

Karlsruhe Institute of Technology





MECHANICAL AND MICROSTRUCTURAL PROPERTIES OF VARIOUS SINTERED W-PIM MATERIALS

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Motivation:

The manufacturing of tungsten parts by mechanical machining, such as milling and turning, is extremely cost and time intensive. Powder Injection Molding (PIM) is a promising manufacturing method in view of large-scale production of parts with high near-net-shape precision, hence, offering the advantage of a cost-saving process compared to conventional machining.



MASS PRODUCTION OF COMPONENTS



Conclusions:

PIM as special process allows the mass production of components, creation of composite and prototype materials, and is an ideal tool for scientific investigations.

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