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Introduction to Palazzoli Systems

Palazzoli
F.P.B.



Safety & Progress

2004 Edition

Palazzoli S.p.A.
Chairman

An important step

The desire to develop components for electrical systems with an unmistakable identity and technical value has always been intrinsic in Palazzoli's work. It is obvious that this desire has been fulfilled with success and innovative ability since 1904.

The primary feature of Palazzoli products, both past and present, is the high performance over the years. And the satisfaction, equally long-lasting, of the end client is one of the fundamental values to which Palazzoli has always referred, in the awareness of its priority as a growth factor.

Motivation of the personnel and a highly professional approach have been and continue to be strategic elements of success and the creation of value in the Palazzoli world.

Starting from these bases, of which it is justly proud, Palazzoli intends to continue in the forefront in the electromechanical world by implementing all the initiatives that can increase the skills, creativity, intelligence and active participation of all its collaborators.

With these convictions, and sharing these values, I have taken over the baton for the race towards Palazzoli's hundred years. I have faith that the Team will celebrate them in good health, in its own interest and that of its clients

Eng. Luigi Moretti



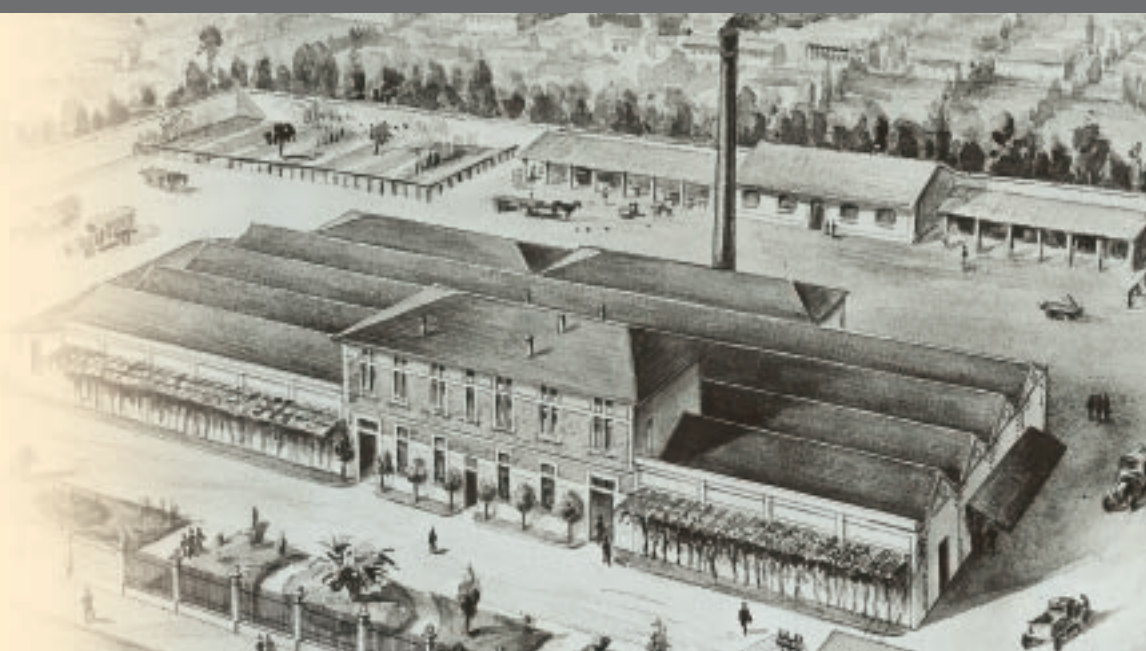
100 years of innovative and successful products



In 1904, in the days of candlelit home and gas streetlights, Federico Palazzoli, born 1881, had a brilliant idea: electricity would be Italy's future. 50,000 Italian lira of partnership capital, a small room, two service counters and the Palazzoli company opens business by specialising in the production of electrical appliances, selling electrical supplies and outfitting motor-drive and lighting industrial systems.

It was not easy at the beginning. The lack of manual labour and firms capable of supplying the necessary semi-processed goods, as well as the ruthless competition blocked production. How was this problem to be solved? By facing it head on with all the imaginable energy, creativity and dedication. It is the one thing that has never changed during the company's 100 years.

Today, more than 5,000 articles in the catalogue cover many of the daily needs of millions of people in the world. From the garage light bulb to a complex industrial warehouse system, from a fishing boat's light to the lighting equipment of a transatlantic liner: there's no risk in claiming that Palazzoli has conquered 130,000 km² of the earth's surface area.



