



WE ARE HEUFT!



And HEUFT knows how!

HEUFT pulsed X-ray technology

Anton Diehl – Product Manager X-ray Technology Beverages

Dirk Henschke – Product Manager X-ray Technology Food





WE ARE YOUR INVESTMENT IN A RELIABLE BRAND.

FOR YOU. FOR YOUR CUSTOMERS. FOR THE CONSUMER.



HEUFT *eXaminer II XOS*



HEUFT *eXaminer II XAC*



HEUFT *eXaminer II XS*



HEUFT *eXaminer II XB*



HEUFT *eXaminer II XT*

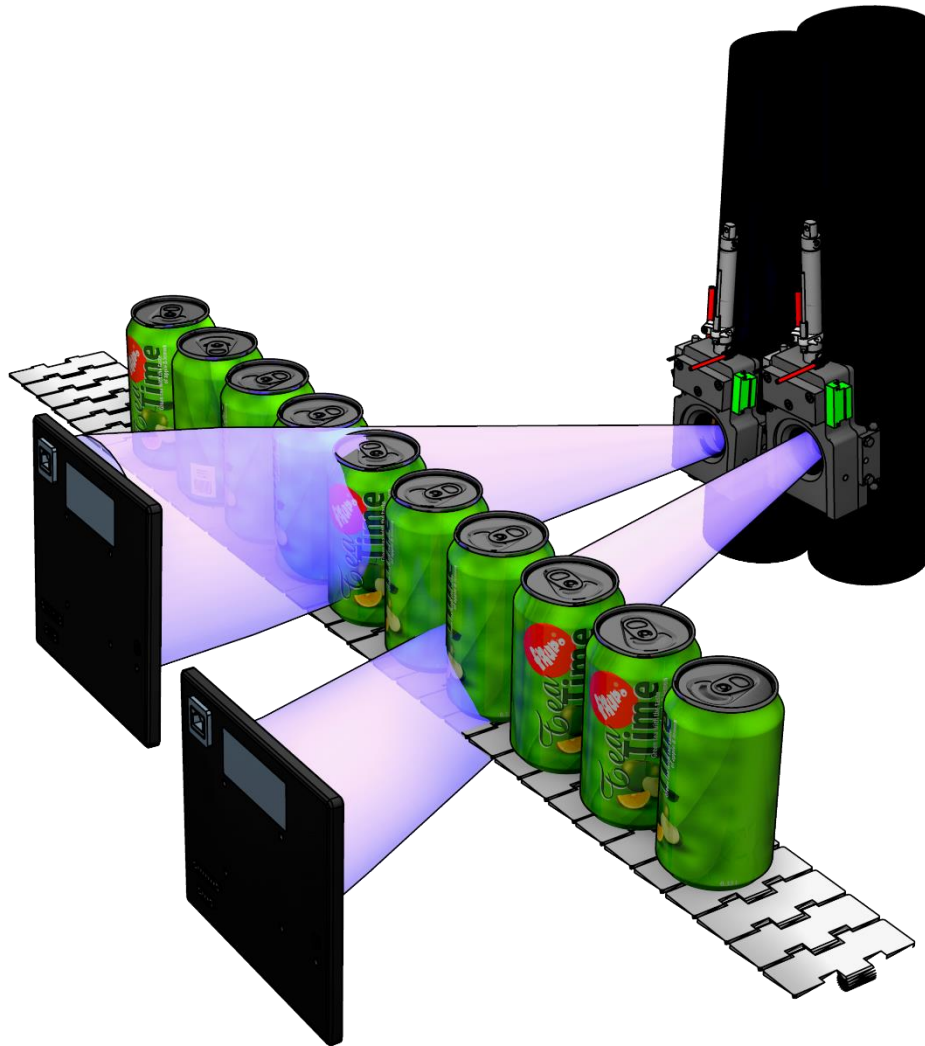


HEUFT *eXaminer II* XOS

X-ray inspection

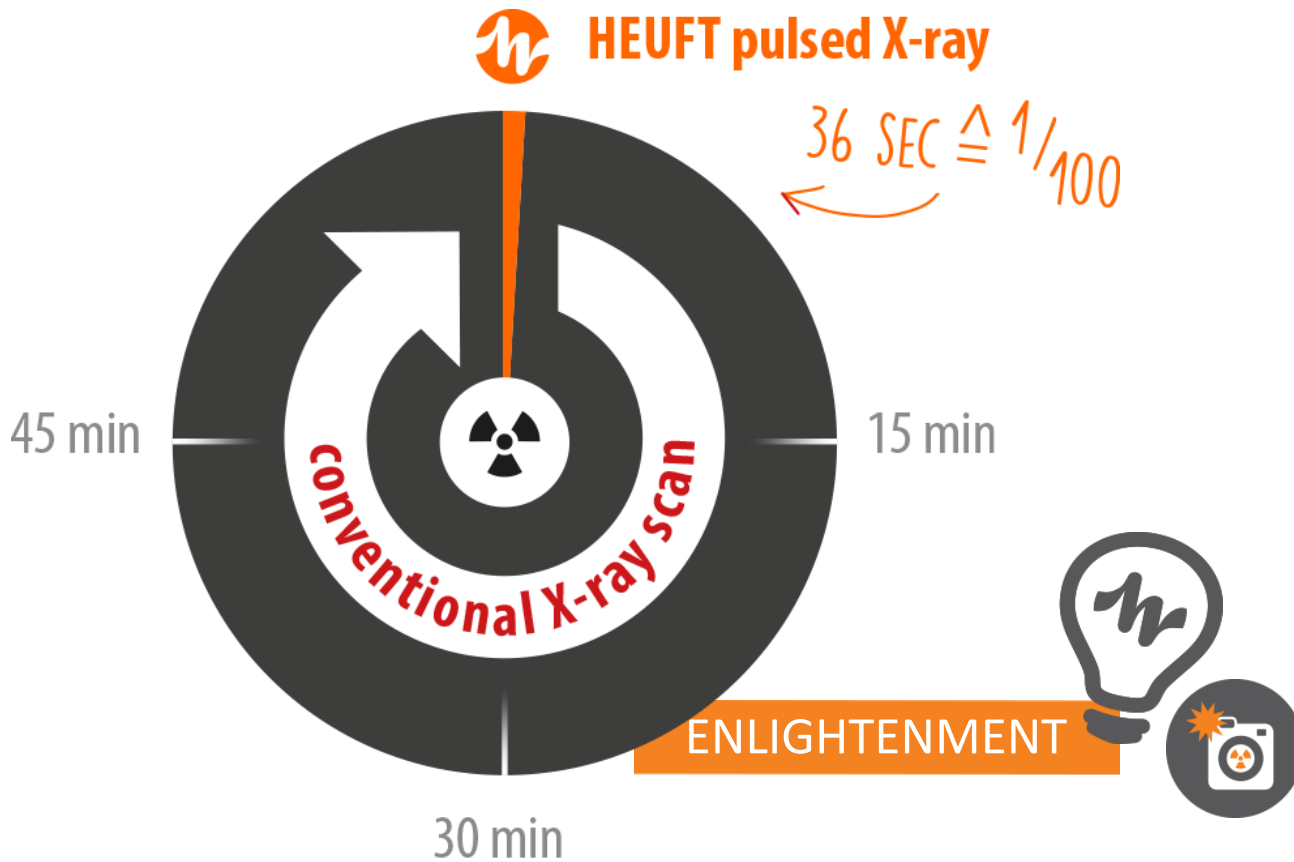
- Checking for foreign objects after the filling process and inspecting the closed primary packaging
- The risk of foreign objects is significantly reduced and product safety increased
- The critical control point to ensure customer and brand protection

