

Remote and install-anywhere device which monitors motor health



Opportunity

Nidec supplies motors all over the world, for both industrial and personal use. Many of their industrial motors are in remote areas, and their earlier method for checking the health of these motors was to send technicians on-site to make an assessment based on vibration data.

Seeking a more cost-effective, reliable system, Nidec worked with Tech Mahindra to develop a platform for remote monitoring – with a goal to reduce downtime.



Imagining IT Differently

Tech Mahindra teamed up with the Nidec Motor Corporation to create a remote system allowing technicians to monitor the performance of its motors so that any wear and tear could be fixed before the machines broke.

The platform would give real-time feedback on the motors through internet-connected sensors measuring things like vibration, temperature, voltage, load and more. And because the device needed to work in multiple different environments, it was designed to be rugged, low-power and easy-to-install.



Future Made Possible

With predictive tools, a customizable dashboard, and in-depth reports, the solution leads to timely insights into the motor's performance that in turn helps to reduce the downtime that comes with replacing a malfunctioning part.

This is a standout example of Industry 4.0 principles and IoT as a driver of digital transformation in Manufacturing.

