

imeb

STANDARDIZED MEDIUM AND LOW-VOLTAGE SWITCHBOARDS

NEXT

The product quality and service quality offered by IMEB are the result of years of experience manufacturing Standardized Medium- and Low-Voltage Switchboards for power transformation and distribution plants.

The switchboards and modular container units produced and fitted by IMEB comply with safety and environmental standards and regulations and can be easily adapted for installation in the space available. IMEB products are the result of on-going developments in design and technology and use of advanced equipment. ISO 9000 certification and Italian CISO certification attest to the outstanding technological levels adopted by IMEB in its entire product range.

FLEXIBILITY

SAFETY

EASY INSTALLATION

SIMPLE OPERATION

ASSISTANCE

are the strengths guaranteed on all IMEB products

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HEADQUARTERS AND PRODUCTION FACILITY

IMEB. srl

IMEB's corporate headquarters and production facility are located in the northern Italian town of Acqui Terme, on the S.S. 30 between Alessandria and Savona. The site covers a total surface area of 25,000 m².

PRODUCTION FACILITY

Aided by advanced technological equipment, IMEB engineers work in a 5,000 m² state of the art facility optimized for the production of standardized medium- and low-voltage switchboards.

Although manufacturing operations are geared to mass production standards, the company offers the flexibility to develop products to individual customer specifications.



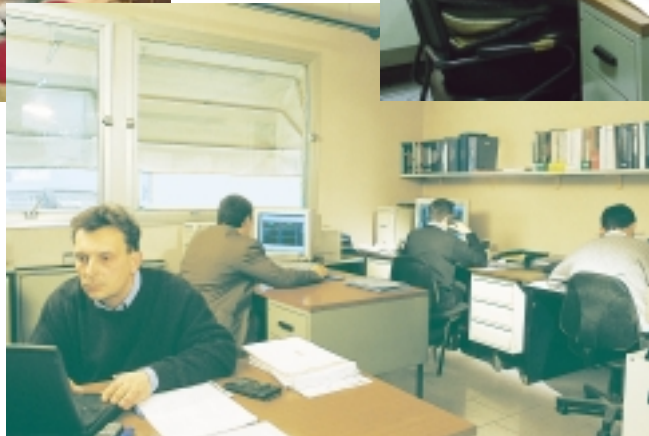
DESIGN

At IMEB, skilled engineers use advanced CAD technology to design electrical gear, develop installation areas and write programs for the numerical control tools. A special platform handles an automatic numbering system for power circuits and secondary circuits. The Technical Office provides support for all standard deliveries and for bespoke jobs where custom models are developed to meet specific customer or installation needs. The IMEB project development process guarantees compliance with all international safety and protection standards through use of fully tested devices. Each section and each connection is designed to ensure safe access and easy manoeuvres by fitters and users.



DESIGN

A careful selection process ensures that only the best materials on the market are used for board frames, casings and enclosures, and for electrical components. The project provides for the entire unit to be earthed, and specifies the segregations between cells and circuit breakers to prevent the possibility of contact with live components during access to equipment. It also takes account of board appearance, paying special attention to finishes, design and esthetic impact.



PRODUCTION SHOPS and EQUIPMENT

In the factory, machining operations are handled by a series of production shops employing the latest equipment and implementing standards-compliant safety and anti-accident systems for operator protection.

SHEET METAL SHOP: this is where metal sheets are stored and machined, using computerized numerical control pressure folding machines, shears, punching presses and nibblers.



PRODUCTION SHOPS and EQUIPMENT

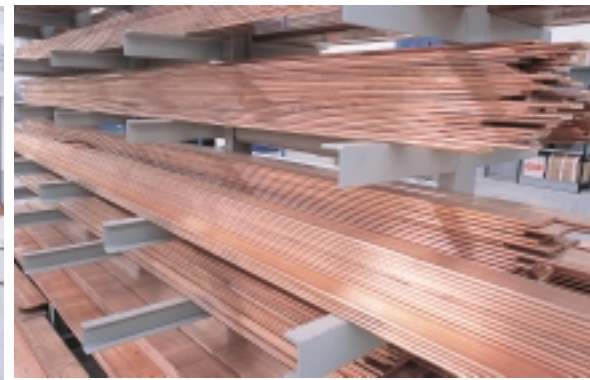
WASHING SHOP: here, an automatic conveyor transports the sheets through a tunnel for high-pressure washing, degreasing and phosphating.

