



**GKN MIM APPLICATIONS**

Prod. Group No. 2200



**Transmission Components**

- Support of component design using the latest CAD software
- Technical support helping customers with the development of new products. This includes methods such as feasibility studies, simulation tools, FEA analysis and FMEA
- Close dimensional and positional tolerances
- Excellent surface finish
- High precision and reliability
- Excellent strength

**Manual Transmission  
Gears  
Slide Blocks**



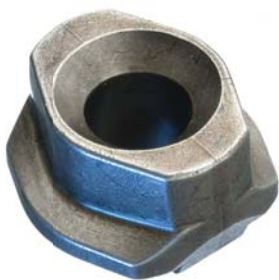
## GKN MIM APPLICATIONS

### MIM Components for Transmission Systems

- Reproduceable as-moulded geometries
- 3-D complexity
- Isotropic small-grained microstructure
- High ductility and fatigue strength
- Tensile strength > 950 MPa
- Verification of component design using FEA analysis, simulation tools, prototype manufacture and FMEA
- Conversion from machining to MIM reducing weight and costs

#### Slide block

- convex surface



#### Gear

- cross holes in place
- undercut on shape



#### Gears shift mechanism

- weldable

