Tastiere Elettroniche Integrate

ISO 9001 CERT 9101.KTRO

ISO 14001 CERT 9191.KTRN

K-TRONIC SRL
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Registro Imprese Tribunale di Torino n. 2843/81
R.E.A. n. 596331 della C.C.I.A.A. di Torino – AIA 254100
C.F./Part. IVA 03873380012
N° registro. A.E.E. * IT08040000004962

Company profile

Founded in Turin in 1981, K-TRONIC is one of the first Italian companies to specialize in the production of **membrane keypads for industrial use**.
Thanks to a highly specialized team, K-TRONIC has achieved success realizing every type of keyboard the market requires.

K-TRONIC **manages the design, engineering and manufacturing of *industrial keyboards, front panels, operator terminals and mice*** of the highest customized standards for applications in the civil, industrial, railway, marine, medical, and military industries.

K-TRONIC pays particular attention to:

ELECTRONIC DESIGN OF COMPREHENSIVE SOFTWARE INTERFACES
PRODUCTION OF FLEXIBLE, SERI-GRAPHED, PRINTED CIRCUITS IN MULTIPLE COLORS
RAPID PROTOTYPING
PRE-PRODUCTION SAMPLE DEVELOPMENT
FINAL PRODUCTION

Company policy

In order to meet the customization requirements of all clients, K-TRONIC stocks all semi-finished products including; screen prints in various colors and languages, mechanical components, pre-assembled electronic boards, and a complete range of interfaces with micro-controllers.
The good technical results obtained, the acquisition of new market shares, the growth in turnover have ensured that in 1996 a new project of a new unit was wanted and implemented production in the industrial area of Druento.
In January 1998, after tremendous growth and continued development, a new production unit was was established in Druento (Turin), covering an area of 530 m2 spread over 2 floors.
A mechanical department for the production of keyboard brackets was also created in order to complete the automatization and enhance efficiency of the production cycle.

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The good market trend and constant growth in turnover has allowed the Company to continue the investments aimed above all at increasing the human resources of the equipment production machinery during the period 2002-2004. So it was decided again to expand the structure of the production unit bringing it, in 2005, from 550 m2 to approximately 1900 m2, while in June 2018 the adjacent 662 m2 warehouse was purchased, thus making a decisive step forward in the organization of internal work and opening the doors to the achievement of even more ambitious goals.

Currently, K-TRONIC's production processes take advantage of the following advanced technological tools:

- digital printers
- pick and place
- screen printing machines
- photocopiers for the photoengraving of printed circuits
- electronic cutters
- vapor phase
- laser cutting machines
- die cutter
- cnc pantograph
- sandblaster
- bending machines
- three-dimensional models of printers for rapid prototyping
- resin vacuum casting systems for plastics and elastomers

Quality

K-TRONIC's main goal is customer satisfaction. We achieve this by constantly improving the the production technology, staff training, supplier qualification, machinery and equipment efficiency, and safe environmental management practices.
Our company has been rewarded various times for its commitment to environmental protection and the highest production standards.

Hereby, we would like to highlight the corporate guidelines for quality, environmental protection, and work safety, in order to share our goals and achievements with our stakeholders (employees, customers, suppliers, public institutions, etc.).

K-TRONIC's corporate guidance policy:

- To comply with the legal regulations and, where laws and regulations do not exist, to follow standards identified with a sense of responsibility.
- To spread a philosophy that promotes quality, respect for the environment, and safety.
- To prevent pollution, safeguard the environment, reduce energy consumption, emissions and production wastes.
- To enhance and empower our employees; a key element in the achievement of our corporate objectives

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To optimize the production process in order to achieve a competitively priced, quality product that complies with the requirements of the clients and exceeds their expectations.
To use equipment, resources and raw materials thoughtfully and rationally, while considering their impact on the environment and their potential risk to health and safety.
To develop and extend information, communication, education and training to ensure efficient and effective implementation of our integrated systems

K-TRONIC considers dedicated financial, technological and professional resources a productive investment and a significant element of its commitment to quality, safety and environment protection

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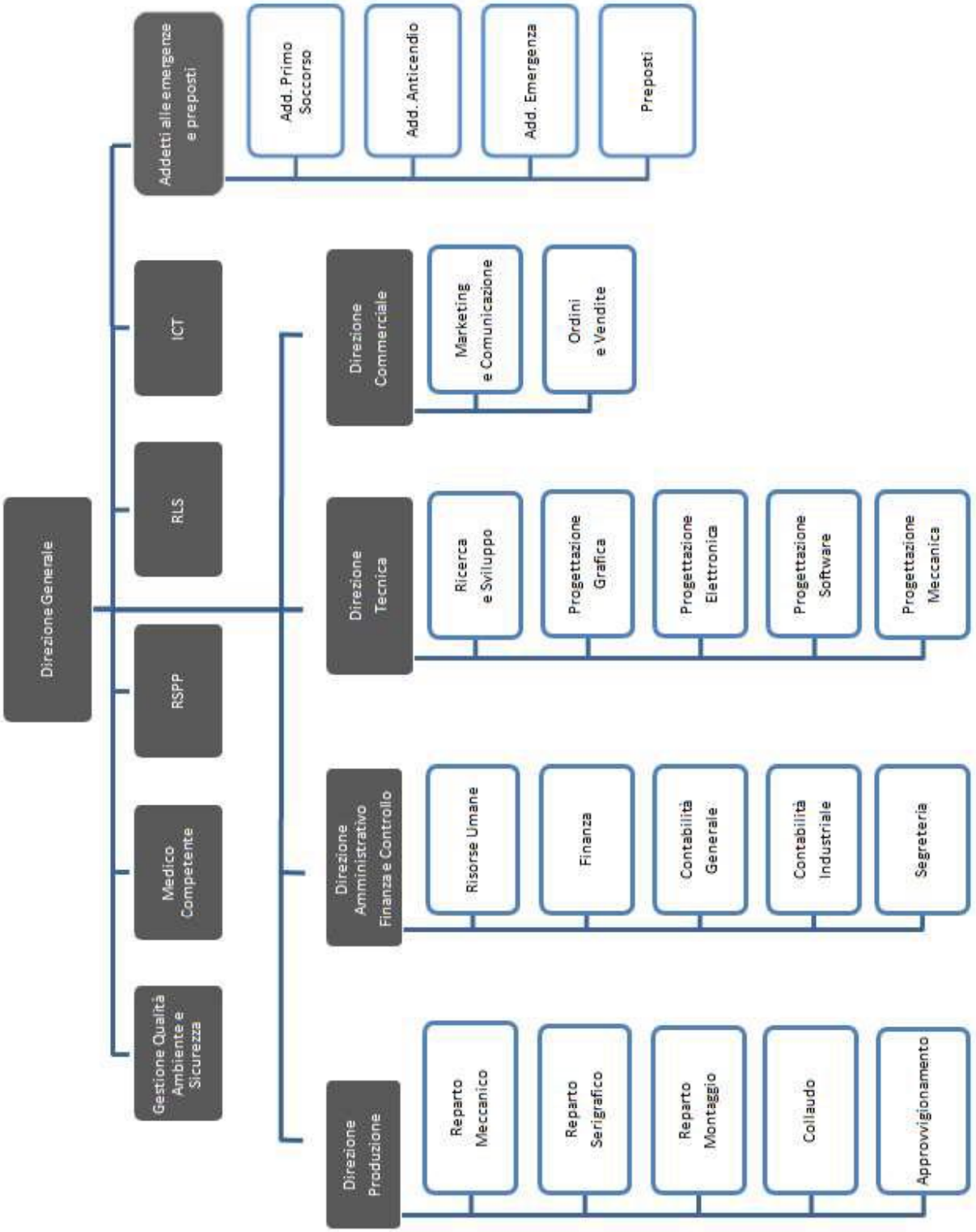
Organigramma aziendale



