

## Project case review

### X-Tek Systems Ltd

Originally a custom design facility for microfocus X-ray systems, X-Tek expanded into volume production of high quality, high precision, standard and custom-designed X-ray systems. Broadening its reach into NDT, the company has seen continuous growth, with clients that include AMD, Ericson, Ti, IBM, Motorola and ASAT.

### Filmfree and X-Tek

X-Tek sees the project as an important step in the progression and acceptance of digital radiography. The company's contribution has included involvement both in the development of the microfocus source and the integration of the DDA array for casting inspection.

### Project benefits

For X-Tek, the project's most significant achievement is development of the high energy bi-polar microfocus X-ray source, power supplies and control equipment. The benefit for X-Tek is establishment of a new range of X-ray and CT products based on the high energy source. An indirect benefit is valuable new business contacts particularly in TWI, BAM and CEA.

It is estimated that within X-Tek there will be 4 jobs created and 2 jobs safeguarded as a result of involvement in Filmfree, with further estimates of €1.65M sales created and €0.55M sales safeguarded. New business is expected in the form of equipment sales.

### Future plans

X-Tek has launched the high energy microfocus source both as a stand-alone product and as part of a range of systems. In particular, the system is used to provide CT metrology on the internal dimensions of aircraft turbine blades. In addition, X-Tek is working on even higher energy sources (to 750keV), which will be mono-polar.



450kV microfocus  
X-ray source



Integrated cabinet system