



# PRESSURE SENSORS & MICRO-ELECTRONICS

**METALLUX SA**

THE COMPANY  
ELTEK GROUP  
OUR ATTITUDE  
APPLICATION-  
DRIVEN  
PRODUCTS

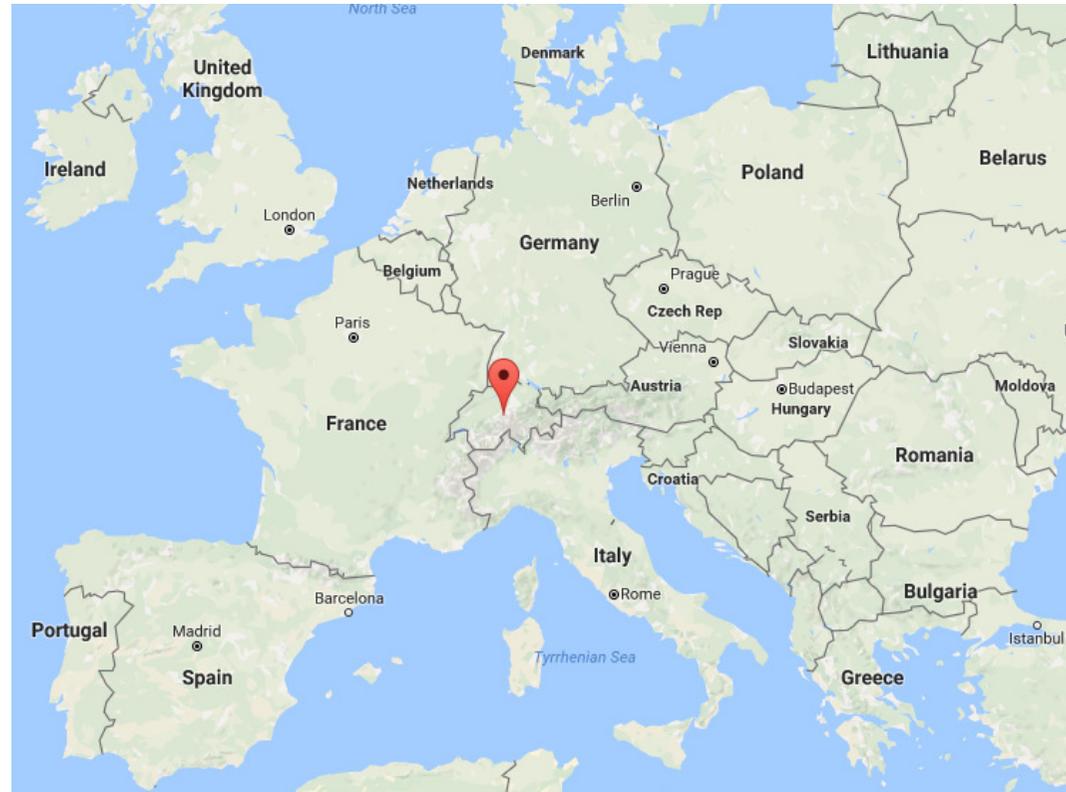


**PART OF YOUR SUCCESS STORY**

## METALLUX SA – THE COMPANY

Metallux is a Swiss leader provider worldwide in the fields of

- **pressure sensing solutions**
  - customized pressure sensors
- **electronic circuits realization**
  - thick film technology
  - micro-electronics
  - chip-and-wire
  - surface mounting technology
  - multi-layered ceramic circuits
  - hybrid circuits



