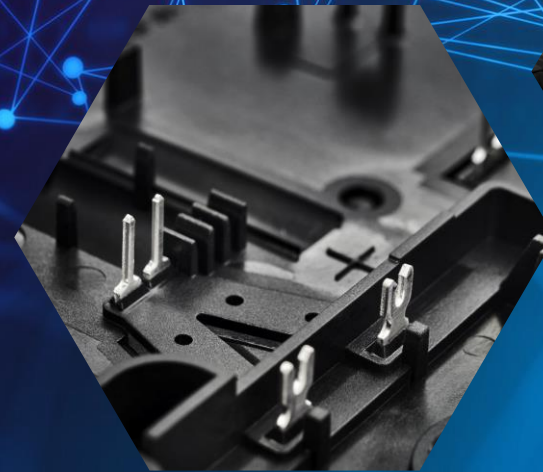
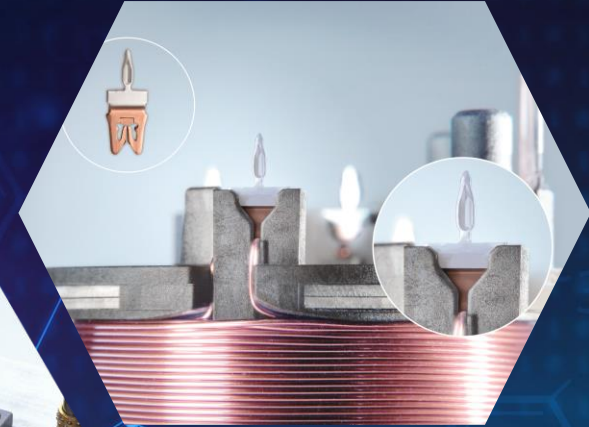


iwis mechatronics

wir bewegen die welt



1916

Founded



Munich

Headquarter



49

Locations
worldwide



3.200

Employees



200

Trainees

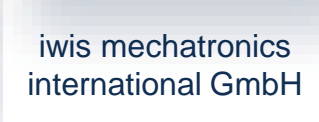
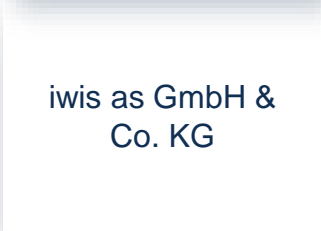
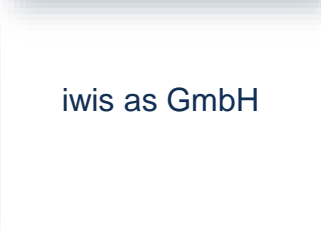
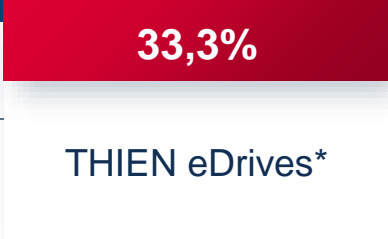


660 Mio. €

Planned Turnover '21



The divisional structure of iwis



Company business areas

Automotive

Share of turnover
33%

iwis motorsysteme



- Timing drive systems, camshaft drives, mass balancing mechanism and oil pump drives for the automotive industry
- Complex motion systems

Industry

Share of turnover
22%

iwis antriebssysteme



- Precision chains, sprockets and chain tensioners for power transmission and conveyor technology
- Agricultural chain systems as well as positioning as technical service provider for agricultural technology

Mechatronics

Share of turnover
45%

iwis mechatronics



- High-precision sheet metalworking, stamping and bending, in particular in electrical connection technology
- Hybrid electromechanical components with bondable surfaces, plastic-metal interconnections

International locations in Europe, Asia and North America

Our strong basis for production and development



iwis

Neugablonz, Germany



THIEN eDrives
Lustenau, Austria



iwis

München, Germany



iwis

Rieden, Germany



iwis mechatronics
Schwaigern, Germany



iwis

Landsberg, Germany



iwis mechatronics
Grand Rapids, USA



iwis

Murray, USA



iwis mechatronics
Suzhou, China



iwis

Oradea, Romania



iwis mechatronics
Ghiroda, Romania



iwis

Pinghu, China



- iwis antriebssysteme
- iwis motorsysteme
- iwis smart connect (iwis mechatronics)
- iwis mechatronics
- THIEN eDrives GmbH

iwis components in the vehicle

- Variable compression ratio system
- Complex mechatronic systems
- Timing drive systems
- Power connection adapter
- Electronics
- Charging
- Interconnected vehicle
- Autonomous driving
- Sensors



Product technologies

iwis mechatronics

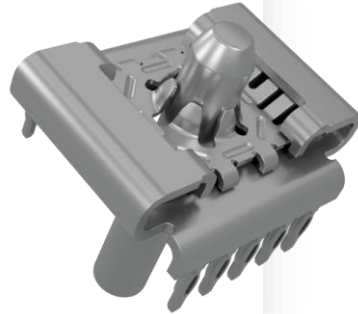
■ Unipress-Technology

With this technique, a press-fit pin is pressed into the through-hole plating of a circuit board, which is deformed in a defined manner. The diagonal of the pin cross-section is larger than the diameter of the hole in the circuit board - this creates a solder-free, corrosion-resistant and gas-tight electrical connection.



