

DIN ISO 10816-6



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Supersedes  
DIN ISO 10816-6:1997-08

**Mechanical vibration –  
Evaluation of machine vibration by measurements on non-rotating  
parts –  
Part 6: Reciprocating machines with power ratings above 100 kW  
(ISO 10816-6:1995 + Amd.1:2015),  
English translation of DIN ISO 10816-6:2015-07**

Mechanische Schwingungen –  
Bewertung der Schwingungen von Maschinen durch Messungen an nicht-rotierenden  
Teilen –  
Teil 6: Hubkolbenmaschinen mit einer Leistung über 100 kW (ISO 10816-6:1995 +  
Amd.1:2015),  
Englische Übersetzung von DIN ISO 10816-6:2015-07

Vibrations mécaniques –  
Évaluation des vibrations des machines par mesurages sur les parties non tournantes –  
Partie 6: Machines alternatives de puissance nominale supérieure à 100 kW  
(ISO 10816-6:1995 + Amd.1:2015),  
Traduction anglaise de DIN ISO 10816-6:2015-07

Document comprises 16 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



*A comma is used as the decimal marker.*

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## National foreword

This document (ISO 10816-6:1995 + Amendment 1:2015) has been 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”, (Secretariat: DIN, Germany). The responsible German body involved in its preparation was the *Normenausschuss Akustik, Lärminderung und Schwingungstechnik im DIN und VDI* (Acoustics, Noise Control and Vibration Engineering Standards Committee in DIN and VDI), Working Committee NA 001-03-06-02 UA (NALS/VDI C 6.2) *Messung und Beurteilung von Maschinenschwingungen*.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. DIN shall not be held responsible for identifying any or all such patent rights.

This standard includes Amendment 1:2015 published by ISO on 01 April 2015. The start and finish of text introduced or altered by amendment is indicated in the text by tags  $\boxed{A_1}$  and  $\boxed{A_1}$ .

The draft of this standard was published as E DIN ISO 10816-6/A1:2014-09.

VDI Guideline VDI 3838 provides additional information on the measurement of mechanical vibration of reciprocating piston engines with power ratings above 100 kW which supplements DIN ISO 10816-6.

The DIN Standards corresponding to the International Standards referred to in this document are as follows:

ISO 2954	DIN ISO 2954
ISO 5348	DIN ISO 5348
ISO 8528-9	DIN ISO 8528-9
standards series ISO 10816	standards series DIN ISO 10816

The German Standards are given in National Annex NA “Bibliography”.

ISO 10816 consists of the following parts, under the general title *Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts*:

- $\boxed{A_1}$  — *Part 1: General guidelines*
- *Part 2: Land-based steam turbines and generators in excess of 50 MW with normal operating speeds of 1 500 r/min, 1 800 r/min, 3 000 r/min and 3 600 r/min*
- *Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15 000 r/min when measured in situ*
- *Part 4: Gas turbine sets with fluid-film bearings*
- *Part 5: Machine sets in hydraulic power generating and pumping plants*
- *Part 6: Reciprocating machines with power ratings above 100 kW*
- *Part 7: Rotodynamic pumps for industrial applications, including measurements on rotating shafts*
- *Part 8: Reciprocating compressor systems*
- *Part 21: Horizontal axis wind turbines with gearbox  $\boxed{A_1}$*