Metal-Matrix-Composites (MMC) offer unique combinations of properties. This group of materials becomes interesting for structural and functional applications where conventional materials no longer meet the requirements.

Advantages

- Adjustable and combinable physical properties (e.g. thermal expansion and thermal conductivity)
- Improved wear resistance
- Increased rigidity
- Improved specific mechanical properties

Powder metallurgical manufacturing

These manufacturing methods have a high application potential due to the technical feasibility of a large variety of combinations of material properties. In addition to a high flexibility in the selection of the matrix alloy and the reinforcements, there are only minor limits set concerning size and geometry of the particles or short fibers.

Services

- Material development for concrete component requirements
- Technology development
- Consultation and research concerning the application of MMCs