PAINT SHOP: work in the paint shop, which is linked to the washing shop by an automatic conveyor, is handled by a sophisticated plant which includes a drying oven for epoxy varnishes. The plant offers a high throughput capacity and is fully compliant with environmental regulations.



PRODUCTION SHOPS and EQUIPMENT

COPPER SHOP: here, copper bars are stored ready to be cut, punched and folded with computerized numerical control equipment, according to project specifications.



PRODUCTION SHOPS and EQUIPMENT

WELDING SHOP: this area is equipped with welding benches, continuous wire welding tools and spot welders.



PRODUCTION SHOPS and EQUIPMENT

ASSEMBLY SHOP: units are assembled in this area, with the aid of pneumatic lifts and hoists, stands and tool benches

ELECTRIC CABLING SHOP: with fully equipped benches for electric circuit and component assembly.



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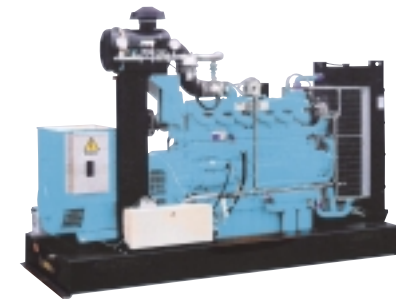
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PRODUCTION SHOPS and EQUIPMENT

TEST SHOP: IMEB products undergo tests to the most exacting standards. Equipment in the test shop includes a 175 Kv transformer, a spark gap, industrial frequency voltage test equipment and a test bench for low-tension switchboards.



STOREROOM: for electric cables, switches, circuit breakers and related medium- and low-voltage devices, MV and LV transformers and secondary transformers, power units. The storeroom is also used as a parking area for factory vehicles.



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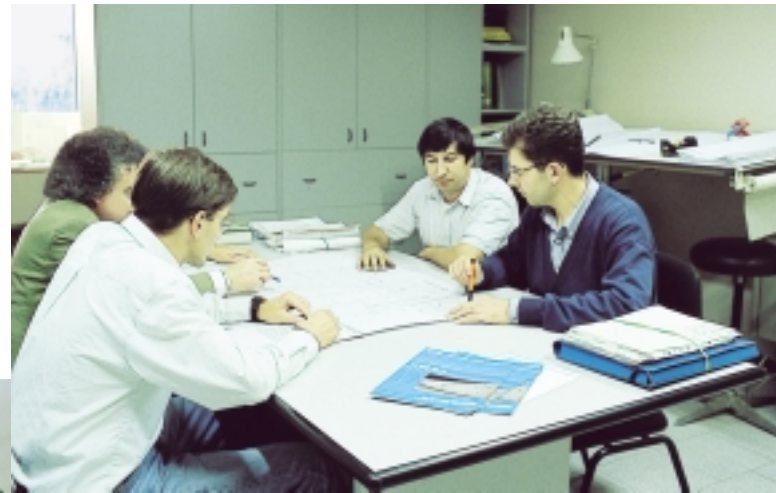
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PRODUCTION SHOPS and EQUIPMENT

ADMINISTRATIVE OFFICES AND SHOWROOM: the administrative department includes the accounting, billing and procurement offices, which are linked to a local area network for information management and Internet access. The showroom includes a visitor reception area, representatives lounge and conference room.



MV-SWITCHBOARDS

STANDARDIZED MEDIUM-VOLTAGE SWITCHBOARDS

IMEB's metal-enclosed and metal-clad standardized medium-voltage switchboards are known as the U series.

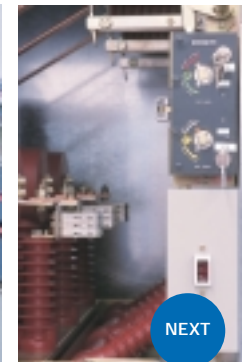
These switchboards, suitable for distribution systems with a rated voltage up to 24 kV, consist of standardized compartments fitted with equipment from the ABB group or Groupe Schneider.

Key features include:

- **COMPACT DIMENSIONS AND MODULAR UNITS**

for installation on sites of all sizes.