100 years of innovative and successful products

A CONSTANT FACTOR: THE IMPORTANCE OF HUMAN RESOURCES

The evolution of Palazzoli products is strictly connected to the evolution in materials. The updating of these products has nonetheless been of interest to a company which has always aimed at experimentation and quality. The introduction of new material brought about massive reconstruction of machinery, equipment, divisions...

From the beginning: the foundries were created from scratch for the production of cast iron, later adapted for the processing of light alloys with the advent of aluminum. The first applications of bakelite which allowed insulators with constant features, reduced size, lowered tolerances, date back to 1930. 1971 was the year of polyester resin reinforced with glass fibre. Thermosetting and insulating plastic materials begin to prevail thanks to their high performance electrical and mechanical properties. This brought about substantial transformations in moulding and equipment.

Leaving aside the technologically-oriented modifications, the most constant and determining factor was man's intellectual contribution. On all levels and performances. Entrepreneurial flexibility has always distinguished the Palazzoli management; engineering intelligence is the foundation of technological innovation; the preparation and application of skills are the key ingredients of the company's success.



EXCELLENCE IS STANDARD FOR US

In Palazzoli, every innovation becomes a reference standard in the sector. For example: the blue used by the company from its beginnings to make its products recognisable has become the sector colour par excellence, automatically associated with the electrical equipment used in industrial contexts. Even today, despite the fact that the regulations prescribe different colours. It is a colourful note which says a lot about Palazzoli's excellence. Numerous the revolutionary products that have not only become standards in the electrical technology world, but have introduced new concepts in design research. "Reference" products/concepts.



A luminaire named "turtle". Its structural design is still up-to-date, to such an extent that similar models are still present on the market today.

Modular distribution boards, or rather the possibility of assembling types of different containers according to shape, size and usage. The idea's basic modularity concept is a testing ground for many product lines that are different from the distribution boards.



Industrial interlock sockets for heavy duty use, for quick-wiring and assembly in a clean aesthetic line. A breakthrough which preserves the safety concepts from the past.

Industrial mobile connectors and plugs. The first ones were created without screws to allow assembly of the various components and cable clamping. A new structural concept with a dual advantage: rapid installation and the highest security in carrying out repeatable and non-subjective operations. A new standard.



Industrial interlocked sockets with fuse monitoring. A new standard for the interface has been established for the expert and novice user alike: the monitoring system of the drive fuses which safely and easily identifies when it is necessary to replace fuses, following their intervention.

