

Customised plastic solutions for the automotive and industrial industries.



PÖPPELMANN K-TECH®

Good, if there is a suitable solution. **Even better if it causes no stress.**

With the innovative plastic solutions from Pöppelmann K-TECH®, you simply drive better. No matter how complex your requirements are, we will find the right solution for your project – economically, technically and guaranteed for the future. Sit back and relax and concentrate on your core business. Our team not only meets the deadlines, but also takes the load off you.

- ⊕ **Short development times:** CATIA V5, structure calculation (FEM), mould flow analysis, rapid tooling for prototypes.
- ⊕ **According to the requirement:** the right, most efficient process depending on customer requirements.
- ⊕ **Everything from one source:** development/design, construction, prototyping, in-house lab and inhouse mould technology centre, series production, quality assurance (test chamber), assembly of highly complex components and packaging.
- ⊕ **Innovation:** R&D, e.g. with regard to new materials such as the use of organic sheet inserts in plastic injection moulding.
- ⊕ **Certified quality management system:** consistently high quality standards (IATF 16949, DIN EN ISO 9001).

Plastics. Our Profession.



PÖPPELMANN

K-TECH®

THE COMPANY

Our aim: completely satisfied customers – worldwide.

Since 1949, Pöppelmann has developed into one of the leading manufacturers in the plastics processing industry with five production sites as well as 600 injection moulding and thermoforming machines and extruders.

“Made by Pöppelmann” quality is valued in over 90 countries worldwide. This includes a wide range of sectors: We supply the commercial horticulture with plant pots and cultivation systems and are also partners for numerous companies in the fields of machine and equipment engineering, the automotive, electrical, solar, food and beverage, chemical, pharmaceutical, cosmetics and medical industries, as well as surface engineering and the controls and instruments industry.

Pöppelmann at a glance:

- ⊕ Headquarters in Lohne/Germany
- ⊕ 5 production sites
- ⊕ 2,500 employees worldwide
- ⊕ 600 plastics processing machines
- ⊕ 4 divisions: KAPSTO®, K-TECH®, FAMAC® and TEKU®.
- ⊕ Our inhouse mould technology centre
- ⊕ 183 apprentices
- ⊕ Customers in over 90 countries



COMPETENCES

One-stop shop: From development to serial production.

Pöppelmann K-TECH® is your professional partner in all project phases for innovative, economic and at the same time perfectly functioning solutions – with reliable, on-schedule delivery. This also applies to the most complex and challenging projects: for example, if several components have to be coordinated, if the schedule is particularly tight or if it comes to the use of new materials and production processes.



Idea	Development	Mould Making	Series	Service and logistics
<ul style="list-style-type: none"> ⊕ On-site consultation ⊕ Feasibility analysis ⊕ Introducing innovative ideas ⊕ Developing an article concept 	<ul style="list-style-type: none"> ⊕ Design/construction ⊕ Prototyping ⊕ Technical Concept ⊕ Project planning ⊕ Quality pre-planning 	<ul style="list-style-type: none"> ⊕ Simulation ⊕ New moulds ⊕ Repair and maintenance ⊕ Automated leakage tests ⊕ Process implementation 	<ul style="list-style-type: none"> ⊕ Production ⊕ Strict quality control in our own lab ⊕ Assembly 	<ul style="list-style-type: none"> ⊕ Internal logistics ⊕ Warehousing (fully automatic) ⊕ Shipping

Just knowing technologies is not enough. You also need to master them.

Our aim is to develop technically flawless solutions for our customers' products and to produce them both efficiently and economically.

