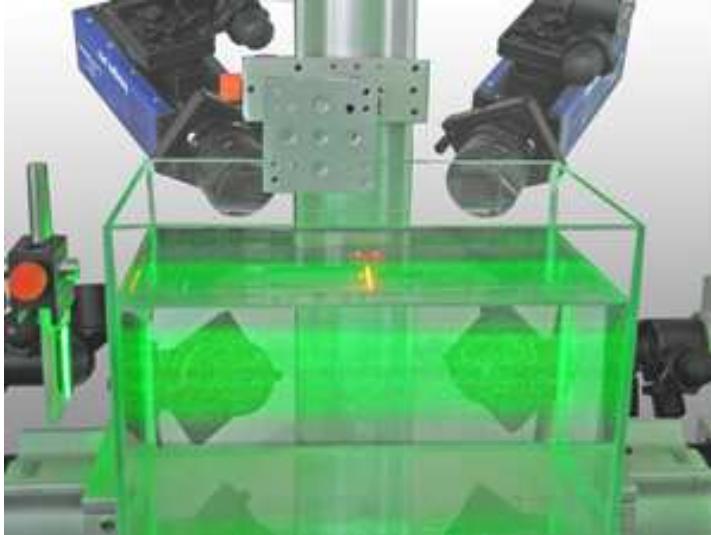
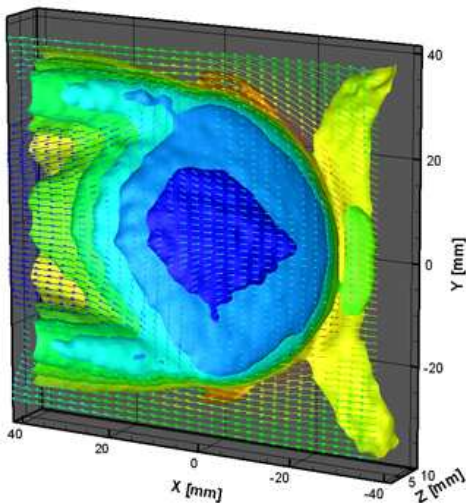


## FlowMaster - Tomographic PIV



**FlowMaster Tomographic PIV** is an extension of the FlowMaster stereoscopic 3D concept and enables the instantaneous measurement of all three velocity components in a complete 3D measurement volume. Tomographic PIV is based on the principle of tomographic volume reconstruction that is well known from magnetic resonance imaging. The 3D light intensity field of the illuminated particles is reconstructed from the images of four cameras viewing from different angles. Velocity vectors in the volume are computed by an iterative three dimensional cross correlation technique using deformed interrogation volumes. Scheimpflug lens arrangements keep the measurement volume in focus.



*cylinder stub average N=50*

It is easy to upgrade from an existing PIV system to tomographic PIV. All that is needed are the additional cameras and the **FlowMaster Tomographic PIV** software package.