

### **Case Study 7 (Machine Condition Monitoring with ODISY™):**

Machine Condition Monitoring with ODISY™ is an intelligent, value-added systems solution that aims to ensure the effective operations of key plant assets of our customers. ODISY is capable of performing complex vibration data analyses, allowing for the accurate detection of bearing failure, roller unbalance, gear run-out, gear tooth damage and other unhealthy machine conditions.

ODISY utilizes the advanced data acquisition capability of our leading-edge accelerometer systems, MechSense™, to record vibration signatures of machine parts such as bearings or rollers, and identifies failure mechanisms through deviations in the signatures caused by abnormal vibrations.

Whether the plant asset is a printing press, a steel roller, a industrial fan, or an assembly line, our different applications of ODISY software algorithms are highly reconfigurable and easily tailored to suit the specific needs of our customers.

ODISY is compatible with other conventional vibration sensors our customers are currently using. ODISY's sensor adaptability introduces extra flexibility to the machine maintenance programs of our customers.

### **A Proactive Approach to Plant Asset Management**

ODISY facilitates quality control by performing predictive maintenance to ensure machine reliability. By adopting ODISY into machine maintenance programs, machine down time is significantly reduced and our customers experience significant reduction of man-hours spent on data collection and analysis.

### **Applications:**

- Industrial fans, blowers, pumps
- Turbines
- Machine tool
- Gearboxes
- Printing presses
- Cold steel rollers
- Pulp & paper mills