached to an additional pole. The flexibility of the arm system allows doctors and nurses to move the complete set-up back and forth if required.

The column accommodating the “wet” side is turned 90° so that the shelves and outlets are accessible from two sides – also when nurses are standing behind the bed. The volumetric and infusion pumps are normally accessed from the left side



**The compact ventilation side is easily repositioned**



**Plenty of space for disposables and volumetric pumps**

of the bed. Therefore, the two poles meant to accommodate the fluid management are positioned on the left side of the column.

## Evaluation

- Space-saving but flexible dry side: Compact mount of ventilator and monitoring on arm system.
- Improved hygiene: Floors clear of hoses and cables.
- Increased patient safety: Clear and standardized positions for all devices.
- Good workflow: Even with limited space, access from all sides is provided.