MAYAR HOLDING

MAYAR GULF INDUSTRIAL COMPANY

PRODUCT CATALOGUE 2026

MAGNETIC COMPONENTS & RELIABLE POWER SOLUTIONS.

Engineered for Performance.
Built for Industry.



www.mayargulf.com

COMPANY PROFILE

Engineered for industry.

Mayar Gulf Industrial Company supplies magnetic components and power-quality solutions for automation, machinery and electrical systems across Saudi Arabia and the GCC.

We support panel builders, OEMs, automation integrators, machinery manufacturers and EPC projects with application-specific ratings, voltage combinations and mechanical configurations. Recognized IEC references guide product design and verification according to the scope of each order.

30 VA–200 kVA TRANSFORMER RANGE	**2 A–500 A** CHOKE / REACTOR RANGE	**600–1,000** UNITS PER MONTH
50% CUSTOM / PROJECT DESIGNS	**100%** ROUTINE TESTED	**20** SKILLED TEAM MEMBERS

WHAT WE BRING TO YOUR PROJECT

01 **Broad product portfolio**
Control, voltage-conversion and isolation transformers, drive chokes and reactors.

02 **Application-led engineering**
Ratings, taps, mounting, terminals and enclosures selected for the installation.

03 **Documented verification**
Routine testing for every unit; factory acceptance testing available on request.

04 **Responsive technical support**
Product selection, drawing coordination and integration support from enquiry to delivery.

BUILT AROUND THE APPLICATION

Electrical and mechanical configurations for industrial projects, OEM production and retrofits.

CATALOGUE GUIDE

Products & industries

SELECT YOUR PRODUCT FAMILY



Control transformers

Stable auxiliary voltage for panels and automation.

04



Step-up / step-down

Voltage conversion for machinery and power systems.

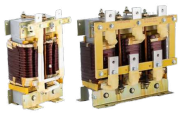
05



Isolation transformers

Galvanic separation for sensitive electrical loads.

06



Drive chokes

Line, load and DC-link components for drive systems.

07



Reactors

Current limiting, harmonic conditioning and detuning.

08

INDUSTRIES SERVED

- Industrial automation
- Switchboards & switchgear
- Electrical distribution
- Machine tools & CNC
- Packaging & textile
- Power factor correction
- Renewable energy
- Oil, gas & petrochemical
- Water & desalination
- Data centres
- Infrastructure
- Manufacturing industry

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01 / STABLE AUXILIARY POWER

Control transformers

Dedicated voltage sources for relays, contactors, PLC circuits and auxiliary equipment, with electrical separation and regulation matched to the control duty.



Control transformer • supplied product photograph

APPLICATION BENEFITS

- Voltage regulation for control and automation circuits.
- Multi-tap primary options for regional supplies.
- Base, panel or DIN-rail mounting.
- Inrush capability selected for contactor and solenoid loads.

TYPICAL SPECIFICATIONS

Power rating	Single-phase: 25 VA–5 kVA; three-phase: 25 VA–5 kVA. Custom ratings on request.
Primary / secondary	Primary: 220 / 380 / 480 V or 0 / 110 / 220 / 380 V. Secondary: 110 / 220 V or 12 / 24 / 48 V; other voltages to order.
Frequency / insulation	50 / 60 Hz • Class F or H, selected for the application.
Cooling / mounting	Natural air; alternatives on request. Base, panel, DIN rail or custom mounting.
Enclosure	Open, shrouded or enclosed arrangements; IP00–IP54 according to the specified design.

APPLICATIONS

Control panels • PLC and automation • CNC • Packaging • Textile machinery • Relay circuits • Industrial OEMs • Manufacturing industry

Smart panels and remote diagnostics increase the need for stable auxiliary power and duty-specific inrush performance.

IEC references IEC 61558-1; IEC 61558-2-2 (control transformers); IEC 60085 (insulation); IEC 60529 (enclosure protection).

02 / VOLTAGE CONVERSION

Step-up / step-down transformers

Dry-type magnetic assemblies raise or lower voltage for machinery, testing and industrial power systems. The voltage ratio and winding arrangement are confirmed at order stage.



Dry-type transformer • supplied product photograph

APPLICATION BENEFITS

- Efficient core and conductor selection.
- Single-phase and three-phase options.
- Star arrangements and terminal layouts to suit the system.
- Optional taps and project-specific impedance.

TYPICAL SPECIFICATIONS

Power rating	Single-phase: 100 VA–10 kVA. Three-phase: 500 VA–200 kVA; other ratings to order.
Voltage / frequency	110 / 220 / 380 / 440 / 480 / 600 V or project requirement; 50 / 60 Hz.
Insulation / cooling	Class F or H; temperature rise to the applicable product standard. Natural air; forced air where specified.
Taps / configuration	Optional off-circuit or on-load taps, subject to design. Autotransformer configurations available where appropriate.
Enclosure	Open construction or ventilated IP00–IP23 arrangements; IP54 options as specified.

