DKC SOLUTIONS FOR MEDICAL ENVIRONMENTS

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MADE IN ITALY EXCELLENCE FOR HIGH PERFORMANCE APPLICATIONS

The DKC Group is an **established and prominent Italian company**, known for the quality of its solutions and its ability to anticipate the evolutions of an increasingly demanding market. With more than twenty years of experience in the design and production of systems for electrical installation, industrial automation, energy distribution and control, up to the most recent applications related to storage and electric mobility, DKC acts as a **single point of reference** for designers and installers, ensuring integrated **technical support** at every stage of the project.
Each solution offered is the result of an **industrial process that enhances quality in every detail**: from the careful selection of raw materials to compliance with reference standards, such as **CEI 64-8** for medical environments, up to innovation thanks to the R&D team and the entirely **Made in Italy** production, DKC is synonymous with solidity, reliability and precision.
These values are especially important in medical environments, **where the safety of systems, continuity of service and hygienic conformity do not allow for compromises.** In highly critical contexts such as hospitals, outpatient clinics and laboratories, each component must ensure **high performance, resistance to stress and ease of use** even in constrained technical spaces.
The DKC portfolio comprises **coordinated and seamlessly integrated solutions** designed to ensure efficient and safe energy management even under complex operating conditions. **Modularity, compatibility between lines and fast installation** result in systems which are orderly, scalable and easy to maintain.
A proposal that also concretely responds to the objectives of the **NRRP**, offering a comprehensive system that can simplify processes and speed up technological and regulatory compliance.
The solutions offered by DKC include the lines **Combitech, Cosmec, Hercules, Net One, RamBatt, RamBlock, RamKlima and Steeltecnica.**

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RAMBLOCK LINES AND RAMKLIMA LINES

SOLUTIONS FOR AUTOMATION, POWER DISTRIBUTION AND AIR CONDITIONING ELECTRICAL PANELS

In healthcare environments, technical rooms such as medical machine rooms, functional units and control cabinets require solutions that are reliable, compliant with regulations and able to adapt to critical environments.

RamBlock solutions - comprising **CQE** modular cabinets and **CE** enclosures - offer:

- **IP55/IP66 protection rating** and **IK10 impact resistance.**
- **Internal and external modularity for flexible and customised configurations.**
- **Available in painted or stainless steel** versions to meet different application needs.
- **Wide range of accessories** for a complete set-up.

CQE cabinets and CE enclosures are **CEI 64-8/7** compliant, making them suitable for use in **Group 0 medical rooms**, i.e. rooms intended for activities that **do not involve the use of electro-medical equipment with direct application to the patient,** such as technical stores and system rooms.

Climate control is often crucial in medical technical rooms, to ensure the correct functioning and operational continuity of systems.

RamKlima ventilation and air conditioning systems integrate perfectly with the cabinets and enclosures of the RamBlock line, maintaining optimal environmental conditions even in the presence of sensitive equipment or advanced electronics.

HERCULES LINE

SOLUTIONS FOR ENERGY TRANSPORT AND DISTRIBUTION

Continuity and security of power supplies are essential in order to ensure the operation of critical areas such as operating theatres, intensive care units, diagnostic laboratories and vital infrastructure (HVAC, UPS, fire-fighting systems).

In addition to the backup systems, the electrical system is the **power backbone**, which conveys up to **6,300 A** from the transformers to the distribution boards.

National standards - including **CEI 64-8, section 710, CEI EN 61439-6 and Ministerial Decree 37/08** - require the use of **certified prefabricated lines**, which are able to guarantee an adequate IP protection degree, redundancy and easy maintenance without service interruptions.

