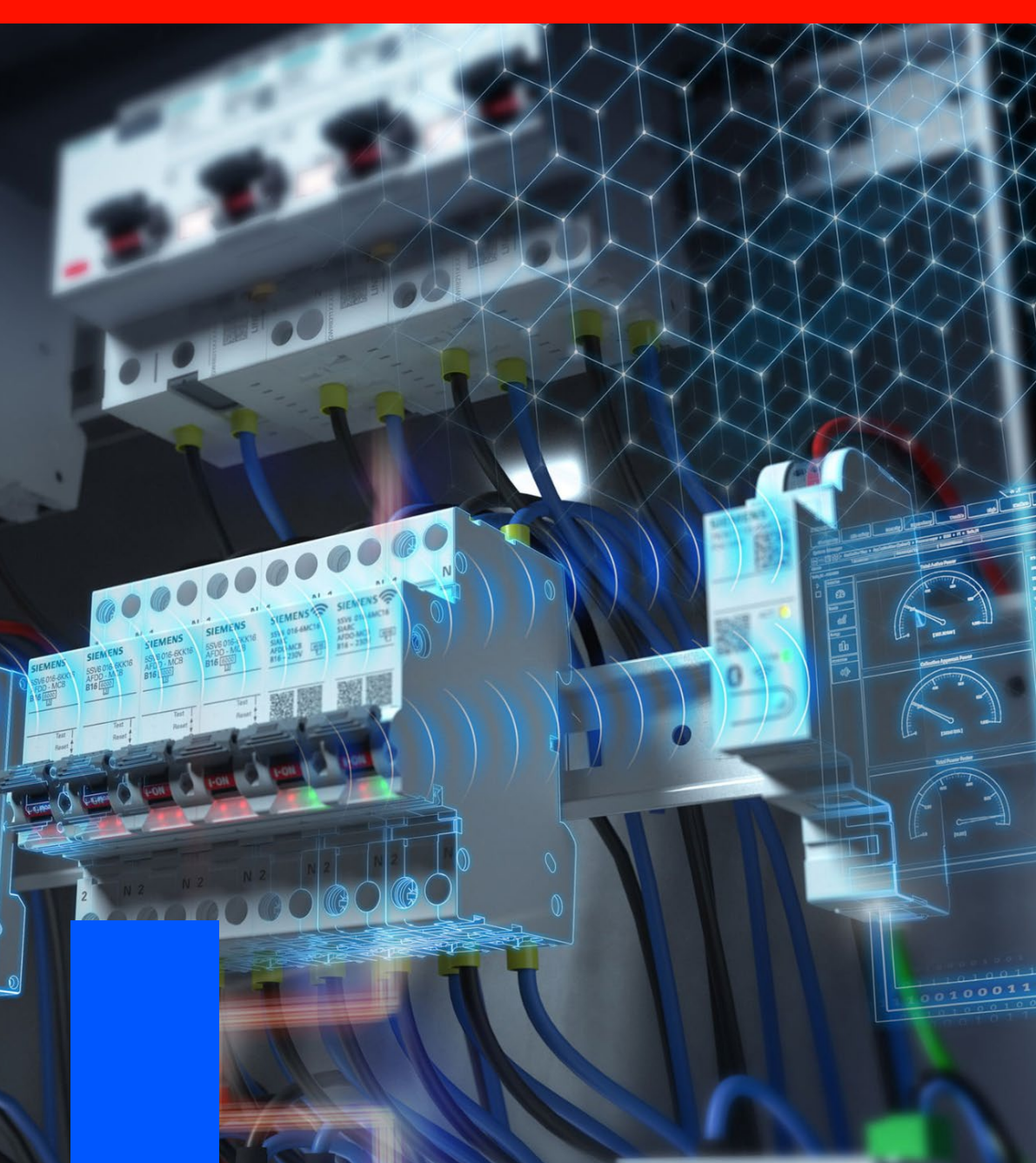




الشركة دائرة حديثة لوحات الكهربائية



MODERN CIRCUIT COMPANY PROFILE

www.moderncircuitksa.com

ABOUT OUR COMPANY

In 2006, Modern Circuit Panel Board Factory took over the Saudi Arabian manufacturing division from a pioneer in electrical component and switchboard manufacturing, reinforcing its commitment to producing top-quality “Made in Saudi” electrical components and switchboards.

