



**Data Center
Group**



**Data Center
Construction**

The safe digital home

**Efficient implementation of your
data center project**

Sustainable, innovative and highly available

We implement your data center project

Digitalization is influencing our economy and society more than ever before. Data centers protect your valuable data. The requirements for a data center are complex and depend on the industry, operational area and type of organization.

We take care of the implementation of data centers and the protection of your IT infrastructures customized to your individual needs.



Secure and highly available

By deploying the latest technologies and experienced experts, we offer you the highest level of security and maximum availability of your IT infrastructures.



Economical

Taking a thorough look at your project with an emphasis on resources will save you hard cash. We also ensure the implementation of the most energy-efficient solutions possible.



Sustainable

We take ecological and economic sustainability into account as early as the construction stage, through the use of the latest technologies and resource-conserving implementation.



Your partner for future-proof data centers

Innovation meets efficiency: as experts in the construction of state-of-the-art data centers, we offer holistic solutions from one single source. From planning and implementation to turnkey handover - with a focus on green IT and sustainable construction, we create IT infrastructures that meet the highest standards. State-of-the-art technologies, maximum availability and the highest security standards are at the focus of our work.

This is how we create the basis for your digital transformation - powerful, resource-saving and future-oriented. Let's shape the digital future together.



Brownfield

More capacity for your requirements

Adapting and expanding existing data centers

When space is limited, a flexible solution is required. Construction in existing buildings is a core topic of our work - whether it is the expansion or optimization of existing data centers. Data Center Group is there for you as an experienced partner when a changing business strategy, new IT requirements or necessary security adjustments mean that your current data center is at its limits. By making adjustments in time, we can prevent bottlenecks and failures before they even occur.

Ideally prepared for future challenges

We are an all-round partner if you want to increase the availability of your systems or integrate more powerful servers. Increasing requirements often make a conversion of the existing data center inevitable. In order to be prepared for the future, we rely on customized solutions that fulfill the constantly growing requirements.

Planning that meets your requirements

As part of every data center extension, we first carefully analyse all requirements and risks. This task is the basis for the next steps and sustainable, future-oriented planning. Together, we develop concepts that fit smoothly into the existing structure and guarantee long-term performance.

Our services for existing adjustments:

- Expansion, migration and consolidation of data centers
- Modular construction designs for flexible adaptations
- Optimizations in existing structures
- Increasing the level of security
- Maximizing availability
- Improving cost-effectiveness and efficiency

Whether larger capacities or higher security standards - we create space for your requirements and support you every step of the way.



Greenfield

Secure and reliable right from the start

Data center construction on a greenfield site

When requirements grow, building on a greenfield site offers the opportunity to plan and implement without restrictions. Data Center Group builds customized outdoor data centers for you that are designed to meet your requirements - from the choice of location to the fully functional infrastructure. The result is a state-of-the-art, future-proof data center that provides the ideal space for your IT strategy and can be extended when required.

Sustainable data center solutions

Customers who decide on a new project often want to take technical performance to a whole new level - with maximum availability, energy efficiency and first-class security. Through detailed and comprehensive planning, we create space for high-performance servers, innovative cooling systems and scalable resources that can meet long-term requirements.

Planning that meets the requirements perfectly right from the start

When building a data center on a greenfield site, the first step is to analyze the requirements and location conditions. This is where we create the foundation for a concept that is economical and long-term sustainable. Together with you, we develop a project that is designed to meet your business requirements precisely and creates the basis for maximum efficiency and flexibility right from the start.

New construction of data centers

Our extensive expertise in the construction of data centers guarantees a data center solution that meets your requirements today and in the future. From initial planning to implementation, the Data Center Group supports you step by step. We create a data center that strengthens your IT strategy with a future-proof infrastructure and provides you with the space for growth and innovation.

Complete modules

Outdoor data centers such as modular containers and lightweight halls offer a flexible and cost-effective alternative to new construction. Data center containers are pre-assembled and ready to use and can be individually customized and extended. Our modular solutions are perfectly designed, tested and certified to specific requirements and allow significant time savings.

Our services for new buildings on greenfield sites:

- Site analysis and selection
- Planning and realization of new facilities
- Modular construction for future expansions
- Maximum energy efficiency and modern cooling technology
- Integrated safety solutions
- Optimal availability and operating cost efficiency
- Your advantage - a data center for highest requirements



Everything from a single source

Complexity has never been so easy. We know how important transparency, coordination and communication are in complex construction projects such as a data center. We ensure that your data center project is implemented reliably and quickly.



You have the plan, we make it a reality

Turnkey, straightforward and fast construction - for us, this means: one contact for all services - from the construction of the building shell to the technical building equipment (TBE) according to the latest norms and highest standards.

All-in-one solution

From the initial idea, strategy and planning to handing over the keys, we take care of all the processes involved in building your data center.

In partnership

During the entire construction project of your data center you receive support and benefit from the expertise of our project team. Transparent and reliable communication is our priority.

