

## Condition Monitoring / Diagnostic Software ACOUS NAVI™



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### DESCRIPTION

#### What is ACOUS NAVI?

**ACOUS NAVI** monitors the operating status of machine elements by diagnosing the early signs of damage or deterioration. It is available as a FIELD system application supported by dedicated hardware. Our line-up provides condition monitoring and diagnostics for all of NSK's main products—bearings, ball screws, and linear guides.

- ACOUS NAVI for Bearings (Bearing Diagnosis)
- ACOUS NAVI for Ball Screws (Ball Screw Diagnosis)
- ACOUS NAVI for Linear Guides (Linear Guide Diagnosis)

### KEY BENEFITS

- **Visualise the state of bearings, ball screws, and linear guides**

Keeping equipment running at peak performance starts with bearings, ball screws, and linear guides. ACOUS NAVI visualises the state of these critical machine elements as a key part of predictive maintenance.

- **Detect damage and deterioration at an early stage**

ACOUS NAVI catches the signs of damage when they start—the ideal time for predictive maintenance. NSK's unique vibration diagnosis technology builds on years of R&D on the mechanisms behind damage and deterioration in bearings, ball screws, and linear guides.

- **Batch diagnosis**

Save time by diagnosing multiple mounted bearings and ball screws all at once. Easily prioritise maintenance work based on App diagnosis results.

### KEY FEATURES

All ACOUS NAVI software uses NSK's innovative vibration diagnosis technology to offer damage detection and condition diagnosis suited for your application. Our diagnostic toolkit consists of:

- ACOUS NAVI for Bearings  
 Detect and diagnose flaking (spalling) in bearings due to rolling fatigue, the intrusion of foreign matter, and scratches caused by excessive load.
- ACOUS NAVI for Ball Screws  
 Detect and diagnose ball screw wear and deterioration due to poor lubrication and the entry of foreign matter.
- ACOUS NAVI for Linear Guides  
 Detect and diagnose flaking, scratches, and poor lubrication in linear guides.

# FIELD system

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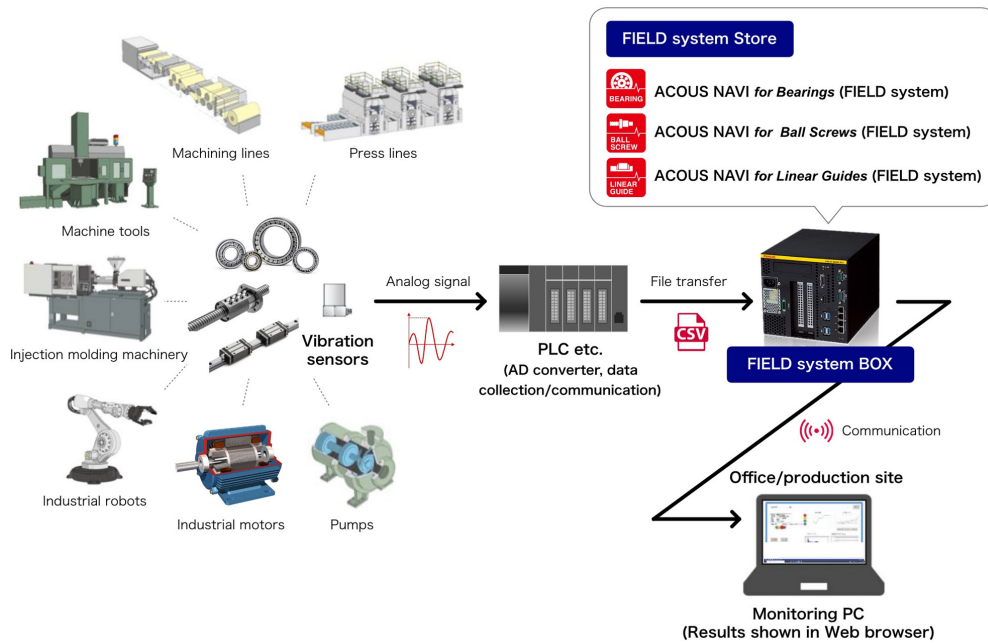
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### APP PREVIEW

### Diagnostic System Structure



### Example: ACOUS NAVI for Bearings (FIELD system)

Part No.	Equipment	Bearing Designation	Start Diagnostics	Show Graph	Latest Diagnostic Results
1	Manufacturing Machinery 1	7000A			
2	Manufacturing Machinery 2	7000A			
3	Manufacturing Machinery 3	7000A			
4	Auxiliary Equipment 1	7000A			
5	Auxiliary Equipment 2	7000A			
6	Auxiliary Equipment 3	7000A			

\* Image for illustration purposes only. Actual may vary.

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