

# Corporate introduction

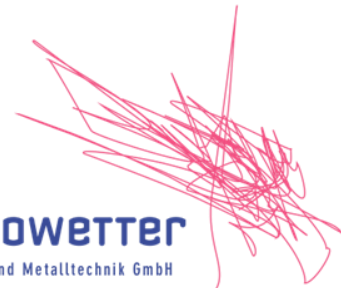
Extraordinary products on the  
highest level

Kronowetter Kunststoff- und Metalltechnik GmbH  
Gewerbestr. 32  
83404 Mitterfelden

**KRONOWETTER**  
Kunststoff- und Metalltechnik GmbH

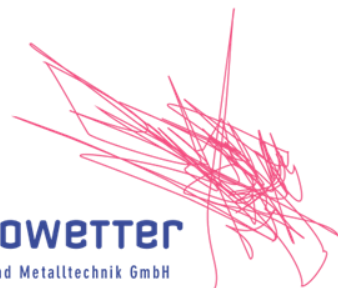


# Corporation



- German family business with 20 highly qualified employees  
Director: Bernd Kronowetter
- Foundation: 1998
- Specialised on demanding, complex products and materials that are difficult to machine
- Processing of plastic and silicone
- Powder injection molding and sintering of metals, ceramics and glass
- In-house quality and project management, construction, tooling manufacturing and production
- bonding-tape-application, laser-labeling, assembly, 2-component-processes, multi-color pad-printing, surface activation
- Customers from electronics, medical engineering, automotive, life-sciences,...
- Certified according to DIN ISO TS16949

# Customers



# Collini

KaVo.  
Dental Excellence.

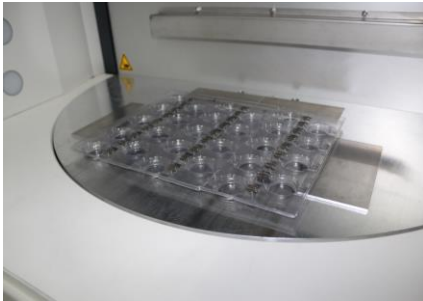
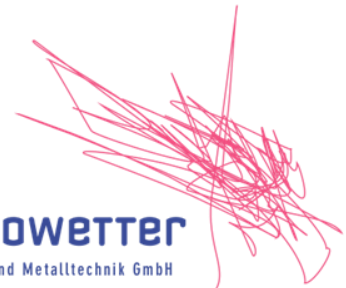
The KaVo logo, featuring a stylized blue 'K' and 'V' intertwined.

**Audi**



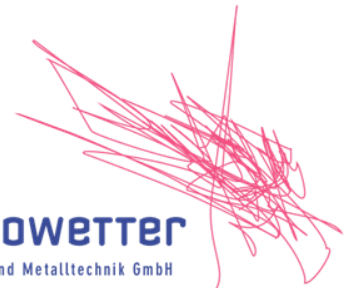
**PORSCHE**

# Know-how



- **Joining technology injection molding**  
Solid connection of silicone and polyamide
- **Metalized plastics**  
Plastics with electrical and shielding properties of metal
- **Powder injection molding (MIM/CIM)**  
filigree, high-precision and geometric demanding structures out of metal and ceramic
- **Lightweight automotive**  
Replacement of metal with high-performance-plastics
- **Lifetime tools**  
For highly abrasive materials

# Product: Mirror foot

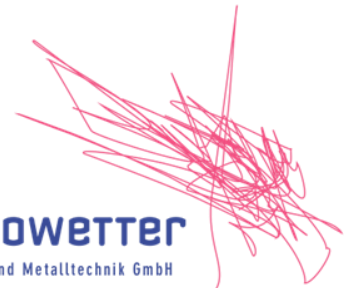


## Replacement of mirror foot made out of alumium

- Declaration: Using a highly carbon fiber reinforced thermoplast
- Weight reduction with hollow glas balls > 50%
- Drastical price reduction
- Drastical improvement of vibration characteristics
- Development completed for two German OEM's