Premises in **Mendrisio, Switzerland**

**Turnover 2016: 24.6 MCHF**

*Turnover 2015: 23.5 MCHF*

120 employees

Part of **Eltek Group** since 2006

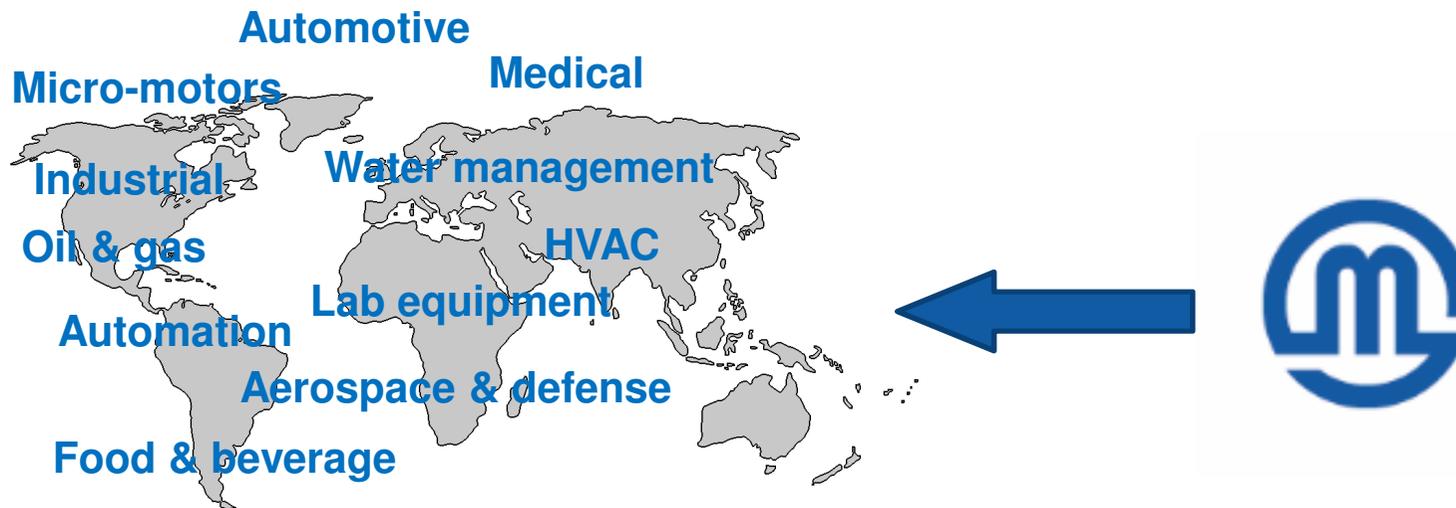
## Italian multinational group

- 1'100 employees
- 138 M € aggregate 2015 turnover
- **Five divisions**
  - Automotive
  - Appliance
  - Medical
  - Biomed and Nanotech
  - Sensing and electronics 
- **Six manufacturing plants**
  - Two in northern Italy (HQ Casale Monferrato and Hone)
  - Bielsko Biala, Poland
  - Yantai, China
  - Jundiai, Brazil
  - Metallux, Switzerland



## BACK TO METALLUX...

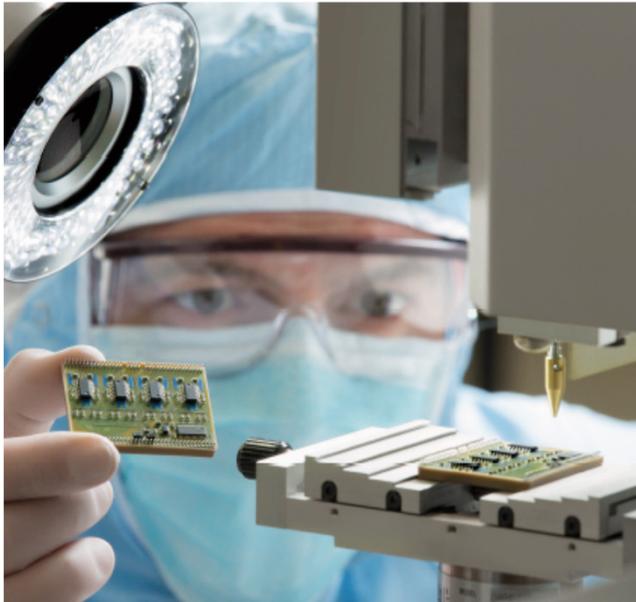
Metallux provides pressure sensing solutions and electronic circuits for Eltek Group and **many other customers worldwide**



... you name it ... !