MODERN CIRCUIT is one of Saudi Arabia’s premier Electric Switchboards and Panel boards manufacturers, exporters and suppliers. The company’s range of electric panels is used for industrial purposes, building or apartment construction organization purpose and costume built designs. The company is a group of young, enterprising professionals having vast experience in the field of industrial automation & power distribution systems in respect of Electrical Engineering.

All the products of the company are manufactured as per the international quality constraints and can compete with their international counterparts. The company ensures that the products are monitored at each stage of production, to ensure that only the best products leave the factory. The company’s electric panels are high in looks, performance and durability.

MODERN CIRCUIT also deals in this product on a turnkey basis. The ultimate motto of the company is to ensure complete customer satisfaction. In this direction, it maintains a high level of quality in its products and also ensures that all the consignments are delivered to their clients on time. These efforts of the company have earned them the much deserved reputation of being a name to reckon with in the international arena.

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MODERN POWER SOLUTION



THE FUTURE FOR MODERN CIRCUIT

We have expanded to new factory and incorporated new manufacturing principles, increasing what we can offer to our clients and customers in quality, engineering, and customization capabilities to meet the Kingdom's vision and future.

We are one of the very few switchboard manufacturers that have in-house enclosure fabrication capabilities, and everything at Moder Circuit is under one roof. With over a decade of extensive experience in Power & Control electrical systems, we excel in various domains, including:

- Industrial automation
- Power/Load management
- Power correction technology
- Energy audits
- Energy-saving concepts
- PLC programming
- SCADA development
- Relay Logic-based circuitry
- Design & Drafting
- Implementation/Installation of new electrical systems, replacing obsolete systems
- Commissioning of electrical projects using advanced technologies and available market resources

Our engineers are adept at requirement analysis, application development, and design, while being comfortable with a wide diversity of PLC systems, Relay Logics, controlling/signaling units, motor controllers, LV/MV switchboards, and Hydro Pneumatic systems. They also possess excellent circuitry design skills, utilizing advanced devices available for electrical switchboards.



OUR CORE VALUES

At our core, we are on a mission to deliver the best quality custom electrical switchboards on the market. We distinguish ourselves through consistently high service levels. With a deep appreciation for the latest technology, we design and manufacture switchboards for clients across various sectors, including mining, petrochemical, utility, solar, industrial, and commercial.

