

## LIGHTWEIGHT X-RAY TARGETS

ACERDE offers several sizes of light targets with graphite or composite substrates, with diameter ranging from 60mm to 250 mm:

Diameter	Heat Capacity	Modern Applications
64 to 90 mm	100-150HU	Radiology, mammography
90 to 120 mm	300-900HU	Cardiology, mammography
120 to 150 mm	300-900kHU	CT scanners, cardiology, fluoroscopy, angiography
200 to 250 mm	1-7MHU	CT scanners

The design of each target is developed in collaboration between ACERDE and its customer.

### GRAPHITE

ACERDE has 3 primary graphite suppliers offering a range of high performance material tailored for purity, grain morphology, density and processing.

In addition, these materials have been selected for compatibility with CVD and X-ray tube requirements.



### GRAPHITE

Carbon-carbon composite is composed of a carbon matrix reinforced with woven carbon fibers, giving it strength and elasticity.

- High mechanical strength and elasticity
- High thermal storage and temperature resistance
- Low density
- Easily machined



## APPLICATIONS

### FOR MEDICAL IMAGING



The light rotating X-ray targets are used in X-ray tubes which are an essential part of the following imaging technology:

- CT scanners
- Angiography
- Mammography
- Cardiology
- General purpose X-ray

### FOR OTHER INDUSTRIAL APPLICATIONS

Other industrial applications that utilize X-Ray tubes:

- Non destructive control
- Security control (airport, ...)

### CVD PROCESS APPLICATIONS

ACERDE proceeds to Tungsten-Rhenium (WRe) coatings.

The ACERDE's know-how in CVD and HTCVD (High Temperature Chemical Vapor Deposition) mainly surrounds mold coatings, medical, aeronautic, precision and electronics industries. For those industries, the HTCVD technology has attractive characteristics. CVD is particularly useful in the following applications:

