🌐 Data Center & Infrastructure Solutions

Data centers lie at the core of every organization's digital transformation journey. **Teknoser** modernizes and redesigns IT infrastructures with a holistic approach, covering servers, storage, networking, virtualization, power, and cooling systems—to deliver scalable, redundant, and future-ready environments.

Our end-to-end solutions ensure **high availability**, **security**, **energy efficiency**, and **sustainable performance** across all infrastructure components.

🏢 Data Center Solutions

What Is a Data Center?

A data center is a physical facility that houses the computing systems—servers, storage units, and networking equipment—required to support enterprise applications and business processes.

What We Do

- Designing and deploying small, medium, and large-scale data centers
- Performing renovations and upgrades in active/live data centers
- System room relocation and end-to-end cabling operations

Areas of Expertise

- Data Center
- Server Room
- Container-Based Server Rooms
- Micro Data Centers
- DC Relocation & Cabling Operations

❇️ Data Center Components

Design & Implementation

- Project planning, room layout, architectural design, deployment

Construction Works

- Fire-resistant walls / drywall

- Epoxy flooring, painting, doors

- Raised floors & suspended ceilings

- Room insulation & sealing

Electrical Infrastructure

- Power distribution panels

- UPS systems

- Generators

- Electrical cabling

- Grounding

- Smart PDUs

Cooling Infrastructure

- Precision cooling systems

- In-row cooling

- Cassette-type air conditioning units

Cable Pathways

- Wire mesh & steel trays

- Conduit systems

- Fiber runner installations

Environmental Monitoring

- Temperature, humidity, leakage & environmental sensors

Physical Security Systems

- Gas-based fire suppression

- CCTV & video monitoring

- Access control systems

- Cage & cabinet security

🏗️ Infrastructure Solutions

💾 Structured Cabling Solutions

What Is Structured Cabling?

Structured cabling forms the backbone for all data communication within a building—supporting PCs, Wi-Fi, telephony, security systems, and audiovisual communication.

What We Do

- End-to-end structured cabling for factories, hotels, hospitals, offices, warehouses, and ports
- Cabling improvements and upgrades in live operational environments

Components

- Fiber Optic (OM2/OM3/OM4/SM)
- Cat6 / Cat6A / Cat7
- Professional testing & certification
- Standard & custom labeling
- Project documentation

🗄️ Cabinet Optimization & Re-Design

Why It Matters

Cabinets often require redesign due to aging systems, unmanaged cables, continuous changes, or the need to standardize across multiple locations.

What We Do

- Complete redesign of cabinet layouts
- Port mapping
- Replacement of outdated hardware & cabling
- Standardizing multiple sites under a unified structure

Components

- Cabinet interior redesign
- Port map creation
- Supply & installation of cabinet hardware
- Labeling (standard & custom)

🔐 Low-Voltage & Physical Security Systems

What We Provide

We design, deploy, and maintain end-to-end physical security systems to ensure safety and operational continuity.

Components

- CCTV Systems
- VMS (Video Management Software)
- License Plate Recognition
- Barriers & Turnstiles
- Card Readers
- Biometric Readers
- Fire Detection Systems
- Maintenance & Support