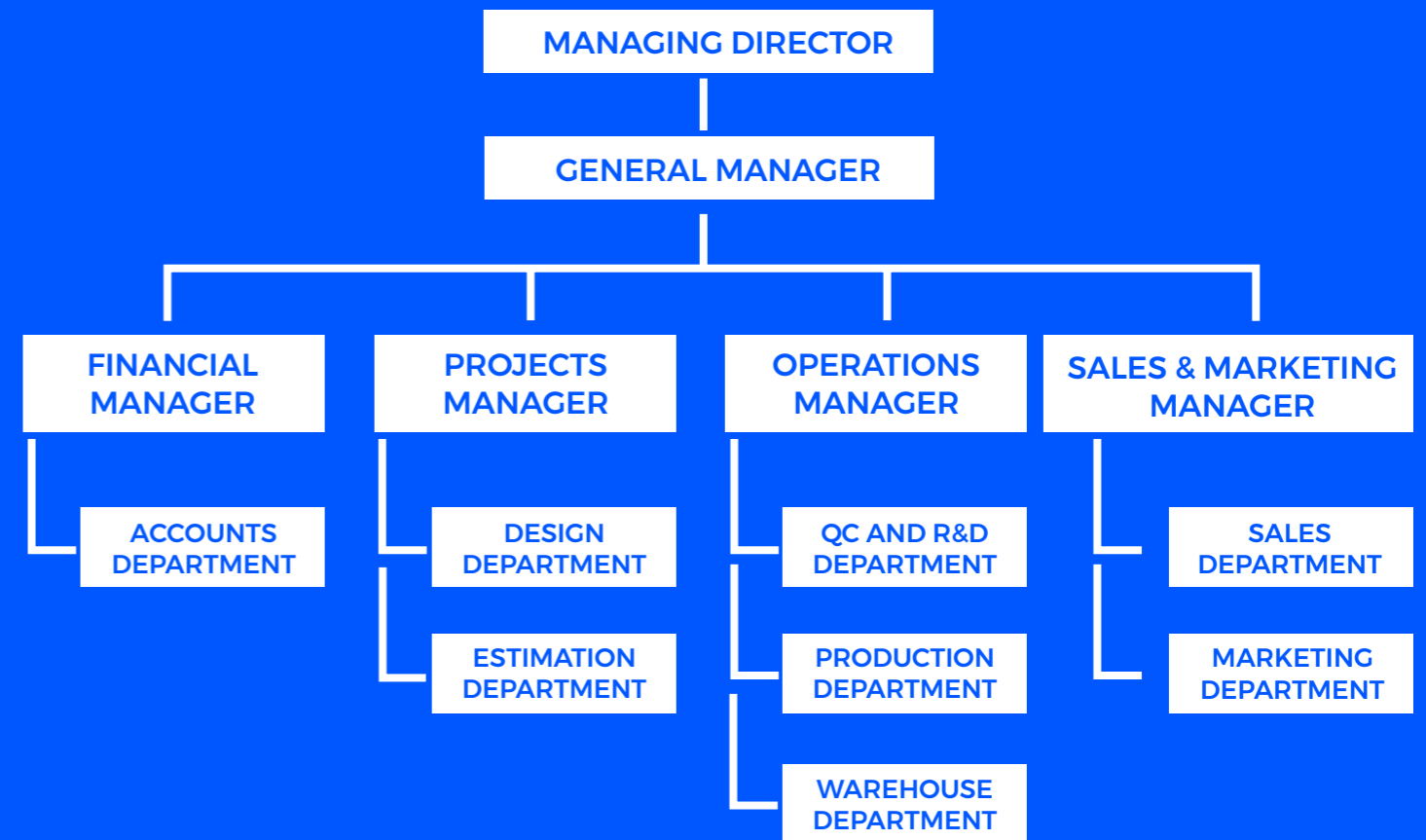
As the preferred electrical switchboard manufacturer in Saudi Arabia, we hold dear the following values:

Quality: We are committed to providing high-quality products that adhere to stringent electrical standards.

Reliability: We are known for consistently meeting project deadlines, ensuring our clients can depend on us when it matters most.

Our commitment is to manufacture products and offer services that fully align with our customers' agreed-upon requirements and adhere to National/International standards when applicable. Our overarching quality objective is to consistently exceed our customers' expectations, ensuring their unwavering confidence in our company as their trusted supplier.

ORGANIZATION CHART



OUR MANUFACTURING PLANT



Our integrated sales, project management, and manufacturing teams on the same premises ensure efficiency. We prioritize strong client relationships and high-quality products, striving to exceed expectations from inquiry to delivery.

Modern Circuit Panel Board Factory operates from a 3000 m² custom manufacturing facility in Riyadh, within the Kingdom. Our sales, project management, and manufacturing departments all work closely together under one roof, enhancing our efficiency as a team. This synergy, combined with our on-site facilities, enables us to design, engineer, and manufacture high-quality switchboards in a shorter timeframe, ensuring prompt delivery to all projects in the Kingdom.