Holistic

We keep an overview. The consumption of raw materials and budget requires careful planning and monitoring. A holistic implementation of the data center enables us to use resources efficiently.

Target orientation

An optimal understanding of you and the goals of your company and your data center are an integral part of the project for us. This enables us to select the right partners and coordinate resources in the best possible way.

Coordination

To minimize the effort for you, we take care of all communication and coordination as well as negotiations with partners and potential suppliers in order to implement your plans in the best possible way.

Project management

We take care of your data center project so you can focus on your business. We have the experience and know-how and will take care of the entire implementation for you, right up to the turn-key handover.

Our data center solutions

As individual as your company

You need a data center that fits your company and your business. There are various ways to make your IT infrastructure secure and available. We offer you modern and sustainable implementation options - whether modular, plug-and-play or CO₂-neutral. Which solution is best suited to your company depends on several factors, such as location, connectivity and security of the data center.



Reengineering

With targeted reengineering measures, we increase efficiency and sustainability in your existing data center. Here, the focus is on re-designing existing structures so that significant energy savings can be achieved with little effort. In addition, performance is also increased by replacing old systems with new ones. In the long term, your data center will thus become more economical, more sustainable and remain competitive.

Modular construction

Save valuable time compared to conventional construction with our plug and play modular construction method, using fully equipped room modules. Our modular construction data centers grow with our customers' needs - even while in operation, and with maximum flexibility in floor plan design.



Data Center Solutions



Indoor data center

Limitation makes Creative. Although building in existing spaces presents some challenges, it can prove profitable, especially for smaller data centers. There is no need for time-consuming and costly location research. Let us make the most of your existing space.

New construction

Individuality at its best: together, we build your new data center from the floor slab to the roof. No matter to what extent you want to build the heart of your IT, whether in a small space or in larger IT areas. We advise and support you comprehensively throughout the entire data center project, from the initial idea to the handover of the keys.



Outdoor data center

Always where it's needed. Constantly growing digitalization and globalization sometimes require fast solutions. With our containers, you can have a mobile data center built entirely according to your wishes in the shortest possible time. Manage your data on site and stay flexible.

Micro Data Center (DC IT Safe)

A data center that adapts to you. Many factors that influence the construction of a data center are variable and can change over time. Start with the smallest configuration and retain the option of upgrading to the full equipment when you need it. The Mini Data Center impresses with its flexibility.



Data Center Components

We take care of the crucial parts

We help you to plan the right building blocks for your goals. We select the most sustainable and best possible components and systems for your project. We always keep an eye on new, future-oriented technologies. For example, sustainable fuels such as e-fuels for climate-friendly emergency power solutions, innovative energy storage systems, technologies for exhaust gas reduction and retrofitting.

We design your data center to be sustainable in terms of the environment, budget and resources throughout its entire life cycle.



Power supply



Cooling supply



Fire protection components



Security components



Power supply

Always well supplied

Power outages are one of the most common causes of IT component failure and data loss. A data center must be highly available and thus continuously supplied with power. That is why a redundant power supply is a key component of the data center. To ensure that IT systems remain optimally supplied even in the event of a power outage, an emergency power supply is indispensable.

Emergency power system (EPS)

Without power, your data center comes to a standstill. In the event of a power outage, the emergency power system (EPS) can be used to maintain the electrical supply to security-relevant consumers. Power generators in the form of diesel aggregates can be designed as free-standing containers or compact units for installation in a building.

Uninterruptible power supply (UPS)

Unlike the emergency power system, the uninterruptible power supply (UPS) is a battery-backed solution. It bridges the grid operation for your server components until the emergency generators take over the grid supply.



Cooling supply

Always keeping the correct temperature

Creating the optimal climatic conditions in your data center can be challenging without appropriate cooling and heating concepts. Severe temperature deviations above or below the normal range, not only affect the service life of sensitive equipment, but also increase the risk of failure due to possible overheating. Which configuration is most efficient for you depends on various factors such as structural and spatial conditions and ambient temperature at your location.

Water cooling

With water-cooled server systems, a lot of energy can be dissipated directly to the cold water via a heat sink of the chips. This way of cooling is very economical, because the indirect free cooling without compression cooling can be used even at high outside temperatures. Recirculating air cooling units, sidecoolers or fan coil units cool the air in server and technical rooms to the desired levels.

Refrigeration systems

These systems ensure that IT hardware is sufficiently cooled at all times and at all outside temperatures. Refrigeration systems generate cold water, which at certain outside temperatures can be produced in indirect free cooling even without the compressors contained in the cooling systems.



Fire protection components

To keep fires at bay

Keeping fires and fire damage to a minimum is a paramount priority in the data center. Early detection of fire and smoke as well as the immediate initiation of appropriate measures are of the utmost importance. Our fire protection components ensure the smooth operation of your data center.

Early fire detection

Smoke detectors with innovative sensors constantly draw in air and monitor it for smoke particles. Even a low concentration of smoke in the air is reliably detected and triggers a pre-alarm. In this way, possible sources of fire are detected at an early stage, their expansion delayed or even fires prevented altogether.

