

1.4.26. DIGITAL X-RAY SOLUTIONS FOR STATE-OF-THE ART RADIOSCOPIC STEEL PIPE INSPECTION ACCORDING TO ISO 10893–07

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With the ISO 10893–07 shall arise a new standard for the radioscopic steel weld inspection.

Within this paper we discuss common, state of the art inspection solutions in regards to this standard for weld inspection.

We compare multiple industrial X-ray detectors in regards to different performance factors and outline critical system parameter for the successful choice of X-ray image chain- and system components for the entire inspection solution.

We show that the right choice of todays digital X-ray detectors not only help meeting stringent standards but exceed the requirements e.g. in terms of possible depth penetration and resolution performance and help preparing for the future.