Possible protection against foreign objects in bottles, containers & packaging



Radiometric methods

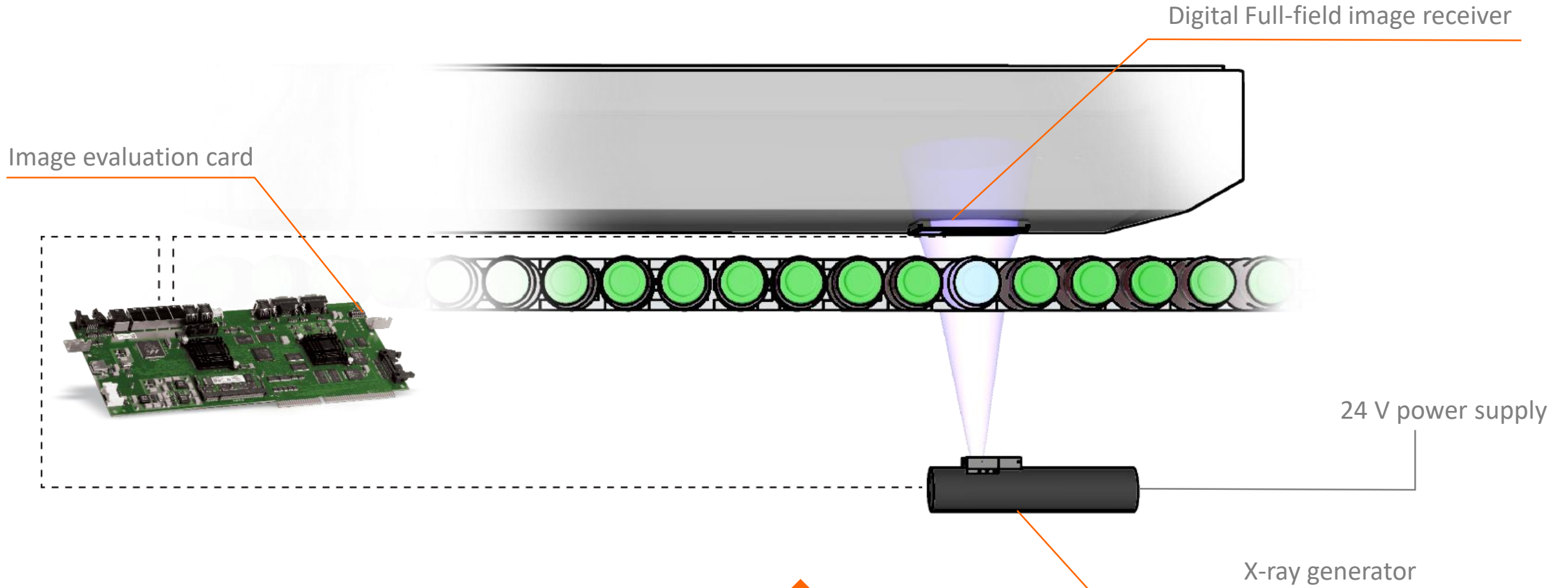
- Inspection of non-transparent packaging and products
- Detects high density materials
- Resolution not affected by label or water drops
- Packaging material and its variations as well as inhomogeneous products have an influence on detection performance



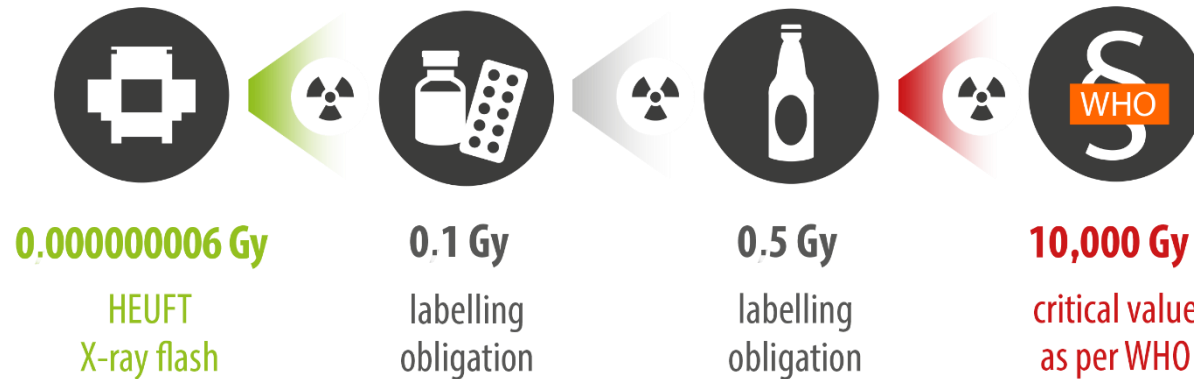
ONLY AVAILABLE WITH THE
HEUFT *eXaminer II* TECHNOLOGY