The facility boasts the best machinery for Computer-Aided Design and manufacturing, as well as fabrication facilities from renowned industrial houses. Additionally, it features an excellent Epoxy Power Coating Painting facility and an Assembly shop equipped with multiple Hydraulic Bus Bar Cutting and bending machines. With liberally spaced Assembly and Wiring shops, our production capacity is further enhanced. To maintain quality, we rigorously conduct routine tests such as High Voltage Dielectric Strength and High voltage Megger Test, eliminating error margins.

PRODUCT AND SERVICES

Industrial Automation Solution

Smart Metering Solutions

Testing & Commissioning

Design & Engineering

Upgrade & Modification for Electrical installations

Cabling & Commissioning

OUR PRODUCT RANGES

Power Distribution

Main Distribution Panel (M.D.B)

Sub Main Distribution Panel (S.M.D.B)

Power Distribution Socket Panel

Automatic Transfer Switch Control Panel (A.T.S.)

Manually Transfer Switch Panel (M.T.S)

DG Synchronizing Panels

Load sharing Panel.

Power Control Center (P.C.C.) Panel

Auto Power Factor Control Panel (A.P.F.C.)

L.T. Bus ducts

Fire Protection Panels

Battery Charger Panels

Metering Boxes

Air Circuit Breaker Panel (A.C.B.)

Energy Meter Panel

Load Change - Over Panel



CONTROL APPLICATIONS

**Programmable Logic Controller Based
Control Panel (P.L.C.)**

A.C. Frequency Controller Panel

D.C. Frequency Controller Panel

Motor Control Center (M.C.C.) Panel

Direct On Line Starter (D.O.L.) Panel

DDC Control Panel

Star Delta Starter Panel

Motor Soft Starter Panel

Temperature Control Panel

Machine Operator Panel

Control Desks

Special Purpose Machine (S.P.M.) Panel

Relay Logic Control Based Panel

SCADA Systems

Design & Engineering

Our Design & Drafting department is fully equipped with the latest application software and AutoCAD packages, all integrated into a fully networked computerized system. This setup empowers our engineers to handle projects seamlessly from the initial design and drawing stage through to the creation of detailed bills of materials.

At Modern Circuit, our engineers prioritize staying up to date with the latest advances in technology and manufacturing methods. To ensure this, they actively participate in seminars and make regular visits to Siemens and Schneider Electric manufacturing facilities. This commitment to ongoing learning allows us to consistently deliver cutting-edge solutions to our clients.

OUR FACILITIES



Our state-of-the-art facilities are equipped with high-tech machinery and the latest sheet metal software, such as AutoCAD, enabling us to provide comprehensive engineering solutions and deliver the highest industrial quality products.

MODERN CIRCUIT takes pride in its cutting-edge manufacturing facility. We offers a range of features - including in-house sheet metal fabrication, powder coating, assembly and wiring - while our sales team is always on-hand to provide continual support from start to finish.

Fabrication and Metal Treatment

Our facility is equipped with state-of-the-art machinery for sheet metal work, allowing us to manufacture Panel Enclosures and Cable trays to standard designs or customized specifications based on client requirements.

Powder Coating

We have a world-class Powder Coating Plant with seven tanks, vertical and transverse hoists, drying ovens, and fully conveyORIZED equipment. Our facility maintains separate Paint Booths and heavy-duty ovens, capable of baking powder at temperatures up to 200 degrees Celsius. We provide compressed and dried air for powder coating processes.

Design and Drafting

Our Design and Drafting department employs computerized systems and the latest application software, including AutoCAD, to handle projects from the design and drawing stage to the bill of materials.

Wiring

We have liberally spaced Assembly and Wiring shops that enhance our production capacity.

Assembly and Testing

Our Assembly Shop, covering a 400 sq. ft. area, is equipped with multiple Hydraulic Bus Bar Cutting and bending machines. Bus Bars are also sleeved with heat-shrinkable PVC sleeves. Additionally, we maintain a well-stocked Switch Gear Store to support the needs of the assembly shop.

