CT-COMPACT plus





When it is important to have a full CT-System in a limited space, PXR's benchtop-systems are the right choice. Our systems are custom built to suit your requirements. This optimisation offers the best cost-to-performance ratio.

The CT-COMPACT is equipped with a 130 kV X-Ray-Source and a 14 x 12 cm Flat-Panel-Detector in portrait-orientation. It is able to scan large samples up to 300 mm in diameter and 210 mm in height. With the usage of light materials we made it to reduce its weight to \sim 600 kg, which allows the usage in every laboratory without the need of heavy load floors.

The CT-COMPACT can be customised in any detail, e.g. to pick up larger specimens or give room for different detectors with a higher number of pixels.

The CT-COMPACT offers all options of the larger floorstand-models like

Key Facts

Fit for industry: Most versatile and flexible benchtop system in the product range.

Light and spacious: Ideal for sophisticated laboratory applications.

High resolution: Micro-focus and micro-meter resolution.

Future-proof: Our Python API paves the way for your automation applications.

Application examples: Al battery inspection with automatic sample feeder; long-term examination of snow-cores at -40°C.

Axial-Scans, Fast-CT, horizontal Measurement-Field-Extension, vertical Measurement-Field-Extension, Helix-CT, or many more.

The 130 kV X-Ray-Source has a maximum power of 39 Watt and the minimum focal spot can be less than 5 μ m, which allows to resolve features smaller than 3 μ m. The combination with a large Flat-Panel-Detector allows to scan large object in a very short time.

Like all benchtop systems, the CT-COMPACT is ideal for non-destructive testing, materials analysis, metrology, rapid prototyping and many more.

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Specifications

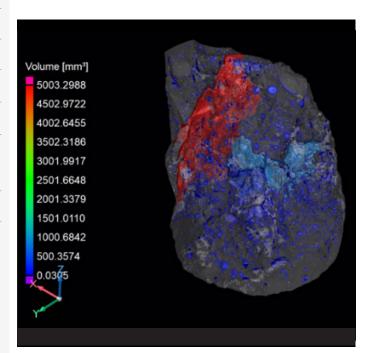
X-ray source	40 - 130 kV up to 39 W 5 μm min. focal spot
Detector	7.5 Megapixel 100 µm pixel size 3008 x 4802 pixel
Highest spatial resolution	< 5 μm
Smallest voxel size	< 1,2 μm
Max. object size	Ø 360 x H 600 mm
Max. object weight	10 kg
Max. scan size	Ø 300 x H 330 mm
FDD	520 mm
FOD	13 - 420 mm
Number of axes	5
System dimensions (L x W x H)	1300 x 800 x 900 mm
System weight	~600 kg
Power supply	100 - 240 V AC, 50/60 Hz



To read more about this system, scan the code to visit our website.

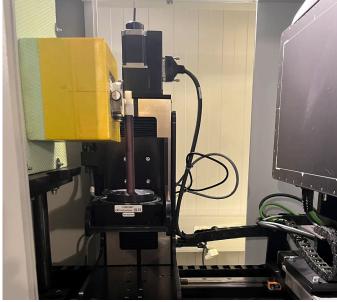
Features

- ▶ Industrial X-ray Computed Tomography (CT)
- ▶ 3D volume CT
- ▶ Non-destructive testing (NDT) 2D and 3D
- ▶ Quality control independent of material
- ▶ Defect recognition (voids, cracks, etc.)
- ▶ Contactless metrology
- ▶ Fast CT reconstruction
- Artefact reduction
- ▶ Easy operation & low maintenance needs
- ▶ Radiation safety better than 1 µSv/h



Porosity analysis conducted on a piece of concrete





Our systems can be adapted to operate in extreme conditions.

Application Cases

Above: Long-term analysis of snow cores at the Canadian High Arctic Research Station at temperatures of -40°C. This system was adapted to insulate the X-ray source, and create a custom solution to ensure operation at extreme temperatures.

Left: This sample of concrete has a diameter of 120 mm. A scan was conducted to analyse porosity, identifying cracks, holes, and air bubbles.