



 **METALLUX**

part of ELTEK GROUP

COMPANY PROFILE WWW.METALLUX.CH

JAN 2022

# 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 **25 Mio CHF** in **2021** 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".

# 25

**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.

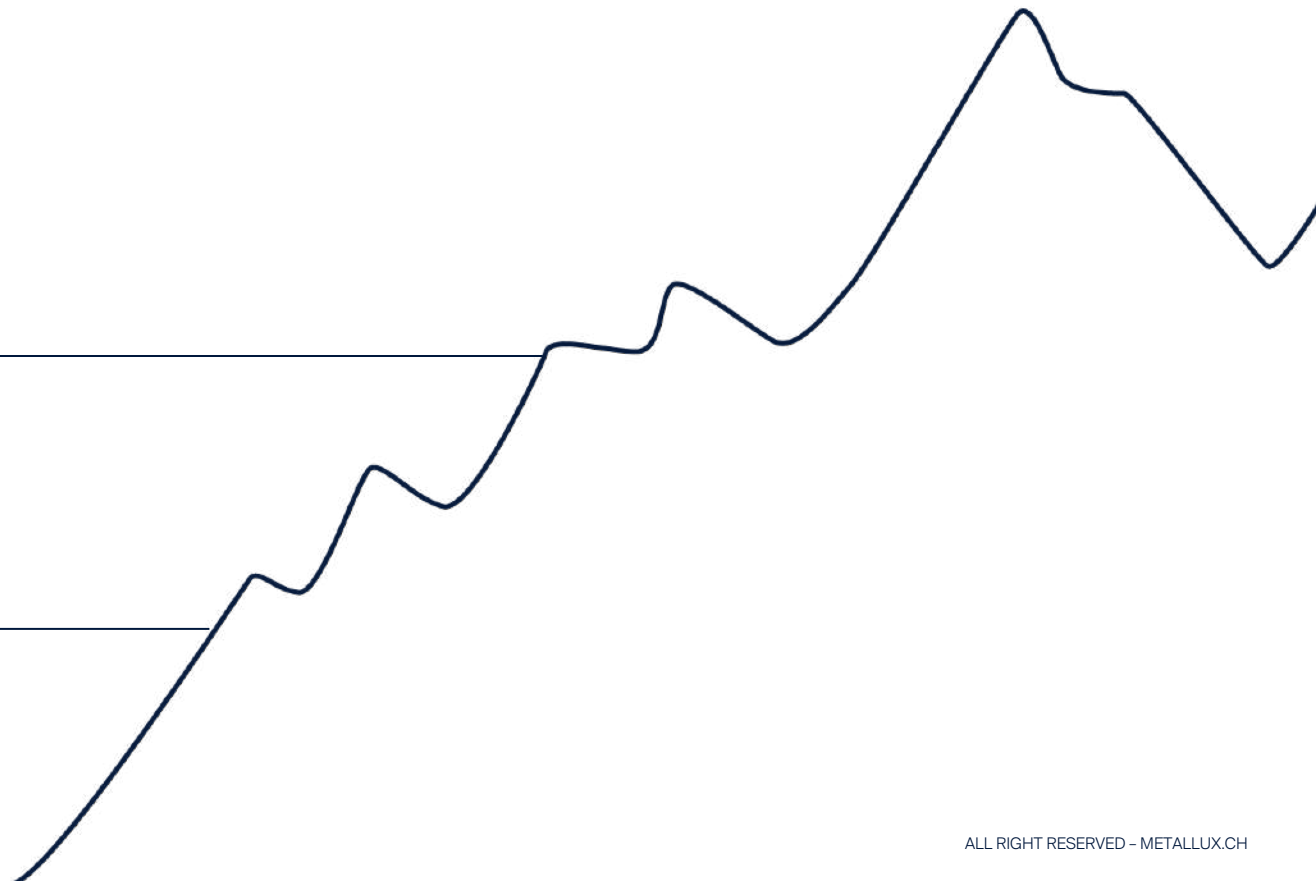


# TOTAL TURNOVER 2021 BY MARKET

52% INDUSTRIAL

43% AUTOMOTIVE

5% MEDICAL



# TOTAL TURNOVER 2021 BY PRODUCT

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49% INDUSTRIAL

48% AUTOMOTIVE

3% 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

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Metallux is focused on engineering, development and process.

