

PHANTOMS & sample holders for submicron CT

Phantoms for calibration and characterization of CT systems
and quality improvement of image data

For more reliable CT measurements

Verify, analyze, compare
CT systems' properties

Reduce CT artifacts
for higher CT data quality

Voxel-Spirit



- Calibration for down to <math>< 1 \mu\text{m}</math> voxel size CT applications

R1-Shadow



- Data registration with <math>< 1</math> pixel precision

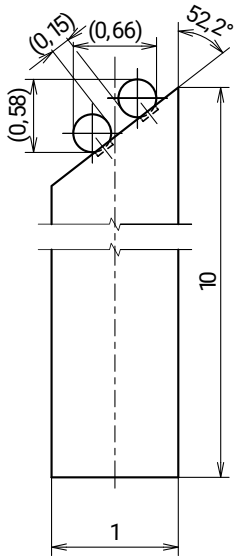
Resolution-Spirit



- Precise spatial resolution estimation according to ASTM E169-95

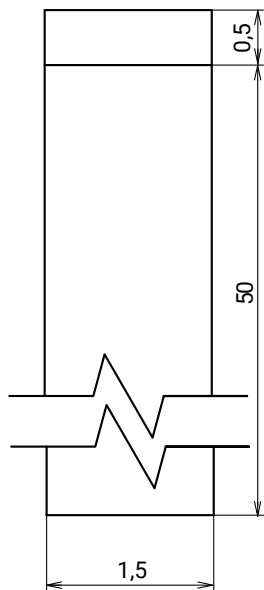
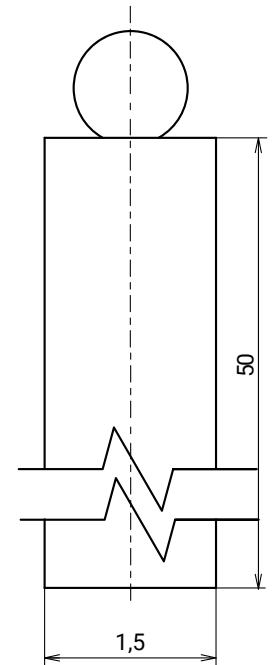


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	Voxel-Spirit	
FoV requirements	0.6 mm x 0.7 mm	
Balls specification	diameter	0.3 mm
	distance	0.45 mm (certified precision: 0.06 μm)
Phantoms holder specifications	diameter options	1.5 mm, 3.0 mm, 5.0 mm
	length	50 mm
Used material	ruby, carbon, stainless steel	
Calibration	any image-processing software for CT data	

Resolution-Spirit	I	II	III	IV
Ball diameter [mm]	0.5	1.0	2.5	5.0
Max. FOV width [mm]	1.0	2.0	5.0	10.0
Holder diameter [mm]	1.5		3.0	5.0
Holder length [mm]	50.0			
Used material	ruby, carbon			
Procedure	any image-processing software for CT data			



R1-shadow	I	II	III	IV
Fiducial diameter [μm]	25		50	100
Max. pixel size [μm]	2.5		5.0	10.0
Holder diameter [mm]	1.5	3.0	5.0	10.0
Holder length [mm]	50.5			
Used material	ruby, carbon, stainless steel			
Packaging options	3 pc., 5 pc., 10 pc.			
Procedure	imageJ plugin/ any image-processing software for CT data			