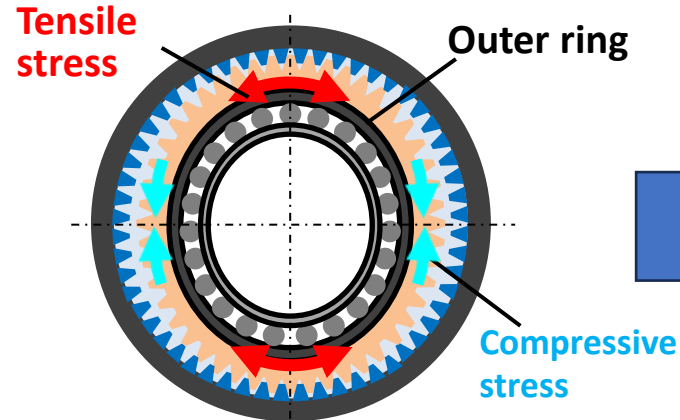


## Reliability Improvement for reduction gear

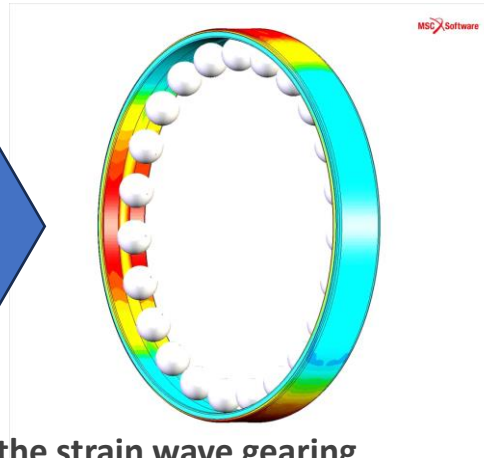
Mass  
production



Bearing behavior in  
reduction gears



Example of  
dynamic analysis



Deformation of bearing outer ring in the strain wave gearing

→ Repeated bending stress occur

### Features

- ✓ High Reliability under stress amplitude
- ✓ Suitable Lineup settings for various strain wave gearing

### Why NSK ?

- ✓ NSK's Materials, Heat treatment and Production technologies provide High Reliability against repeated deformation
- ✓ Thin cross section and Strength are achieved by Analysis Technology

High Performance Bearings for Robots  
- NSK Thin-Section Ball Bearings Lineup -

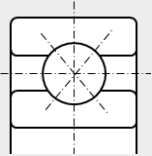


Robot Downsizing and Weight Reduction

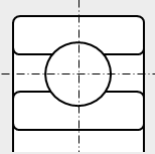
Mass  
production



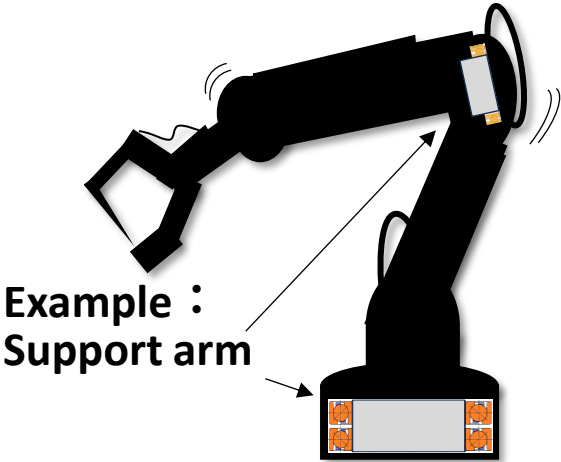
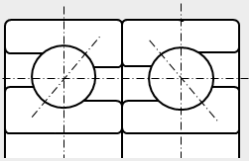
Thin-Section Four-Point  
Contact Ball Bearings



Thin-Section  
Deep Groove Ball Bearings  
67xx series



Thin-Section Angular Contact  
Ball Bearing



Features

Features	For Robots General Bearings	Thin-Section Four-Point Contact Ball Bearings	Thin-Section Deep Groove Ball Bearings	Thin-Section Angular Contact Ball Bearing
Space	○	◎	◎	○
Torque	△	○	◎	○
Rigidity	◎	○	△	◎ +

Why NSK ?

✓ NSK’s Materials, Heat treatment and Production technologies provide High Accuracy thin-section bearing lineup