02.

## Customization

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

03.

## Service

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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





# METALLUX WORLDWIDE



# OUR CERTIFICATIONS

**UNI ISO9001: 2015**

Quality management systems

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**UNI ISO14001: 2015**

Environmental management systems

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**UNI ISO45001: 2018**

Safety and health on the workplace

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**UNI ISO13485: 2016**

Medical devices producer certification

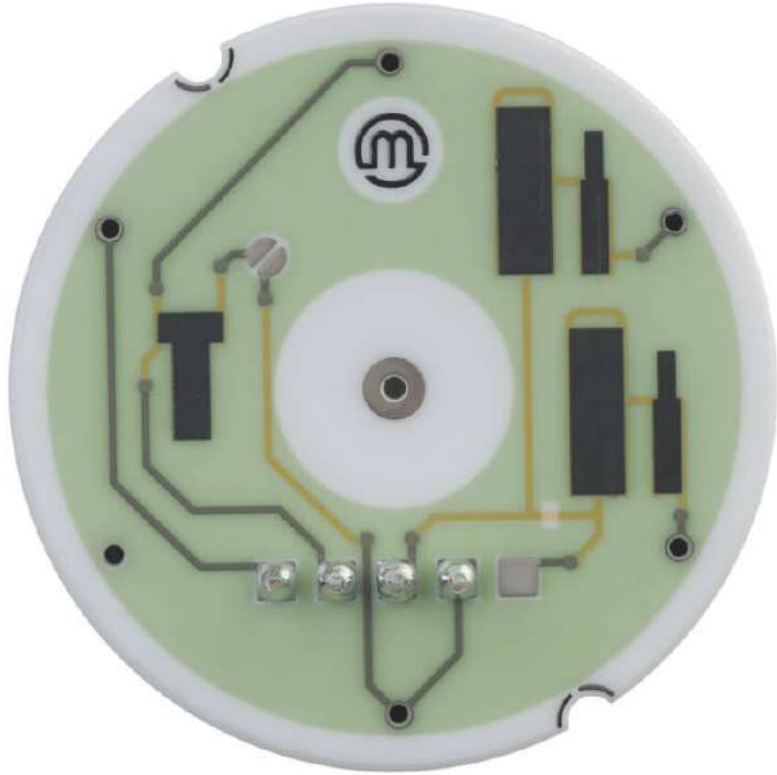
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**IATF 16949: 2016**

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

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- Ratiometric, Non ratiometric, Current loop, Digital I<sup>2</sup>C, SENT, (...)

## Fit To Go Anywhere

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

## Ceramic Alumina Al<sub>2</sub>O<sub>3</sub>

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## Stainless Steel

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## Silicon

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## Range Pressure From 0.5 Up To 1000 Bar

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## Temperature up to -40° to +150 °C

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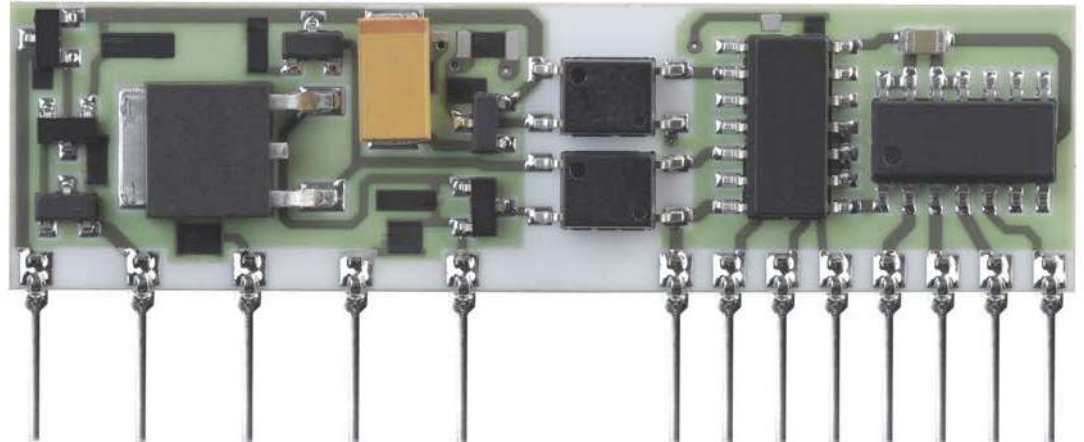
## Fully Customizable