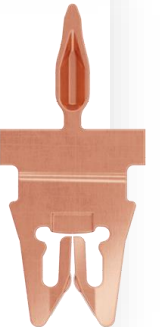
■ PCA-Technology

Safe power transmission with tolerance-compensating contacting - that is the most important feature of our contacting systems. The developed Power Connection Adapters can compensate for axis offsets and various assembly tolerances in three levels.



■ IDC-Technology

The IDC technology with a patented design is one of the most innovative connections for enamelled wires currently available on the market. The gas-tight connection between the enamelled wire and the terminal allows long and stable life cycles.



■ Busbars

- Busbars punched or lasered and bent
- Copper-copper welded joints
- Copper-aluminum welded joints (research)



■ Assemblies

As a provider of one-stop solutions, we deliver complete, hybrid assemblies from a single source. Depending on the requirements, these assembled or pre-molded assemblies usually consist of a combination of metal and plastic.

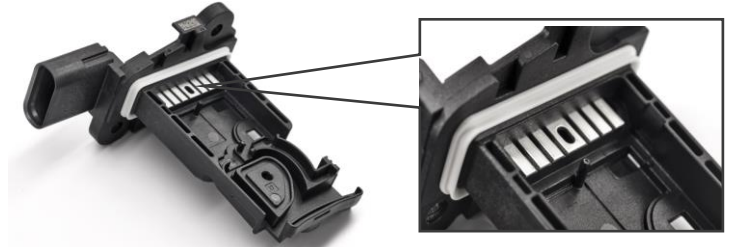


Hybrid components

Examples of applications

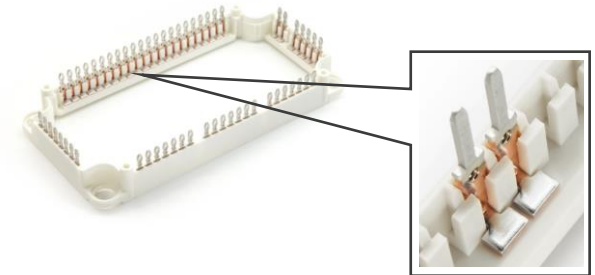
■ Sensor housing

- Special product properties (adhesive, welding, bonding surfaces)
- Mapping of the entire process chain in-house including validation
- Integration of passive components (capacitors, sealing elements)



■ Frame IGBT module

- Use in the high-performance area
- Application-related configuration and customer-specific power contacting
- High flexibility for new applications in the modular system



■ Wirebond frame

- Bond frame with overmolded bondable press-fit terminals
- Direct connection to the printed circuit board
- Electronic steering support

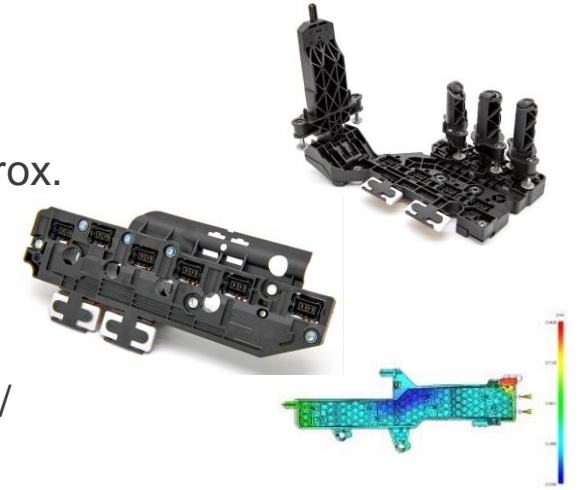


Hybrid assemblies

Examples of applications

■ Valve banks for dual clutch transmissions

- Complex hybrid assembly with 83 individual parts
- Development and industrialization competence led to savings of 15 tools and approx. 10 individual parts
- Complete development of the customer interface according to requirements
- Simulation of the individual components through FEM analyzes / flow simulations / warpage simulations



■ ABS/ESC Housing

- Traceability ensured by the DMC label
- International production facilities (EU, Asia, USA)
- Worldwide application
- considerable share of global demand



Thank you for your attention!

Mobility



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