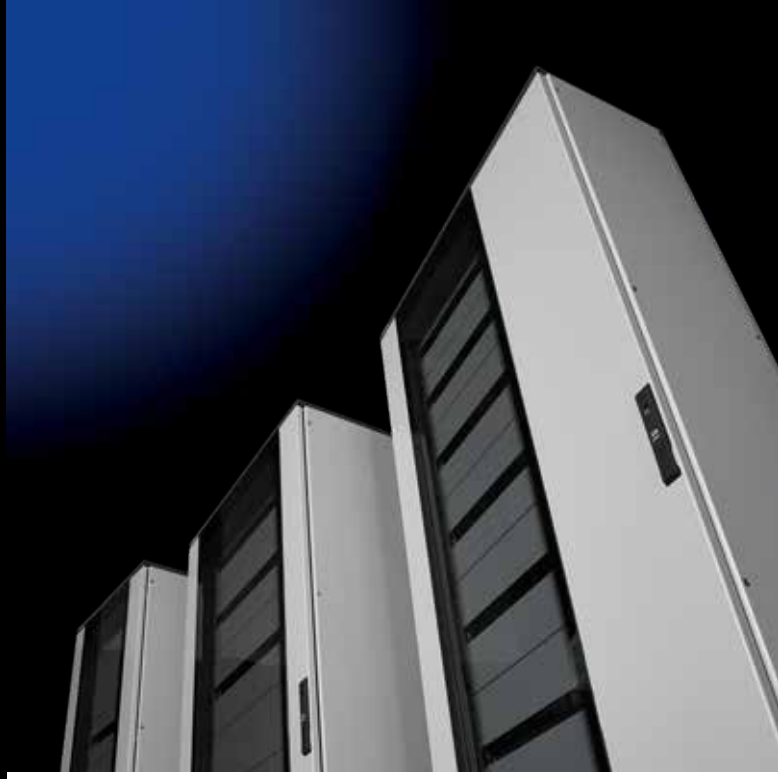
In this context, the **Powertech range** is the ideal solution.

Thanks to the compact '**sandwich**' structure and the use of **copper or tinned aluminium conductors**, fully insulated with **class F** materials, the system ensures

- **IP55** protection rating and **IK10** impact resistance
- **3P+N+PE** or **5-conductor** configurations, for reinforced neutral or clean earth.
- **Monoblock junction systems** with self-fracturing bolts for fast and safe installation.
- **Modular replacement** of sections without disconnecting the entire system.

Designed in accordance with **CEI EN 61439-6** and the requirements of **CEI 64-8/710** and **Ministerial Decree 37/08**, the Hercules line guarantees

- **Low impedance** and reduced **voltage drop**.
- **Lower magnetic fields** compared to traditional cable lines.
- **High short-circuit resistance.**



COSMEC LINE

METAL AND PLASTIC CABLE PROTECTION SYSTEMS

The **Cosmec** Line offers a **complete range of cable protection systems** designed to meet the specific needs of installations in the healthcare sector, where **operational continuity** and **infrastructure security** are essential.

The **variety of materials** used ensures high performance in terms of **reliability, mechanical strength and fire protection**, even under particularly critical operating conditions.

- **Metal systems** are ideal for installation in **technical areas** and rooms with high security requirements and offer excellent **impact resistance, fireproof properties** and ease of installation and maintenance
- **Metal-plastic systems**, on the other hand, are particularly suitable for installations in highly complex environments such as laboratories, wards and system rooms and offer **resistance to compression**, impact and chemicals, with **self-extinguishing** properties for effective fire protection and high reliability in critical applications.

To facilitate installation and reduce intervention time, Cosmec systems include **quick-connect fittings**, which simplify installation operations and make **maintenance and extension work** on hospital electrical systems more efficient.

STEELTECNICA LINE

SOLUTIONS FOR DISTRIBUTION ELECTRICAL PANELS

The **Norma 40** and **Norma 50** cabinets, developed by the **Steeltecnica line**, are designed to specifically meet the plant engineering requirements of medical environments. Included in the **DKC** portfolio as reliable, high-performance solutions, they are an ideal choice for hospitals and medical facilities where service continuity, safety and regulatory compliance are essential.