## THE METALLUX ATTITUDE

“PART OF YOUR SUCCESS STORY”



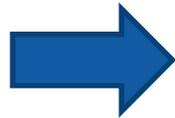
Rather than standard products, Metallux is focused on  
**engineering, development and processes**

We aim to be a **contract manufacturer**, providing **customized solutions**

# APPLICATION-DRIVEN PRODUCTS

## Pressure sensing - Automotive examples

**METALLUX**



**ELTEK**



DeNOx



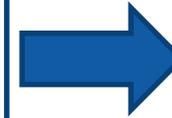
SCR Euro 6



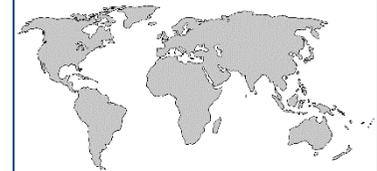
P+T SENT



Fuel pressure

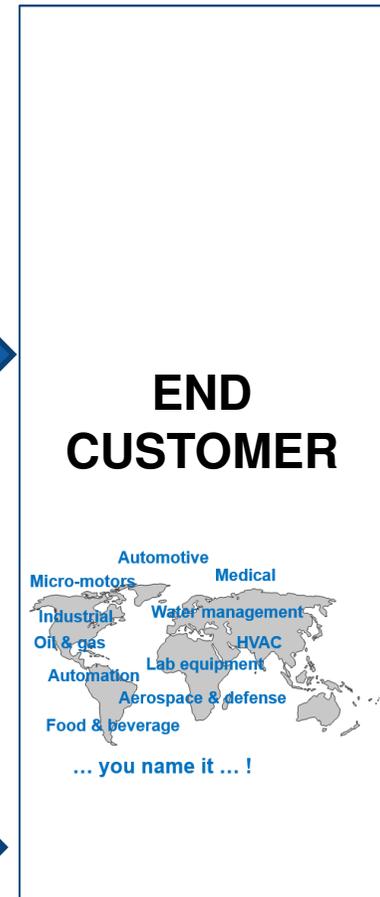
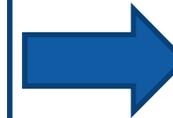
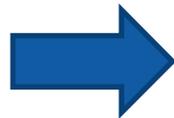


**AUTOMOTIVE  
END  
CUSTOMERS**



# APPLICATION-DRIVEN PRODUCTS

## Pressure sensing - Industrial examples



# APPLICATION-DRIVEN PRODUCTS

## Pressure sensing – Other examples

Ceramic pressure sensors

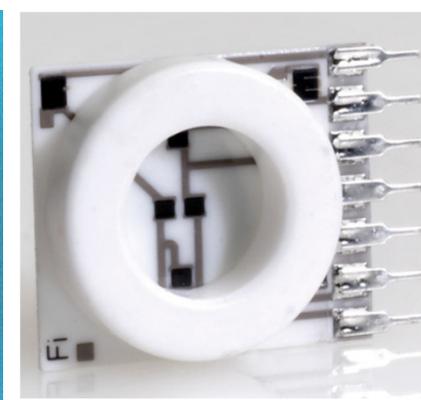
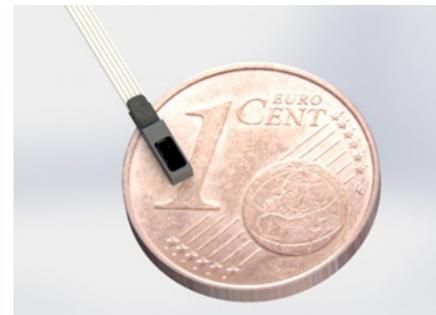
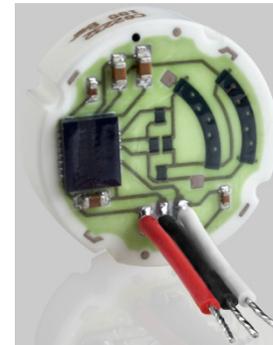
Steel sensors

