

## Semiconductors

How ultra-fine NDT x-ray details determine quality assurance

## The semiconductor is humanity's greatest innovation

Our daily lives revolve around items that use lots of semiconductors:











Worldwide, 100 billion integrated circuits used daily, equivalent to the number of stars in our corner of the Milky Way galaxy.1

> A single car can employ 5,000 semiconductors.

Yet, semiconductors' greatest potential lies before us.

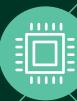


Thus, our collective safety increasingly relies on comprehensive semiconductor quality assurance, at microlevels of detail.

## Semiconductors used in all major industries

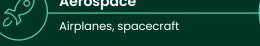


**Aerospace** 



**Automotive** 







R&D, Academia

New designs and innovations



Healthcare Machines for diagnosis

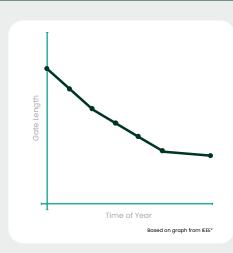


**Electronics** 

computers, appliances

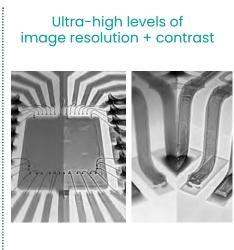


As semiconductor usage grows, sophistication increases and size decreases

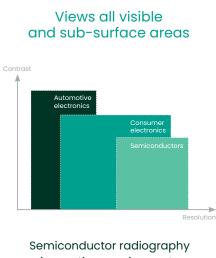


Elevated regulatory and industry requirements for detailed quality assurance.

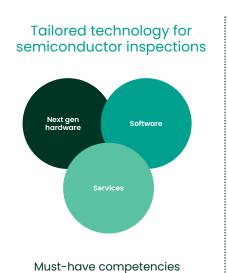
## Enter NDT X-ray Inspection



The difference is in the details



inspection requirements



In semiconductor quality assurance, the micro-fine details have big impact. Providing a clear view of those details helps to safeguard lives. For ultra-fine detailed quality assurance, you need a partner, not a product.

Waygate Technologies, a Baker Hughes business, built on years of radiography experience, stands ready to be that for you.

Please contact us to discuss your specific needs. bakerhughesds.com/contact

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