

# **METALIS Group**

BU spring presentation



# I. Global presentation





## BU spring's profile

## Main figures

Surface: 6290m<sup>2</sup>

Employees: 120

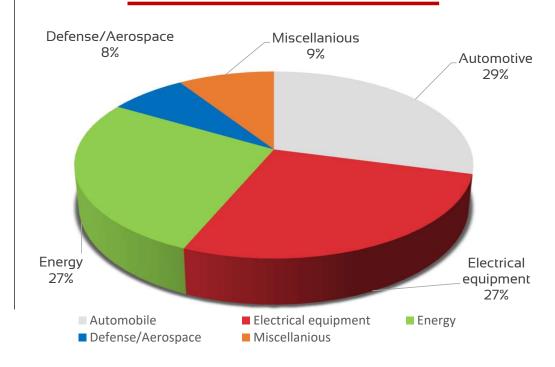
Turnover: 17M€

Quantity of part delivered: +200Mpcs/year

Quantity of customers: 260 customers worldwide

**Quantity of reference :** More than 2000 active references

## **Business repartition**







## What is a flat spring?

#### **Functions:**

- Spring effect
- Complex part
- Guaranteed force ...

#### Applications:

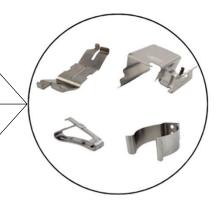
- Clips
- Fasteners
- Electric contacts ...

#### Material used:

- Stainless steel & Carbon steel
- Copper alloy
- Iron nickel alloy...











#### Main advantage:

Multi-slides process (mechanic or numerical cams).

- Cut and bended in the rolling direction.
- Part width is the same than material roll width to reduce the material scrap
- Such a better bending quality





# - 2. Knowledge & activities





## BU Spring activities – Medium and High series















- Dedicated to High and Medium runners (>500Kpcs/years).
- 60 employees.
- Main activities: Automotive (50%), Electric equipment (35%), Other (15%).
- Processes: Multi-slides technology:
  - > 40 multi-slides machines (35 Bihler & 5 Numerical pressmac)
- Additional processes:
  - > 3 furnaces for stabilization.
  - ➤ 1 furnace for setup.
  - ➤ 1 degreasing line.





## **Automotive market for multislide technology**



## Home appliance market for multislide technology





### **BU Spring activities – Small series**

UP2













- Dedicated to Small series (from 1 to 100Kpcs/year).
- 22 employees.
- Diversified market served: Electric, Medical, Energy, Defense...
- Processes: Progressives, standards and specifics tools.
  - > 25 presses 6T to 80T.
  - > 2 taping machines.
  - ▶ 1 manual cutting machine.
  - > 3 assembly stations.





## **BU Spring activities – Small series**













- Dedicated to Aerospace market.
- 5 employees.
- Processes: Progressives, standards and specifics tools.
  - ➤ 20 presses 1T to 40T.
  - ➤ 1 drilling machines.
  - ➤ 1 manual cutting machine.
  - > 1 tribofinishing machine.





### BU Spring activities – Small series













- Dedicated to Nuclear market.
- 25 employees.
- Production of Nuclear Power Plant Components.
- Processes: Transfer and Progressive tool.
  - ➤ 10 presses 20T to 320T.
  - > 1 dedicated degreasing line.
- Additional processes:
  - ➤ 1 dedicated control unit (100% visual control).
  - ➤ 1 dedicated packaging area.
  - > 2 dedicated automatic optical control machine.

