

Project case review

ICM sa

ICM sa has become a world leader in portable industrial radiography equipment, and supplies the largest NDT service inspection companies in Europe. Mid- and high-voltage X-ray generators are the company's speciality. ICM's R&D team of specialist technicians and engineers works to improve currently available equipment and develop new X-ray generators.

Filmfree and ICM

As a major European developer and manufacturer of X-ray generators, ICM recognises the importance and growth potential of digital radiography.

Contributions to the project and its development included (a) 120kV cp portable X-ray unit; (b) 160kV cp portable X-ray unit; and (c) 225 kV portable panoramic X-ray unit. A significant area of activity within Filmfree is in the development of the X-ray generator hardware system for operation with the digital detector arrays for in-line casting inspection.

Project benefits

Filmfree has allowed a significant step forward in the use of digital techniques in NDT, with all the advantages provided by those techniques in terms of storage, processing and sharing of information.

Additional benefit arose from enabling extension of the ICM range of X-ray generators, making new markets available. Within the company, the project has resulted in one job created and one further new job expected. €240K of sales has been created plus a further €200K estimated arising from equipment sales.

Future plans

Future project ideas prompted by this project include developing a 'constant potential' version of the generator; commercialisation is underway including marketing of the new generator.



225kV Panoramic X-ray tube



Control unit