

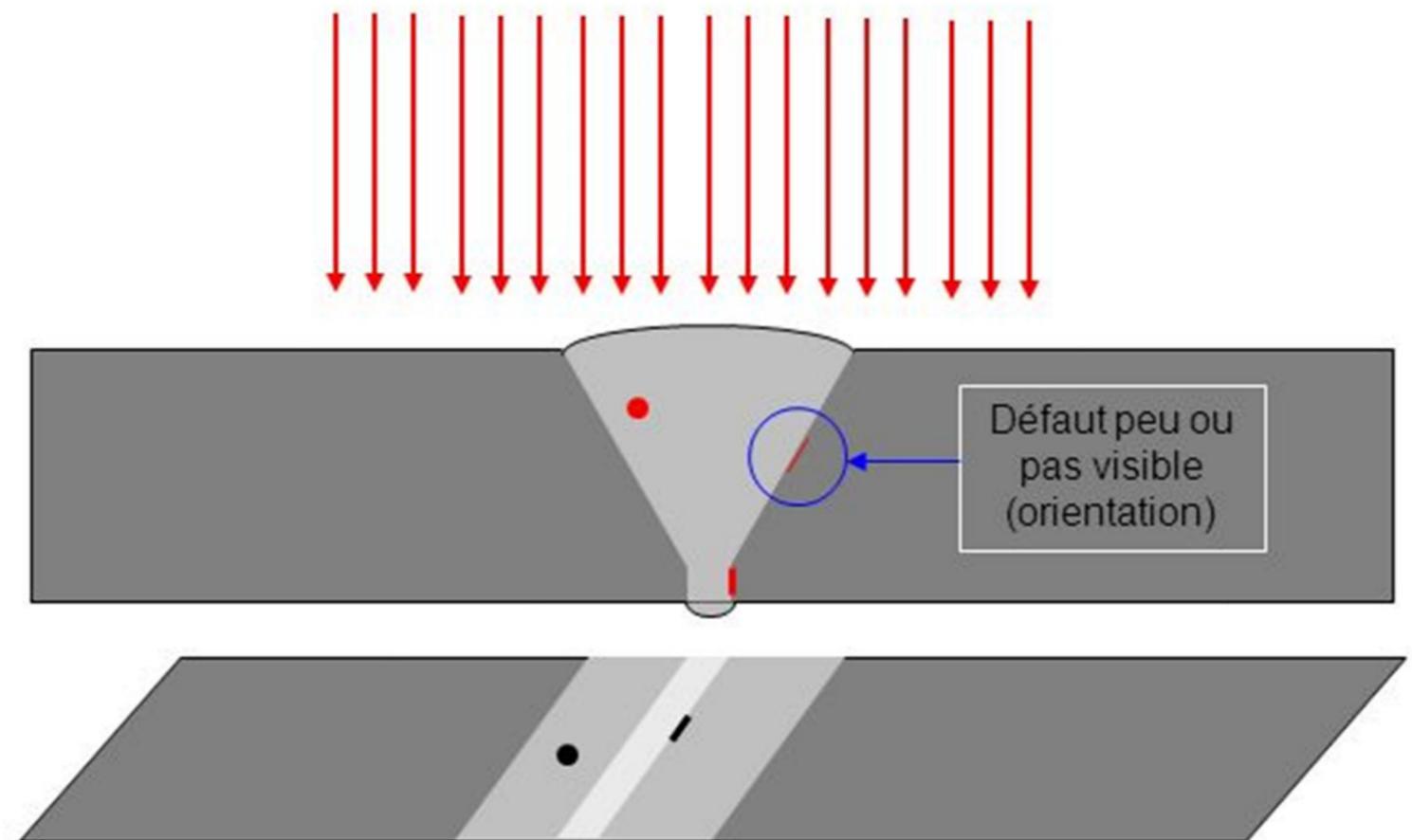
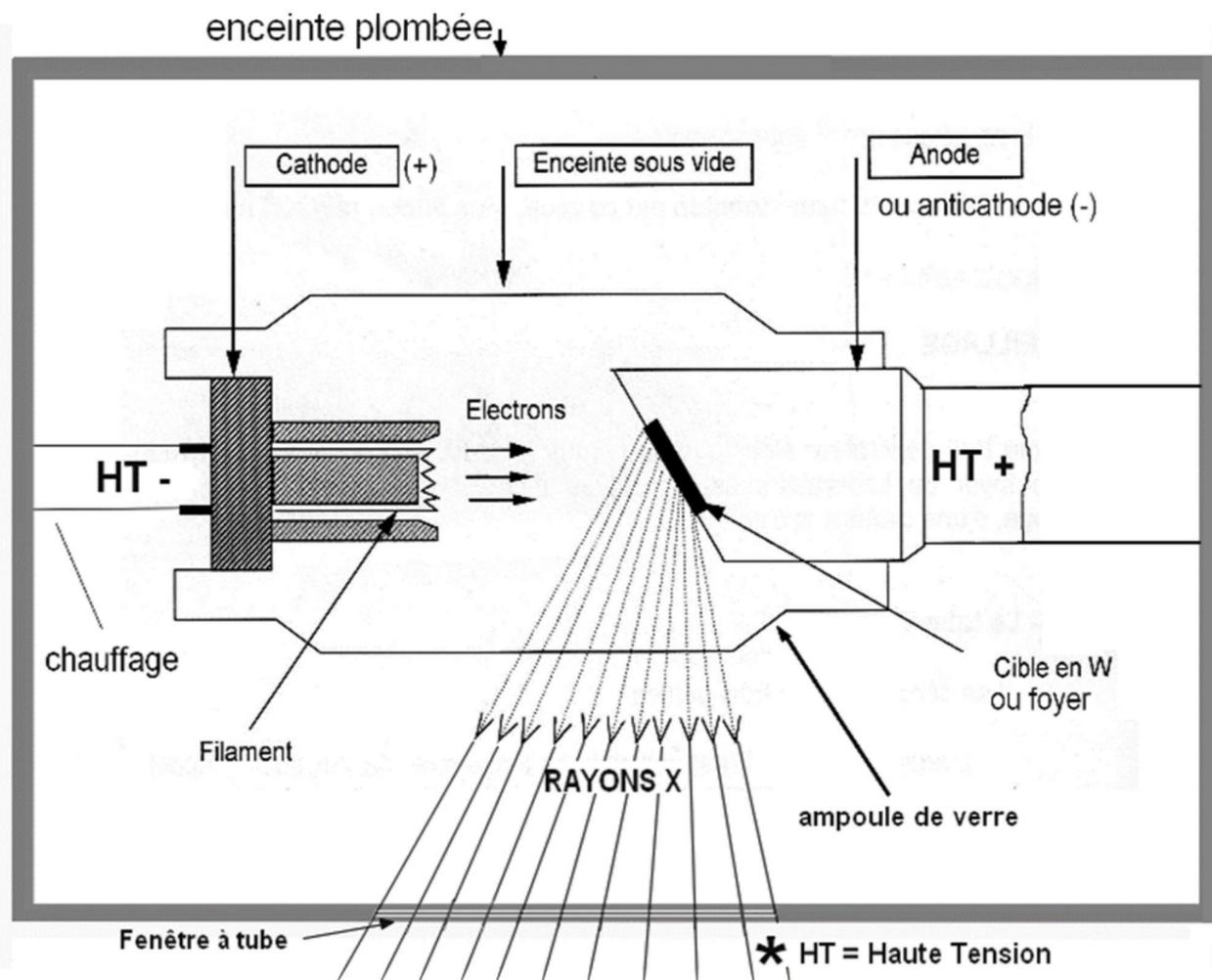


