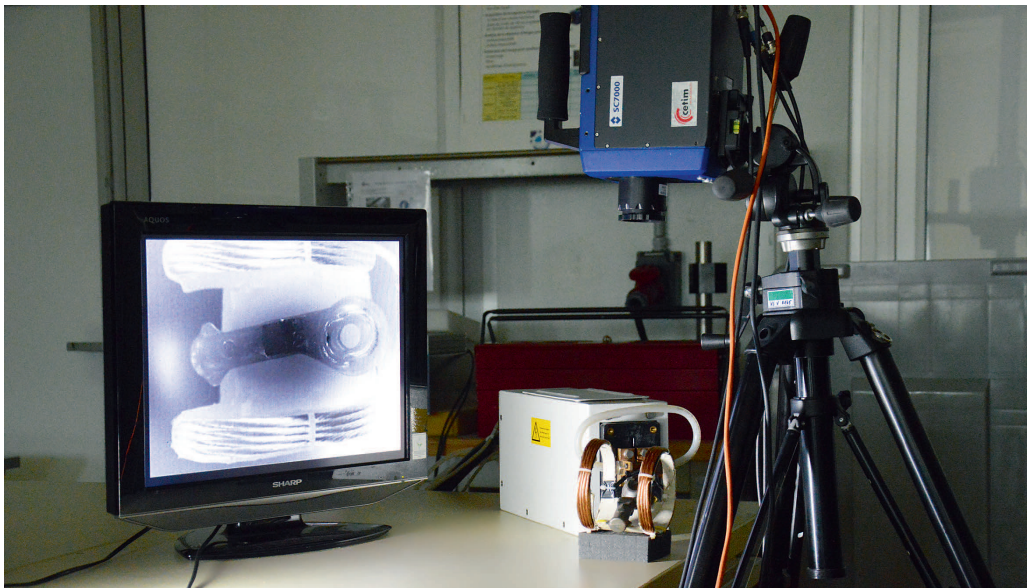


Otecmi

Active infrared thermography is an obvious solution

Otecmi has decided to train its personnel in active infrared thermography, a technique well suited to detecting flaws in composite materials.



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OUR CUSTOMER

Corporate name
Otecmi (SGS Group)

Turnover
7 million euros

Workforce
60 employees

Activity
Non-destructive testing (X-ray and gamma-ray, ultrasonic testing, fluorescent penetrant testing, magnetic particle testing), inspections, technical assistance, etc. Otecmi is specialised in the aerospace industry.

Approximately 300 wind turbines will soon be installed off the Channel coasts. This is the context and one of the reasons which led Otecmi to dispatch two of its employees to Cetim to receive training in infrared thermography. Otecmi is a company located near Cherbourg (France), specialising in non-destructive testing of aerospace equipment. Alain Maigrot, head of the Aerospace NDT Department at Otecmi, explains: “We wanted to better know the potential of infrared thermography, especially for the inspection of composite materials, since they are being increasingly used in

various industrial sectors such as aerospace, automobile, railway, wind turbines, etc.”

Cracks, delaminations and inclusions

Active infrared thermography is a technique which consists in exposing the item to be inspected to a controlled external excitation and then analysing heat propagation. The detected disturbance will then reveal surface or subsurface flaws, if any, such as cracks, delaminations, corrosion, inclusions of water or foreign matters, etc.

The 2-day training provided by Cetim starts with a presentation

Cetim's asset

Cetim offers industrial manufacturers a wide



range of training sessions in non-destructive testing

(NDT) methods and techniques applied to materials, products and equipment

of the physical principles of the method, the equipment used, the types of excitation, the image processing software, the parameters that have significant impact, etc.

And Alain Maigrot to conclude: “During training, we then performed many tests on various metallic, plastic and composite materials. Infrared thermography proved to be a fast and efficient technique which also allows good traceability. It has a significant potential for the inspection of composite materials and we already plan to apply it to many industrial sectors.”