Brake Band

Company: Schunk

Application Sector: Automotive

Requirements: These components are used in manual seat-height adjustment devices in automobiles. With a total of five other uniaxial compacted powder-metal components, a set of two brake bands are fitted into each adjustment unit. It is the narrow tolerances of this component which pose a big challenge for the process technology.

Benefits: With a thinnest wall thickness of less than 2mm, and an outside diameter of 53mm, high tolerance demands are also placed on the evenness of the component, amounting to 0.2mm with the total height of the part being 4mm. The use of PM being a carefully controlled and fully linked production process enabled the manufacture of several million such components in compliance with the tolerance demands.

Product Density: (g/cm³) 6.85
Product Tensile Strength: 250MPa
Product Hardness: 80 HV10
Finishing: Deburring, Steam Treatment, Cracking