

GEO TEK plugXcan: RESOLVE MORE

A high throughput dedicated core plug and sidewall core X-ray CT system. Up to 100 core plugs or sidewall cores can be scanned per day with a cubic voxel resolution of c. 100 microns. PlugXcan utilises a long lifetime closed 130 kV X-ray source, a large flat panel detector, and motorised object positioning to optimise geometrical resolution between 40 μm and 250 μm . Multiple core plugs (up to 8) are securely mounted using a Geotek "QuickFix" holder for stable and automated scanning.



SPECIFICATIONS

X-ray source: 65 W Thermo Kevex Microfocus

Voltage Range: 45 kV to 130 kV

X-ray Spot Size Range: 22 μm to 100 μm

Image Resolution Range: 40 μm to 250 μm

Typical Resolution: c. 100 μm for 1.5" core plugs

Size: 1457 mm x 767 mm x 1982 mm (L x W x H)

Core Dimensions: Diameter - 1" to 3", Length - up to 6" in length

Weight: c. 1500 kg

External Cooling Requirements: None

Output: 16-bit Tiff stack with automated report generation

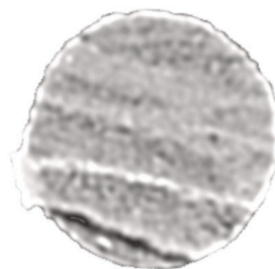
Core Loading: Geotek QuickFix holders

Utilities: 100v-240v, single phase

Rotation Method: Core rotation

- **Fast (2-3 minutes per plug) X-ray CT** to enable scanning of all core plugs/sidewall cores
- **Superior image resolution and sensitivity** compared to medical CT data without the loss of speed
- **Automatic reconstruction** and report generation for faster deliverables

Medical CT
300 μm x 625 μm



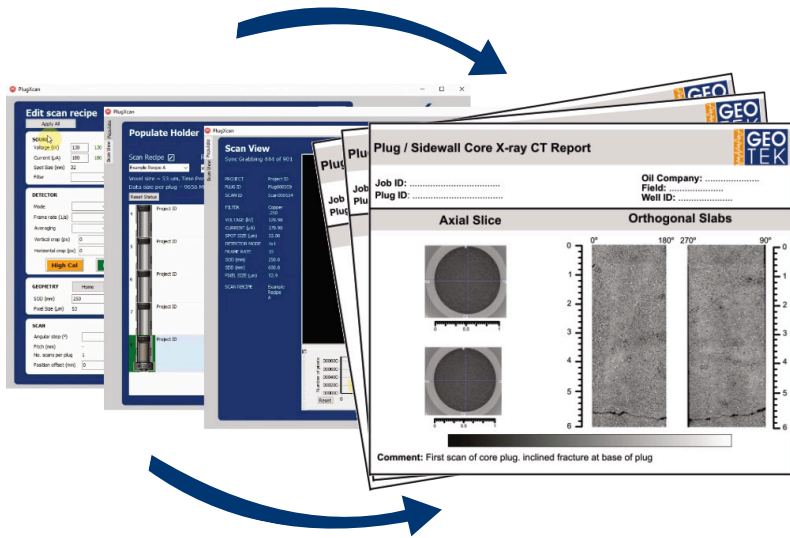
plugXcan
100 μm x 100 μm



1.5" Core plug

IF CORE'S WORTH TAKING, IT'S WORTH LOGGING

SIMPLE AND EASY SOFTWARE WORKFLOWS



- **Intelligent acquisition and processing workflows** built into custom-designed software
- **Automatic CT report** and image generation
- Multi-core plug/sample compatible for high throughput and **low operator input** and faster scanning compared to dedicated **micro-CT system**

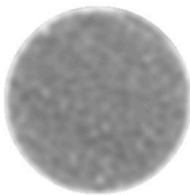
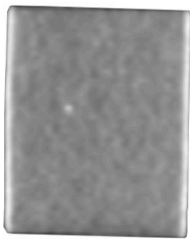


CT DELIVERABLES FASTER

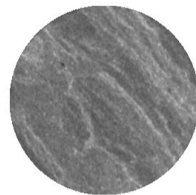
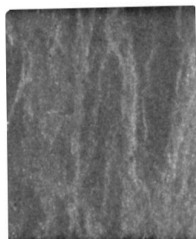
The PlugXcan's superior resolution and fast acquisition allows for the quick and robust identification of accumulations of heavy minerals, bedding (laminae), fractures, or larger voids/pore spaces. These features may well be missed using conventional lower resolution, less geometrically suitable, and more expensive medical X-ray CT systems.

1" SIDEWALL CORE

Medical CT
300µm x 625µm

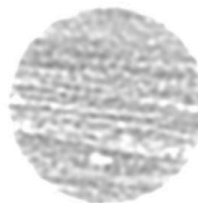
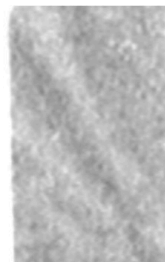


plugXcan
100µm x 100µm



1.5" CORE PLUG

Medical CT
300µm x 625µm



plugXcan
100µm x 100µm