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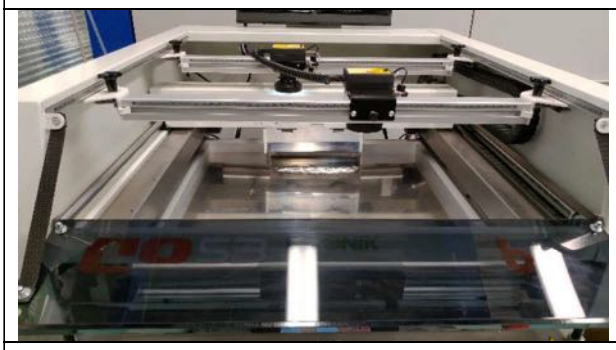
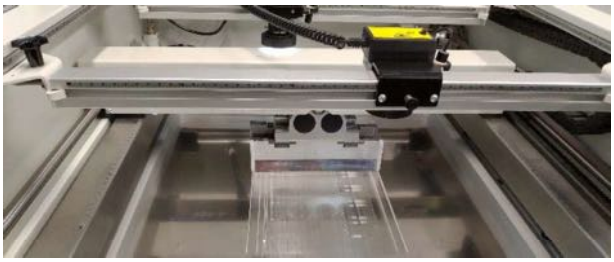
PRODUCTION AREA

FOX AUTOMATIC ROBOT P&P





SCREEN PRINTING MACHINE FOR PCB

AUTOMATIC OPTICAL INSPECTION

K-tronic
Tastiere Elettroniche Integrate

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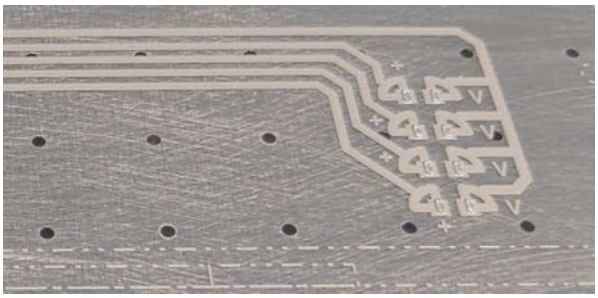
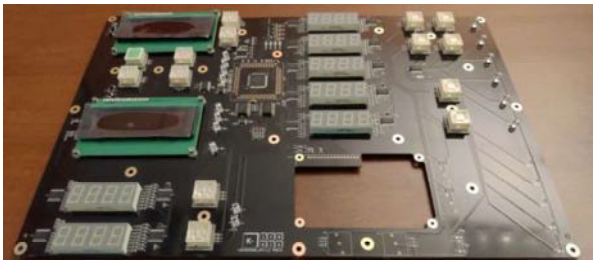
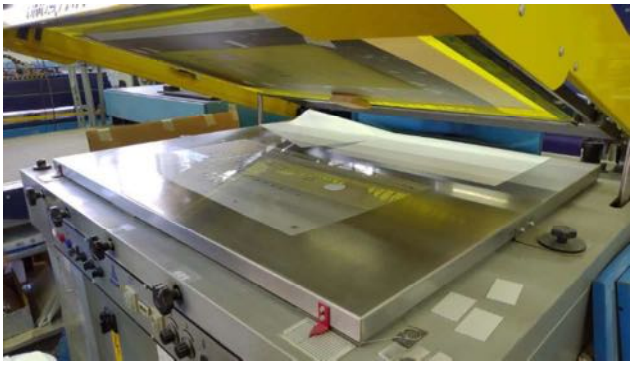




BOARD AND PCB

VAPOR PHASE



SCREEN PRINTING MACHINES

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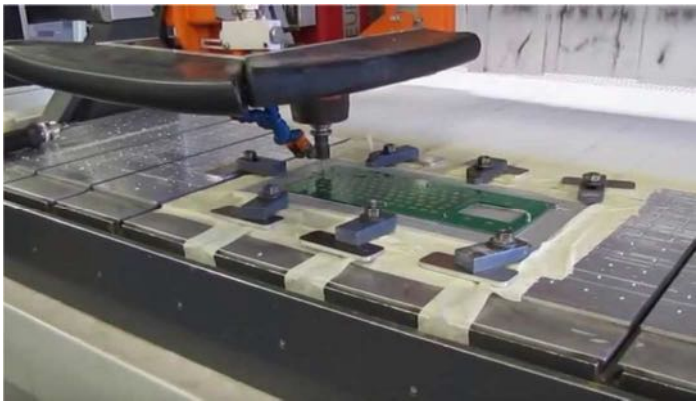

