

**TPW** Prüfzentrum



**Some vertebrates  
are transparent...**

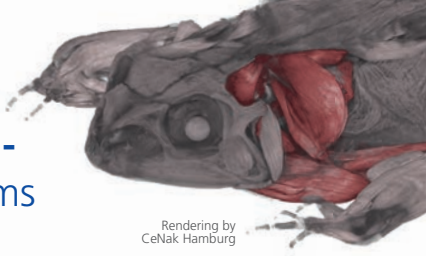
**...for the remainder you may need us.**  
Your reliable partner to provide  
a non-invasive look inside.

[www.werkstoffpruefung.de](http://www.werkstoffpruefung.de)

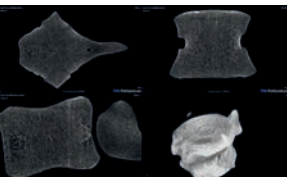
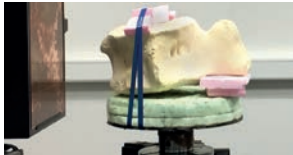
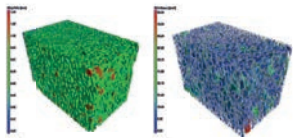


non-invasive look inside

# Nano- to mini-focus CT systems



TPW Prüfzentrum GmbH is a service provider for materials testing and as such, offers digital x-ray and CT inspections to customers in diverse fields of industry and academia. We are distinguished by a fast, reliable, and flexible service in close collaboration with our customers. As there is a wide range of applications of x-ray and CT imaging that we cover, our facilities comprise the full range from nano- to mini-focus CT systems as well as flexible digital x-ray detector units. So whether you are interested in an overview of the gross morphology of a specimen or you need the highest precision to visualize smallest details, we can be your partner to make it happen.



**Your personal contact:**

**Dr. Thomas Kleinteich**

X-ray inspections and Computed Tomography  
Level III RT according to DIN EN ISO 9712

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non-invasive look inside

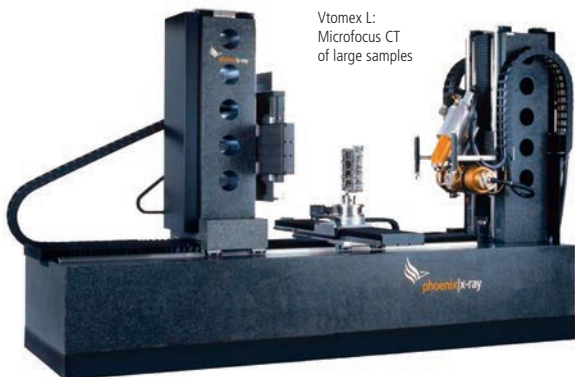
**TPW Prüfzentrum**

## Our facilities



Nanotom:  
High quality micro-CT  
at high resolution

Vtomex s:  
High throughput  
at the best rate



Vtomex L:  
Microfocus CT  
of large samples

## Prices (biology)

### GE phoenix nanotom m (180 kV nanofocus tube)

Price for single scan	240,- EUR
Field of view (max.)	150 x 120 mm
@voxelSize	50 $\mu$ m
Field of view (min.)	2 x 1.6 mm
@voxelSize	0.7 $\mu$ m

### GE phoenix nanotom m

- 180 kV nanofocus tube
- High spatial resolution (up to 0,2  $\mu$ m)
- Max. part dimensions: 240 x 250 mm; Weight 3 kg
- Suitable for: small parts, polymers, biological specimens

### GE phoenix v|tome|x s (225 kV microfocus tube)

Price for single scan	80,- EUR
Field of view (max.)	120 x 120 mm
@voxelSize	240 $\mu$ m
Field of view (min.)	5 x 5 mm
@voxelSize	10 $\mu$ m

### GE phoenix v|tome|x s

- 225 kV microfocus x-ray tube
- Spatial resolution up to 10  $\mu$ m
- Max. part dimensions: 420 x 135 mm; Weight 10 kg
- Suitable for: steel up to 20 mm, aluminium up to 80 mm, polymers up to 100 mm wall-thickness

### GE phoenix v|tome|x L450 (240 kV microfocus and 450 kV minifocus tube)

Price for single scan	200 EUR
Field of view (max.)	320 x 320 mm*
@voxelSize	160 $\mu$ m
Field of view (min.)	40 x 40 mm
@voxelSize	20 $\mu$ m

### GE phoenix v|tome|x L450

- 240 kV microfocus and 450 kV minifocus x-ray tube
- Spatial resolution up to 20  $\mu$ m
- Max. part dimensions: 2400 x 900 mm; Weight 100 kg
- Suitable for: steel up to 70 mm, aluminium up to 300 mm, polymers up to 500 mm wall-thickness

\* Multiscan and extended fields of view allow for samples up to  $\varnothing$  900 mm x 2,000 mm @ 160 $\mu$ m voxelsize

# TPW Prüfzentrum

The reliable partner.

## Non-destructive testing

- Mobile metallographic examinations
- 3D computed tomography
- Radiographic testing
- Digital radiography
- Dye penetrant testing
- Magnetic particle testing
- Ultrasonic testing
- Visual inspections
- Welding engineering
- Failure analysis

## Destructive testing

incl. in house sample preparation

- Chemical analyses
- Hardness testing
- Impact testing (temperatures from -196°C)
- Corrosion testing
- Metallographic testing
- Heat treatments
- Technological testing
- Hot tensile testing up to 900°C
- Tensile testing



Deutsche  
Akkreditierungsstelle  
D-PL-11209-01-00

Accredited testing laboratory  
D-PL-11209-01-00  
DIN EN ISO/IEC 17025



## Contact us!

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