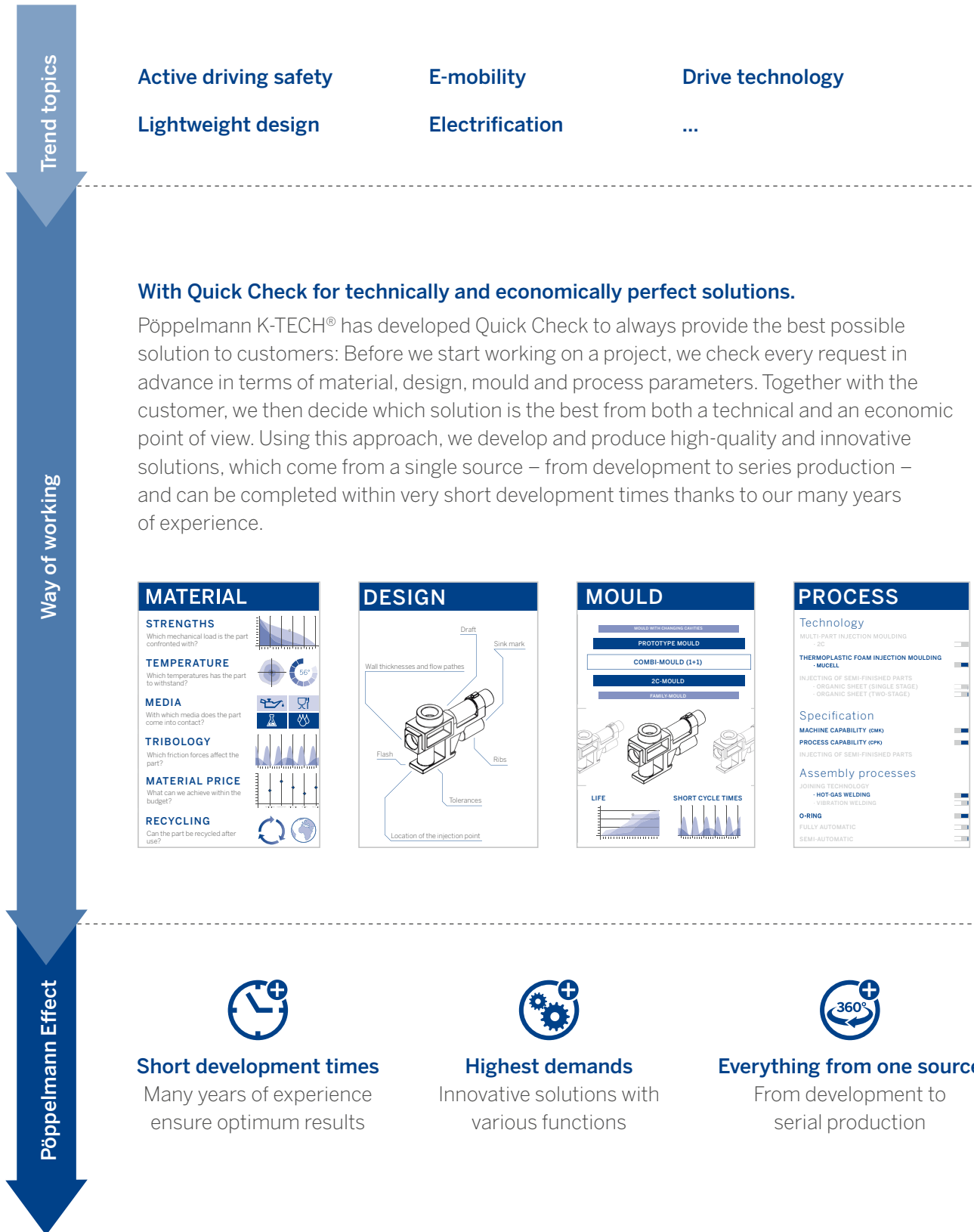
- ⊕ Thermoforming
- ⊕ Multi-component plastic injection moulding
- ⊕ Cleanroom production
- ⊕ Sterile room
- ⊕ In-Mould Labelling (IML)
- ⊕ MuCell®
- ⊕ ProFoam
- ⊕ Processing of organic sheeting
- ⊕ Metal-plastic compounds
- ⊕ Assembly technology

- ⊕ Hot gas welding
- ⊕ Vibration welding
- ⊕ Dry offset printing
- ⊕ FEM calculations
- ⊕ Filling simulations
- ⊕ Wall thickness analyses
- ⊕ 3D printing
- ⊕ Rapid tooling, etc.
- ⊕ Formed In-Place Foam Gaskets (FIPFG)