CNC PANTOGRAPH

CUTTER MACHINE

DIE CUTTER

BENDING MACHINE

SANDBLASTER

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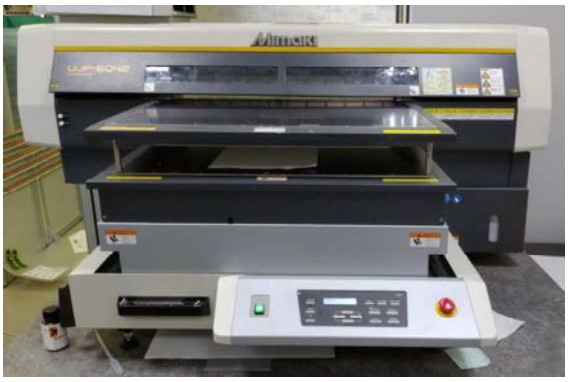
LASER



U.V. PLOTTER

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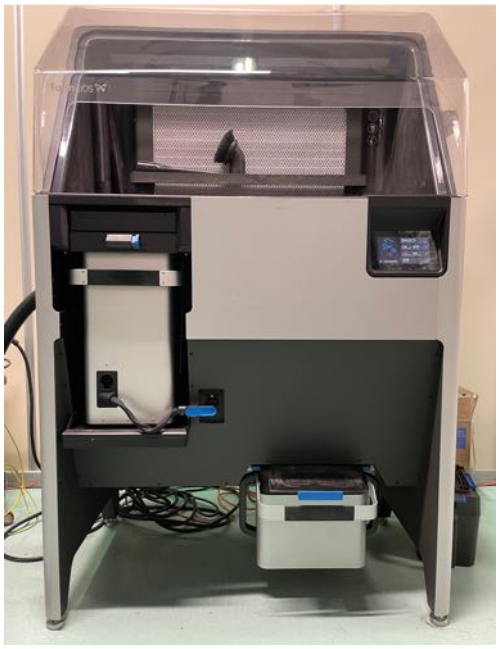

3D PRINTER FOR RAPID PROTOTYPING

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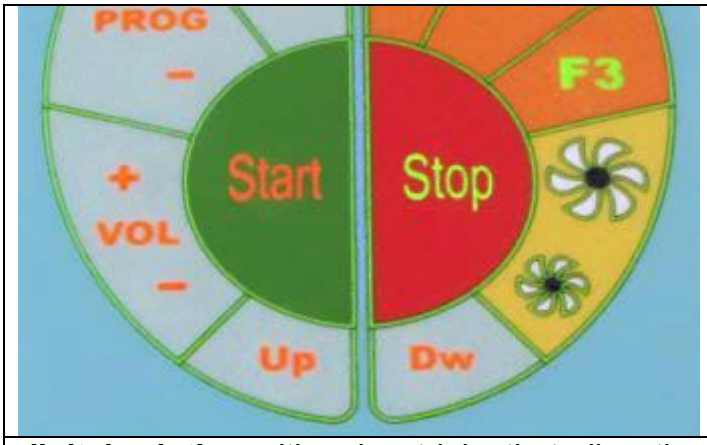
MEMBRANE KEYBOARDS

K-TRONIC offers a wide range of products that offer efficient integrated solutions:

attention to design (aesthetics and ease of use)
functional specifications
technical and material quality

Our range of keyboards:

membranes with **flexible circuits** in stabilized polyester, Kapton, ... (rigid support added on demand
membranes with **rigid printed circuits**

<table>
<tr>
<td> 
</td>
<td>Membrane keyboards are produced in sticker (printed on the back of the surface area) with:

screen printing with high resistance to light exposure and usury inks.</td>
</tr>
<tr>
<td>digital printing with solvent inks that allow the creation of front membrane keyboards of great aesthetic and visual impact at low cost.</td>
<td> 
</td>
</tr>
</table>

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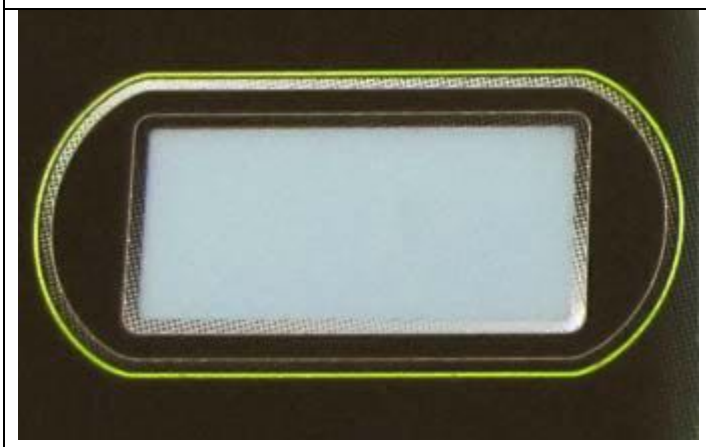
TYPES OF KEYS

flat membrane without tactile feedback
flat membrane with tactile feedback
thermoformed membrane with tactile feedback designed for embossing the polyester
thermoformed membrane with tactile feedback made through stainless steel metal domes
mechanical keys welded on rigid printed circuit



DISPLAY WINDOWS

For membrane front faces, it is possible to order anti-scratch and anti-reflective windows in different colours:

on textured materials we use U.V. ink printing in order to make the display area transparent
on transparent supports, it is possible to texturize the front face with UV inks while leaving the display area untouched.

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MATERIALS FOR FRONTAL PANELS

We use high quality materials, such as:

Polyester: textured (matte), polished, anti-scratch and anti-reflective
Polyester with **antimicrobial and antibacterial** treatment
Solvent and U.V. inks

CUSTOMIZATION POCKETS

Standard keyboards can be customized with the inclusion of special customization pockets that can include trademarks, logos, graphic wordings, without the direct intervention on the front of the keyboard.

