



METALLUX

part of ELTEK GROUP

COMPANY PROFILE WWW.METALLUX.CH

JAN 2023

METALLUX SA

Metallux SA is the market leader in ceramic pressure sensing elements providing an exclusive range of **standard and custom sensors** worldwide for several markets including the *Industrial, Automotive and Medical*.

Founded in 1955 in **Switzerland**, the company counts **150 employees** and is also well known for its **Electronic Manufacturing Services** for full-service technologically advanced microelectronics and hybrid circuits.



A STRONG COMPANY

*With over **10 Million** units produced every year, Metallux supplies a wide range of industries providing **competitive and technological solutions** based on the market and application requirements.*

*These volumes allow Metallux to have a total turnover well over **26 Mio CHF** in 2022 and to be profitable and competitive on the global market despite the complexity of production process still granting **Swiss** made high quality standards.*

*The increasing number of employees currently counts **150** people divided in our **two production plants** located in **Mendrisio, Switzerland** where the whole production takes place.*



METALLUX SA: PART OF ELTEK GROUP

Part of Eltek since 2006, Metallux is the group's sensing and electronics division.

With over 1'700 employees and over 250 Mio EUR aggregate 2021 turnover, Eltek is specialized in research, design, development and production of mechatronic components providing components for the appliance, automotive and health-care sectors.

Eltek Group is present worldwide: with manufacturing facilities and commercial offices in 3 different continents.



ELTEK ITALY	Headquarters, Research & Design Center Manufacturing Plant
ELTEK ITALY	Research & Design Center 2 Manufacturing Plants
METALLUX SA	Research & Design Center 2 Manufacturing Plants
ELTEK POLAND	2 Manufacturing Plants
ELTEK CHINA	2 Manufacturing Plants
ELTEK GERMANY	Sales Office
ELTEK USA	Sales Office



OUR NUMBERS

Market leader in design and production of ceramic pressure sensors and full-service Electronic Manufacturing Services.

Metallux is a Swiss company founded in 1955 that promises high-quality customer experience living up to its motto "Swiss technology at your service".

26

million CHF in revenue. *Constant waves of innovative products underly Metallux's constant growth over the years.*

150

people employed. *Our unique team culture of feedback and trust motivate our associates to be part of your success story.*

10

million units manufactured yearly. *Swiss made Metallux products are well known worldwide for it's leading technology.*