Our inhouse mould technology centre

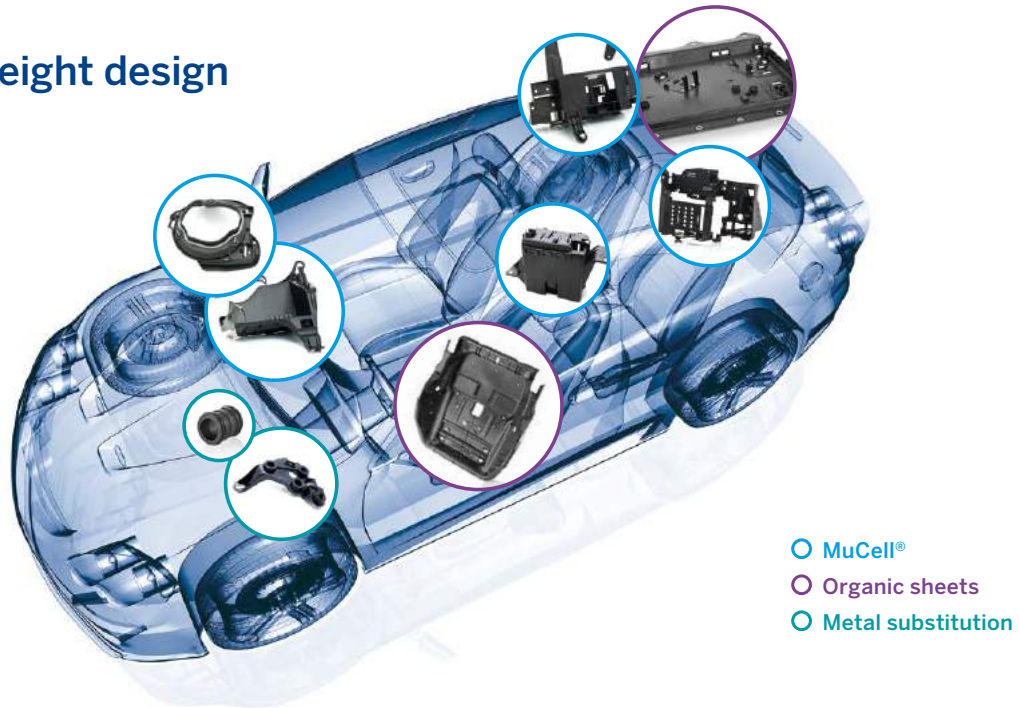
- ⊕ New mould making
- ⊕ Repairs
- ⊕ Rapid Prototyping
- ⊕ Small series production
- ⊕ International mould procurement

Our approach.



Series applications made of plastic for tomorrow's industry.

