

ODW ELEKTRIK

Systems for mobility and technology

WE EXPAND HORIZONS



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Success "story"

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Manufacturing

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Measurement laboratory

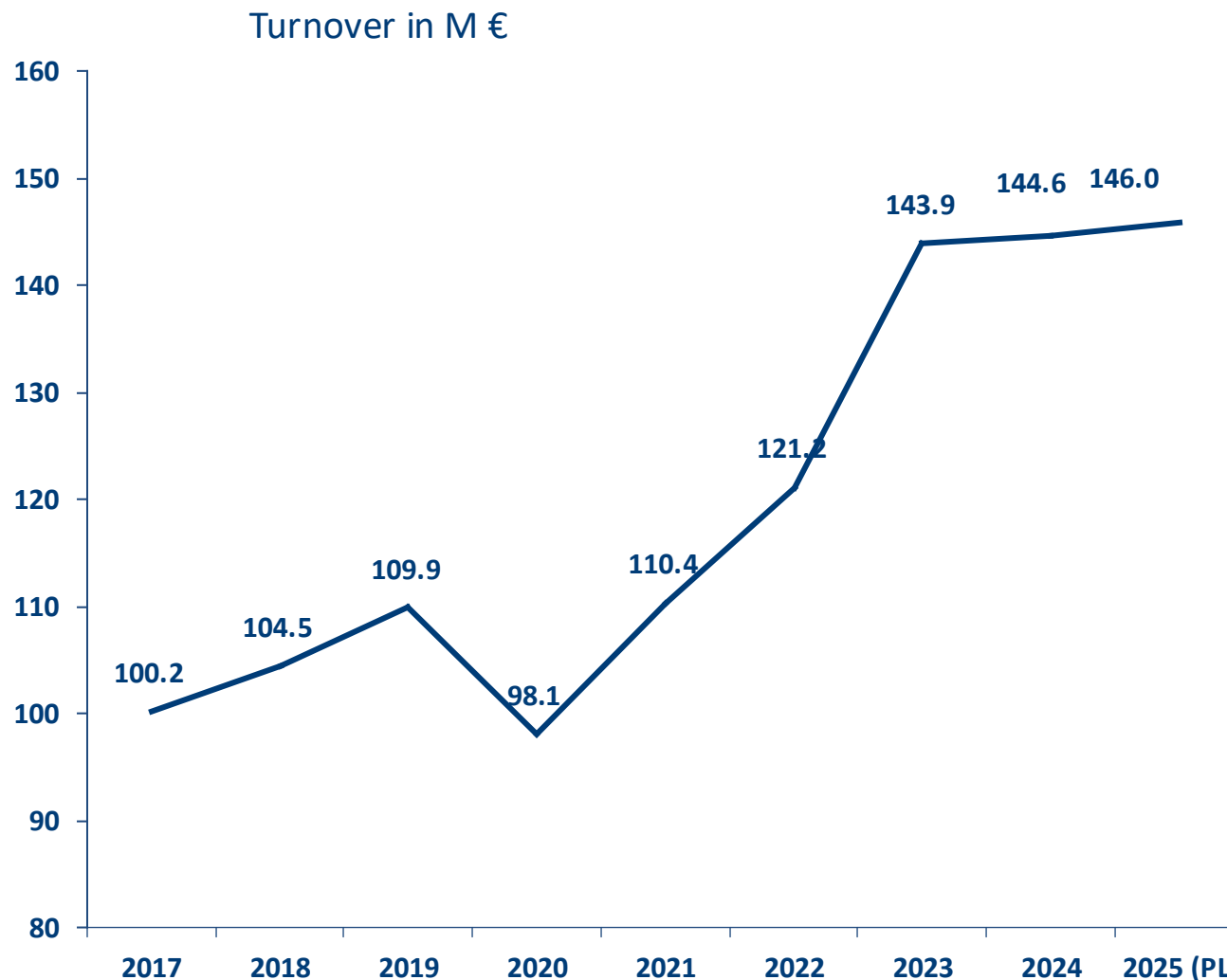
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Product

9



The best connections are formed from real partnerships



3,000 employees at 6 locations on 3 continents

Germany		 ISO <small>2015</small> *	
Hungary			
Ukraine			
North Macedonia			Headquarter
Mexico			Development of complex systems, production using fully automated systems.
Tunisia			Steinau Total area 7,200 m ²

Germany		 ISO <small>2015</small>	
Hungary			
Ukraine			
North Macedonia			Production of wiring harnesses for safety and comfort functions for door handle and liftgate drive systems; manual flow production.
Mexico			
Tunisia			

Germany		 ISO <small>2015</small>	
Hungary			
Ukraine			
North Macedonia			Development of the new location for the European market to secure growth, personnel, capacities and competitive cost structures as well as minimize risk.
Mexico			
Tunisia			

