Low-cost Bolt Loosening Inspection Technology

Shibaura Institute of Technology teamed with PhD researchers from University of Edinburgh and successfully developed a way to evaluate bolt loosening at low cost. They utilized ultrasonic vibrations inaudible to human ears to measure the frequency and axial force at the tip of a bolt through which they can inspect bolt loosening. This process doesn't rely on inspectors' skillfulness and is therefore simple, convenient and low-cost. This technology can be introduced into machines for thread loosening inspection.

Spray-type Rust Remover Applicable to Threads

Japanese Engineer Inc. has added ZC-28 Spray type Rust Remover, suitable for wide spraying, to the "NejiSaurus" kit series. Features:
1. Instantaneous reaction to rust. Rust removal of small parts completed within 3 seconds.
2. Neutral liquid for safety.
3. The liquid can seep into the tiny gap between the bearing surface and threads when sprayed at screws installed on components.
4. Applicable to automobiles, agricultural machines, pipes and so on.

Image from Shibaura Institute of Technology press release