4 volumes for specific solutions

Installation systems



INDUSTRIAL DISTRIBUTION BOARDS,
SOCKET-OUTLETS AND PLUGS



ENCLOSURES, CONTROL UNITS AND FITTINGS



MEASURING INSTRUMENTS CONTROL



PROTECTION AND SIGNALLING DEVICES



SMALL DEVICES FOR CONTROLLING,
USING ENERGY AND SIGNALLING



LIGHTING APPLIANCES



Components for distribution boards



MEASURING INSTRUMENTS



CONTROL DEVICES FOR STANDARD USE



CONTROL DEVICES FOR HEAVY DUTY USE

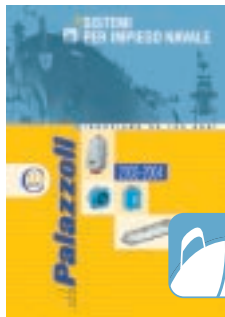


PROTECTION DEVICES



Solutions for every applicative need

Systems for marine use



FIXED INTERLOCKED SOCKET-OUTLETS

ENCLOSURES AND FITTINGS

SMALL DEVICES FOR CONTROLLING AND USING ENERGY

FIXED AND MOBILE PLUGS AND SOCKET OUTLETS

CONTROL, PROTECTION AND SIGNALLING DEVICES

LIGHTING APPLIANCES



Atex systems



STRAIGHT PLUGS AND FIXED INTERLOCKED SOCKET-OUTLETS

ENCLOSURES AND FITTINGS CONTROL

PROTECTION AND SIGNALLING DEVICES

SMALL DEVICES FOR CONTROLLING AND SIGNALLING

LIGHTING APPLIANCES



Italian business references

Purpose of the Supply	Client	Place of installation
EEC Series Plugs and Sockets Junction Boxes	Ansaldo Sistemi Ind	Genoa
Control appliances	Ansaldo Trasporti	Naples
Containers, light plugs	Ansaldo Sistemi	Montalto di Castro NUCLEAR POWER STATION
Special switches	Ansaldo Trasporti	Naples - Ships
Sundry industrial material for Electrical Energy distribution	Fiat	Turin
Control appliances	Marina Militare Italiana	La Spezia
Sundry industrial material	Enea	Rome
Sundry material	Italtel Telesis Milan	Milan
Switches	Metropolitan	Milan – Rome – Naples
Headlights	Italian State Railways	Turin – Milan – Florence
Distribution boards	RAI: Radio Televisione Italiana	Rome
Naval electrical material	S.N.A.M. – Petrochemical systems	Mediterraneo
EEC Plugs, Sockets and Boxes for naval use	Fincantieri Navi	Ancona
Naval electrical material	Fincantieri Navi	Trieste
Naval electrical material	Fincantieri Navi	Leghorn
Naval electrical material	Fincantieri Navi	Castellammare
Plugs, sockets, containers and sundry material	Italmobiliari	Italsider - Bagnoli - Steelworks
Plugs, sockets, containers and sundry material	Enel	Milan - Rome - Savona Electricity Power Stations
Plugs, sockets, containers and sundry material	Aeronautica Militare	Ghedi - Airport
Plugs, sockets, containers and sundry material	Comau	Turin
Plugs, sockets, containers and sundry material	Cogea	Genoa - Ships Plugs
Sockets, containers and sundry material	Nuovo Pignone	Florence - Carrara - Electricity Power Station
Plugs, sockets, containers and sundry material	Buini & Grandi Emergency units for civil defense	Rome
Plugs, sockets, containers and sundry material	Ilva	Taranto
Plugs, sockets, containers and sundry material	Ferrari	Modena
Plugs, sockets, containers and sundry material	Beretta Firearms Manufacturer	Brescia
Plugs, sockets, containers and sundry material	AA.E.M. CENTRALE Services Block	Cassano D'Adda (MI)
Plugs, sockets, containers and sundry material	PRADA - factory	Levane (AR)
Plugs, sockets, containers and sundry material	PRADA - factory	Piancastagnaio (SI)
Plugs, sockets, containers and sundry material	TELECOM – Services Center	Turin
Plugs, sockets, containers and sundry material	ALenia SPAZIO	S. Maurizio Canavese (TO)
Plugs, sockets, containers and sundry material	factory LEGRAND	Alessandria production unit

Foreign business references

Purpose of the Supply	Client	Place of installation	Country
Plugs, sockets, containers and sundry material	Cavotec - Dubai	Desalination plant	Abu Dhabi
metal containers	Nhp - Melbourne	Electricity Power Station	Australia
Plugs, sockets, containers and sundry material	Italimpianti	Tubarao - Port	Brazil
Site panels	Casagrande - Pordenone	Chernobyl Electricity Power Station	C.I.S.
Sockets, switches and containers	Danieli - Udine	Sumy – Steelworks	C.I.S.
Plugs, sockets, containers and sundry material	Italimpianti	Steelworks	C.I.S.
Plugs, sockets, containers and sundry material	Danieli- Udine	Steelworks	C.I.S.
Waterproof panels	C.A.E. - Cremona	Sumy – Electricity power station	C.I.S.
Plugs, sockets, containers and sundry material	Elettraprogetti		China Indonesia
CAM switches	Electro George - Cairo	Purification plant	Egypt
CAM switches	Stronalva - London	Electrical energy distribution	Great Britain
Plugs, sockets and fuses	Dynamic	University of Athens - R&D	Greece
Interlocked sockets and metal containers	Ansaldo Temm - Budapest	Electricity Power Station	Hungary
Plugs, sockets and switches	Italimpianti	Bandar Abbas - Port	IRAN
Plugs, sockets, containers and sundry material	Cremonesi - Genoa	Ansaldo - Italimpianti Electricity Power Station	IRAN
Plugs, sockets, containers and sundry material	Feam	Port	IRAN
Plugs, sockets, containers and sundry material	Kala Naft - Tehran	Port	IRAN
Plugs, sockets, containers and sundry material	Irasco - Genoa	Steelworks	IRAN
Plugs, sockets, containers and sundry material	Cavotec - Dubai	Port	Kuwait
Distribution boards	J & P– Athens	Airport	Libya
Interlocked plugs and sockets in thermosetting	Medoil - Düsseldorf	Azzawija - Refinery	Libya
Metal containers and sockets-outlets	Mago - Jelenia Gora	Copper Mines	Poland
Distribution boards	Efacec - Carnaxide	Electrical energy distribution	Portugal
Plugs, sockets, containers and sundry material	Cavotec - Dubai	Electricity Power Station	Saudi Arabia
Plugs, sockets, containers and sundry material	N.R.W.D. - California	Dam	USA
Plugs, sockets, containers and sundry material	Black & Veatch	Nantong Electricity Power Station	USA – China
Switches	Eltraco Consortium	Al Mukha– Electricity Power Station	Yemen

Palazzoli interlocked socket-outlets

PRIMA SERIES

Compact horizontal socket-outlets for distribution boards installation, in thermoplastic material.