Pulsed X-ray technology

**MAXIMUM PRECISION AND
MINIMUM RADIATION!**



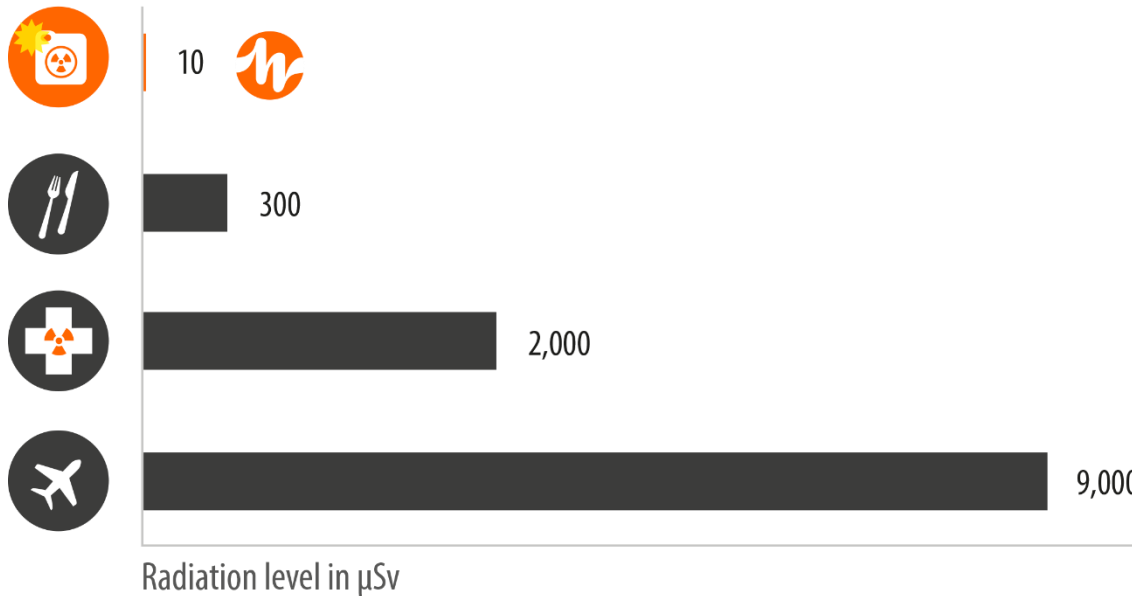
X-ray components



ONLY AVAILABLE WITH THE
HEUFT *eXaminer II* TECHNOLOGY

Pulsed X-ray technology

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MINIMUM RADIATION!**



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HEUFT *eXaminer II* TECHNOLOGY