Assembly and Testing

we have a well-equipped laboratory that manages a wide array of tests. These tests include High Voltage Dielectric Strength, High voltage Megger tests for insulation, operational, and physical tests using Primary and Secondary current injectors. We also conduct specific tests such as paint thickness, scratch tests, mV drop tests for joints, torque tests for tightening of nuts at joints, conductivity tests for Aluminum and Copper busbars, titration pointage, pH value of bath solutions, and salt spray tests, to name a few. This rigorous testing ensures the highest quality and reliability of our products.



OUR CORE SERVICES

We offer a comprehensive suite of services, covering the entire spectrum of your automation requirements. From conceptualization and design to engineering, installation, and ongoing management, we specialize in using PLC systems from Siemens, Mitsubishi, and Telemecanique, as well as Soft Starters and VFDs. Our expertise extends to engineering systems incorporating PLC (programmable logic controllers), encompassing drive interface software, hardware, and operator stations. Additionally, we provide a range of AC and DC drives, including VSDs (Variable Speed Drives) and VFDs (Variable Frequency Drives) with various control options such as Vector, Linear, SLV, closed loop, and open loop controls.



Electrical Energy and Safety Audit

Similarly, we offer solutions for enhancing your energy efficiency and optimizing your operations. Our expertise spans various areas, including transformer and distribution analysis, power factor improvement, maximum demand analysis, penalty avoidance strategies, economical voltage level studies, lighting system enhancements, compressor evaluations, motor load analysis, and capacitor performance assessments. We're also well-versed in calculating specific fuel consumption (units/kg) and implementing cutting-edge technologies. With our services, you can anticipate substantial savings, typically in the range of 8% to 15%.

Power Quality Audit

We conduct a detailed study of various aspects, including load trend analysis, voltage and current unbalancing, and their impact on system efficiency. Our comprehensive assessment also covers the study of maximum, minimum, and average power parameters, quantification of harmonic levels, and the effects of harmonics on equipment such as motors, capacitors, generators, transformers, cables, and switches. We delve into the analysis of your electricity bill, power factor, tripping issues, and safety concerns. Our study aims to both qualitatively and quantitatively assess losses attributed to harmonics, pinpointing the areas of harmonic generation and providing mitigation strategies. Through our services, we can help you achieve substantial savings of around 5% or more.

D.G. Audit

We offer a comprehensive range of services, including the calculation of specific fuel consumption (units/liters) under various load conditions for both existing and different load conditions, enabling load optimization on D.G. sets and suggesting the scope of fuel saving. We conduct efficiency trials for D.G. sets, assess their load-bearing capacity, check general maintenance, and recommend measures to achieve better fuel efficiency. Our services also include providing power factor improvement suggestions, conducting techno-economic studies of new D.G. sets, and offering solutions for ad-hoc problems. These services are geared towards achieving substantial savings, typically in the range of 5% to 15%, depending on the specific conditions.

Automation and Modification

We specialize in conducting detailed system analysis and offer product upgrading through value engineering. Our services encompass the study and identification of needs for drives, sensors, and PLCs. We also provide an in-depth analysis of feedback control systems, along with the development of integrated systems and online monitoring and control systems. Our expertise extends to managing erection and commissioning projects, including automation for boilers and D.G. sets.



**Modern
Circuit®**

الشركة دائرة حديثة لوحات الكهربائية

At Modern Circuit, we are committed to delivering nothing short of perfection. This dedication is what makes us the trusted electrical switchboard manufacturer for all industry solutions. Our switchboards are renowned for their meticulous attention to detail, quality design, and on-time delivery. Our team is highly regarded as some of the most helpful switchboard engineers in the industry today.