A size for all versions with or without fuses, up to 32A, with protection rating IP44 and IP67. Extends horizontally in order to reduce bulk and protrusion. Continual fuse monitoring is ensured thanks to the **FUSEGUARD** system.

TER SERIES

Socket-outlets for distribution boards installation, in thermoplastic material.



We have achieved the highest of standards in designing and manufacturing the TER series for the end user. The sockets from the TER series guarantee solutions for every need of energy use, up to 63A with protection rating IP55, in the service sector and small industries.

SERVICE INDUSTRIES LIGHT INDUSTRY BUILDING-SITES



New pavilions for the Milan Exhibition Halls at Portello. Distribution boards made with TER and TAIS series interlocked socket-outlets.



Plastics moulding department. Injection press equipped with TER series interlocked socket-outlets.



Touristic harbour.



ULYSSE SERIES

High performance wall mounting socket-outlets in thermosetting material.



This is an advanced and patented modular system of interlocked socket-outlets used for making superior performance distribution boards. The range comprises interlocked sockets from 16A up to 63A, IP66 and IP67.

Also available in the
ATEX version



TAIS SERIES

Wall mounting socket-outlets for heavy duty use, in thermosetting material.



This is the most complete series of interlocked socket-outlets in thermosetting material used for making heavy duty distribution boards. The range comprises interlocked sockets from 16A up to 125A, IP65/67.

Also available in the
ATEX version



ALUPRES SERIES

Wall mounting socket-outlets for heavy duty use, in aluminium alloy.



Set of die-cast aluminium sockets that can be used in numerous compositions of distribution boards for heavy duty use with sockets up to 500A, IP55/67.

Also available in the
ATEX version



HEAVY INDUSTRY FARMS FOOD INDUSTRY BUILDING SITES, QUARRIES AND PORT AREAS



Assembly department in a prestigious car factory. The electricity is distributed by TAIS series distribution boards.



Steelworks.



Turbine assembly department in the Nuovo Pignone, General Electric Group factory (Florence) with distribution boards in aluminium alloy.



Industrial plugs and socket-outlets

MULTIMAX SERIES

Rapid wiring plugs and sockets.



It is the only series of protected mobile industrial plugs and sockets that can be cabled in only 19".

DESIGN PLUS

Design Plus 2000 Prize for the sockets and connectors category

CEE SERIES

Fixed and mobile high performance industrial plugs and sockets.



The CEE series offers a vast variety of high performance wall, board-mounted and mobile plugs and sockets with currents from 16A to 250A, IP44 and IP67.

Also available in the ATEX version



TER SERIES

Fixed and mobile high performance industrial plugs and sockets.



Characterized by a unified flange, the offer comprises 16A and 32A IP44 and IP55 industrial sockets complete with flanged boards with provision for modular appliances for EN 50022 guides.

SERVICE INDUSTRIES LIGHT INDUSTRY BUILDING-SITES HEAVY INDUSTRY



Photographic studio. The connections are made with MULTIMAX series black non-reflecting mobile plugs and sockets.



Trade shows. Mobile connections made with MULTIMAX series quick cabling plugs and sockets.



Industrial carpenters.



Containers, control units and appliances for control, picking and signalling

PH - TAIS - ALUPRES - TAIS MIGNON SERIES

Modular boxes and containers, waterproof control units, in thermoplastic, thermosetting, aluminium. Also available in the **ATEX** version. 



CONTACT - UNI SERIES

Terminal boards, unions and cable clamps.

Also available in the **ATEX** version. 



TAIS MIGNON - RONDÒ - PT60 - SPIN SERIES

Small modular appliances, civil type plugs and sockets.

Tais Mignon and Rondò also available in the **ATEX** version. 



ALARM SERIES

Waterproof aluminium bell and siren systems.

Also available in the **ATEX** version. 



SAFE SERIES

Board and wall fuse holder groups in aluminium alloy containers.



Rotary control devices

CAM and CAM-ST

Rotary control devices.