CONNECTORS

Female crimped connector with 2.54 mm plastic housing
Uncovered strips (piste scoperte) for 0.5, 0.8...2,54 mm zif connector

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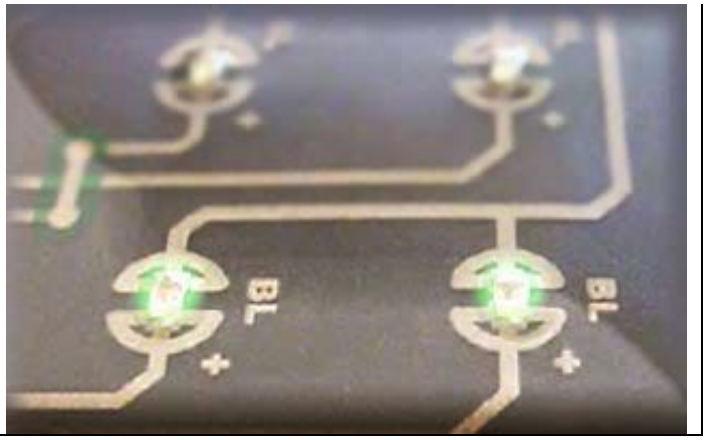
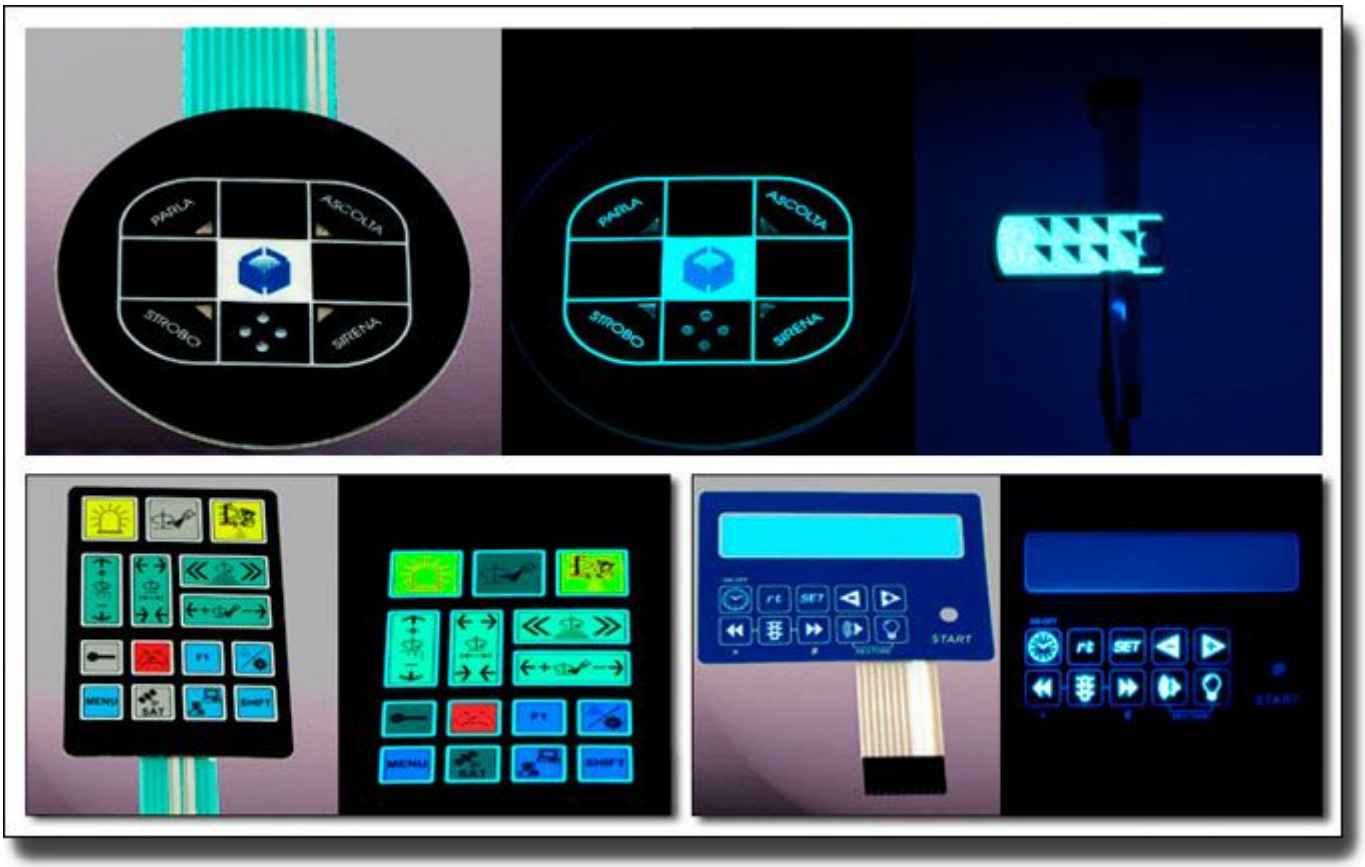
ENCAPSULATED SMD LEDs

Colorful electronic LEDs can be inserted directly on the board with dome-effect obtained through the thermoforming of the outer membrane.



BACKLIT KEYBOARDS



Encapsulated LEDs

Encapsulated LEDs are a relatively new technology, normally used for keyboards on flexible **printed circuit boards**.
The support is made of 125-micron polyester. The circuit is fabricated using screen-printed silver strips.

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The LEDs are welded using conductive resins with silver pigments, then encapsulated and integrated with the support itself.
This type of technology **allows for luminous signs at low cost** and it attaches to irregular surfaces and/or conditions of limited space.

ELECTROLUMINESCENT LAMPS

The electroluminescent lamp is a thin, light-emitting film built on a flexible, polyester support. It is made of a multi-layer structure that behaves like a capacitor, wherein particles of phosphorus are inserted between two flat electrodes (of which the upper is transparent and the lower is silver coated).