# Product: Mirror bracket



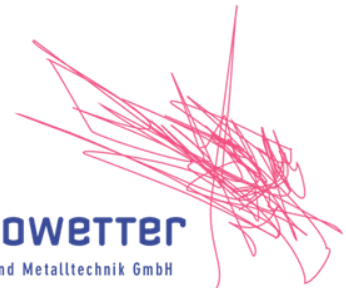
## Replacement of mirror bracket out of sintered steel



- Description: Using a glass fiber reinforced high temperature thermoplast
- Weight reduction of 75%
- Drastical price reduction
- Series production for AUDI and PORSCHE since 2008, BMW since 2016

# Product: Off- Axis paraboloidal mirror

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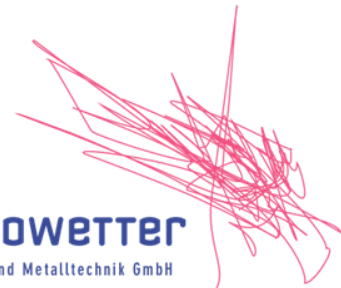


## Ray redirection in an analytical apparatus



- Description: Ray redirection in a spectroscope only with paraboloidal and ellipsoidal mirrors
- Basic material: plastic
- Surface accuracy <500nm
- Surface coating:
  - 180nm highly reflective aluminum
  - 20nm protection layer against corrosion
  - Surface roughness < 5nm
- Series production for MOLECULAR DEVICES since 2012

# Product: Ring with lenses



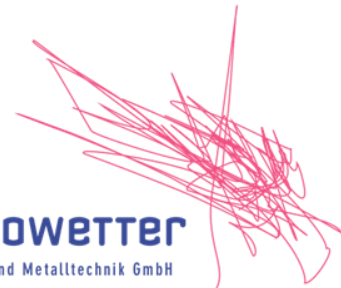
## Replacement of a carrier for glued glass lenses



- Description: monolithic plastic part with injected lenses
- Surface accuracy 300nm
- Replacement of an in a post process assembled ring with a printed surface by activating the plastic surface and a subsequent multicolor pad-printing
- Series production since 2007



# Product: LED pre optics

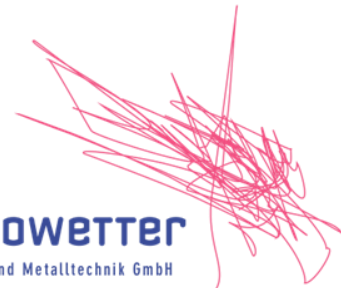


## Replacement of a mercury vapor lamp with LED's



- Description: assembly compatible LED-module as an illuminant for a street lantern
- Ray redirection without reflectors with a total reflecting, paraboloidal ray optics
- Simultaneous injection of eight units
- Surface accuracy 500nm
- Light losses of 1%
- Series production for AE Schröder since 2010

# Product: MIM and CIM parts

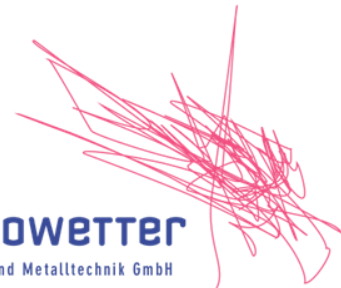


## Metal- / Ceramic-Injection-Moulding



- Description: Injection molding and sintering of hard machinable materials like ceramics (e.g. aluminum oxide) and metals (e.g. titan, tungsten)
- Much easier production and drastical price reduction of complex geometries with small tolerances
- Series production since 2003

# Product: Injection molded tablets

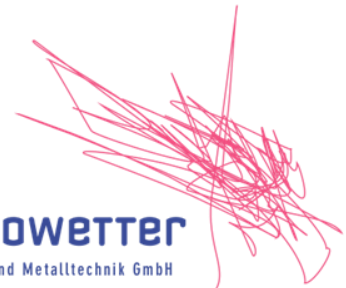


## Water soluble and biocompatible plastics



- Description: pharmaceutical active component with crystalline structure that is not soluble and not absorbable from the human body
- Dissolution of the active component in the plastic melt
- Injection molding of plastic with the pharmaceutical active melt
- Development of a series process with machines and cleanroom conditions for a market leader from the United States

# Contact



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