A complete range of rotary control appliances in wall, board or cabinet mounted versions with door lock, in thermoplastic, thermosetting and aluminium alloy material from 16 A to 1200A, IP65/67.

Also available in the **ATEX** version 

SERVICE INDUSTRIES LIGHT INDUSTRY HEAVY INDUSTRY



Tools room with rotary control devices in aluminium alloy enclosure.



Building site and AS type cabled boards

TER, ENERGYBOX and TAIS SERIES Building site boards.



TER

A rational range of portable boards in thermoplastic material for the small building site or usable as floor boards



ASC Composer

Design and quotation software for construction site distribution boards.



EnergyBox

The New EnergyBox series is a complete range of ASC construction site panels for wall or stand installation, designed to meet all power distribution needs on site.



TAIS

This is a highly professional range of AS and ASC cabled building site boards for wall or stand installation in thermosetting material.

BUILDING-SITES



Small building site.



Medium-sized building site



Large building site.



Lighting fixtures

NAUTILUX SERIES

Lighting units for furnishing.



Oval ceiling lights for indoor IP44 and outdoor IP66 in solid polished brass. Heat resistant and acid etched molded glass diffuser.

RINO SERIES

Lighting fixtures in aluminium alloy.

Also available in the
ATEX version



Lighting products made with extremely high quality standards comparable to those defined for products for industrial use. The offer comprises ceiling lights and spotlights with a power from 60W to 200W for incandescent light bulbs or from 5 to 9W for fluorescent light bulbs, IP65.

RINO SERIES

Stainless steel ceiling lights.

Also available in the
ATEX version



Waterproof IP55 and IP66 stainless steel ceiling lights with glass or polycarbonate diffusers and three types of power supply. They are characterized by the aluminium reflector with special anodic oxidation and polished finish resistant to corrosive action.

SERVICE INDUSTRIES LIGHT INDUSTRY BUILDING-SITES HEAVY INDUSTRY



Entrance to management rooms with lighting made with Nautilux series oval indoor lighting fixtures.



Canteen.

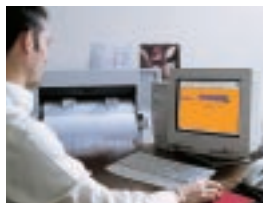


Offshore oil rig



Made-to-measure customer service

55174



Nothing is more difficult than satisfying man's needs. Translated into entrepreneurial terms, nothing is more difficult than satisfying the needs of the individual customer and his specific problem. Palazzoli has focused on creating "personalized" dialogue as a means of identifying demands and their solutions. Within the range, the customer has a complete variety of possible solutions for his problems. Technical assistance is a guarantee for adjusting custom made applications in the two intervention ranges: ad hoc selection and creating products from square one. Service is always active due to the vast knowledge and skill. Contact with the technical and design department is guaranteed by the Technical and Sales Service telephone line. Available to our designers for the benefit of our customers. Software systems for developing projects, technical and commercial library, and a digital library for technical design. Our Internet website is constantly updated with the latest innovations; it allows precise reference to the catalogue and constant contact with the company. More than a virtual presence; a concrete presence. We like to think of it as an updated, online version with Mr. Palazzoli, in his brown suit and Tuscan cigar.



GENERAL CATALOGUE SOFTWARE in Italian, English, French, Spanish and German.

This is a practical tool that helps in selecting and buying Palazzoli products. The drawings, photographs and technical characteristics shown give an instant view in order to immediately evaluate the items according to the use required. The catalogue is present on our website at www.palazzoli.com. The software is free. Ask to the **TECHNICAL AND SALES SERVICE** visiting our website www.palazzoli.com.

ASC COMPOSER

Construction Site Distribution Board Designing And Estimation .

Using a series of basic configurations and automatic controls, this software ensures rapid planning with a list of necessary components and their price.

SB COMPOSER

Distribution Board Designing And Quotations.

This is a rapid and guided design software program, which helps you make PRIMA, TER, ULYSSE, TAIS and ALUPRES distribution boards. After learning all the functions, you can design quickly and easily and print your quotation request.



PRICE LIST ON MAGNETIC MEDIUM

The price list format is easily downloaded from our website at www.palazzoli.com. The price list update on 3" 1/2 floppy disks is available on request for all Palazzoli's customers.

www.palazzoli.com

INTERNET SERVICE

Palazzoli is on the web at www.palazzoli.com offering a full range of on-line services. These services are completely free: just register yourself to use them immediately.

 **Palazzoli**



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