Measurement of the spatial resolution according to ISO 15708-1





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Agenda



1	The ISO 15708 standard
2	Spatial resolution as an image quality characteristic
3	Measurement of the spatial resolution

Agenda



1 The ISO 15708 standard

- 2 Spatial resolution as an image quality characteristic
- 3 Measurement of the spatial resolution

The ISO 15708 standard in NDT

INTERNATIONAL ISO	INTERNATIONAL ISO
STANDARD 15708-1	STANDARD 15708-2
First edition	First edition
2002-06-01	2002-07-01
Non-destructive testing — Radiation	Non-destructive testing — Radiation
methods — Computed tomography —	methods — Computed tomography —
Part 1:	Part 2:
Principles	Examination practices
Essals non destructifs — Moyens utilisant les rayonnements —	Essais non destructifs — Moyens utilisant les rayonnements —
Tomographie Informatisée —	Tomographie Informatisée —
Partie 1: Principes	Partie 2: Pratiques d'examen
Reference number	Reference number
ISO 15708-12002(E)	ISO 15708-2:2002(E)
© ISO 2002	© ISO 2002
Principles	Examination practices

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Scope of part 1:

Part 1 is intended to satisfy two general needs for users of industrial CT equipment:

- a) the need for a tutorial document addressing the general principles of X-ray CT as they apply to industrial imaging;
- b) the need for a consistent set of CT **performance parameter definitions**, including how these performance parameters relate to CT system specifications.

Scope of part 2:

Part 2 gives guidelines for procedures for performing CT examinations.



1 The ISO 15708 standard

- 2 Spatial resolution as an image quality characteristic
- 3 Measurement of the spatial resolution

Spatial resolution as a metric of image sharpness







1 The ISO 15708 standard

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Spatial resolution measurement according to ISO 15708-1 – Measurement of edge blurring



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Spatial resolution specifications for METROTOM





Spatial resolution specifications for METROTOM



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Spatial resolution for Inline CT system Scanning & evaluation < 1 Minute







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