
**Non-destructive testing — Equipment for
eddy current examination —**

Part 3:

System characteristics and verification

*Essais non destructifs — Appareillage pour examen par courants de
Foucault —*

Partie 3: Caractéristiques du système et vérifications



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 15548-3 was prepared by European Committee for Standardization (CEN) Technical Committee CEN/TC 138, *Non-destructive testing*, in collaboration with ISO Technical Committee TC 135, *Non-destructive testing*, Subcommittee SC 4, *Eddy current methods*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 15548 consists of the following parts, under the general title *Non-destructive testing — Equipment for eddy current examination*:

- Part 1: Instrument characteristics and verification
- Part 2: Probe characteristics and verification
- Part 3: System characteristics and verification

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Non-destructive testing — Equipment for eddy current examination —

Part 3:

System characteristics and verification

1 Scope

This part of ISO 15548 identifies the functional characteristics of a general-purpose eddy current system and provides methods for their measurement and verification.

The evaluation of these characteristics permits a well-defined description and comparability of an eddy current equipment.

By careful choice of the characteristics, a consistent and effective eddy current examination system can be designed for a specific application.

Where accessories are used, these are characterised using the principles of this part of ISO 15548.

This part of ISO 15548 does not give the extent of verification nor acceptance criteria for the characteristics. These are given in the application documents.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 12718, *Non-destructive testing — Eddy current testing — Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12718 apply.

4 System characteristics

4.1 General characteristics

The system is designed to examine a defined product or perform a defined measurement; the eddy current techniques implemented shall be specified. A system comprises the instrument, interconnecting elements (e.g. cable and slip rings), probe arrangement, mechanical arrangement, accessories and reference pieces.