**Inspection par Radiographie**  
**Radiographic Inspection**

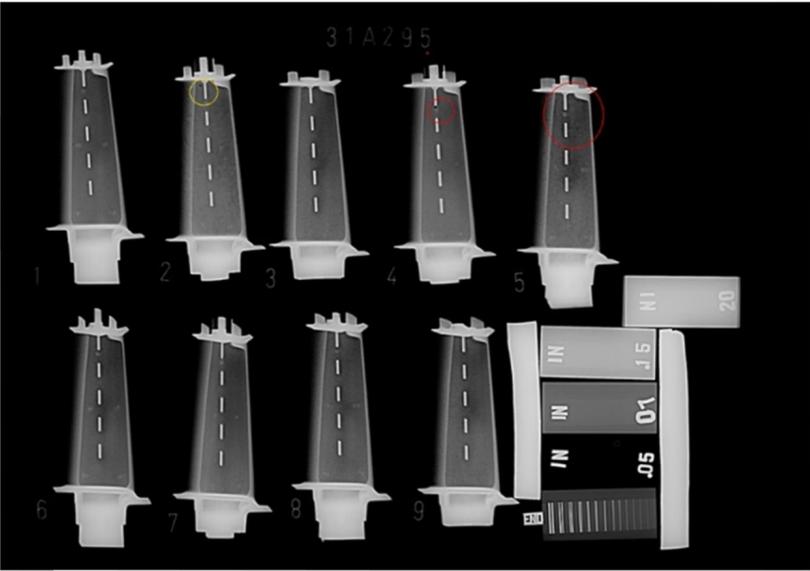


# Principe

Principe : La radiographie consiste à utiliser un tube radiogène qui émet un rayonnement RX qui va traverser l'objet à inspecter. L'image est captée par un détecteur digital (anciennement par film argentique) pour être envoyée en quelques secondes vers un écran d'interprétation qui permet une interprétation en chambre noire par un radiologue certifié niveau 2 Radiographic Testing suivant les normes. La technique de tir RX doit être validée par un niveau 3 RT.



