
**Mechanical vibration — Evaluation of
machine vibration by measurements
on rotating shafts —**

**Part 3:
Coupled industrial machines**

AMENDMENT 1

*Vibrations mécaniques — Évaluation des vibrations des machines par
mesurages sur les arbres tournants —*

Partie 3: Machines industrielles couplées

AMENDEMENT 1

ISO 7919-3:2009/Amd 1:2017

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 2, *Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures*.

A list of all parts in the ISO 7919 series can be found on the ISO website.

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Mechanical vibration — Evaluation of machine vibration by measurements on rotating shafts —

Part 3: Coupled industrial machines

AMENDMENT 1

Foreword

Replace the complete text of the Foreword by the following:

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This second edition cancels and replaces the first edition (ISO 7919-3:1996), of which it constitutes a minor revision.

A list of all parts in the ISO 7919 series can be found on the ISO website.

Introduction, second paragraph

Replace the reference to "ISO 7919-1" with "ISO 20816-1".

Clause 1, second paragraph

Replace the paragraph with the following:

This part of ISO 7919 applies to coupled industrial machines with fluid-film bearings, having maximum continuous rated speeds in the range 1 000 r/min to 30 000 r/min and not being limited by size and power (with certain restrictions), comprising

- steam turbines and generators with outputs less than or equal to 40 MW;
- steam turbines and generators with outputs greater than 40 MW and speeds other than 1 500 r/min, 1 800 r/min, 3 000 r/min or 3 600 r/min (although generators seldom fall into this category);
- rotary compressors;
- industrial gas turbines with outputs less than or equal to 3 MW;
- turbofans;
- electric drives and associated gears, where relevant;
- rotodynamic pumps (turbo pumps).

The information relating to pumps provided in this part of ISO 7919 complements that given in ISO 10816-7. In particular, the conditions for *in-situ* operation, performing acceptance tests and the influence of bearing clearance given in ISO 10816-7 shall be taken into account when evaluating the shaft vibration of pumps.

Third paragraph

Replace the paragraph with the following:

The following are excluded from this part of ISO 7919:

- steam turbines and/or generators with outputs greater than 40 MW and speeds of 1 500 r/min, 1 800 r/min, 3 000 r/min or 3 600 r/min (see ISO 20816-2);
- gas turbine sets with outputs greater than 3 MW (see ISO 7919-4 and ISO 20816-2);
- machine sets in hydraulic power generating and pump-storage plants (see ISO 20816-5);
- rotodynamic pumps including integrated electric motors, i.e. where the impeller is mounted directly on the motor shaft or is rigidly attached to it (see ISO 10816-7);
- submerged motor-pumps;
- reciprocating pumps;
- rotary positive displacement compressors (e.g. screw compressors);
- reciprocating compressors;
- wind turbines.