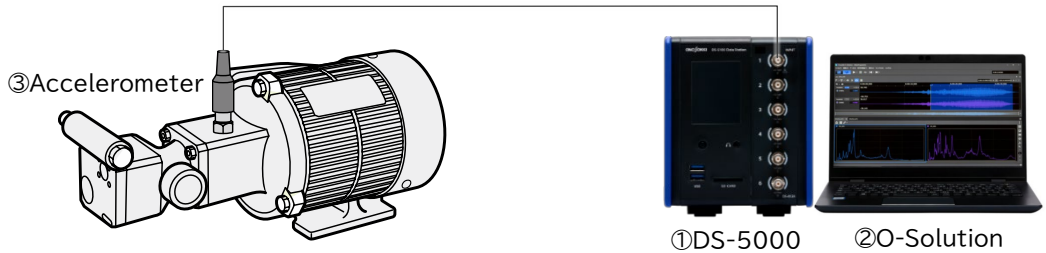# Analyzing abnormal vibrations from a motor pump
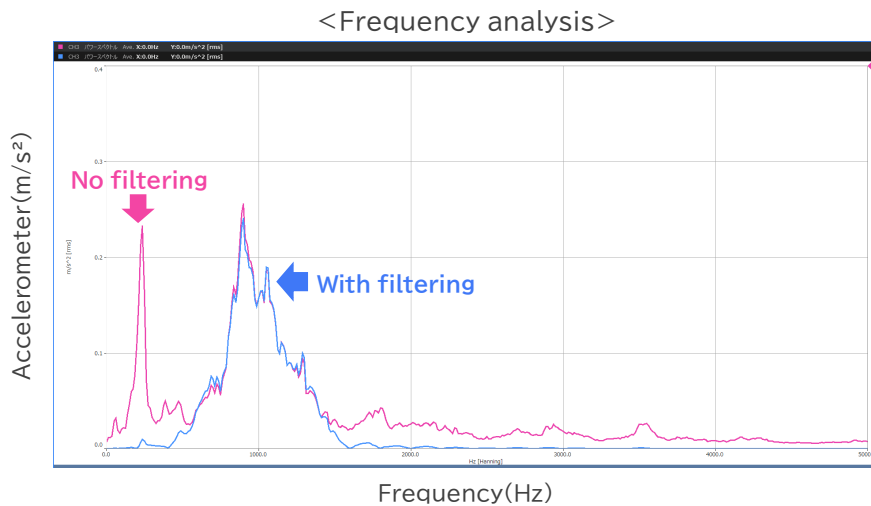
～Overview～

Abnormal vibration was detected during the inspection. Identify the cause from the frequency of abnormal vibration. Perform recording and analyzing vibration data at the site. Then identify the frequency of the abnormal vibration with filtering.

～Measurement～

③Accelerometer

①DS-5000   ②O-Solution

～Analysis～

<Frequency analysis>

No filtering

With filtering

Accelerometer(m/s²)

Frequency(Hz)

～Results～

• You can identify the frequency of abnormal noise of the measured vibration data by using filter and listening its sound.
• The difference was found when compared with the waveform of a normal bearing. Thus, you know the cause of the abnormal noise was the bearing.

～ System configuration ～

	Model	Product name
①	DS-5100	Main unit
①	DS-0526	6ch 40kHz Input unit
②	OS-5100	Platform
②	OS-0522	FFT Analysis Function
②	OS-0512	Hardware Connection Function

	Model	Product name
②	OS-0521	Digital Filter Function
③	NP-3331B	Accelerometer with built-in preamplifier

＊The above is provided as "6 ch FFT set".