# 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

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IPC Compliant

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Substrates

Al<sub>2</sub>O<sub>3</sub> Ceramic, AlN, Stainless Steel, Sapphire, FR4, Flex

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Multi-layered And Hybrid Circuits

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Die Attach

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Ball And Wedge Bonding

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Chip-on-board

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Surface Mount Technology

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Encapsulation

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Assembly

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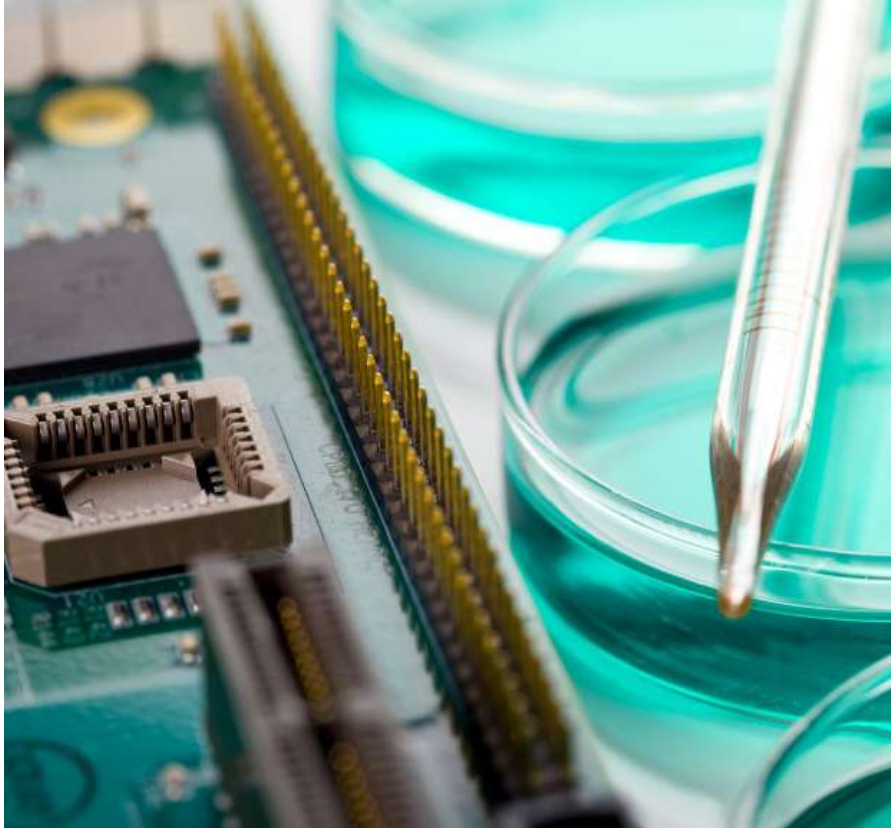
Fully Customizable Production

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# 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

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## 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).

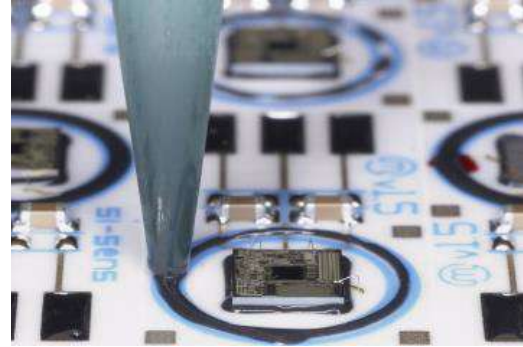
- Moulding of plastic parts
- Thermoplastic and silicone molding
- Welding and joining of metal or plastic parts
- Medical grade plastics
- Automotive and Medical grade clean rooms



# 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  $\mu$ 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



# SWISS TECHNOLOGY SINCE 1955

COMPANY PROFILE

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