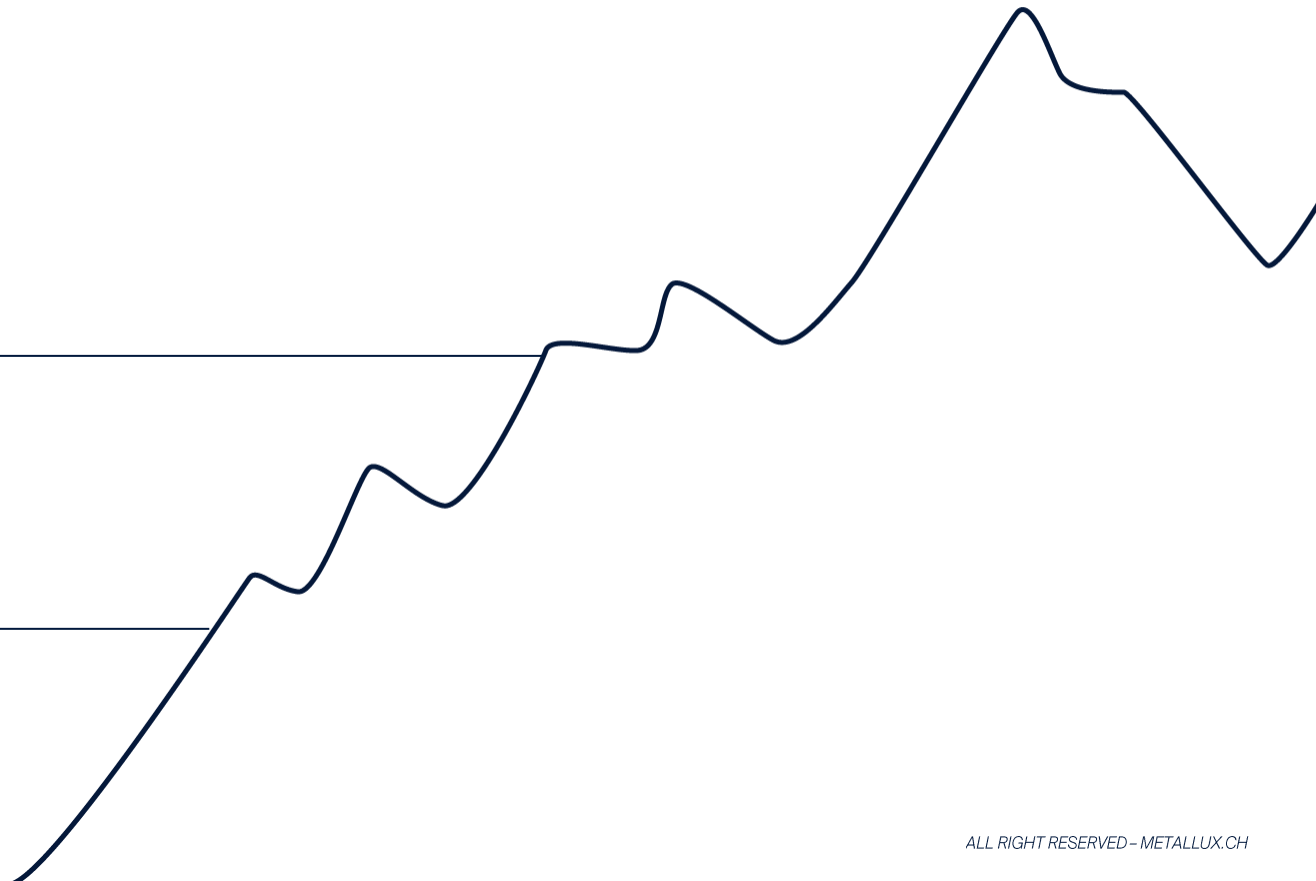


TOTAL TURNOVER 2022 BY MARKET

53% INDUSTRIAL

41% AUTOMOTIVE

6% MEDICAL

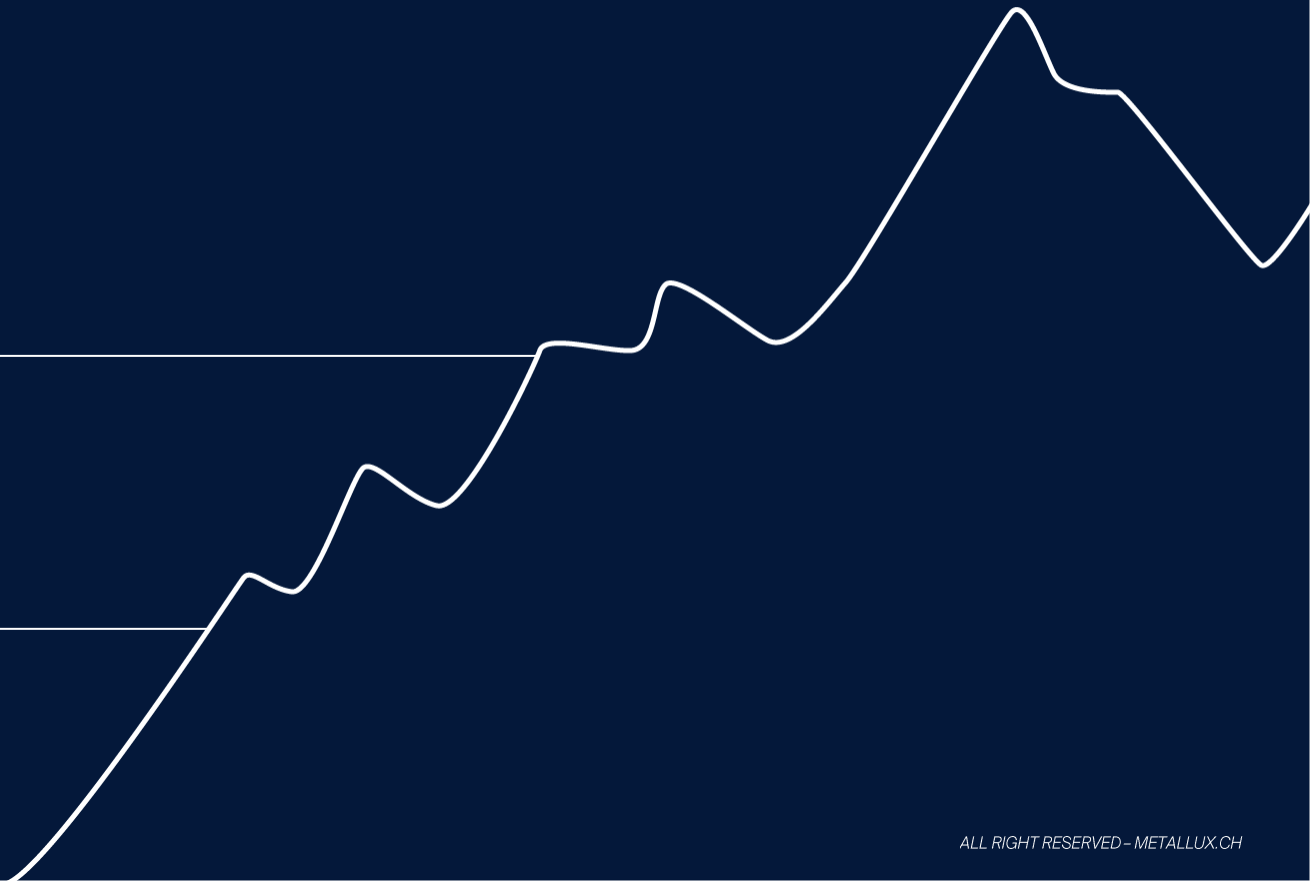


TOTAL TURNOVER 2022 BY PRODUCT

49^{INDUSTRIAL}
%

47^{AUTOMOTIVE}
%

4^{MEDICAL}
%



OUR MISSION

Passion, innovation and performance. These principles apply to everything we do, our team is inspired and delighted to go beyond the expected.

01.

Approach

Metallux is focused on engineering, development and process.

02.

Customization

Metallux can provide customized solutions tailored to specific customer's specifications.

03.

Service

Metallux offers its customers prototyping and consultancy services, validation and follow-up to ensure high quality results.

04.

Sustainability

Metallux offers its customers prototyping and consultancy services, validation and follow-up to ensure high quality results.



INDUSTRIES

*Metallux is a concentration of Swiss technology that translates into truly **personalized** solutions for the Automotive, Medical, Food, Water Management, Consumer, Marine, Power Handling, Defense, Automation, Railway, Miniaturized electronic components and Industrial Electronics sectors.*



INDUSTRIES



Industrial



Robotics



Oil & Gas



Food



Automotive



Environment



Maritime



Healthcare



Aerospace



Railway



A light gray world map serves as the background. Twelve black dots are placed on the map to indicate global locations: one in North America (USA), one in Western Europe, one in Northern Europe (Scandinavia), one in Central Europe, one in Eastern Europe, one in the Middle East (Iran), one in South Asia (India), one in Southeast Asia (Thailand), one in East Asia (China), one in East Asia (Japan), one in Southeast Asia (Philippines), and one in Southeast Asia (Indonesia).