APPLICATIONS

Imported machinery • Renewable energy • Test systems • Machine tools • Industrial panels • HVAC • Distribution • General OEM equipment

Compact, low-noise configurations and low-loss designs support retrofits, renewable systems and multi-voltage installations.

IEC references IEC 60076-11 (dry type); IEC 60076-3 (dielectric tests); IEC 60085. IEC 61558-2-13 applies to autotransformers within its scope.

03 / GALVANIC SEPARATION

Isolation transformers

Separate primary and secondary windings provide galvanic isolation. An optional grounded electrostatic shield helps reduce common-mode noise transfer to sensitive loads.



Shielded isolation transformer • supplied photograph

APPLICATION BENEFITS

- 1:1 or voltage-changing isolation.
- Optional electrostatic shielding.
- Voltage ratios and ratings selected for the load.
- Open or encapsulated construction options.

TYPICAL SPECIFICATIONS

Power rating	Single-phase: 500 VA–30 kVA. Three-phase: 1 kVA–200 kVA.
Voltage / frequency	1:1 or voltage-changing ratio; input and output to project requirements. 50 / 60 Hz.
Shielding / insulation	Optional grounded electrostatic shield. Class F or H insulation as specified.
Cooling / construction	Natural air; alternatives on request. Encapsulated arrangements available as a construction option.
Enclosure	IP21–IP66 according to the installation and approved design; open construction where specified.

APPLICATIONS

Automation • Sensitive instruments • Laboratories • Medical-support equipment • EV charging • Data centres • Oil and gas projects • Solar power industry

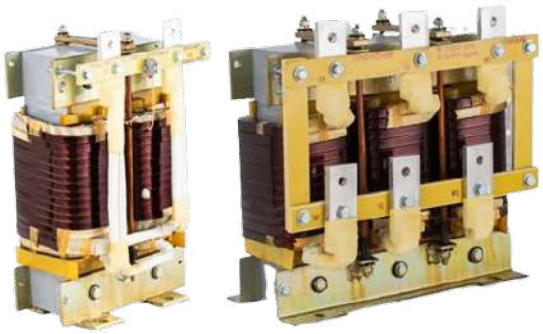
Specify nonlinear-load duty, shielding and any K-rated requirement during selection; suitability is confirmed for the individual application.

IEC references IEC 61558-1; IEC 61558-2-4 (isolating transformers); IEC 61558-2-6 (safety isolating transformers, where applicable); IEC 60085.

04 / DRIVE SYSTEM INTEGRATION

Drive chokes

Line, load and DC-link magnetic components introduce controlled impedance into drive systems to manage current distortion, switching stress and installation-specific duty.



Frame-type magnetic components • supplied photograph

APPLICATION BENEFITS

- Helps smooth the current waveform.
- Reduces rectifier and DC-bus capacitor stress.
- Supports transient and nuisance-trip mitigation.
- Line, motor-side and DC-link executions.

TYPICAL SPECIFICATIONS

Rated current	5 A–500 A or project requirement; specify drive power and operating current.
Inductance / impedance	Application-specific inductance in mH; typical impedance selection of 2–5% Z.
Voltage / frequency	Project-specific voltage; 50 / 60 Hz or duty-specific operating frequency.
Phase / position	Single-phase or three-phase. Line input, load / motor or DC-link position.
Cooling / mounting	Natural air; forced cooling on request. Base, panel or customized mounting.

APPLICATIONS

VFD systems • Motor control centres • Pumps and fans • HVAC • Conveyors • Process machinery • Industrial drives

Drive model, cable length and harmonic requirements determine the appropriate component; line and motor-side duties require separate selection.

IEC references IEC 60076-6 (reactors); IEC 60085. System-level references, where applicable: IEC 61800-5-1 and IEC 61000-3-12.

05 / DETUNING & CURRENT CONTROL

Reactors

Controlled-impedance windings support capacitor-bank detuning, current limiting and harmonic conditioning. Reactor selection must match the electrical system and compensation duty.



Civaux detuned reactor • supplied reference photograph

APPLICATION BENEFITS

- Shifts capacitor-bank resonance away from targeted harmonics.
- Helps limit capacitor-switching inrush.
- Reduces capacitor electrical and thermal stress.
- Supports reliable power-factor correction.

TYPICAL SPECIFICATIONS

Detuned compensation rating	15 kVAR–200 kVAR; rated current and capacitor duty confirmed by design.
Inductance / detuning	Specified in mH / µH or by impedance requirement. Typical detuning: 5.67%, 7% or 14%.
Voltage / frequency	System-specific voltage; 50 / 60 Hz or harmonic-specific duty.
Phase / duty	Single-phase or three-phase; continuous or project-defined operating duty.
Cooling / construction	Natural or forced air. Iron-core or air-core arrangements according to application.

