

Ultra High-Speed Angular Contact Ball Bearings

NSKROBUST™ Series E Type

New NSKROBUST series which achieved higher heat-seizure resistance and longer life than conventional steel ball bearing, by adopting NSK's original technology.



■ Features

Higher heat-seizure resistance and longer life

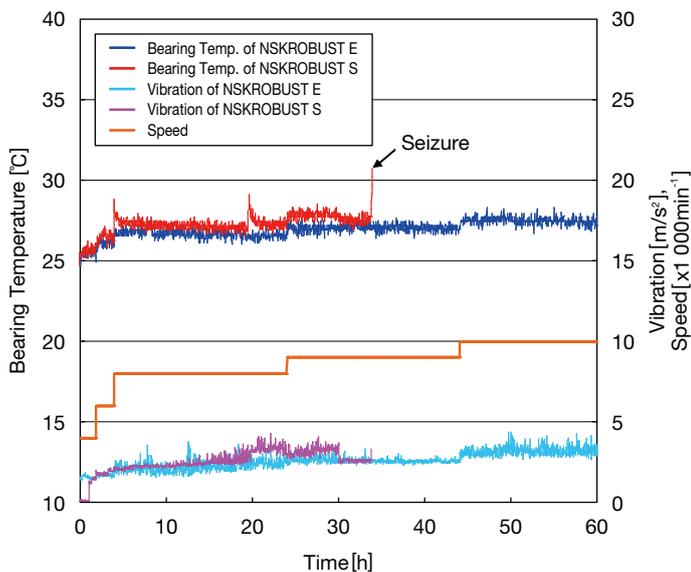
Newly developed steel ball: Ultra long life rolling element (EQTF™) enables higher heat-seizure resistance and longer life.

Feature of NSKROBUST Series E Type

Higher heat-seizure resistance and longer life

Newly developed steel ball: Ultra long life rolling element (EQTF™) enables higher heat-seizure resistance and longer life. That contributes to even higher reliability, and expands feasible operating area of steel ball bearings.

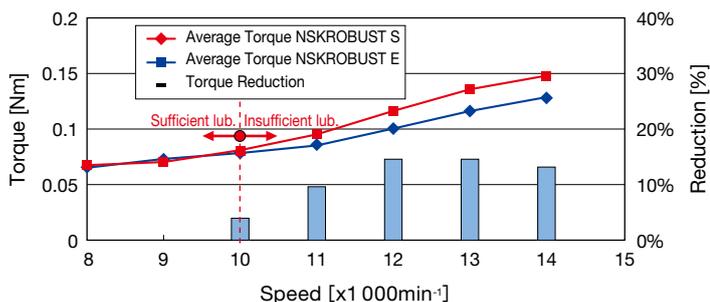
Seizure Resistance Test Result



Test Condition

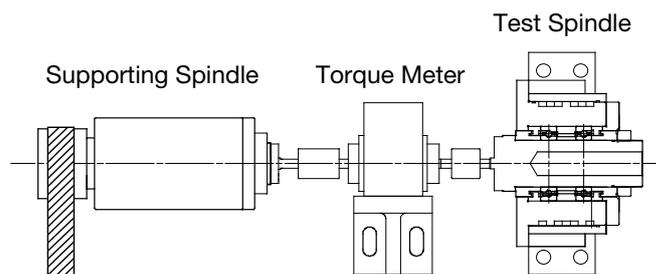
Bearing Number	50BNR10 (DB Arrangement)
Cooling Condition	With Jacket Cooling 24°C Constant
Speed	1 000min ⁻¹ increase /20h
Preload Type	Position Preload
Preload After Mounting	1175N (4.7 times of M preload)
Lubrication	NSK MTE Grease
Grease Quantity	15% of bearing internal space (1.2g)

Bearing Torque



Torque reduction under harsh lubrication conditions.

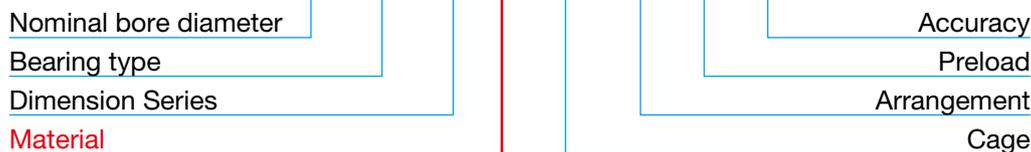
Test Bench Structure



Numbering System

Bearing number example : 80 BNR 10 E TYN SU EL P4

80 BTR 10 E TYN DB EL P4A



For more information about NSK products, please contact: www.nsk.com

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NSK used environmentally friendly paper and printing methods for this publication.

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