METALLUX WORLDWIDE



OUR CERTIFICATIONS

UNI ISO9001: 2015

Quality management systems

UNI ISO14001: 2015

Environmental management systems

UNI ISO45001: 2018

Safety and health on the workplace

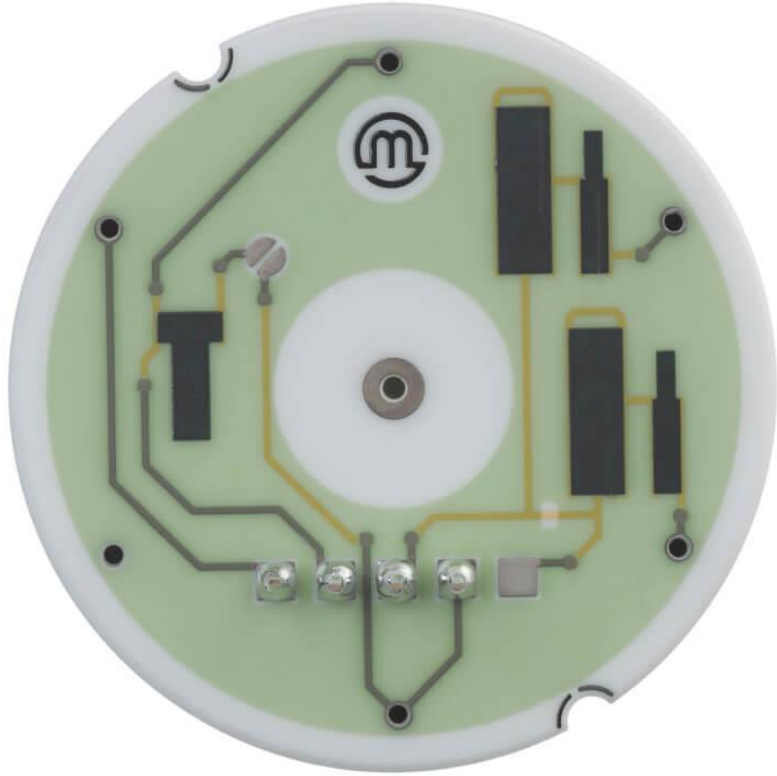
UNI ISO13485: 2016

Medical devices producer certification

IATF 16949: 2016

Automotive producer certification

DIVISION ——— PRESSURE SENSORS



*Metallux is leading in **Sensors**. Our solutions offer a long life time and fault-free function where precision and quality matters.*

*The thick film technology allows firing of the **Wheatstone** bridge circuit directly on the substrate, ensuring reliable operation.*

A specially designed ceramic alumina body together with laser trimming, and active components results in unmatched precision.



DIVISION ————— PRESSURE SENSORS

Analogic Or Amplified Sensing Elements

- *Ratiometric, Non ratiometric, Current loop, Digital P_C, SENT, (...)*

Fit To Go Anywhere

- *Round: from Ø 9 to Ø 32.5mm*
- *Squared: from 12.7 to 14 mm*

Ceramic Alumina Al₂O₃

Stainless Steel

Silicon

Range Pressure From 0.5 Up To 1000 Bar

Temperature up to -40° to +150 °C

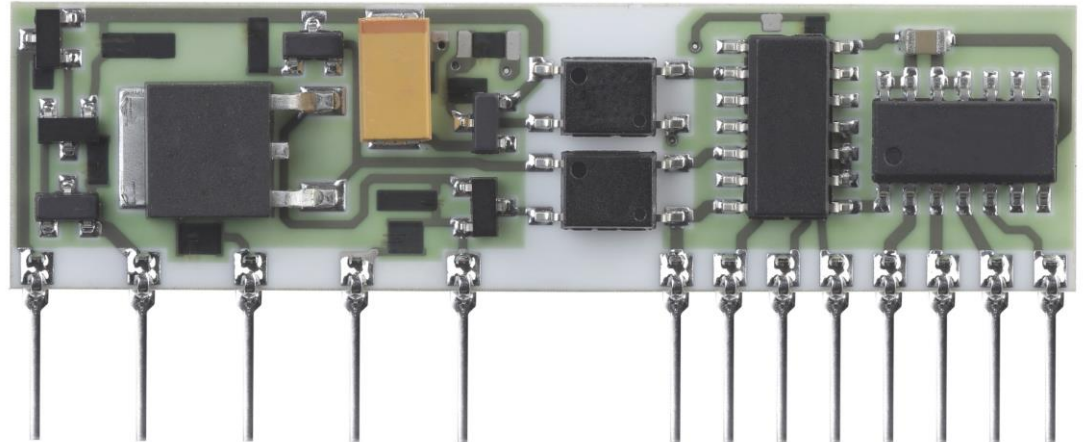
Fully Customizable



DIVISION ————— HYBRID CIRCUITS MANUFACTURING

Metallux is a reliable, flexible and responsive Electronic Manufacturing Services partner for the development and production of electronic devices.

We Engineer, Prototype, Assemble, and Produce over 4.5 Mio Electronic Products yearly in Contract Manufacturing.



DIVISION ————— HYBRID CIRCUITS MANUFACTURING

Thick Film Technology

IPC Compliant

Substrates

Al₂O₃ Ceramic, AlN, Stainless Steel, Sapphire, FR4, Flex

Multi-layered And Hybrid Circuits

Die Attach

Ball And Wedge Bonding

Chip-on-board

Surface Mount Technology

Encapsulation

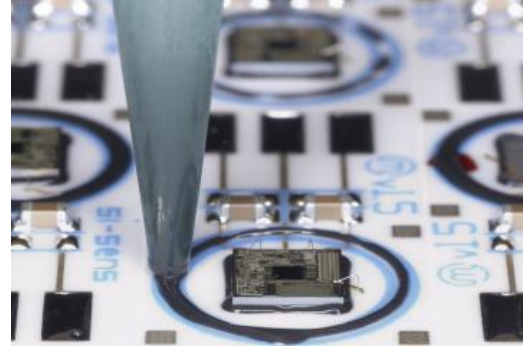
Assembly

Fully Customizable Production

CUSTOMIZATION & CAPABILITIES

*Our highly skilled and motivated engineering team uses the best and brightest thinking to develop production processes for **specific customer** and application requirements.*