Fire alarm system

Fire alarm systems protect values and save lives. Modern sensors can trigger an alarm at an early stage of a fire's emergence, allowing targeted countermeasures to be initiated. In this way, the damage can in most cases be kept to a minimum. In sensitive areas of a data center, active fire detection systems (smoke aspiration systems) are used to provide an even faster response.

Fire extinguishing system

IT-optimized and advanced fire extinguishing systems provide the necessary protection in the event of a fire. Fire extinguishing is achieved either by the use of nitrogen or other inert gases.



Security components

All-around protection

Forewarned is forearmed. Especially in data centers, it is important to protect the sensitive data that is responsible for the success of your company. The greatest dangers for your data center, such as unauthorized access by third parties or even theft, can be prevented by means of various innovative security components.

Access control

Sensitive data requires special protection. Every access to the data center must not only be thoroughly controlled, but also documented. Documentation of who has or may have access, as well as appropriate building security, is therefore absolutely essential.

Video control

In addition to intrusion detection systems, video control systems (CCTV) play a decisive role in the traceability and detection of third-party access to important infrastructures. Motion detection is used to activate recording systems so that offences can be traced without any gaps. Cameras operate at night in the infrared range or have special thermal sensors.

Burglar alarm system

In addition to access control, protect your data center against intrusion by unauthorized persons with a burglar alarm system.

Monitoring

React immediately and not just in the case of a server failure. The web-based monitoring system permanently collects relevant data from your data center and evaluates them. Discrepancies and anomalies are immediately visible and reported by the system. Therefore, you can minimize downtimes and possible damages.

Our references

We offer solutions for companies of all sizes - from small businesses to global corporations and the public sector.

Scan the QR code and see more cross-industry references



Nexspace data center Heidelberg Lighthouse project for innovation park

As general contractor (GC), DCG implemented a showcase project for sustainable data centers at the Heidelberg innovation park. The data center with a total area of 2,000 m² and a PUE of 1.2 takes a future-proof approach to the use of sustainable power supplies, innovative cooling and heat recovery.



Main DC Flagship project quickly completed

In just two years, the Data Center Group built one of the most modern data centers in Germany on the EVO site in Offenbach. With space for 3,300 racks and a capacity of 25 megawatts, the DIN EN 50600-certified building was constructed in a highly energy-efficient manner. Waste heat is used sustainably through the use of heat pumps.



PBIT Systeme in Cottbus Sustainable showcase project

The PBIT Systeme data center in Cottbus was designed and implemented by DCG as a sustainable, future-oriented IT infrastructure project. Even during the construction phase, particular emphasis was given to resource- and energy-efficient materials and infrastructure.



The first step towards your own data center

Thinking about tomorrow today. Whether from scratch or reengineering. Configure a data center that suits you. Together for the future of your company.

Configure now

Scan the QR code now and configure your personal data center solution:



Our other services

Data Center Consulting

Consulting – Advice for the first step into your new data center

Would you like to get advised first? Our experts are at your side right from the start. Together, we develop a customized strategy that precisely meets your requirements - from the initial needs analysis through to a detailed site evaluation. We provide you with professional support during all planning and decision-making processes and ensure that your project takes the right direction from the start.

Data Center Engineering

Engineering – Reliable planning and smooth integration

Do you want to take the next step and move your project forward? We make sure that a vision becomes reality. Benefit from our close connection and cooperation between the engineering and construction departments. This results in solutions that precisely meet your specific requirements and fit perfectly into your infrastructure.

Data Center Construction

Construction – Efficient implementation and precise implementation

Do you want to make your vision a reality and complete your construction project? We make sure that your projects are implemented smoothly and on time. With our focus on the construction of data centers and our expertise as a general contractor and general transferee, we offer you maximum quality and reliability. Thanks to our integrative approach, we create buildings that not only meet the highest standards, but can also be seamlessly integrated into your existing infrastructure.

Data Center Products

Products – Innovative solutions for your requirements

Are you looking for flexible and future-proof solutions for your IT infrastructure? We offer you an extensive portfolio - from micro data centers to modular room systems and data center containers. Our products are designed to precisely meet your specific requirements and enable maximum scalability. With our intelligent technology and first-class quality, we create solutions that are ready for immediate use and can be integrated smoothly into your environment.

Data Center Services

Services – Comprehensive support for reliable performance

Do you want your data center to run perfectly at all times after the construction phase? Our service team will take care of the ongoing maintenance and servicing of your system to ensure that you can concentrate fully on your business. From regular inspections and security updates to 24/7 support - we take care of the technical support so that your data center remains resilient and efficient in the long term.

Data Center Solutions

Solutions – Secure operational management for maximum relief

Would you like a little extra? The Data Center Solutions business unit offers you complete operating concepts that cover all technical and infrastructural aspects. We take responsibility for the ongoing performance and availability of your data center. This allows you to concentrate on your core business while we ensure reliable operations.



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