Pulsed X-ray technology

**MAXIMUM PRECISION AND
MINIMUM RADIATION!**



✓ Gapless and variable bottle flow

Variable and high speeds possible ✓

 **72,000** up to containers per hour

ONLY AVAILABLE WITH THE PULSED X-RAY TECHNOLOGY



✓ Start / stop possible
Line clearing not necessary

 HIGH PERFORMANCE AT HIGH SPEED 

No reduction in detection performance at high speeds ✓

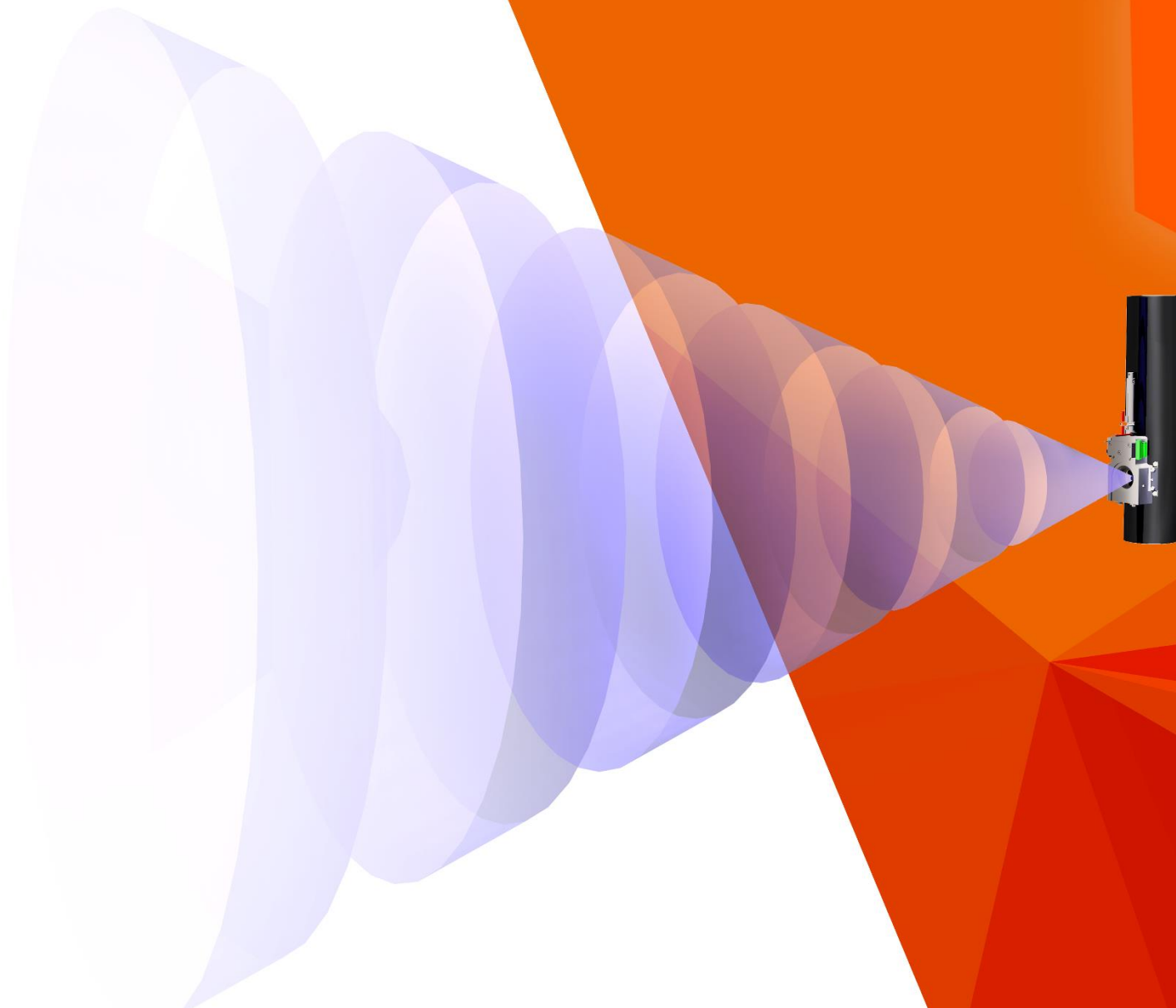
ENLIGHTENMENT  

The advantages of pulsed X-ray technology

