

ELPLC was raised in 2004 and currently it is one of the fastest growing companies offering industrial automation and robotics in Poland. ELPLC with 100% Polish capital is one of the key suppliers to European OEMs and Tier1 customers, providing its solutions to factories worldwide. Both facilities are located in Tarnów.

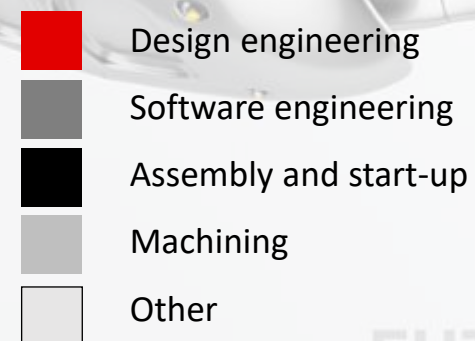
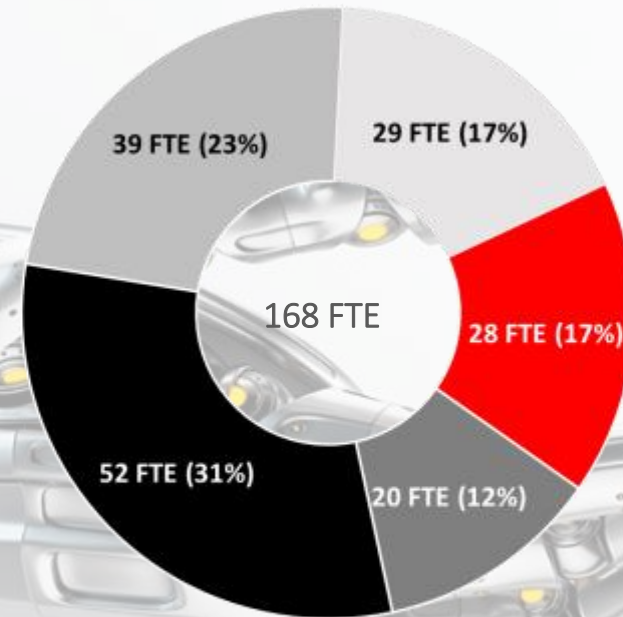
■ **Facility 1:** 1,650 sqm



■ **Facility 2:** 2,550 sqm



## Employment Structure



FUTURE AWAITS.



**E-Mobility**



**Motors & Transmissions**



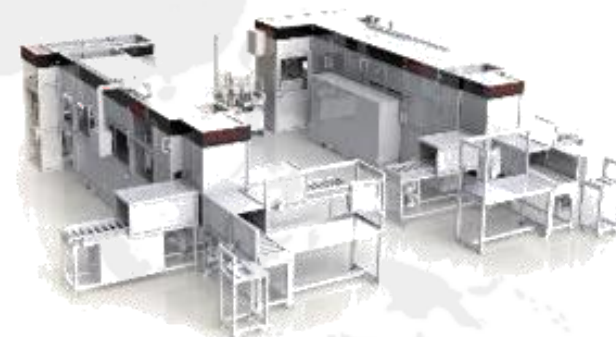
**Dampers & Gas springs**



**Turbochargers & Injectors & Phasers**



**Cooling Systems**



**Automation & Robotics**

- 
- Robots & Manipulators
  - Complete Assembly & Technology Lines

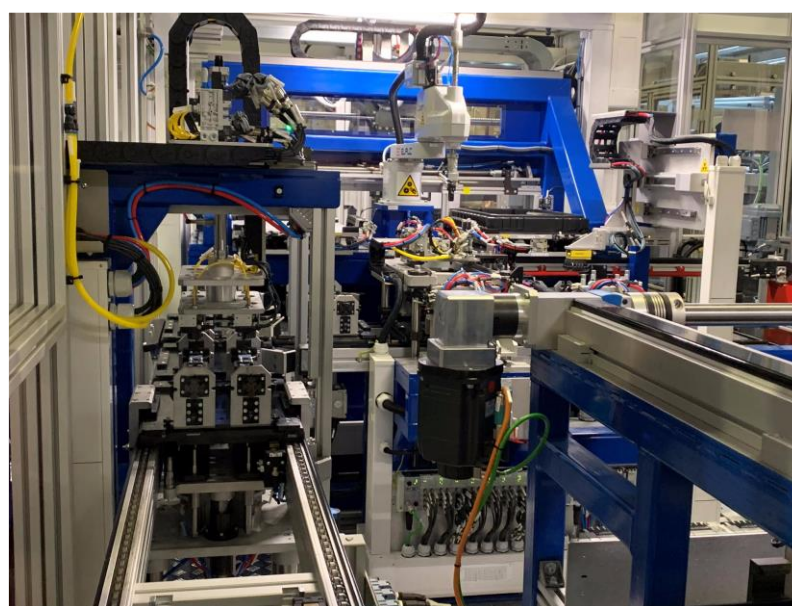
- 
- Machinery & Stations for Industry 4.0
  - Industrial Automation & System Integration

- 
- Software Solutions
  - Vision Systems





Heating elements (emobility)  
production line (Poland)



## System characteristics:

- Fully automatic components feeding (robot + vision system pick & place )
- 1 hour autonomous work capability
- Automatic unloading and stacking into trays
- Glue dispensing unit with:
  - 2 components processed at the same time
  - Vision system for exact parts positioning (wide tolerance of shape)
  - Dispensing needles compensation system based on vision system and servomotors (to provide dosing path according to component real position)
  - 3 different dispensing paths
  - 2nd dispensing system for side glueing
  - Needles cleaning system
  - Needles calibration system
  - Control of the dose using weight
- Thermoactivated curing stations included





## Dampers Assembly Line (Mexico, Czech Republic..)

**System characteristics:** Assembling, gas filling, rolling, oiling and quality control

### CTS included

Line with innovative, modular damper characteristics test station CTS.  
Test force:  $\pm 10\,000\text{ N}$ , speed:  $0\text{--}1000\text{ mm/s}$ , measured stroke:  $0\text{--}400\text{ mm}$ .  
Speed curve shape: sinus, triangle, trapeze

### EPICS included

In-line modular machine for gas filling and rolling (closing) of car dampers







### Gas Springs Assembly Line (Poland)

Robotized final assembly line for automotive industry

#### System characteristics:

- in / out conveyors
- robot cell for pick & place to rotary table
- assembling (screwing and clamping)
- marking (specialized inkjet)
- and end of line quality control
- gas springs functional characteristic test



**SUPPLY CHAIN**

**CONSTRUCTION**

**PRODUCTION**

**R&D**

**MECHATRONICS**

**RETROFITTING**

**ELECTRICAL  
ENGINEERING**

**MAINTENANCE**

**SOFTWARE  
ENGINEERING**

**COMISSIONING**