All equipment manoeuvres are performed from the best companies



MV-SWITCHBOARDS

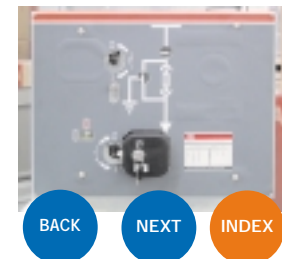
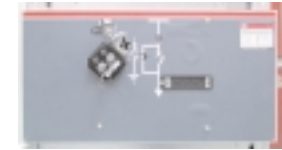
AIR/GAS METAL ENCLOSED MEDIUM-VOLTAGE SWITCHBOARDS. IMEB's air/gas metal enclosed are compliant with the international IEC 60298 standards, the Italian CEI EN 60298 standards and CENELEC HD 187 S5. Air insulation is guaranteed for all the live parts of these modular boards. Key features of IMEB air/gas boards are: – Modularity, to support multiple solutions – Compact dimensions – Segregation of bus-bar and line compartments – Easy access to equipment controls

User safety is guaranteed by:

- Compartment segregation with XP2 protection
- Metallic segregation and earthing guaranteed by stainless steel isolator casing
- Guaranteed insulation even in environments with high pollution levels



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MV-SWITCHBOARDS

STANDARDIZED METAL-CLAD MEDIUM-VOLTAGE SWITCHBOARDS

IMEB metal-clad switchboards support rated voltages up to 24 kV with bus-bar rated currents up to 3150 A and 1 sec short-time withstand currents up to 40 kA.

These boards consist of standardized compartments fitted with circuit breakers and contactors, to permit customization according to plant requirements.

Operator safety is guaranteed by special blocks, mechanical signals and inspection windows.



LV-SWITCHBOARDS

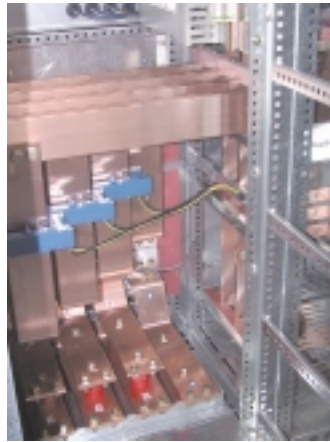
STANDARDIZED PROTECTED LOW-VOLTAGE SWITCHBOARDS

The low-voltage power centers and motor control centers in IMEB's Modul series are fitted with equipment from the ABB group, Groupe Schneider, Ticino, Siemens and other leading manufacturers.

Based on leading-edge electrical engineering technology, these highly compact modular units provide the highest levels of standardization and various classes of segregation.

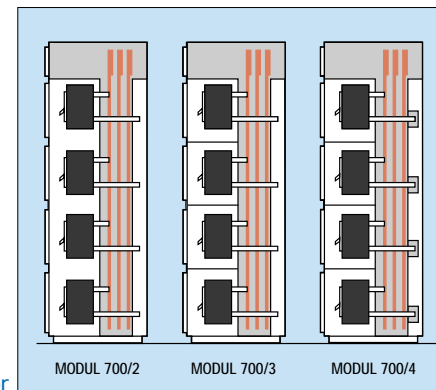


LV-SWITCHBOARDS



PROTECTION

- panels on all sides of each group of modules
- internal metal partitions between the front of the compartment (circuit-breakers) and the rear of the compartment (bus-bars)
- Three classes of segregation are available:
 - / Form 2: separation of bus-bars from functional units
 - / Forma 3: separation of bus-bars from functional units + separation of functional units from one another
 - / Form 4: separation of bus-bars from functional units + separation of functional units from one another + separation of terminals from one another



LV-SWITCHBOARDS

electrical characteristics

- rated service voltage	400 V
- rated insulation voltage	690 V
- frequency	50 Hz
- short-time current for 1 second	100 kA
- permitted peak current	220 kA
- industrial frequency test voltage:	
- / power circuits	3500 V
- / auxiliary circuits	2000 V

standards compliance

CEI EN 60439-1

protection

- on outer casing standard	IP 30
- with double door	IP 42

operating conditions

- min/max ambient temperature	40 C
- max. altitude	2000 mt slm.

standard finishes and varnishes

- embossed	RAL 7030
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MV-SWITCHBOARDS

- **MAXIMUM SERVICE CONTINUITY**

the compartment segregations ensure that replacement of components – fuses, instrument transformers, circuit breakers, terminals, etc. – is quick and completely safe, even when the board is live.

On request, IMEB will install accessories such as shunts with capacitor voltage dividers, internal lighting with live-board lamp replacement, anti-condensation thermostatic heating elements, low voltage compartment, measuring and protection relays, manipulators, signal lamps.



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