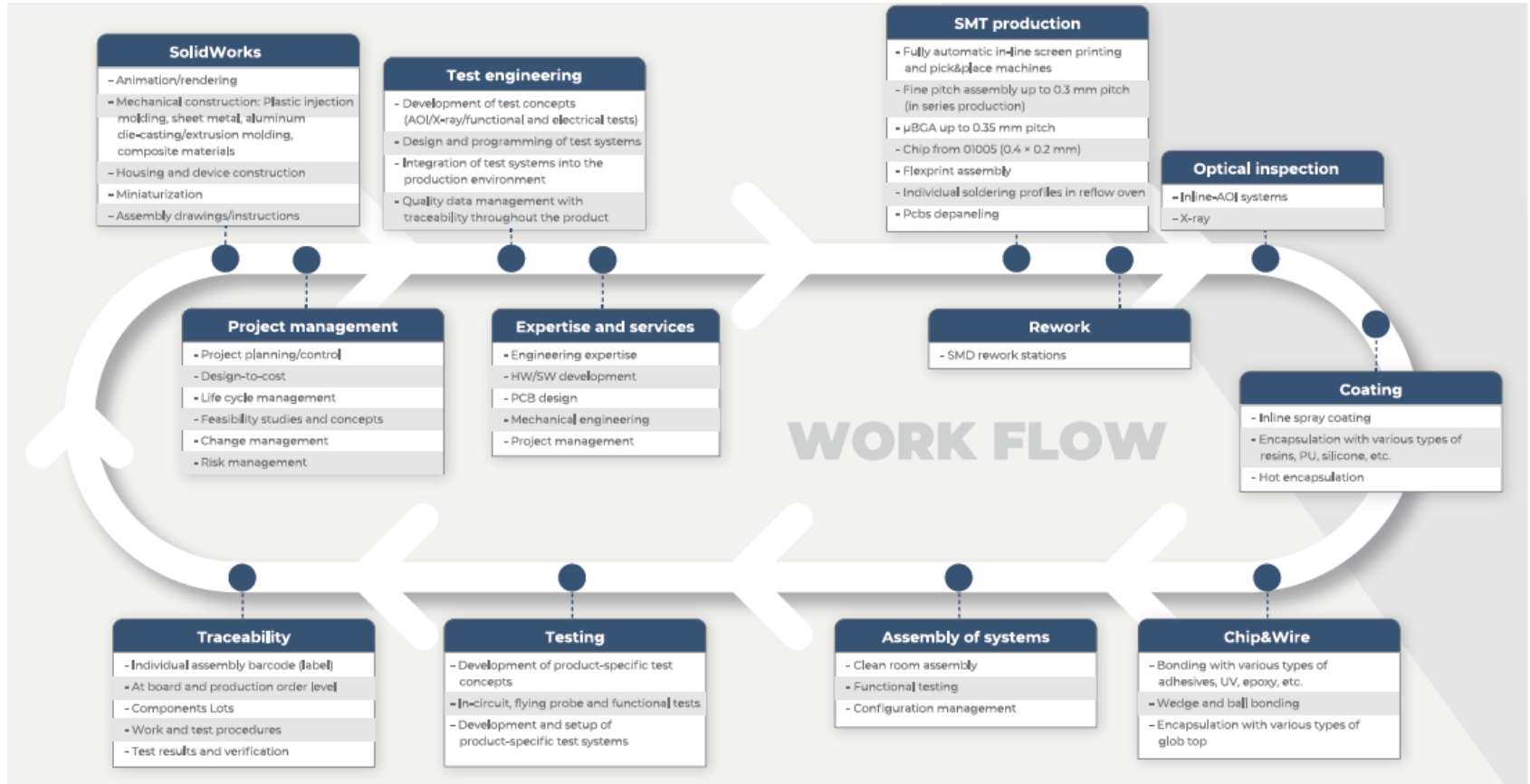
*We aim to deliver **high-quality, competitive, consistent products** focusing on **research and development***