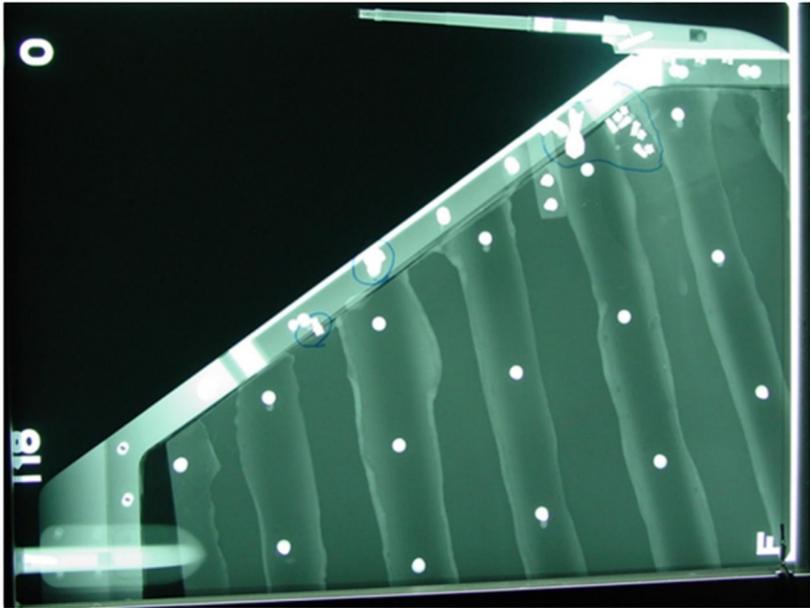
Inclusion en fonderie



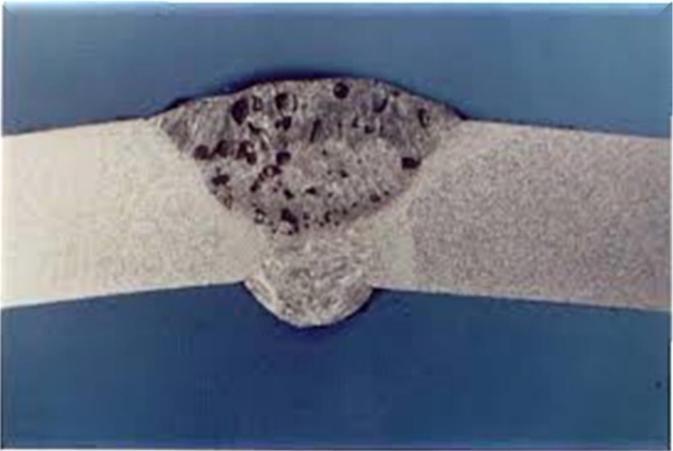
Délaminage – rib composite



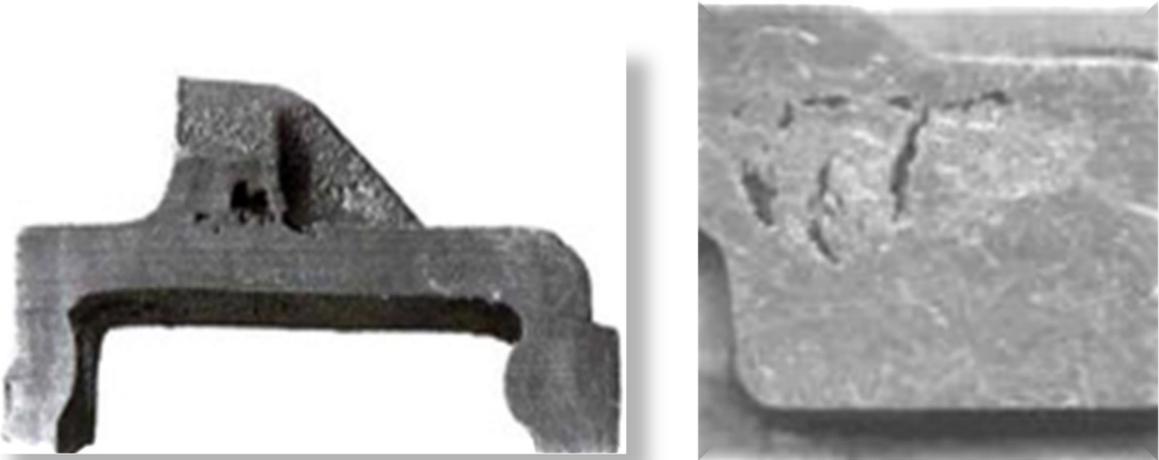
Corps étranger - composite



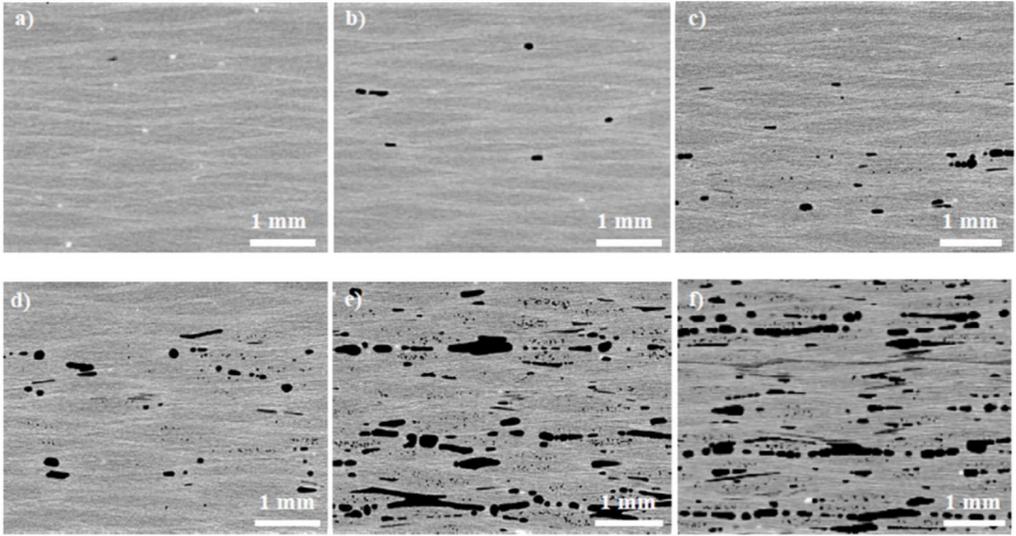
Soufflure en soudure



Retassure



Détermination du % Porosité





NDT Services & Polishing

Vue B2

Selon EN 12517-2 Acceptance level 2

Inclusions plus dense (3,1 mm max) :

