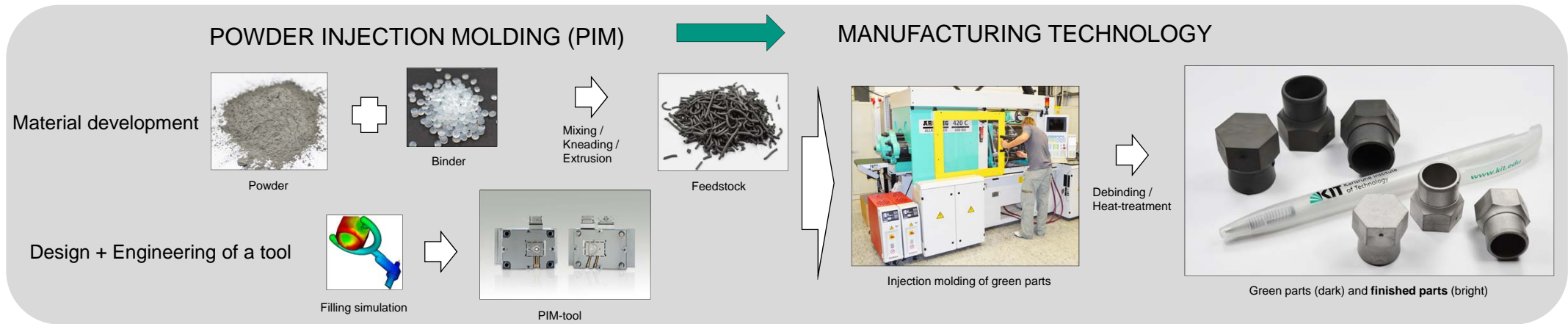
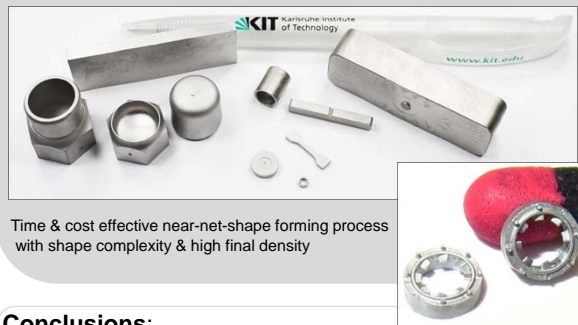


Motivation:

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.



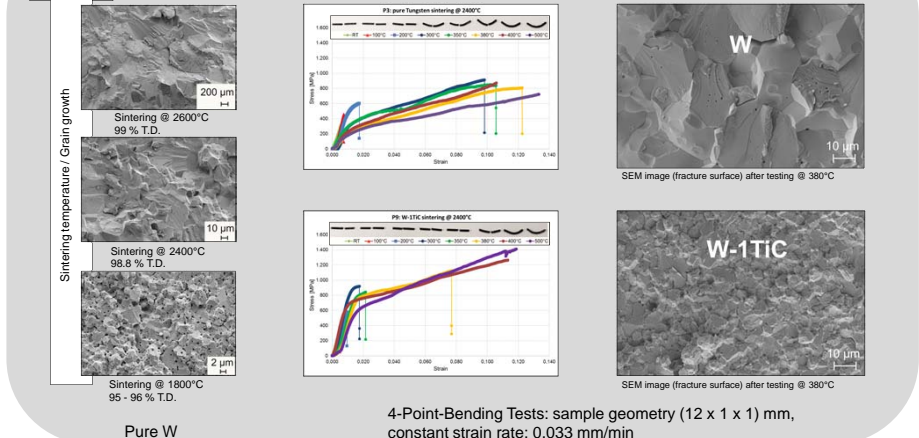
MASS PRODUCTION OF COMPONENTS



JOINING TECHNIQUE



MATERIAL DEVELOPMENT



Conclusions:

PIM as special process allows the mass production of components, the joining of different materials without brazing, the creation of composite and prototype materials, and is an ideal tool for scientific investigations.