

<p>Disc centrifuge</p>	<p>Category: C. Particle Characterisation in and ex-situ</p> <p>Institute: VITO</p> <p>Location: Boeretang 200, 2400 Mol, Belgium</p> <p>Contact Details of Technology Expert: Steven Mullens Phone: +32 (0)14 335668 Fax: +32 (0)14 321186 E-mail: steven.mullens@vito.be</p>
<p>Short technology description</p> <p>The CPS Disc Centrifuge measures particle size distributions using centrifugal sedimentation within an optically clear spinning disc that is filled with fluid. Sedimentation is stabilized by a density gradient within the fluid, and accuracy of measured sizes is insured through the use of a known size calibration standard before each test. The time needed for the particles to reach the detector is used to calculate the particle size.</p> <p>The particle size analyzer is used for measuring particles in the range of 0.01 micron to 75 microns. The system is most effective with particles between 0.02 and 30 microns, depending on the particle density and the density of the fluid in which the measurement is run.</p> <p>This approach for determining particle size distributions offers high resolution and accuracy, especially for multimodal size distributions.</p>	
<p>Main Features (Equipment Capabilities):</p> <ul style="list-style-type: none"> ▪ Particle size distribution between 10 nm and 75 µm (density dependant) ▪ Water or other solvents possible ▪ Low concentration suspension can be measured (~10 ng/mL) ▪ Peak resolution of ~3-6 % 	
<p>Typical Samples & Images:</p>	
<p><i>Any further Information:</i></p>	