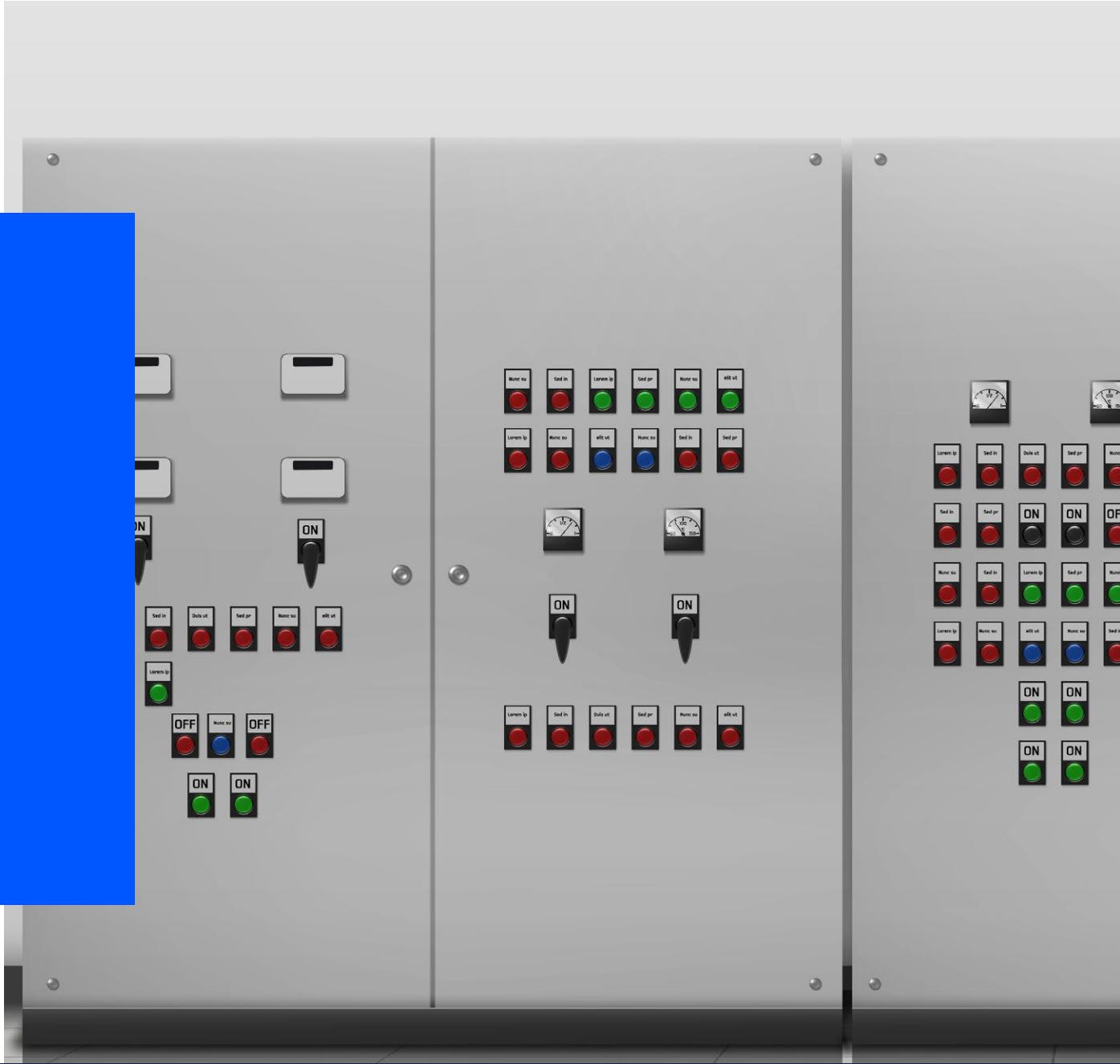
But don't just take our word for it. Get in touch with us today and discover it for yourself. At Modern Circuit, we empower you with the electrical solutions you need.

AFTER SALES SERVICES

We provide a comprehensive range of after-sales services aimed at helping organizations operate more efficiently and effectively.

- 24/7 availability of well-trained technicians for panel operation and maintenance.
- Prompt and safe resolution of electrical issues.
- Testing and commissioning services available upon request.
- Cable termination services.
- Low voltage switchgear upgrades.
- Extended warranty services.





Modern Circuit Panel Board Factory.



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