

GE  
Sensing & Inspection Technologies  
phoenix|x-ray

# phoenix long-life|filament

High emission current CT of strong absorbing samples  
with up to 10 times increased filament lifetime



Add-on package for all phoenix|x-ray  
directional type microfocus X-ray tubes  
up to 300 kV



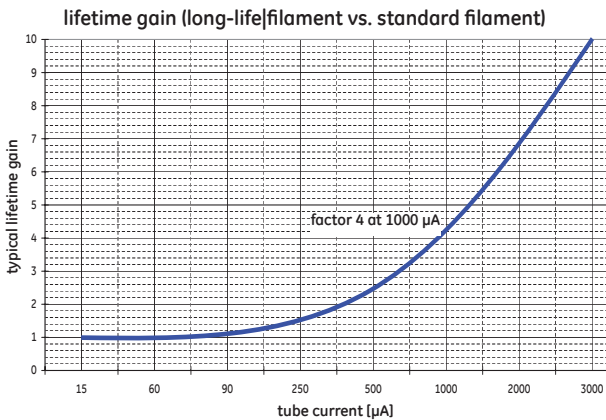
imagination at work

# phoenix long-life|filament

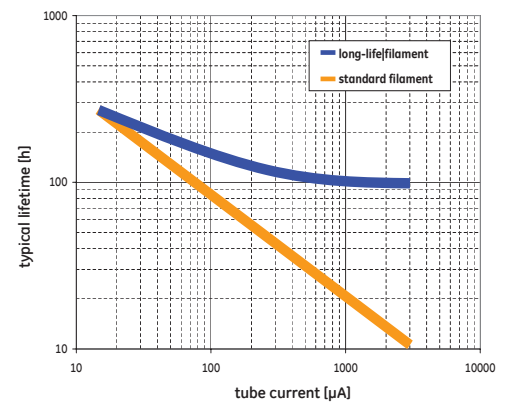
## Ensuring long-term stability and optimizing system efficiency

CT tasks using high emission currents stress conventional hairpin filaments and reduce their lifetime. To ensure long-term stability, reduce costs and increase throughput due to fewer filament replacements, GE's product line phoenix|x-ray offers an advanced solution for its easy-to-change plug-in cathodes:

- long-life|filament as a sales option for all phoenix|x-ray 2D inspection and CT systems with directional X-ray tubes
- Retrofit package for existing phoenix|x-ray directional type microfocus X-ray tubes



lifetime long-life|filament vs. standard filament



## Significantly extended filament lifetime

With phoenix|x-ray's long-life|filament, the lifetime increases up to factor 10 (at a tube current of 3000 µA) compared to conventional filaments.

## long-life|filament - Your Advantages

### Time and cost effectiveness

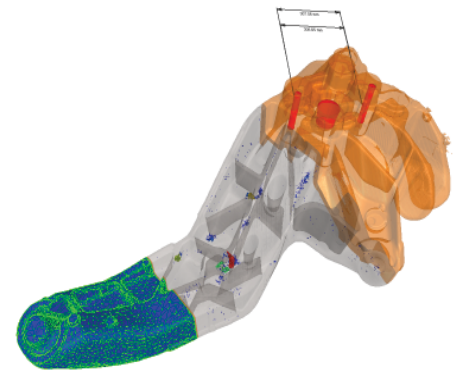
- Notably increased filament lifetime for longer operation time especially at high emission currents
- Increased machine uptime due to lower frequency of filament replacements

### Reliability

- More reliability in high through-put scenarios because of enhanced long-term stability

### Ease of use

- Easy-to-change plug-in cathode with pre-adjusted filament: whole replacement process takes < 30 min.
- Easy switching between standard and long-life|filament



Reverse engineering, automatic pore analysis and 3D metrology of a scanned automotive control arm



[www.phoenix-xray.com](http://www.phoenix-xray.com)

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