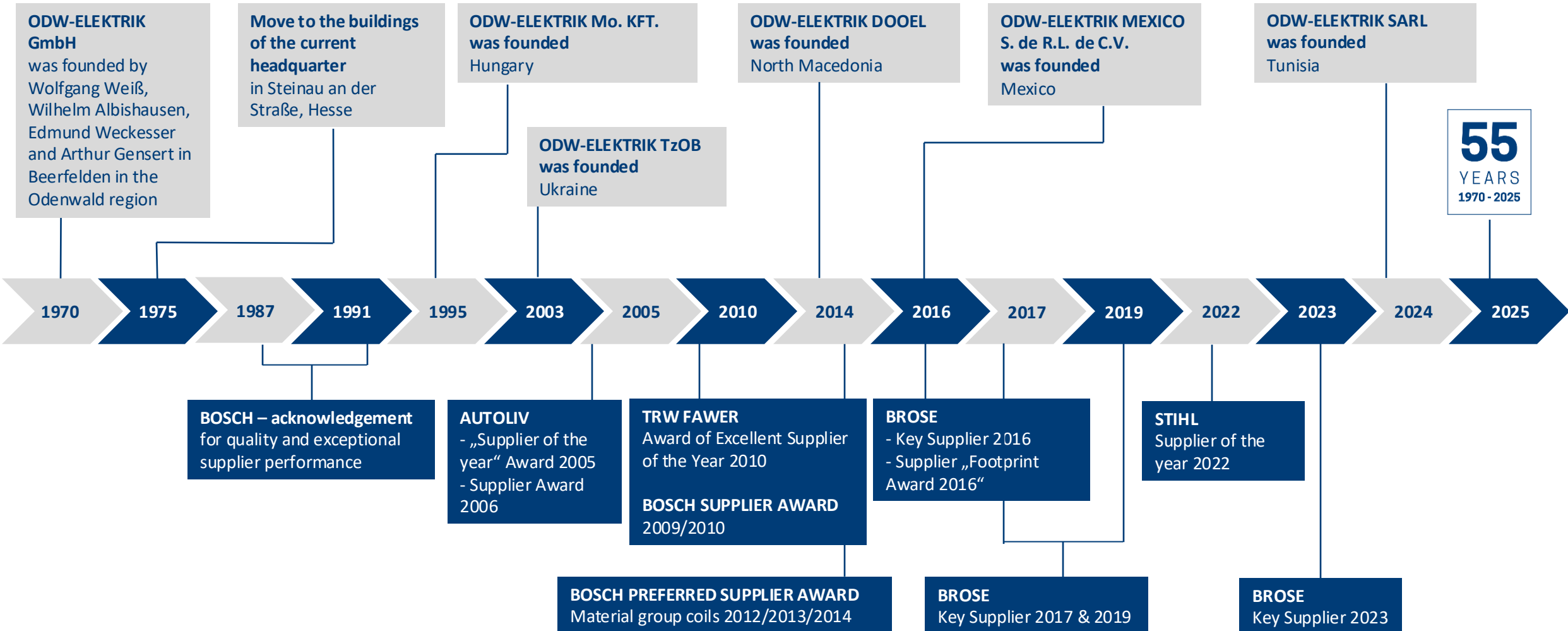


Germany		 ISO <small>2015</small>	
Hungary			
Ukraine			
North Macedonia			Production of wire harnesses and mechatronic assemblies for safety and comfort functions, in manual flow production and on semi-automatic production lines.
Mexico			
Tunisia			

Germany		 ISO <small>2015</small>	
Hungary			
Ukraine			
North Macedonia			Production of a wide variety of cable harnesses and mechatronic assemblies, in manual flow production and on partially/fully automated production lines.
Mexico			
Tunisia			

Germany		 ISO <small>2015</small>	
Hungary			
Ukraine			
North Macedonia			Production of different cable harnesses and mechatronic assemblies for safety functions, in manual flow production and on partially/fully automated production lines.
Mexico			
Tunisia			