When an alternating voltage is applied to the two terminals, it creates a variable electric field that causes the emission of light. **The light is distributed uniformly over the entire surface of the lamp** in various colors. It is characterized by lightness and is resistant to severe shock and vibration. It is thin and very flexible, which makes it adaptable to curved surfaces as well. It can be produced in different dimensions and forms and can be drilled and/or punched without any risk to the uniformity of the light emitted.

The light diffused is "cold" and does not involve heat emission. The power consumption can be assessed around 1mA/cm2. **The electroluminescent lamp can be integrated into a membrane keyboard**, both to illuminate the individual keys and to highlight their profile.

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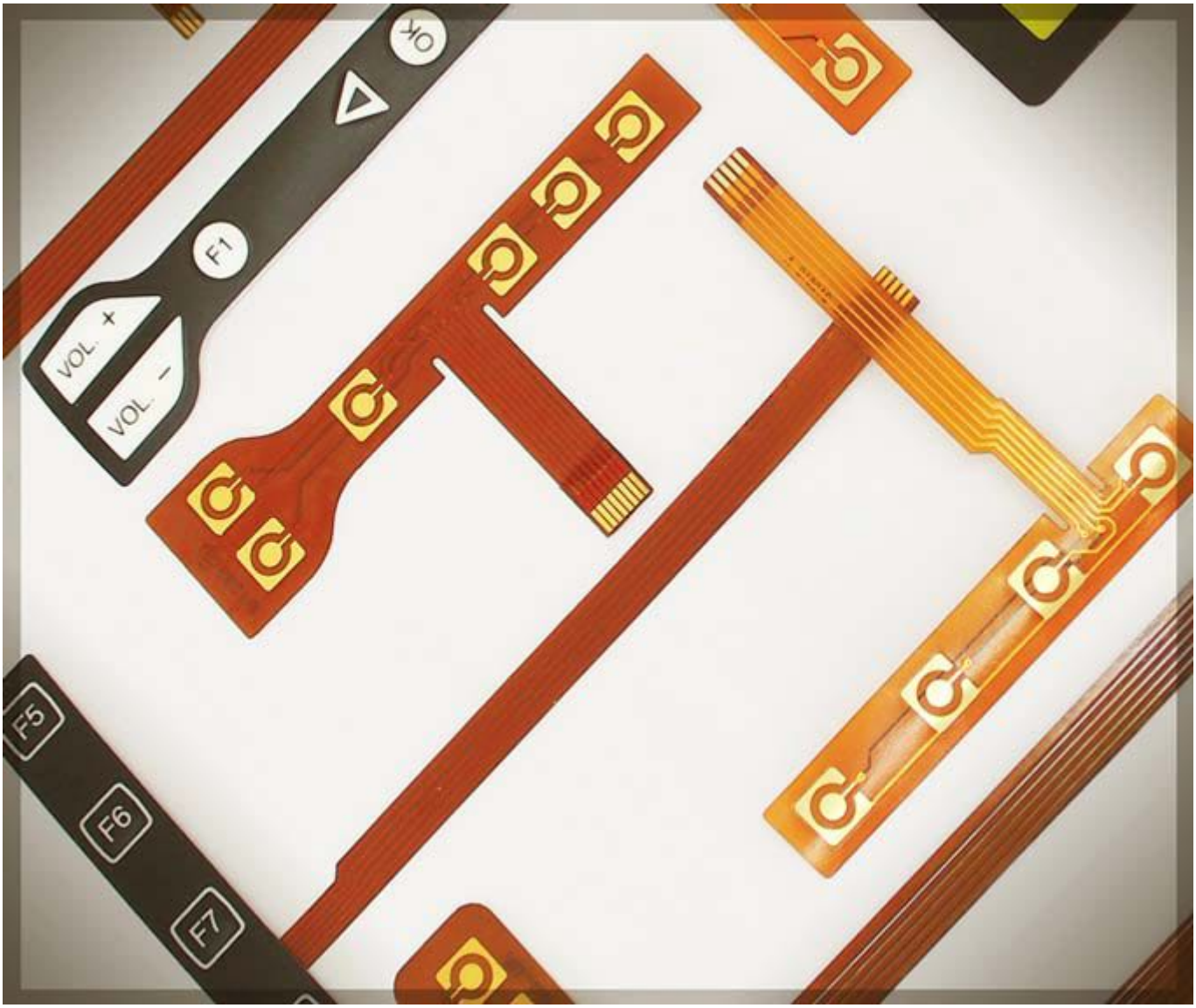
FLEXIBLE KEYBOARD KAPTON



The kapton is a film made of polyimide, great for the realization of flexible printed circuits. Its physical, chemical and thermal properties make it resistant to high temperatures, enabling direct soldering of electronic components.

The kapton allows the realization of highly miniaturized keyboards and is particularly suitable for multiple times the zif connection.

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ANTIMICROBIAL KEYBOARDS

The antimicrobial keyboards are indicated for use in hygiene sensitive environments for medical, pharmaceutical and food processing applications:

hospitals
clinics
pharmacies
spas
wellness centers
refectory

The particular anti-microbial treatment **adds to the keyboards a protection that allows the self-inhibition of bacteria.** .

When bacteria come into contact with surface, the antimicrobial function disrupts the bacterial cell, wall killing or inhibiting bacterial growth.

