

# HYBRID BEARING

$\text{Si}_3\text{N}_4$



**NKE HYBRID BEARINGS ARE COMPOSED OF BEARING STEEL RINGS AND ROLLING ELEMENTS MADE OUT OF A BEARING SILICON NITRIDE  $\text{Si}_3\text{N}_4$ .**

## **ADVANTAGES FOR THE USER OF NKE HYBRID BEARINGS**

- / Reduced maintenance costs
- / Extended grease life
- / Higher stiffness
- / Less prone to false brinelling
- / Reduced energy consumption
- / Reduced running friction
- / Extended service life up to 40%
- / Higher speeds possible up to 50%
- / Less weight - up to 55% lighter than steel rolling elements
- / Highest protection against electrical erosion
- / Reduced wear from vibration and contamination

## **PROPERTIES OF CERAMIC ROLLING ELEMENTS**

- / Electrically isolating
- / Low friction coefficient
- / Lower heat transfer
- / Corrosion resistant
- / Higher modulus of elasticity

**EXPERTS  
IN BEARING  
SOLUTIONS**