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**Condition monitoring and diagnostics of machines - Vibration  
condition monitoring - Part 1: General procedures**

机器状态监测与诊断 振动状态监测 第1部分：总则

**(English Translation)**

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## Foreword

GB/T 19873 consists of the following 2 parts, under the general title "Condition monitoring and diagnostics of machines - Vibration condition monitoring":

- Part 1: General procedures;
- Part 2: Data processing, analysis, diagnostics, display and general vibration.

This Part is Part 1 of GB/T 19873 "Condition monitoring and diagnostics of machines - Vibration condition monitoring".

This Part identically adopts the International Standard ISO 13373-1:2002 "Condition monitoring and diagnostics of machines - Vibration condition monitoring - Part 1: General procedures" (English version).

## 1 Scope

This Part provides general guidelines for the measurement and data collection functions of machinery vibration for condition monitoring. It is intended to promote consistency of measurement procedures and practices, which usually concentrate on rotating machines.

Because of the diversity of approaches to condition monitoring, recommendations specific to a particular kind of monitoring programme will be addressed in additional Part.

This Part is a basic document which presents recommendations of a general nature, encompassing

- measurement methods,
- measurement parameters,
- transducer selection,
- transducer location,
- transducer attachment,
- data collection,
- machine operating conditions,
- vibration monitoring systems,
- signal conditioning systems,
- interfaces with data-processing systems,
- continuous monitoring, and
- periodic monitoring.