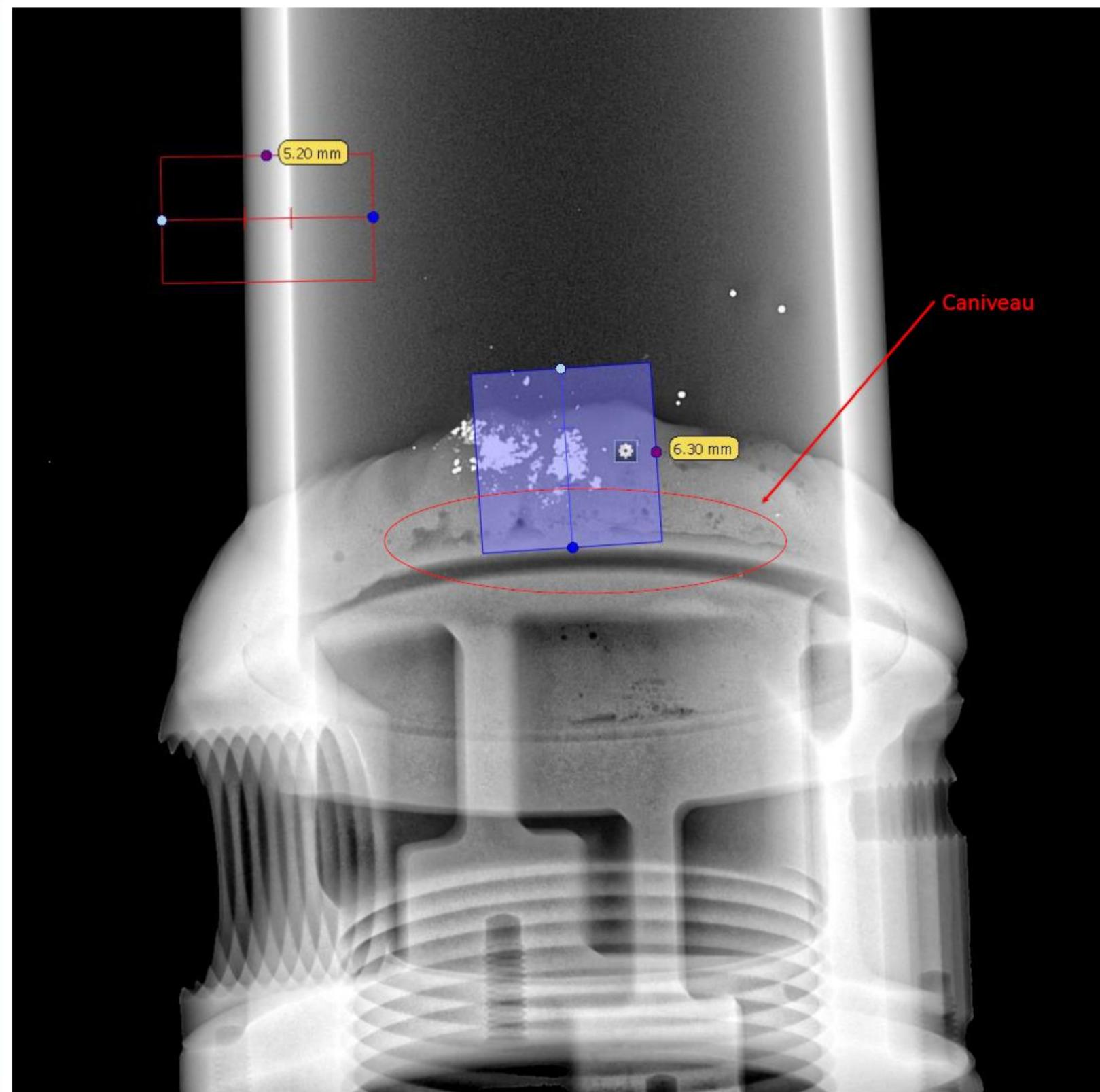
**6,30 mm**

Porosité (3,3 mm max) : **1,40 mm**

Porosité en amas (4 % max ) : **2%**

Caniveau (1 mm Max) : **40 mm**