Lightweight design



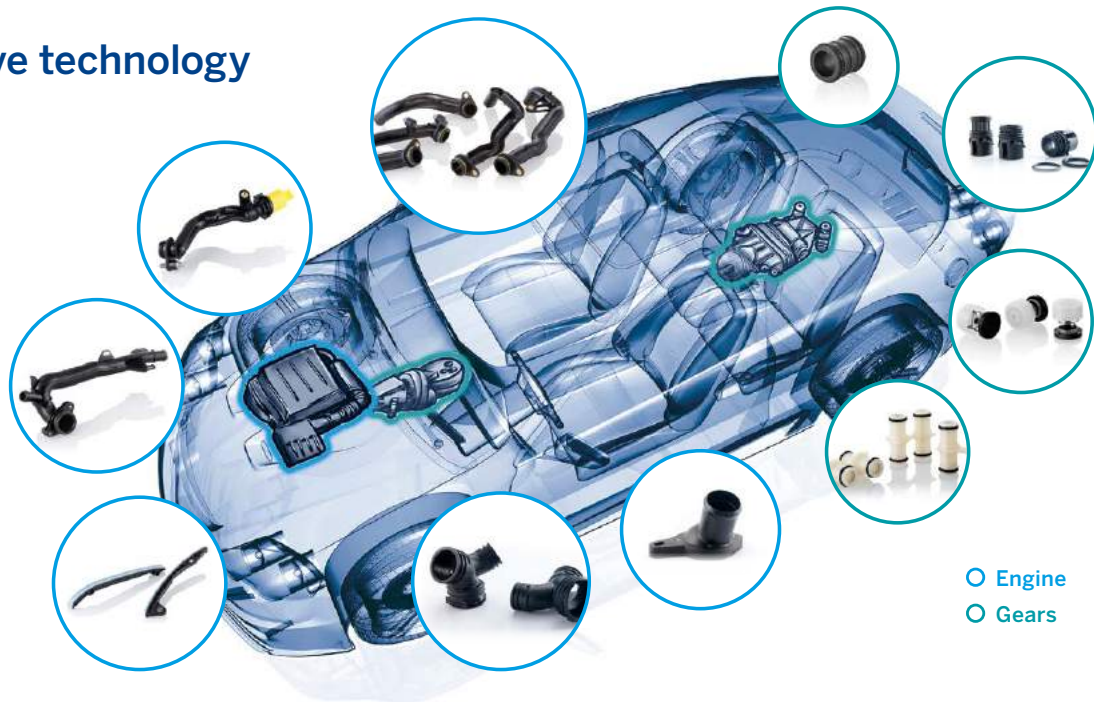
Driving assistance



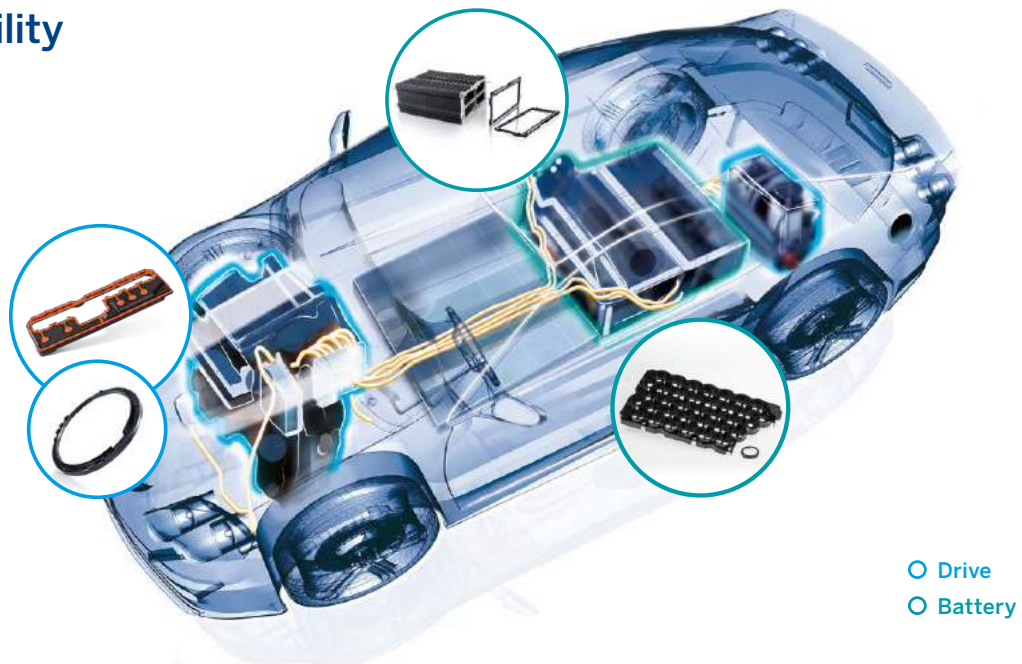
Plastic components are used practically everywhere in the automotive industry.

Whether in drive technology, in motors or gears, in the battery sector or in electronics, each series application is characterised by very individual characteristics providing unique challenges. Our core competencies include the development and series production of state-of-the-art technical plastic solutions that are precisely adapted to these special requirements and particular component geometries.

Drive technology



E-mobility



The added value for our customers.