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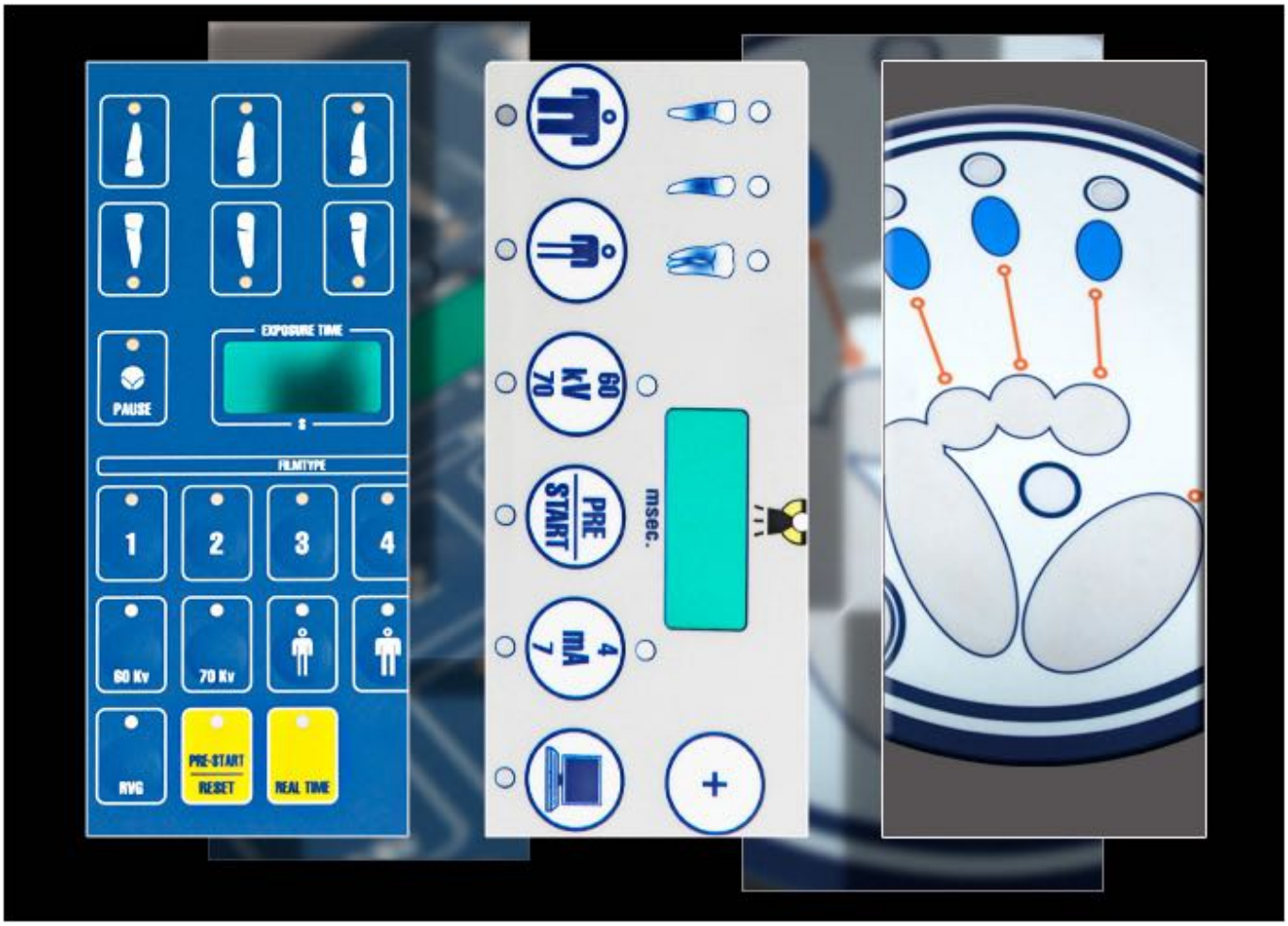
Medical Membrane keyboard.

Medical Membrane keyboard with antimicrobial treatment and mounting frame in anodized aluminum



Membrane Keyboard with Touchpad medical.

Medical membrane keyboard with capacitive mouse touchpad, antimicrobial treatment and mounting frame in anodized aluminum

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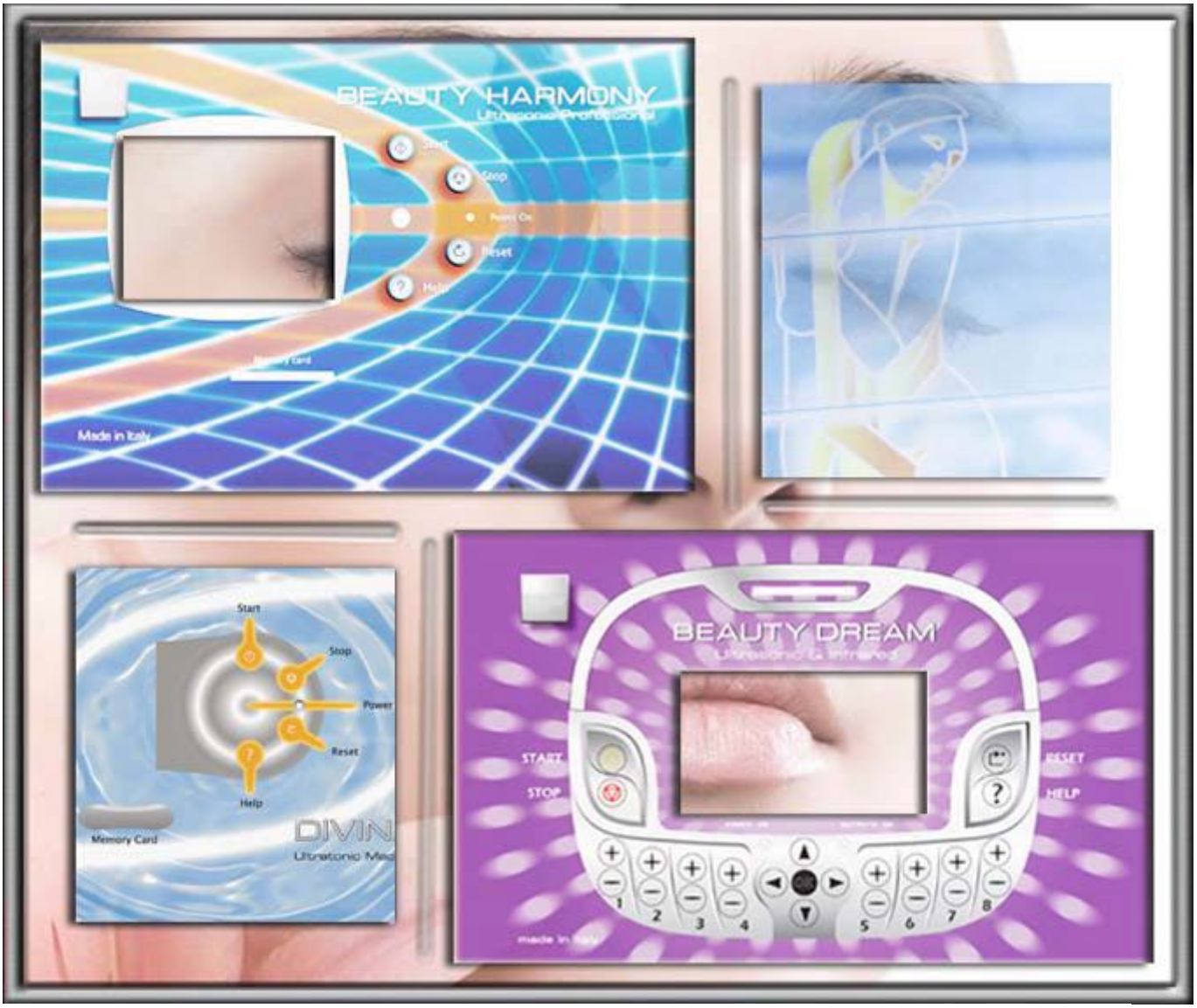
KEYBOARDS FOR WELLNESS CENTERS & SPAS