**NON CONFORME**

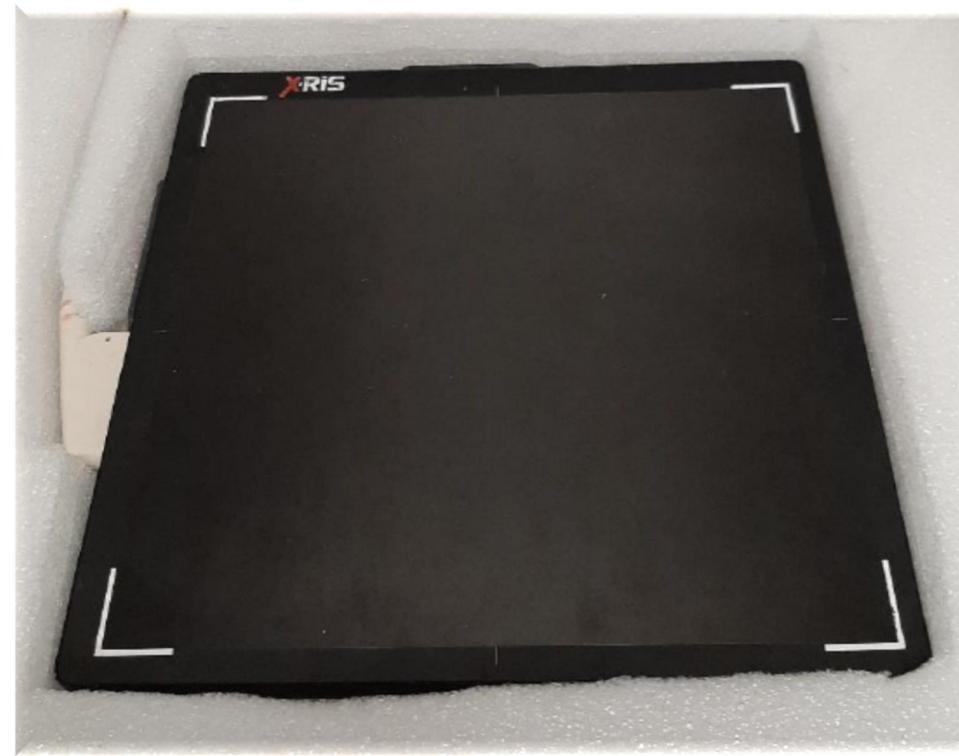


## Radiographie – technique digitale **portable** hors MPP

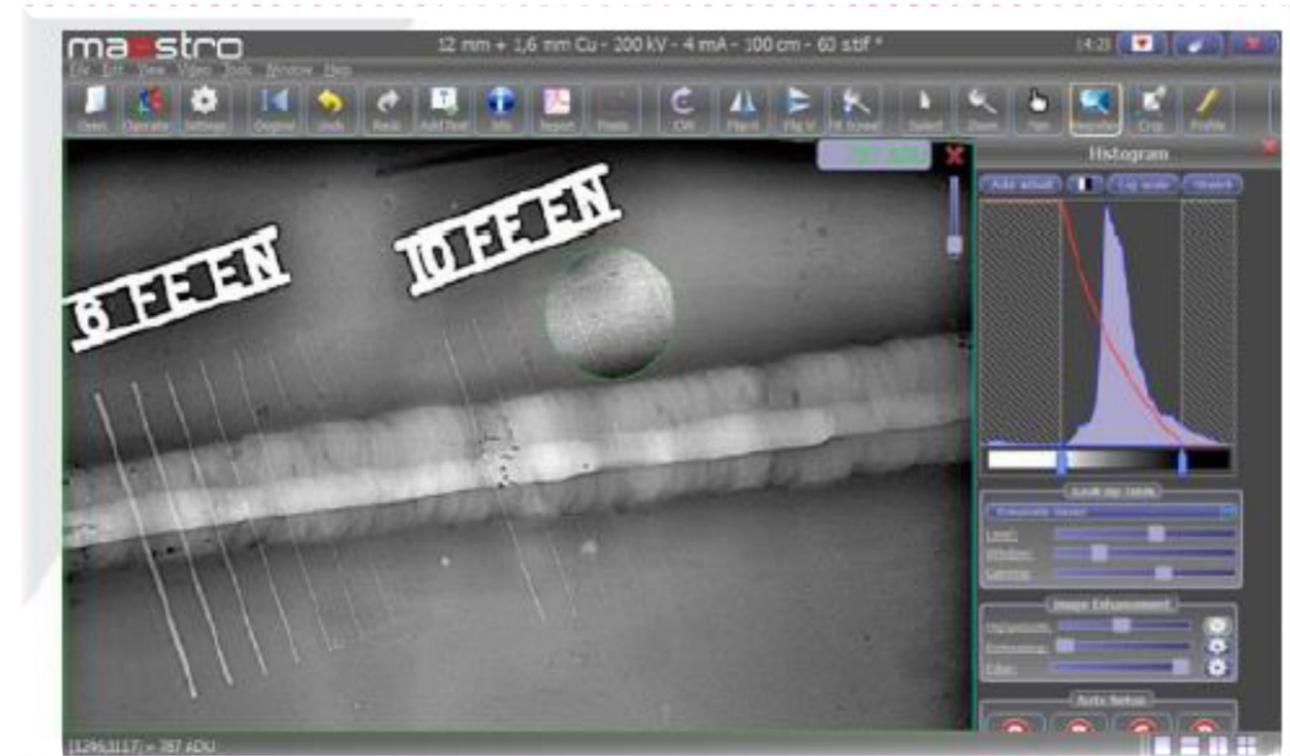
Tube portable sans fil



Détecteur haute résolution sans fil

