

# PSMN RECOMMENDS HD-CR 35 NDT FOR RESEARCH APPLICATIONS

*The Center for Nuclear Standardization and Quality (also known as PSMN), located in Serpong, Indonesia is a part of National Nuclear Energy Agency of Indonesia (BATAN) and is responsible for creating and implementing standards as well as assessing conformity through certification activities for the nuclear science and technology industry in Indonesia.*



PSMN has been a user of the DÜRR NDT HD-CR 35 NDT computed radiography scanner since 2018 and uses it with X-ray radiation sources in combination with high-sensitivity white imaging plates to support their various research activities. The scanner sees frequent use in the PSMN laboratory, typically acquiring at least 20 images per week. Applications include the determination of homogeneity within composite materials and attenuation coefficient measurement of various materials such as rubber and rare earth elements.

Around 8 operators within PSMN are fully trained to use the HD-CR 35 scanner and D-Tect inspection software. On their overall experience with the system, Research Manager Mr Baskan Hanurajie (M.Eng.) commented that "the device is easy-to-learn, has intuitive software, and produces high-quality images. The image quality is much better than conventional radiography and is very cost-effective as the image plate can be used many times without requiring a darkroom". On the topic



of the D-Tect software workflow, he continued: "the workflow is very efficient as we can process more than 10 images at once and thus save significant processing time."

PSMN sees a typical imaging plate lifetime of 1000 scans per plate and employs imaging plate protectors, single-use protection sleeves, regular cleaning as well as user training on best handling practises to achieve this.

On what PSMN likes most about the DÜRR NDT system, Mr Baskan continued: "By using computed radiography, our work becomes easier and faster. The resulting image is so good that we can easily detect defects in the specimen. In addition, the image plate can be used many times and so it is very practical – we definitely recommend the HD-CR 35 NDT for research study applications."



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