

EPMA 2008 Awards

for Excellence in Powder Metallurgy



Brake Band

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 precisely the narrow tolerances of this component with a thinnest wall thickness of less than 2mm and an outside diameter of 53mm which pose a big challenge for the process technology.



Furthermore, high tolerance demands are placed on the evenness of the component, amounting to 0.2mm with the total height of the part being 4mm. The manufacture of several million such components in compliance with the tolerance demands a carefully controlled and fully linked production process.



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