Digital printing with solvent inks can achieve the production of front keyboards with eye-catching graphic effects. Combined with the application of capacitive technology, it is possible to reach "Hi-Tech" solutions.
These keyboards have polished surfaces (glass, plexiglass) and are backlit.

data transmission
telephony
radio
lighting
control panels

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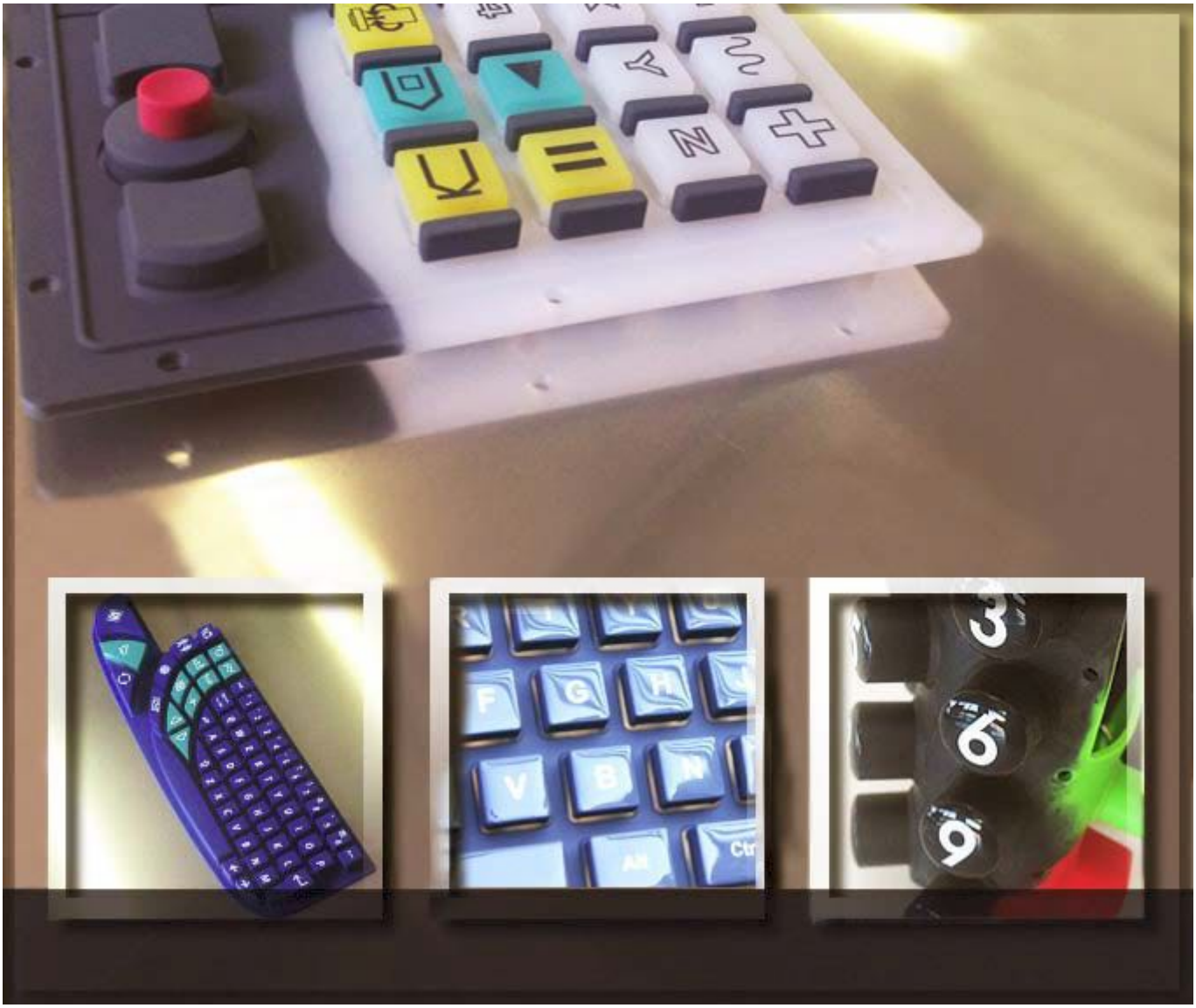
FLEXIBLE KEYBOARD IN SILICONE RUBBER



Keyboards can be supplied on request **in silicone rubber** - with or without inserts in conductive rubber - to be **used on rigid printed circuit or on the polyester membrane**.
The *silicone rubber* is one of the most stable elastomers with excellent resistance to temperature and aging; it doesn't deform with compression and it is chemically inert, and immune to corrosion and decay.
It also has excellent resistance to alkalis, oils and acids.
The silicone rubber is an electronically insulating material that, by the addition of conductive carbon particles, becomes conductive.

