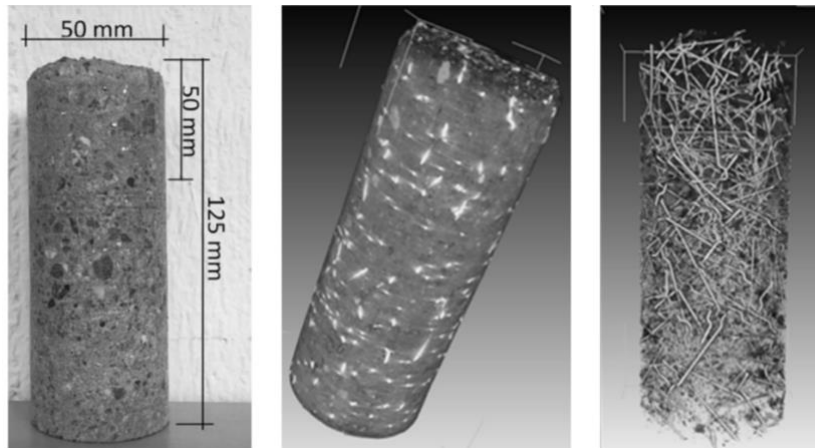


## X-ray Computed Tomography CT



*NSI X5000 CT System*



*Steel fibers distribution in sprayed concrete*

The laboratory of KTH Department of Civil and Architectural Engineering has a high-resolution x-ray Computed Tomography CT NSI X5000 System with capability to scan specimens during mechanical testing (MTS Uniaxial Test System, up to 100 kN) under temperature-controlled settings (-20°C to 80°C). The CT system has been a strategic research equipment for our Department; it has been mostly used by KTH researchers from various Schools and by industry partners.

The CT system has been successfully utilized to perform advanced research on infrastructure materials such as concrete, asphalt, soils, and rocks; more specifically, for characterization of internal microstructure (up to 5 microns resolution), damage analysis, real-time investigations, time-lapse assessments, and image-based modelling, among other applications.

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