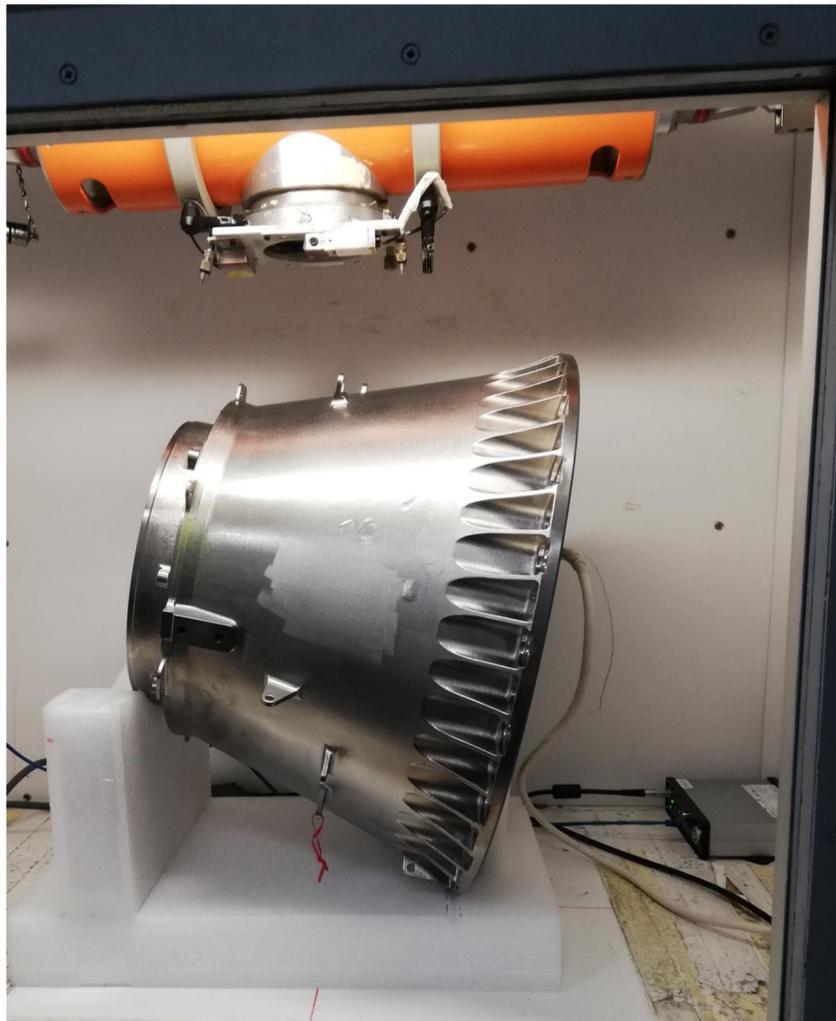


Logiciel Maestro Xris sur PC portable

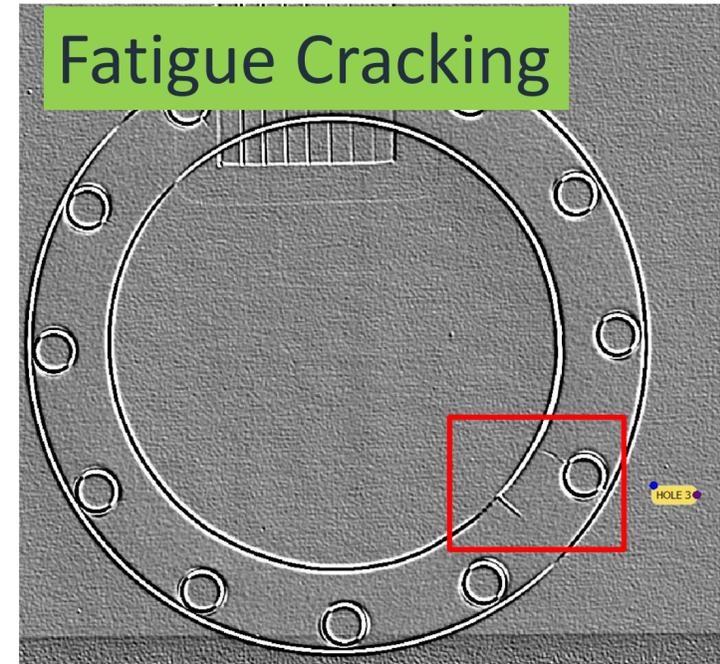
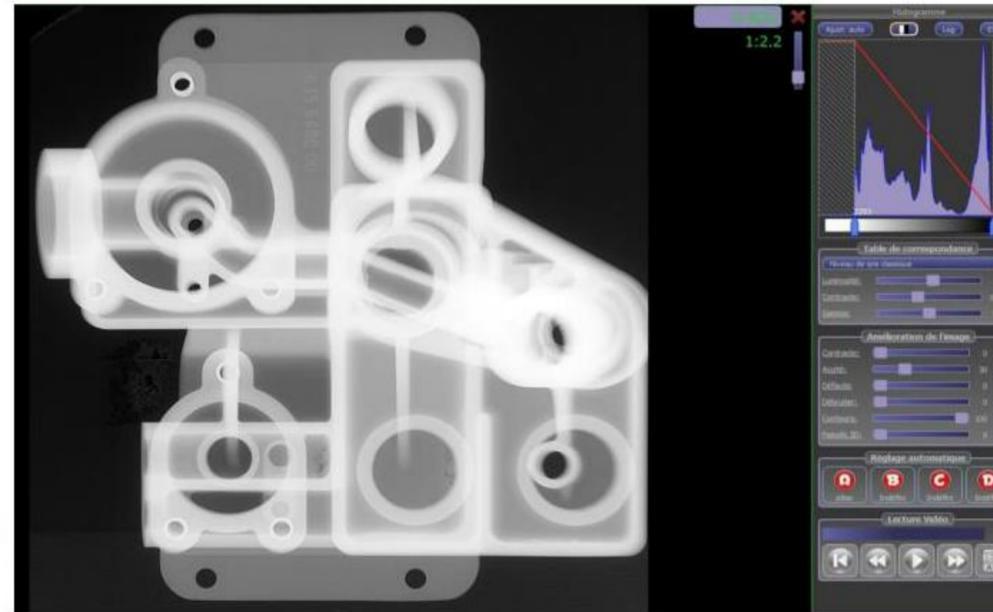