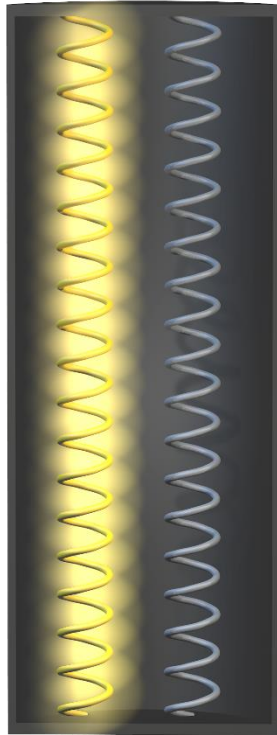
NEW

In-house
developments

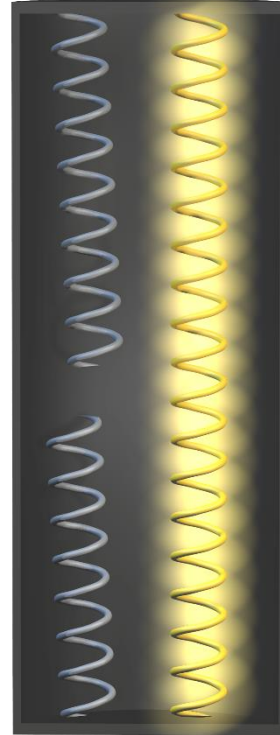
X-ray generator



HEUFT *eXaminer II*



before



after

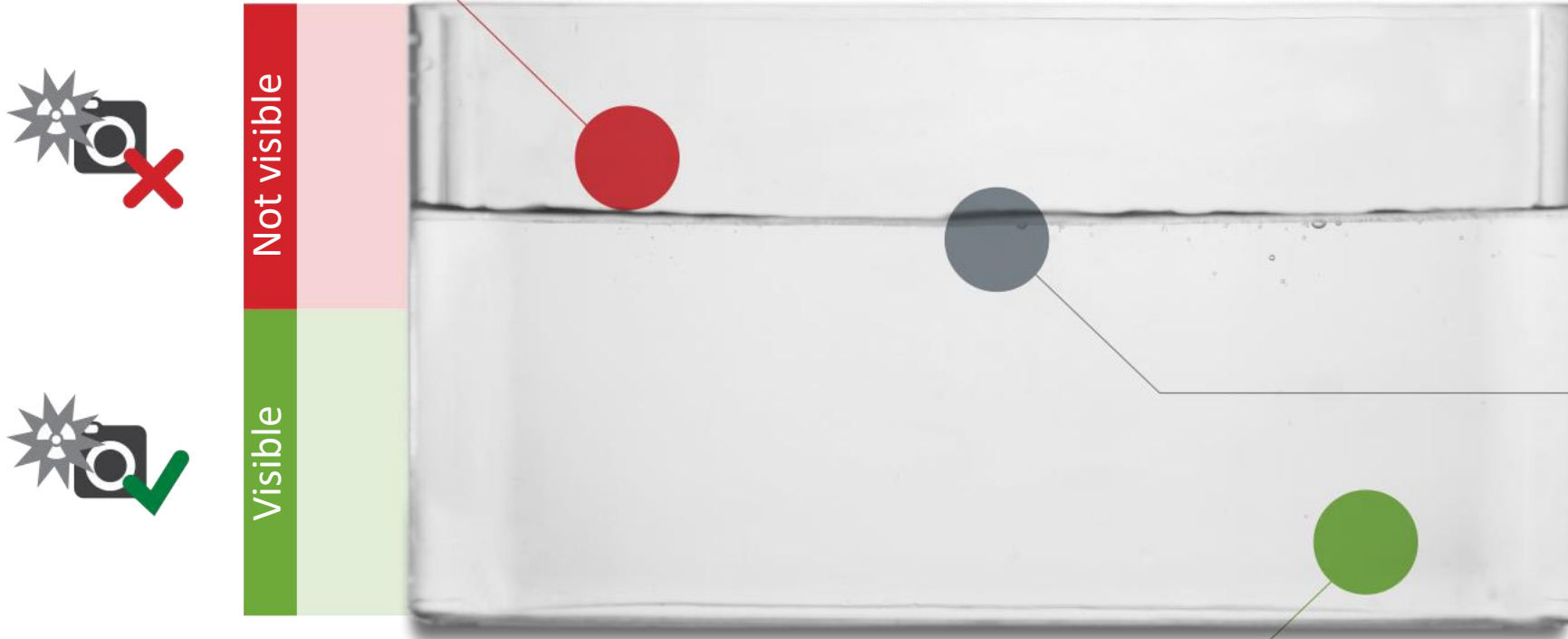
HEUFT *eXaminer* - pulsed X-rays

- On all devices which uses x-ray the heating coil is a wear part
- In case of a broken CCP products are not allowed to enter the market – recheck is necessary
- HEUFT X-ray tube eliminates this weak spot
- Fault-tolerant unit due to redundancy

Fault-tolerant unit due to redundancy