Both models ensure high physical and environmental protection of electrical components, with protection ratings up to IP55 and impact resistance IK10, according to **CEI EN 62208.**

They are certified according to **CEI EN 61439-1/2** for low-voltage switchgear.

The structure is available in galvanised or polyester powder-coated steel, guaranteeing durability and resistance even in demanding environments.

The difference between the two models lies mainly in their structure and purpose. **Norma 40** is characterised by a high degree of internal modularity, allowing the integration of electrical panels, monitoring, signalling or access control systems.

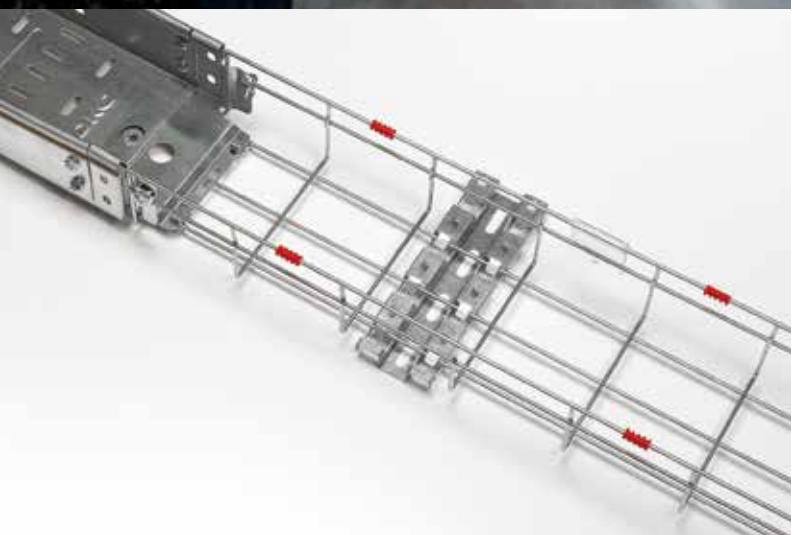
It is perfectly suited to contexts where maximum flexibility in system configuration is required.

Norma 50, on the other hand, is designed for more demanding applications: its more robust and reinforced structure is suitable for a wide range of installations. It is also available in a pre-assembled version, which is ideal for reducing installation time on site and ensuring uniformity of the installation.

COMBITECH DIVISION

CABLE PROTECTION SYSTEMS

The **Combitech Line** offers metal trunking systems designed to protect, organise and facilitate the installation of electrical cables within healthcare facilities, where order, accessibility and system safety are essential requirements.
In highly complex environments such as hospitals, outpatient clinics and diagnostic laboratories, Combitech solutions allow for **orderly, safe cable routes which are easy to inspect**, optimising available space and ensuring rational management of the electrical infrastructure.
The range includes **cable ducts, cable trays and modular systems available in galvanised, stainless steel or painted steel,** accompanied by a wide selection of **bends, fittings and fastening systems** that guarantee high load capacity, ground continuity and full accessibility for maintenance activities. The self-retaining covers and interlocking joints are designed for screwless assembly, greatly reducing installation time and simplifying installation operations even in contexts subject to stringent hygiene requirements.
Thanks to the **modularity of the components** and the availability of **specific accessories**, the Combitech line is perfectly suited to the installation of systems distributed throughout the medical facility, helping to ensure efficiency, order and regulatory compliance over time.