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Features:

usage temperature -40 ° to +150 ° C;
storage temperature -48 ° to +175 ° C;
contact resistance of 200 ohms max;
preload 0.2 mm.

Silicone rubber keyboards can be made in:

silicone aesthetic rubber in one or more colours, screen-printed on the outside of the button with a protective UV coating;
gray rubber with button cover support.

The development of electronics has seen increasing demand for silicone rubber keypads with excellent durability and tactile properties, low cost and with a wide range of applications.

Capacitive keyboards

Capacitive keyboards are equipped with innovative touchscreen technology that allows interaction through simple surface touches. Capacitive keyboard keys can be used through glass, plexiglass and other electrically inert materials.

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Registro Imprese Tribunale di Torino n. 2843/81
R.E.A. n. 596331 della C.C.I.A.A. di Torino – AIA 254100
C.F./Part. IVA 03873380012
N° registro. A.E.E. * IT08040000004962

Main features:

keys programmed by the USB port through a special interface software
self-calibration
pressure-sensitive settings: calibration can vary from a simple touch of the finger to the touch of an operator wearing gloves
bounce rate settings
easy-clean surface
lifetime warranty on electrical contacts and connections
reverse-side glass printing

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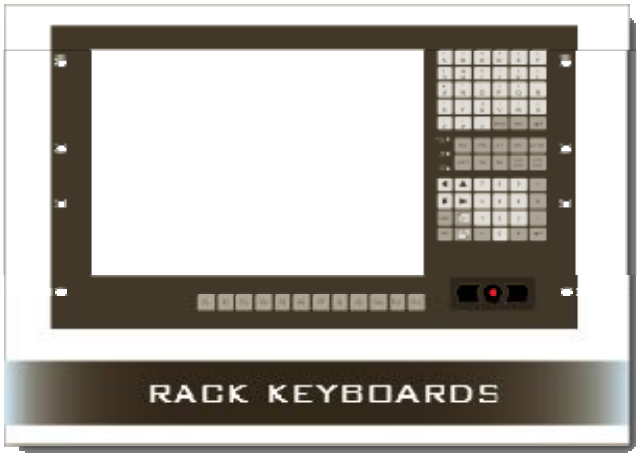
Pc Standard keyboards

Embedded membrane keyboards

Membrane keyboards (in silkscreen reverse-printed polyester, inserted in an aluminum frame) protect the keyboard's edges and facilitate assembly.
The user must only make a small cut on the support surface. The keyboard edge will completely cover any irregularities.
The keyboard is waterproof and easily installed with the included installation kit.

Rack membrane keyboards

Polyester membrane keyboards built with different layouts suitable for assembly in rack cabinets of 19" width and 2-12 units height.
Protects IP65 on the front panel, when properly installed.
The range consists of different pointer systems (touchpad, trackball, joystick mini) and several monitors (12", 15", 17").



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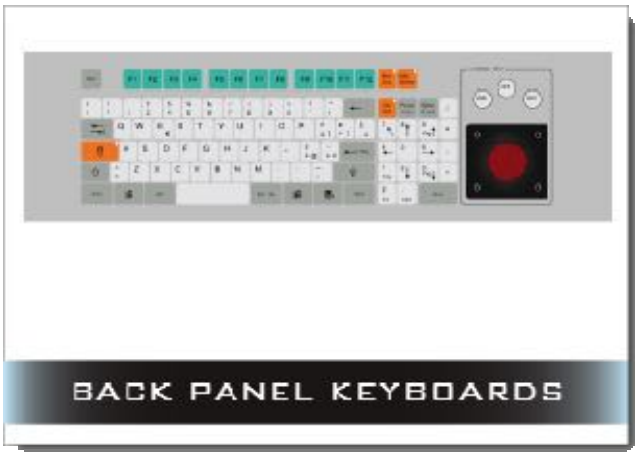
Membrane back panel keyboards

Polyester membrane Keyboards where the customer is free to fix the keyboard in two ways: **In polyester, these membrane keyboards** allow the customer to attach the keyboard in two different ways:

Front panel (unprotected keyboard edges)
Back panel (cut surface edges must be aesthetically perfect as keyboard will be fixed by brackets (keyboards are equipped with threaded inserts for attachment by screws).



Desktop membrane keyboard

Membrane keyboards in polyester (with mech
circuit) inserted in cases (ABS/PVC/ALUMINUM
Especially resistant and hermetic (IP 65°), they
with 4 back inserts, to either a vertical or incline
available, with touchpad or silicon rubber (trackl

Membrane keyboard drawers

Membrane keyboard in reverse-printed polyester with different layouts, **inserted in 19" drawer rack 19" (1HE/19").**
The drawer has telescopic guiding slides for extraction. It can be installed straight or inclined with drawer lock key.
Different pointing systems are available.

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Membrane keypads (matrix)

Membrane keypads with protection against electrostatic charges available on flexible membrane or rigid printed circuit. Available as:

- Flat membrane
- Membrane with thermoformed blister
- Flat membrane with metal domes
- Thermoformed membrane with metal domes

Vandal-proof keyboars

Stainless steel keyboards with high resistance to vandalism, bad weather conditions, penetration of liquids and powders. The symbol keys can be:

- laser printed
- chemically engraved and silkscreen two-component deposition
- LED backlit

Fast Typing keyboards

These keyboard are characterized by greater strength and can be connected to a personal computer.
Keys are ABS with laser-printed symbols.
IP 44 protection level can be increased by adding a silicon membrane to protects the upper part of the keyboard. Embedded, desktop and drawer versions are all available.

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Keyboards for Point of Informations

In certain services, the traditional touchscreen might be restrictive. **K-TRONIC has developed a sturdy keyboard** that stands up to frequent public while at the same time, retains a natural typing feel. The keys are ABS, with a border guards that prevent extraction.
Furthermore, metallic end stroke protection prevents damage due to excessive pressure.
Versions with and without trackball are available.

Functional Keypads

These keypads have been created in order to allow the Interaction through the exclusive use of function keys

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Front Panels

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