APPLICATIONS

Power factor correction • Harmonic filters • Industrial drives • Steel and cement • Process industries • Renewable energy • Distribution

Provide the capacitor-bank rating, system voltage and harmonic conditions so detuning and thermal duty can be coordinated.

IEC references IEC 60076-6 (reactors); IEC 60076-1 where applicable; IEC 60085. IEC 61000-3-6 for relevant system harmonic assessments.

QUALITY ASSURANCE

Routine testing & FAT

Every unit is routine tested. The test schedule is selected for the product type, applicable standard and agreed purchase specification.

Type tests apply to representative designs or are separately specified. Factory acceptance testing can be witnessed by the client, consultant or nominated third party when agreed with the order.

Test	Purpose / verification	Reference basis
Winding resistance	Checks winding integrity and connections; provides a baseline for temperature evaluation.	IEC 60076-1 / IEC 61558-1
Ratio, polarity & phase displacement	Verifies winding ratio, terminal polarity and phase relationship where applicable.	IEC 60076-1 / IEC 61558-1
No-load loss & current	Evaluates core losses and magnetizing current at the specified test condition.	IEC 60076-1
Load loss & impedance	Checks load losses and impedance at the specified reference conditions.	IEC 60076-1
Insulation resistance	Checks insulation between windings and earth before dielectric testing.	Applicable routine procedure
Applied AC voltage	Verifies dielectric withstand between winding circuits and earth.	IEC 60076-3 / IEC 61558-1
Induced voltage withstand	Verifies inter-turn and inter-layer insulation where applicable.	IEC 60076-3
Taps & accessories	Checks taps, sensors, terminals and specified accessories.	Approved test procedure

FACTORY ACCEPTANCE SEQUENCE

01 / CONFIRM

Agree the test scope, witness points and acceptance criteria.

02 / WITNESS

Review the applicable electrical tests and physical checks.

03 / DOCUMENT

Issue results against the unit identification and order requirements.

Testing and inspection requirements are confirmed in the technical offer and approved documentation. Not every listed test applies to every product family.

MEASUREMENT CAPABILITY

Test equipment & laboratory

The measurement method and equipment are selected for the unit under test. Calibration is maintained through a traceable routine programme.

Equipment	Measurement / use
Transformer turns-ratio tester	Ratio, polarity and vector-group verification.
Micro-ohmmeter	Low-resistance winding and connection measurements.
Dielectric test equipment	Applied and induced withstand tests using the appropriate source.
Insulation tester, up to 10 kV	Insulation resistance and polarization measurements where specified.
Loss / impedance test bench	No-load current and loss; load loss and impedance.
Multichannel temperature logger	Thermocouple measurements for temperature-rise evaluation.
Power-quality analyser	Waveform and harmonic measurements for choke / reactor duty.
Partial-discharge detector	Dry-type / cast-resin testing when required by the specification.
Sound-level meter	Sound measurements with reference to IEC 60076-10.
Impulse test equipment	Purchase-order-specified lightning impulse testing.



Illustrative testing environment

SPECIFY THE RIGHT MAGNETIC COMPONENT

Product selection guide

Start with the system duty, then define the electrical rating, operating environment and installation constraints.

Product family	Primary purpose	Typical range	Key selection inputs
Control transformer	Auxiliary / control power	25 VA–5 kVA	Control voltage, inrush, regulation, mounting.
Step-up / step-down	Voltage conversion	1φ: 100 VA–10 kVA 3φ: 500 VA–200 kVA	Ratio, phase, taps, load duty, enclosure.
Isolation transformer	Galvanic separation	1φ: 500 VA–30 kVA 3φ: 1–200 kVA	Ratio, shielding, load characteristics, IP rating.
Drive choke	Drive-system impedance	5 A–500 A	Drive rating, line / load / DC duty, cable length, %Z.
Reactor	Detuning / current control	15–200 kVAR detuned	Bank rating, voltage, harmonics, detuning, thermal duty.

ENGINEERING CONSIDERATIONS

Mechanical fit

Mounting centres, terminal access, clearances and enclosure dimensions.

Core & conductor

Loss, current density and thermal performance matched to operating duty.

Insulation system

Thermal class selected with reference to IEC 60085 and product requirements.

Application support

Voltage taps, ratings, test scope and drawings coordinated with the project.

Production verification

Routine electrical checks and physical inspection against the agreed design.

Operating environment

Ambient temperature, ventilation, duty cycle and installation conditions.

INFORMATION FOR YOUR ENQUIRY

Product duty • Quantity • Input / output voltage • Phase and frequency • VA / kVA, A or kVAR • Ambient conditions • IP rating • Mounting limits • Required tests and documentation

Confirm at order stage. Ratings shown are typical catalogue ranges. Final electrical data, dimensions, enclosure rating and applicable IEC requirements are defined in the approved offer and drawings.



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