Ball floats on the surface

- density 0.08 [g/cm³]
- e.g. polystyrene



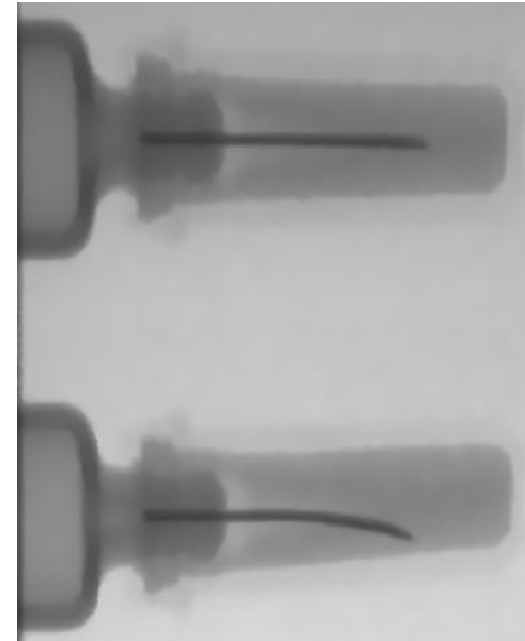
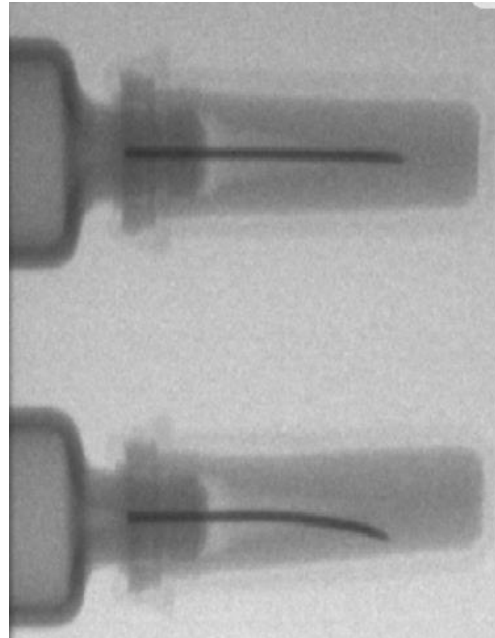
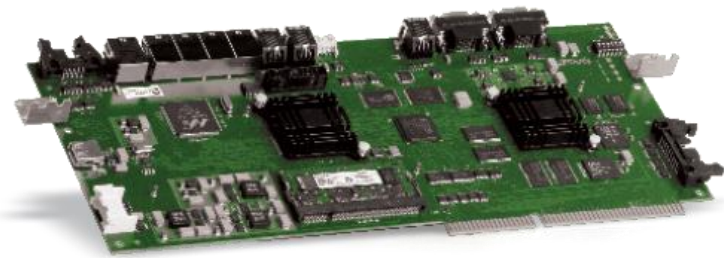
Ball sinks halfway

- density 0.5 [g/cm³]
- e.g. wood

Ball sinks to the bottom

- density 7.93 [g/cm³]
- e.g. steel

The invisible? Visible!



In-house developments: HEUFT artificial intelligence

HEUFT SYSTEMTECHNIK GMBH – [heuft.com](https://www.heuft.com)

Thank you for your attention!