# Inspection

## Radiographie digital – Flat Panel Xris chez MPP



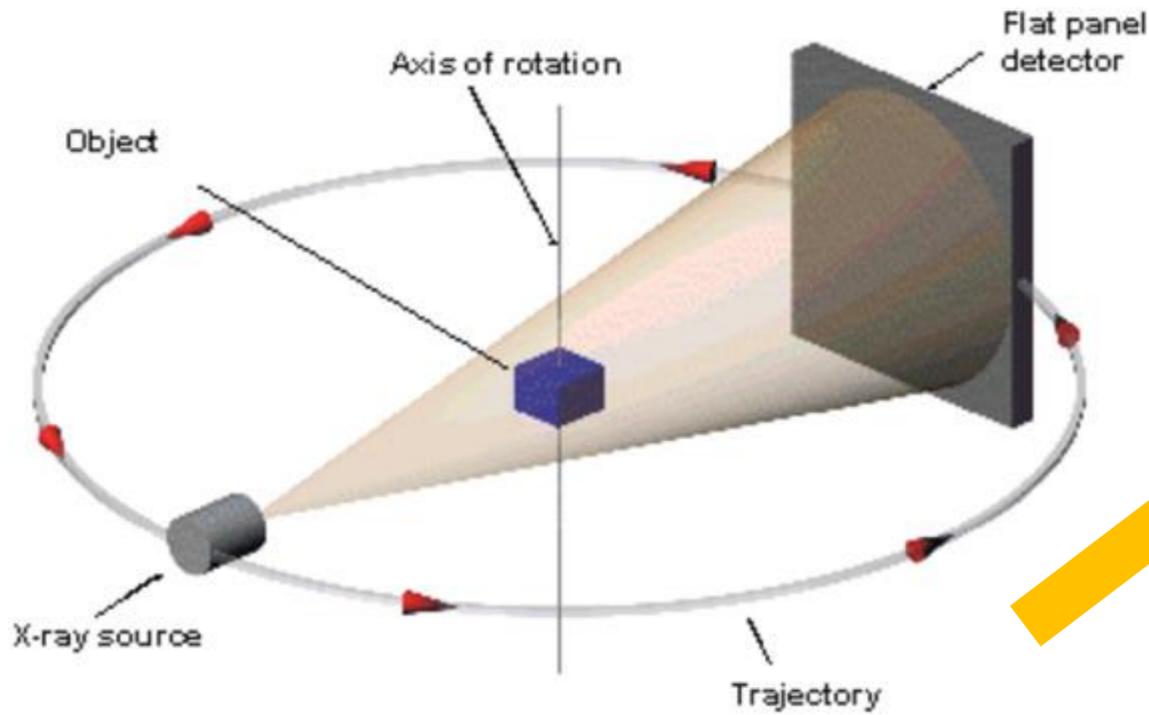
Grand Flat Panel  
400x 400 mm



Tube 320kV - détecteur dans la pièce

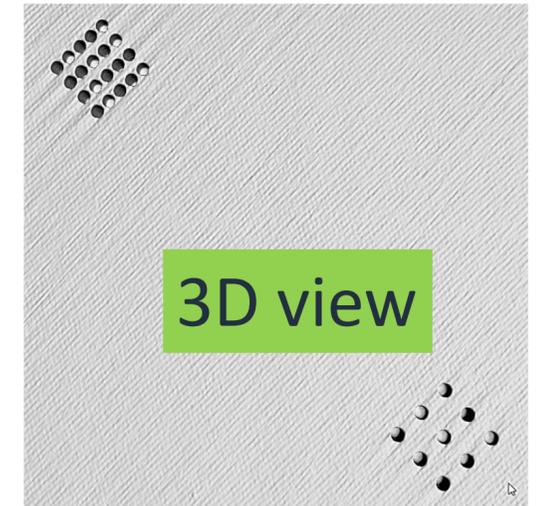
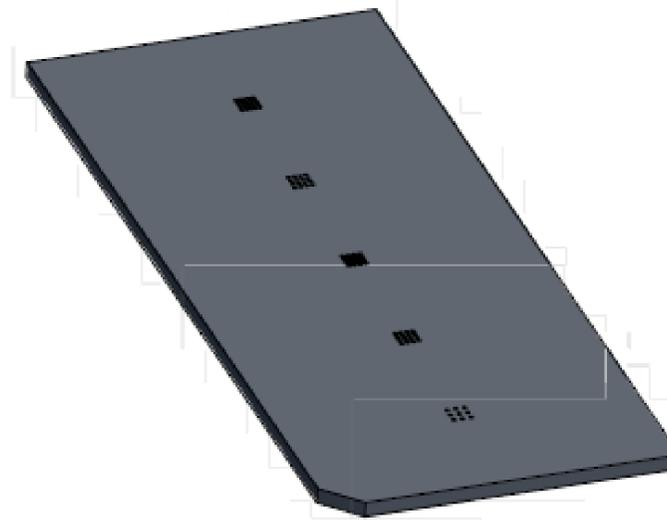
Grand banc horizontal Srem avec mémorisation des paramètres des techniques magnétoscopiques validées

