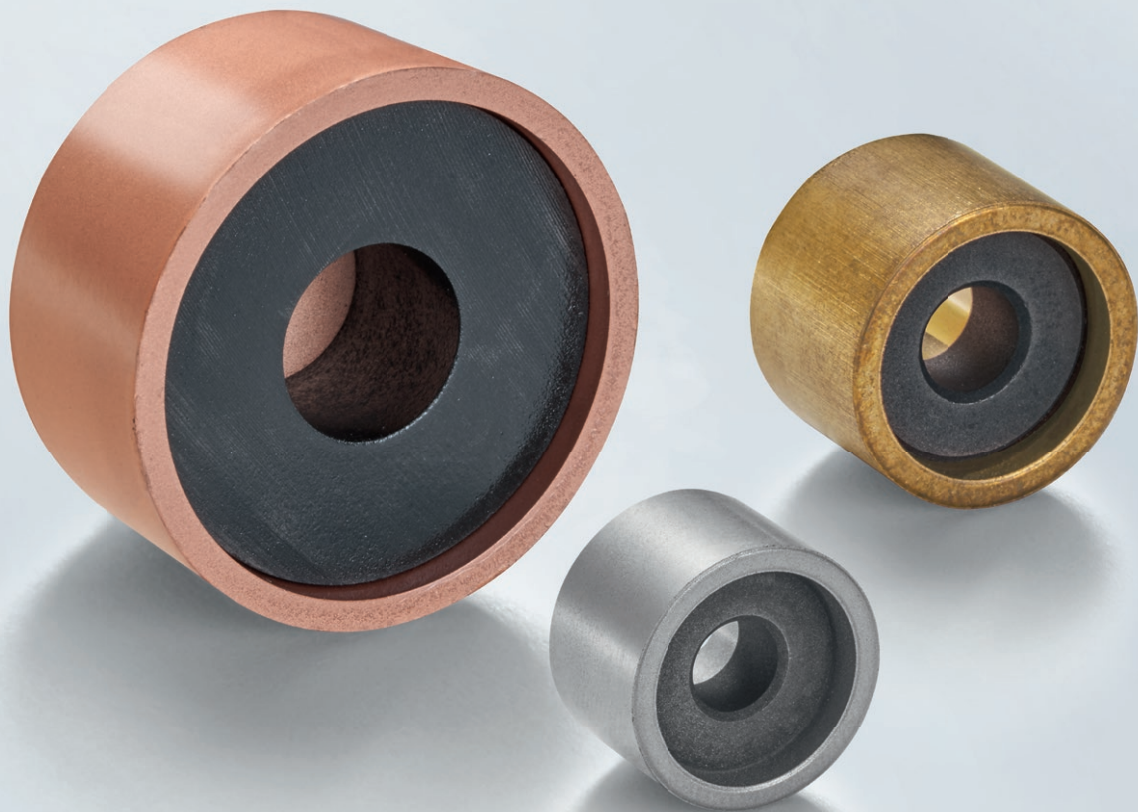




Mobility

Hybrid Parts: Sintermetal and Carbon

Imagine the possibilities



Hybrid Parts: Sintermetal and Carbon

Hybrid parts combine the strength of both materials: sintermetal and carbon. With this combination, our hybrid parts extend the application range with highest precision and flexibility.

Exceptional wet and dry lubrication, universal chemical resistance and high temperature stability are the characteristics which make our hybrid parts perfect for applications such as exhaust gas flaps or waterpump systems - just to name some of them. With our specialized production abilities, we are able to combine sintered metal processes with carbon processes. Therefore we offer high accuracy and quantities, special services and short product development cycles.

Carbon advantages

- High temperature and chemical resistance
- Self lubricating and low wear
- Light weight

Sinter advantages

- Complex geometries and high strength
- Impregnation possibilities
- Vibration damping

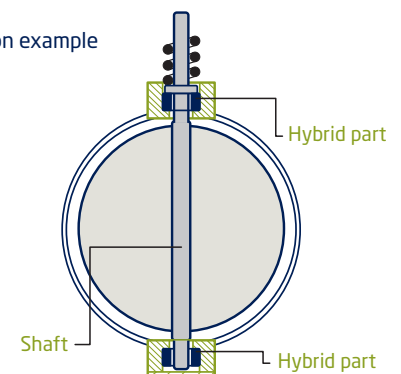
Hybrid part advantages

- Strong form and force fit
- Mounting variability at customer site
- Complexity reduction: one supplier

Your most important benefits:

- Function integration
- Cost and complexity reduction
- High accuracy and high quantities
- Flexible production abilities
- New design and mounting possibilities

Application example



Applications:

- Exhaust valves for:
 - Backpressure EGR
 - Silencer bypass
 - Other bypass systems
 - Control levers in high temperature or aggressive media atmosphere
- Pumps for:
 - Thermo management
 - E-system cooling
 - Engine cooling
 - Refrigerant systems

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14.18e/2022