

# Hybrid ceramic and electrically insulated bearings advantages and applications

What is a [hybrid ceramic bearing](#)?

The hybrid ceramic bearing has an inner and outer ring made of bearing steel, and a ceramic called silicon nitride is used as the material of the rolling element.

Hybrid ceramic bearing applications:

Advantages: long working life, electrical insulation, wear resistance, high speed, poor lubrication can maintain certain performance

Applications: High speed motors, metallurgical industry, pumps, stepper motors, frequency converters

[Electrically insulated bearing](#) application?

Advantages: Protective bearings are damaged by current flow, 100 μm thick unique coating, bearing and insulation functions in one, economical solution, compared to the entire insulation system, a very low-cost solution, SKF Unmatched product range and availability, easy replacement

Applications: Paper industry, industrial fans, rolling mill stands, railway industry, industrial drive systems, frequency converters, pumps, compressors

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