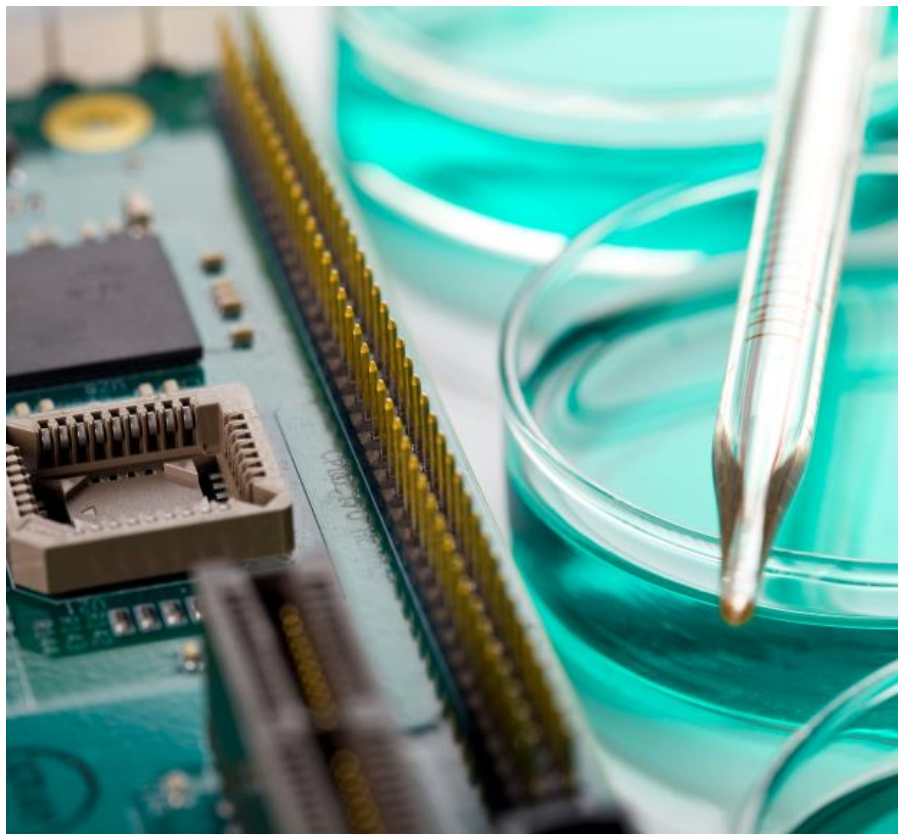
- *Electronic assembly and manufacturing*
- *Hi-Rel Hybrid Circuits*
- *Multilayers Hybrid Circuits with integrated components*
- *Automated and Manual screen-printing lines*
- *Laser trimming*
- *SMD, Chip-On-Board and reflow line*
- *Active and Passive SMT, from 0402 to BGA and μ BGA*
- *Chip&Wire: Die attach, Wedge and Ball Bonding*

- *Encapsulation and coating on all kind of substrates*
- *Finishing and Injection with coatings, epoxy, silicone, resins*
- *Automated inspection and testing*
- *Climatic chambers for calibration*
- *X-ray and AOI testing*
- *EMC compliance testing*
- *End-of-life and testing equipment for quality assurance*
- *Production, Assembly and Packaging in DNA-Free environment*

CUSTOMIZATION & CAPABILITIES



DIVISION ——— HEALTHCARE



Innovative technologies allow production of complex devices to combine more and more functions in miniaturized systems.

*Your **medical** turnkey product produced and assembled in a **DNA and RNA free ISO 7** environment.*

DIVISION ————— HEALTHCARE

Contract Manufacturer

- *Full service Medical Device Contract Manufacturer*
- *Molds and molded parts in ISO 7 Clean Room*
- *Assembling (from Manual to Fully Automatic lines)*
- *Online testing*
- *Custom sensors and electronics*
- *ISO 7 and ISO 8 Clean Room production*

Proprietary Product

- *Pressure Sensors*
- *Hemodialysis MD*
- *Regenerative Medicine*
- *Toxicological analysis M.D./I.V.D*
- *Orthodontics MD*

MOULDS AND PLASTIC MOULDING

*In cooperation with the parent company Eltek Group, we are able to supply **full-service integrated and assembled** devices based on the application and customer requirements.*

Eltek Group offers expertise in mould design and realization: 2D/3D (DS Catia, PTC Creo Engineering, SolidWorks), Simulation (MouldFlow, Comsol).

- *Moulding of plastic parts*
- *Thermoplastic and silicone molding*
- *Welding and joining of metal or plastic parts*
- *Medical grade plastics*
- *Automotive and Medical grade clean rooms*





SWISS TECHNOLOGY AT YOUR SERVICE

COMPANY PROFILE

JAN 2023

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