

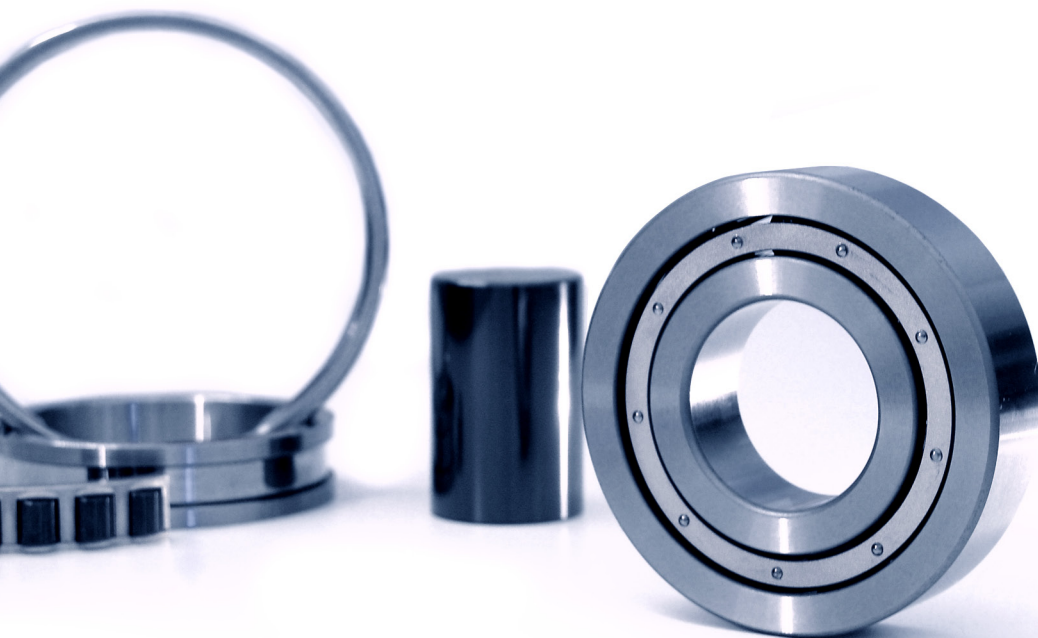
Ceramic Rollers

Silicon Nitride Rollers for hybrid bearings

Diamorph have developed silicon nitride rollers with outstanding mechanical properties. By tailoring the material microstructure, Diamorph have developed a fully dense and homogenous ceramic material. The new material is pore free, resulting in a superior surface finish. This reduces friction between the raceway and roller, creating a longer lasting bearing capable of higher speeds.

Diamorph Rollers

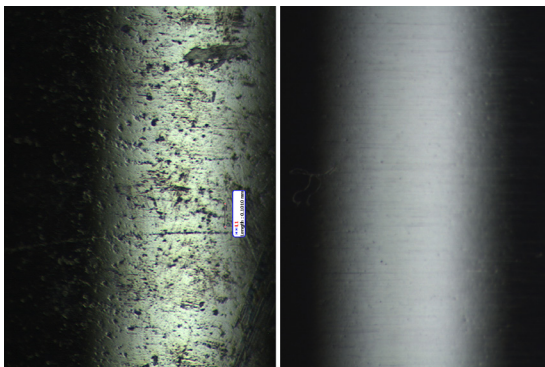
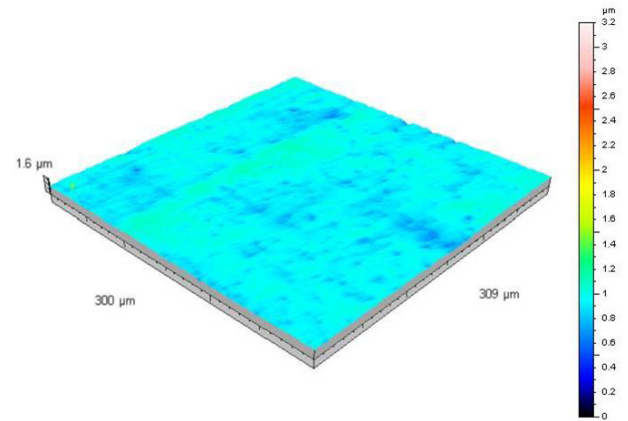
- » Fully dense silicon nitride rollers for hybrid bearing applications
- » Sizes available from 8x8mm up to 40x65mm
- » Rollers are delivered grinded according to specific profile, pre-grinded or as blanks



Key features

Outstanding surface finish

Diamorph's tailored material creates products that can be machined to a very high surface finish. This in turn leads to optimal surface distribution of lubrication, producing positive tribological conditions. As a result, bearings containing Diamorph rollers last longer and can be used at higher speeds.



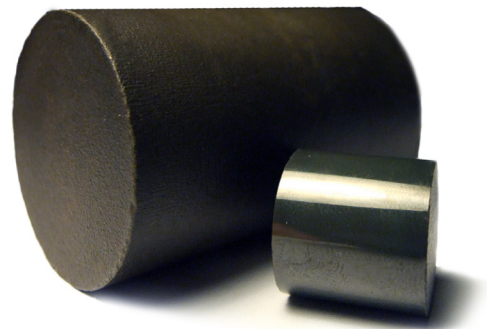
Competitor roller *Diamorph roller*

Superior Wear Resistance

Diamorph rollers are constructed out of a tailor made silicon nitride based material. This material possess excellent mechanical properties, ideal for load bearing applications.

Large Sizes

Diamorph's advanced sintering processes are capable of producing large rollers without loss in quality. Rollers up to 40mm in diameter can be produced with a pore free and homogenous microstructure.



Diamorph AB originates from the world-leading materials research department at Stockholm University in Sweden. The company is a leader in the development and production of advanced technical ceramics. Vertically integrated manufacturing facilities produce advanced material solutions for the most demanding applications.

For sales inquiries, please contact sales@diamorph.com

www.diamorph.com