Trend topics	Example	Added value
Active driving safety	Carrier plate for mono or stereo camera 	<ul style="list-style-type: none"> ✓ Function integration (integration of a heating pad so that the camera always has a free view) ✓ Temperature resistance (-30 °C to 105 °C) ✓ Rapid series maturity (2 years) ✓ Economic efficiency ✓ Weight-reduction ✓ Good gluing capability through form and technical cleanliness
	Housing for distance control camera 	<ul style="list-style-type: none"> ✓ Functional integration ✓ Time and cost savings (distortion and filling simulations enabled the complete omission of the prototype tool) ✓ Modular design ✓ Load-oriented ribbing (resulting from FEM calculations and filling simulations) ✓ Rapid assembly on radar and body (clip and lock functions) ✓ Technical cleanliness ✓ Reliable results thanks to accurate fit ✓ Secure installation
E-mobility	Customer space cover for inverter 	<ul style="list-style-type: none"> ✓ New product concept and development by Pöppelmann ✓ High temperature resistance (thermoplastic-silicone) ✓ Leak tightness ✓ Functional integration ✓ Technical cleanliness ✓ Shorter production times and cost reduction (silicone mat gluing interface no longer necessary)
Lightweight design	Bottom plate for battery 	<ul style="list-style-type: none"> ✓ Weight-reduction: 33% ✓ Reduction of warping and improved dimensional properties (compact function not provided) ✓ Prevention of sink marks ✓ Quicker series maturity ✓ Reduction of clamping force/machine size ✓ Reduction of production costs

CONCEPTS

Our concepts for the optimal component.

From sealing to weight-reduction and functional integration right through to technical cleanliness: We develop innovative, economic and technical solutions tailored to your individual requirements. Our project managers take good care of your interests at all times.



Technical cleanliness

From standard production to clean room production.



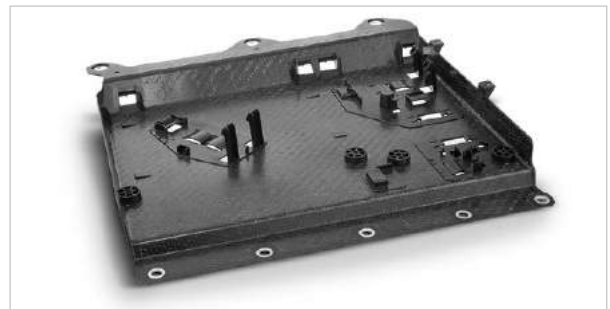
Functional integration

From insert moulding to complex assemblies.



Sealing technology

From thermoplastics to liquid silicone rubber (LSR).



Weight-reduction

From material reduction to organic sheet metal components.

And where do we start with you?

Make an appointment now:

[+49 4442 982-6010](tel:+4944429826010) or
k-tech@poeppele.com



PROTECTORS4CONNECTORS

Dynamic. Flexible. Directly available.

As an expert for plastic solutions with over 40 years of experience, we have developed **Protectors4Connectors** – a dynamically growing catalogue programme consisting of protection and fastening systems for electronic connectors, corrugated tubes, cables and cable assemblies. Discover how we **secure, guide** and **protect** your components with **Protectors4Connectors**.



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PÖPPELMANN

K-TECH®

RESPONSIBILITY

Product development according to eco-design specifications.

Reduce

We reduce the use of materials, e.g. through the MuCell® process. The use of our plastic products ensures additional weight-reduction in lightweight design.

Reuse

We are working on the development of products that are intended for multiple use. Our Protector4Connectors products have a high longevity.

Recycle

We develop future-oriented concepts to close material cycles. We have been using recycled material for 25 years to manufacture our products.

Closed material cycle.

As a plastics processing company, we see it as being our duty to make our products and processes as environmentally conscious as possible – because plastic is an enormously valuable raw material. Nevertheless, only about half of the plastic used in packaging waste is currently reused in Germany. We want to increase this quota – together with food manufacturers and trading partners, research institutions and recycling experts. With our **PÖPELMANN blue®** initiative, we do our best to achieve a closed material cycle in which the plastic used comes from one and the same stage of the value chain.

All information can be found online:

poepelmann.com/blue



Watch the movie:
poepelmann.tv



You can find more information online:

www.poeppelmann.com/k-tech

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