

**ADK** Modulraum

# HOSPITAL in Modular Construction



# BUILDINGS The Hospital of the Future IN HYBRID DESIGN

**Building a hospital is one of the biggest challenges of all types of buildings. Each hospital has a wide range of institutions and departments that serve the diagnosis, treatment and care. All of these features including very complicated electromechanical and structural systems require a high level of knowledge and professionalism. Therefore, a specialized team in hospital planning, construction management and inspection is essential.**

**ADK Hybrid Module** provides offsite construction methods (prefabrication in the factory) with **minimum disruption** of clinic operation in specially developed advanced capabilities for healthcare facilities.


The modular prefabricated building by ADK Modulraum offers in design and construction a perfection that exceeds all expectations and is absolutely equivalent to traditional construction methods.


**Prefabrication** This process allows producing a building offsite in controlled factory conditions using high quality materials. Constructed in at least the same - if not higher - standards such as conventionally built facilities. The buildings are made in single modules. In the final assembly onsite put together in a whole they reflect the same construction design and specifications of the traditionally demanding built plants - without compromise.

ADK Hybrid module construction is once assembled indistinguishable from onsite (construction site) used construction systems.


**Equipment** The ADK Hybrid Module manufacturing provides with the latest technology fully equipped module spaces for all hygienically sensitive sectors in hospitals and laboratories. This construction system ensures maximum comfort and safety in the medical field. All structural components are designed with the required radiation, noise and fire protection.

## PREFABRICATION IN THE FACTORY

<b>PLANNING</b>	The ADK Hybrid Module construction provides adequate space for individual and sophisticated <b>architecture</b> . The industrial <b>prefabrication</b> guarantees absolute <b>planning security</b> .
	

<b>PRODUCTION</b>	Variable <b>steel frame structures</b> with high-quality and low-emission materials of <b>dry constructions</b> . The building modules have best reviews on environmental sustainability. Also top marks are achieved in the <b>basic structure</b> of a building and physics.
	

<b>INSTALLATION</b>	<b>Complete</b> installation of technical building equipments in all areas. The individual modules are equipped with <b>doors, windows, tiles</b> and <b>flooring</b> .
	

<b>EQUIPMENT</b>	Medical equipment such as <b>operating theaters, radiology, intensive care units, laboratories</b> and <b>cleanrooms</b> can already be incorporated in the work of ADK in prefabrication. Also this is possible for the interior of many other buildings.
	

**ADK Hybrid OT** The cath lab with high-end X-ray system and the infrastructure for endovascular treatment in conjunction with the operating room with its high sterility, anesthesia and surgical treatment is the **ADK Hybrid OT**. The establishment of a Hybrid operating theater allows a complete equipment to perform the endovascular up to minimally invasive or open surgery - in a single room with virtually no compromises - prefabricated in the ADK factory.

**Construction Time** Coinciding with the foundation at the construction site the production of modular buildings can be carried out in the factory. In combination with the industrial prefabrication under constant conditions about 50 to 60 percent faster implementation compared to conventional construction methods can be achieved. Modular buildings are completed earlier, occupied sooner and allow a **faster Return On Investment**.



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OF MODULAR CONSTRUCTION  
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## REALISATION ON SITE

### TRANSPORT



Logistics is a crucial building block in the construction of modules. Building modules of up to **60 tonnes** must reach the destination **safely and undamaged**. Specialists ensure a smooth transportation **worldwide** by road and sea.

### FINAL STAGE



After delivery of the individual modules to the destination point a whole building is created in a short time. This final construction phase is planned exactly and causes **minimal impact** due to noise and dirt.



ADK MODULRAUM COMBINES  
THE OPTIMAL PACKAGE FROM  
THE EXISTING BUILDING SYSTEMS  
- THE HYBRID MODULAR CONSTRUCTION -  
COST-EFFICIENT AND RAPID



## ADK HYBRID MODULAR CONSTRUCTION Synthesis of form, function and construction

Each conventional building system has its advantages and disadvantages. Industrial prefabrication in module construction allows the clustering of different structures and functions. As a result all individual requirements are laced under an optimal overall package. **Advantages of ADK Hybrid Modular Construction** Modular construction is ideal for the planning and construction of hospitals and related medical facilities. Free of additional and costly logistical measures may be manufactured in modular construction around the clock compared to conventional construction techniques. Developed by ADK Hybrid modular construction and converted and structured to conventional construction process in an industrial prefabrication. This is the basic prerequisite for a successful alternative construction under qualitative highest requirements for medical facilities. As a result, a hospital is produced considerably less disruptive in the construction phase for patients and physicians compared to traditional construction methods.

**Cost Analysis and Result** Costs for building construction and technical equipment of modular construction are at a similar level compared to identically equipped conventional designs. Due to the modular system architecture and standardized processes in production and the well-organized planning process a saving in the planning costs is recorded. The ADK modular construction achieves an extremely short construction period due to the high degree of prefabrication of the modules. Funding period can be shortened. Shorter financing periods have a positive effect on the accrued interest. The building can be taken or rented faster in operation. The savings in financing costs is up to 50 percent compared to the standard design. As a result a much more attractive Return On Investment is achieved compared to conventional construction methods.



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