



# Automotive Applications

Plastic pipes for the automotive industry

### MAINCOR – YOUR PARTNER

We develop and manufacture components for the automotive industry that are specifically adapted to your requirements. As a competent manufacturer and development partner we assist you from the initial idea to the finished assembled component. The issues cost & weight optimization, optimum use of available space, chemical resistance, flexibility regarding implementation, as well as compliance with legal provisions are of particular importance to us.

Thanks to our extensive and in-depth technical knowledge when it comes to extrusion, as well as

processing of high-tech plastics, we develop and manufacture in close cooperation with our customers.

Employing the latest extrusion technology, we produce smooth and corrugated pipes in all diameters and lengths. In addition to this, the manufactured products can be permanently formed on customer request using XYZ coordinates to make optimum use of the available space and have possibilities for adaptation when assembling.

From the manual assembly of small series, to semi-automatic systems and through to fully automated handlings,

the pipes produced and formed in-house are complete modules with quick connectors, various abrasion and heat protection hoses, check valves as well as other types of accessories. In a final step all modules are submitted to a 100% test, depending on the requirements, with regard to dimensional accuracy and tightness.



Production site Knetzgau







### MATERIALS

Our expertise is based on many years of experience in the extrusion of raw materials ranging from polyolefins (PE-HD/LD or PP) to polyamides (e.g. PA6, PA610, PA612, PA11, PA12, PA1010) as well as thermoplastic elastomers (TPE, TPC), to special highperformance plastics (PPA, PPS) as well as multi-layer structures which reduce permeation.











In close contact with our raw material suppliers, our research department develops and modifies existing materials to be able to meet specific customer requirements at any time.

### QUALITY

We stand for highest quality and customer satisfaction.

Using advanced test equipment, such as the 3D CNC measuring machines, ultrasonic devices to test wall thicknesses and diameters, as well as high-voltage breakdown testing systems, we are in a position to constantly monitor the zero-failure principle, to ensure a transparent quality test and inspection, and to guarantee the high quality of our products.

### PROPERTIES

-  -40°C to < +200°C
-  Designed for the highest bursting pressures
-  High acid and lye resistance
-  Minimum bending radii
-  Blow-by- and AdBlue resistance
-  Cost optimization thanks to weight reduction
-  Customized solutions for all requirements
-  Stress-resistant solutions
-  Smooth pipes: Ø 3 – 35 mm
-  Corrugated pipes: Ø 4 – 50 mm

### AIR AND COOLING SYSTEMS

BlowBy lines, suction and charge-air pipes, ventilation, symposer and cooling lines, brake-vacuum lines



### COMPONENTS FOR SEAT-ADJUSTMENT SYSTEMS

Pipes and profiles for seat-adjustment systems

### COMPONENTS FOR LIFTGATE DRIVE

Guide pipes



### FUEL AND SCR SYSTEMS

Tank-Top and in-tank lines, fuel-filler necks and venting lines, conveying and protective lines (SCR systems)



### CLEANING

Lines for headlight and windscreen washer systems



### THERMAL MANAGEMENT

Lines and assemblies for battery cooling



**MAINCOR**  
DIE ROHRHELDEN




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