



ISO 16828

**Non-destructive testing —
Ultrasonic testing — Time-of-flight
diffraction technique for detection
and sizing of discontinuities**

*Essais non destructifs — Contrôle par ultrasons — Technique
de diffraction du temps de vol pour la détection et le
dimensionnement des discontinuités*

**Second edition
2025-07**

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This second edition cancels and replaces the first edition (ISO 16828:2012), which has been technically revised.

The main changes are as follows:

- title revised by removing “as a method”;
- clarifications of abbreviations and symbols;
- figures have been updated;
- formulae have been corrected;
- term “dead zone” replaced by “obscured zone”.

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The following standards on ultrasonic testing developed by ISO/TC 135 are related.

ISO 16810, *Non-destructive testing — Ultrasonic testing — General principles*

ISO 16811, *Non-destructive testing — Ultrasonic testing — Sensitivity and range setting*

ISO 16823, *Non-destructive testing — Ultrasonic testing — Through-transmission technique*

ISO 16826, *Non-destructive testing — Ultrasonic testing — Testing for discontinuities perpendicular to the surface*

ISO 16827, *Non-destructive testing — Ultrasonic testing — Characterization and sizing of discontinuities*