„History“ of success



Manual flow production



Fully automated production



Semi-automatic production



Wire stripping



Cutting & Crimping



Crimping



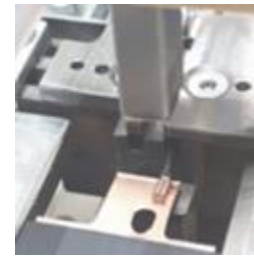
Winding of coils



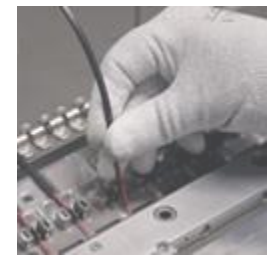
Soldering



Resistance welding



ESD manufacturing



Assembly



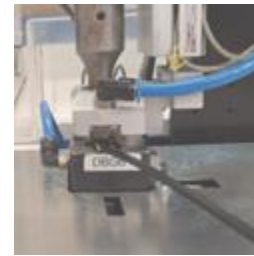
Potting



Plastic injection moulding



Ultrasonic welding



Laser welding


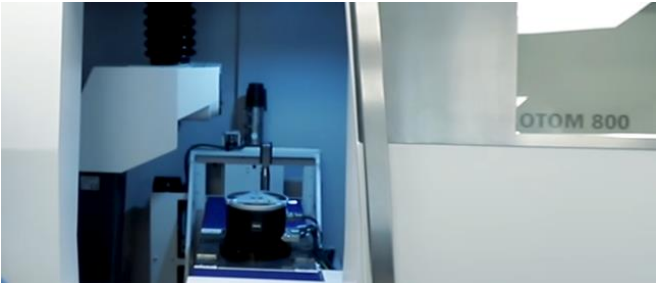
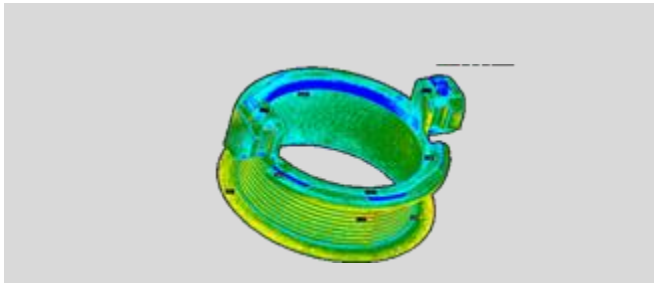


Taping



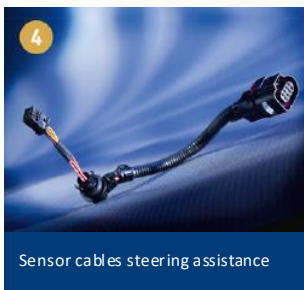
Processing of PCBs



Wide range of services, cross-location standards		Extensive measurement and analysis technology		Innovative data evaluation capabilities	
2D & 3D measurements of almost any geometry	Tactile, scanning, optical & mechanical measuring methods	Non-destructive measurements, testing and failure analysis	Service life tests according to customer requirements	Automatic generation of test reports	Comparison (target/actual value) to CAD models
Coordinate measuring technology		CT measurement technology		Comparison target/actual value	
					



Magnetic coils and components for common rail systems



Sensor cables steering assistance



Magnetic coils for high-pressure fuel pumps



Electronic transmission systems steering



Exhaust sensors supply lines



Airbag supply lines

Fields of application in the car



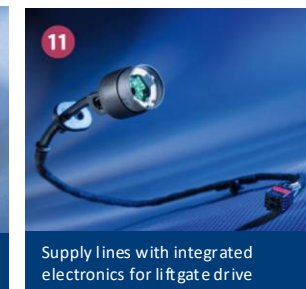
Surface heating systems



Battery management systems



Brush systems for window regulator



Supply lines with integrated electronics for liftgate drive



Belt buckles occupation identifications



Sensors for intelligent liftgate drive



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Magnetic coils and components for common rail systems



3

Exhaust sensors supply lines



2

Magnetic coils for high-pressure fuel pumps



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Battery management systems

Magnetic coils and components for common rail systems

- ODW is a development supplier for solenoids and assemblies
- Production takes place on fully automatic production lines

Magnetic coils for high-pressure fuel pumps

- In high-pressure pumps for diesel injection systems, the fuel quantities are dosed via solenoid valves with coils
- ODW has been manufacturing this product group since 1994

Exhaust sensors supply lines

- Sophisticated cable assembly for use in the high-temperature range
- Important component for monitoring exhaust gases from combustion engines

Battery management systems

- Cell Monitoring in Lithium-Ion Batteries via Cell Contact Plates
- Application in plug-in hybrids and electric vehicles as well as in industry



4
Sensor cables steering assistance



6
Airbag supply lines



5
Electronic transmission systems steering



9
Belt buckles occupation identifications

Sensor cables steering assistance

- Transmits the commands given by the steering wheel to the steering linkage to the steering gear motor
- The sensor cable ensures the complete operational capability of the steering wheel

Electronic transmission systems steering

- Fully automatic processing of ribbon cables
- Important component for semi-automated driving

Airbag supply lines

- ODW meets the highest quality standards for this safety-relevant component
- Internal assembly of an ignition pill plug

Belt buckles occupation identifications

- In-house development and production of the switch in mechanical as well as electronic design with Hall IC
- High vertical integration on semi- and fully automatic production systems
- Largest ODW product group with more than 30 million units produced per year



Surface heating systems



Supply lines with integrated electronics for liftgate drive



Brush systems for window regulator



Sensors for intelligent liftgate drive

Surface heating systems

- Heating of the front camera to ensure use in all weather conditions
- Guaranteed proper functioning of the assistance systems

Brush systems for window regulator

- Establishes contact between the movable and immovable parts of the electric motor
- Allows the window to be opened and closed electrically

Supply lines with integrated electronics for liftgate drive

- Controls the motor for electrically opening and closing the tailgate
- Processing of shielded or unshielded cables with integrated electronics and 2-component PUR potting

Sensors for intelligent liftgate drive

- Creation of a capacitive field, the interruption of which (foot kick) allows the tailgate to be opened fully automatically
- High vertical integration on semi- and fully automatic production systems
- In-house development and implementation of production facilities



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