

## Digital Radiography

### Evaluation, transfer and archiving of conventional X-ray films

Reduced costs of storage, improved evaluation of defects and long term interpretability through digitization of radiographic films.

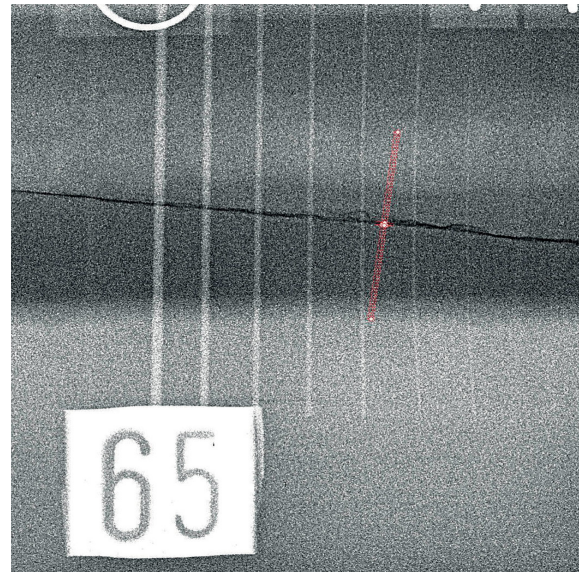
### Challenge

Radiographic Testing (RT) by film is one of the standard techniques of Non Destructive Examination (NDE) and is widely used for the Inspection of welds. After the evaluation of the X-ray films, they have to be stored in extensive archives under special conditions for documentation purposes. Due to changes of temperature and humidity, X-ray films can become unusable for the comparison with future Indications.

Especially during visual examination of similar indications, e.g. cracks, notches or undercuts false results can be obtained due to the lack of additional auxiliary tools. An expensive repair of the weld may become necessary.

### Solution

Framatome offers a mobile and fast system to digitize conventional X-ray films without any loss of information into different digital data formats. Digital X-Ray pictures can further be analyzed, optimized and cheap and easily be stored on digital storage media.



Optimized X-Ray picture with crack indication

### Customer benefits

- Cheap, fast and future-proof form of archiving X-ray films
- No aging and easy comparison with future RT results, especially by difficult indications (No extra justification necessary)
- Improved evaluation possibilities of indications
- Easy transfer to experts for second opinion
- Quick access to archive due to digital storage

### Key figures

- All kind of RT films can be digitized
- Maximum film width 355 mm (14 inch)
- Conversion in a standard DICOM and TIFF format with fast possibility of exchange with authority and other stakeholders
- Digitization without loss of information and greyscale value

Contact: [examination@framatome.com](mailto:examination@framatome.com)  
[www.framatome.com](http://www.framatome.com)

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