Microsensors

Smaller diameters

Differential

... and more

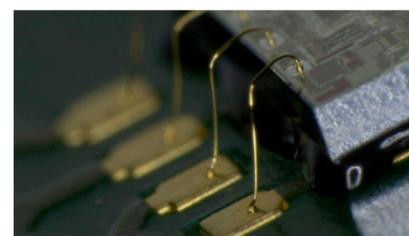
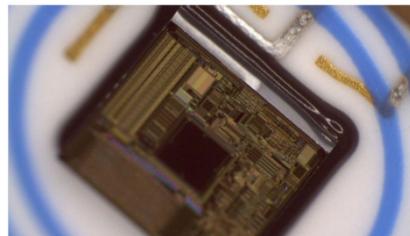
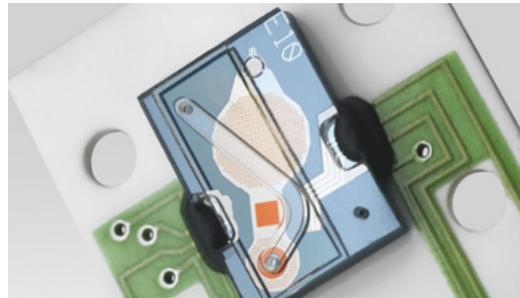
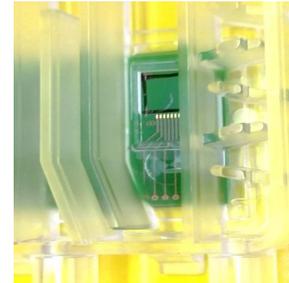


# APPLICATION-DRIVEN PRODUCTS

## Electronic circuits realization examples

### On-demand electronic circuits realization

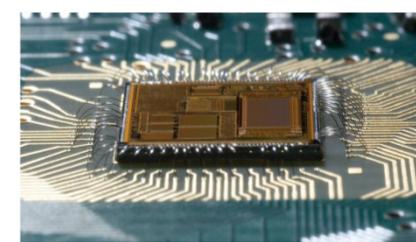
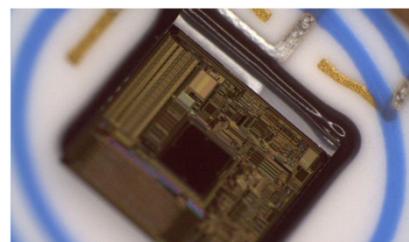
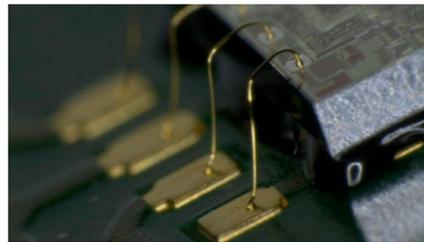
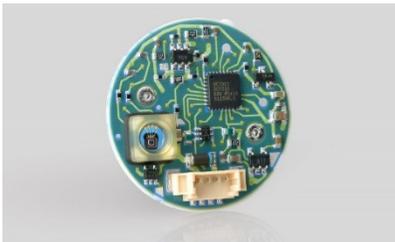
- Thick film technology
- Die attach
- Ball and wedge bonding
- Chip-On-Board
- Surface Mounting Technology
- Encapsulation
- Multi-layered circuits
- Hybrid circuits
- Miniaturization
- Assembly on various substrates: Al<sub>2</sub>O<sub>3</sub> ceramic, stainless steel, sapphire, FR4, Flex



# APPLICATION-DRIVEN PRODUCTS

## Metallux technology vs. substrate

TECHNOLOGY-SUBSTRATE APPLICATION TABLE						
	Ceramic Al <sub>2</sub> O <sub>3</sub>	AlN	FR4	Flex	Stainless steel	Sapphire
Screen printing	X	X			X	X
SMT	X	X	X	X	X	X
Chip & Wire	X	X	X	X		





# THANK YOU FOR YOUR ATTENTION

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