NET ONE LINE

CLIMATE-CONTROLLED RACK CABINET SYSTEM FOR DATA MANAGEMENT

In modern healthcare environments, **business continuity, data protection and reliability of IT infrastructures** are increasingly strategic. **Net One** solutions meet these needs with an integrated, compact and secure approach.
Based on a **19" Rack** cabinet, Net One includes an **air-conditioning system**, an **uninterruptible power supply UPS** and a **fire detection and extinguishing system,** all managed by an **embedded terminal** with an **interactive touch interface.** This platform allows real-time monitoring of all cabinet operating parameters, with continuous access to information even remotely.
Thanks to their autonomy from ambient air conditioning, they can be installed in **any technical room or department**, even in **harsh environments or confined spaces**, such as warehouses, digital archives, laboratories or high-tech departments.
The climate control system, derived from DKC's experience in the industrial automation sector, guarantees high performance even in critical conditions, ensuring the protection of IT equipment in the most demanding environments.
Versions with **redundant air conditioners** also ensure **continuous cooling** at all times, extend system life through **alternating operation,** and respond quickly to **temperature peaks** by activating both modules simultaneously.
DKC's technical and design excellence translates into ready-to-use systems that optimise installation time and ensure continuity and protection at the heart of healthcare facilities.

RAMBATT LINE

ENERGY CONVERSION SYSTEMS

In the hospital environment, continuity of power supply is an essential element to ensure patient safety and the continuous operation of critical departments. Operating theatres, intensive care departments, diagnostic laboratories and electro-medical devices require a stable, uninterrupted power supply that complies with European and Italian standards, including **CEI 64-8 section 710 and CEI EN 60601-1**.

The **RAMBATT** line offers ON-LINE double conversion UPS solutions, with extremely high levels of reliability, configurable autonomy and remote monitoring systems. With protection against micro-breaks, surges and blackouts, the UPSs safeguard sensitive equipment and ensure maximum continuity at the most sensitive times. Designed and manufactured in Italy, the **RAMBATT** range covers a broad spectrum of applications in the healthcare sector. Thanks to ON-LINE double conversion technology, a power factor of 1 and an efficiency of up to 98%, the UPSs offer maximum efficiency. The solutions are configurable, with extendable autonomy via additional battery cabinets, advanced supervision functions (also via SNMP), N+1 redundancy and optimised footprint.

In operating theatres, even the slightest interruption can compromise the outcome of an operation. For this reason, DKC UPSs are designed to operate in an **N+1 redundant** configuration, ensuring continuity even in the event of failure or maintenance of one of the units. The solutions fully comply with the requirements for **group 2 rooms**, as set out in CEI 64-8 section 710, and can be integrated with external power generators to ensure extended autonomy and maximum safety.

The **TRIOXT** (30 to 50 kVA) and **EXTRATT** (60 to 600 kVA) models are particularly suitable for this type of application thanks to their reliability, configurability and high performance.

In addition to operating theatres, **many areas of hospitals require continuous electrical protection**: electro-medical equipment, diagnostic departments, laboratories, outpatient clinics. Also in these cases, DKC offers reliable solutions depending on the power required, with models such as **TRIOXT** (30 to 50 kVA) and **TRIOTT** (8 to 20 kVA) and **SOLOMD** (4 to 12 kVA), ideal for ensuring efficiency, safety and compliance with regulations.

With regard to the **power supply of emergency systems** - including emergency lighting, fire-fighting systems, signalling and escape routes - the use of CPSS systems conforming to **EN 50171** is mandatory. These devices ensure continuous power supply, certified autonomy of at least one hour, the ability to withstand overloads and compatibility with monitoring, signalling and maintenance requirements. DKC offers a wide range of CPSS solutions in **three-phase** (EXTRACPSS from 60 to 160 kVA, TRI-CPSS from 10 to 40 kVA) and **single-phase** (MONO-CPSS from 6 to 10 kVA) versions, designed to integrate seamlessly into the security systems of healthcare facilities.

In a critical context such as hospitals, **technical assistance takes on a strategic value**. This is why DKC provides an on-site support service for all large equipment, ensuring fast response times, original spare parts and specialised technicians. The DKC network is present throughout Italy with authorised centres and a dedicated toll-free number **800 194040**, to guarantee **continuity of service even at the most delicate times**.

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