# Tomographie

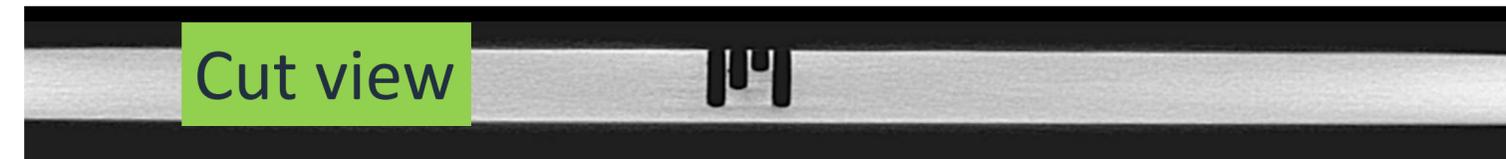


Application sur composite Porosity Detection

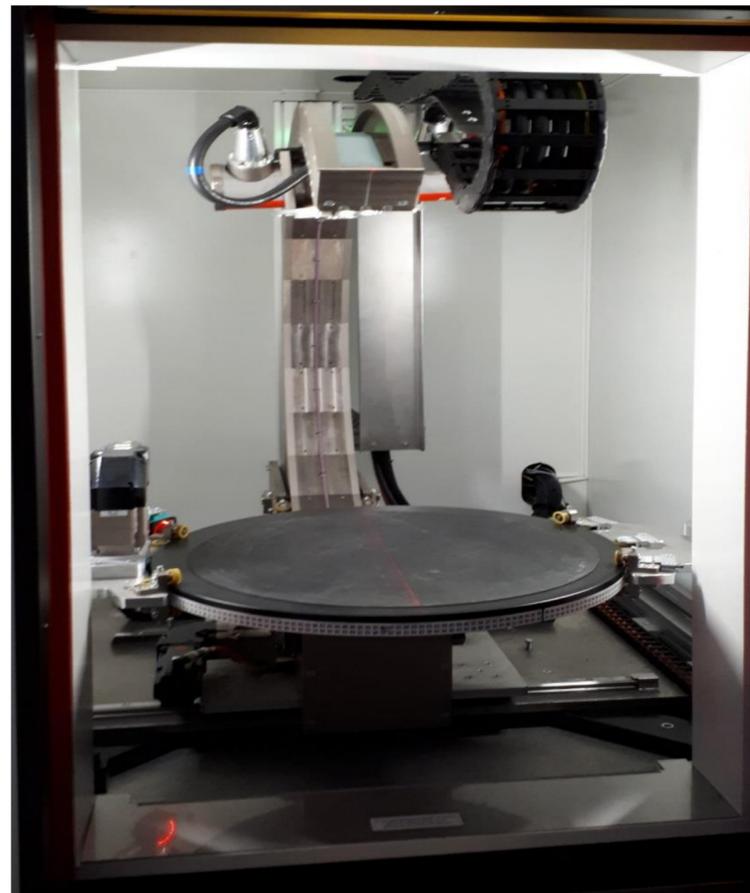
Alkar Porosity panel



3D view



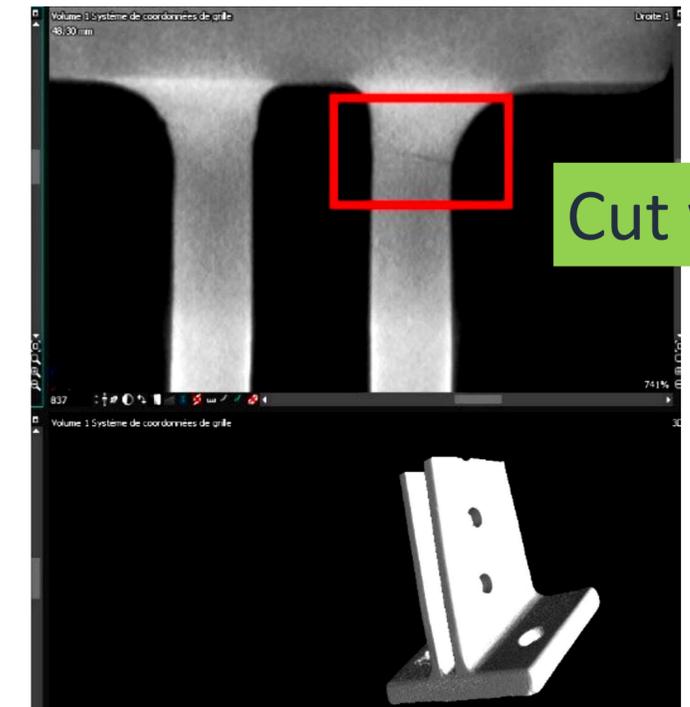
Cut view



Application sur métal Crack Detection



2D view



Cut view

Method	Equipment / Techniques	STAFF
RT Radiographic Testing	<ul style="list-style-type: none"> <li>Digital radiography (from 50KV – 320KV)</li> <li>Resolution from 50 µm – 200 µm</li> </ul>	2 RT Level1 2 RT level 2 and 1 RT3
UT Ultrasonic Testing	<ul style="list-style-type: none"> <li>Immersion Testing</li> <li>Thickness measurement</li> <li>Phased Array Pulse Echo</li> </ul>	1 UT level 1 2 UT level 2 1 UT level 3
PT Penetrant Testing	<ul style="list-style-type: none"> <li>Red Dye or Fluorescent penetrant</li> <li>Alkaline or Solvent Degreasing</li> </ul>	4 PT level 2 1 PT level 3
MT Magnetic Particle Inspection	<ul style="list-style-type: none"> <li>Hand yokes</li> <li>Stationary MT bench</li> </ul>	3 MT level 2 1 MT level 3
IRT Infrared Thermography Testing	<ul style="list-style-type: none"> <li>Hot air heater or 4 x 1000 W Halogen heaters</li> <li>IR Camera Flir T450sc</li> </ul>	2 IRT level 2 1 IRT level 3
ST Shearographic Testing	<ul style="list-style-type: none"> <li>Hot air heater or 4 x 1000 W Halogen heaters</li> <li>Optrion Digital Shearographic Camera</li> </ul>	1 ST level 1 1 ST level 3
ET Eddy Current Testing	<ul style="list-style-type: none"> <li>High and low Frequency Eddy Current Testing</li> <li>Rotating Probe ET</li> </ul>	2 ET level 2 1 ET level 3
VT Visual Testing	<ul style="list-style-type: none"> <li>Direct VT of welds, castings and composite parts</li> <li>Indirect VT (endoscopy and digital microscope 220x)</li> </ul>	1 VT level 2 1 VT level 3

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