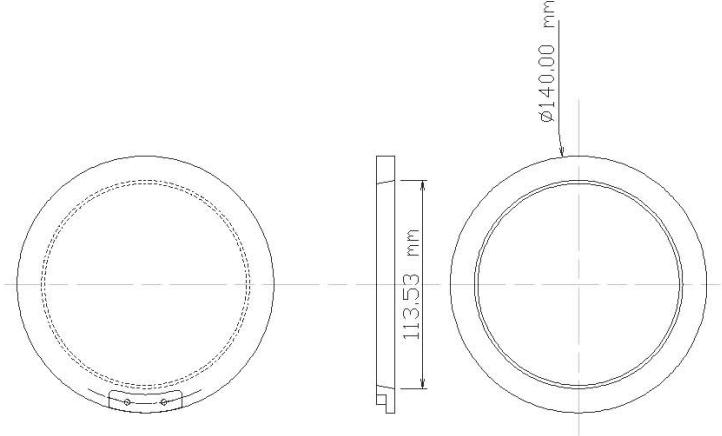
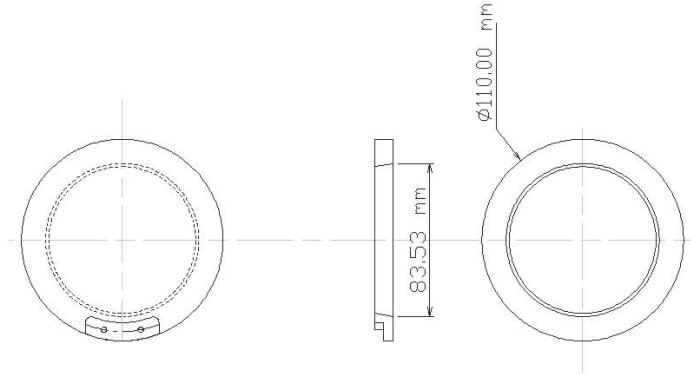
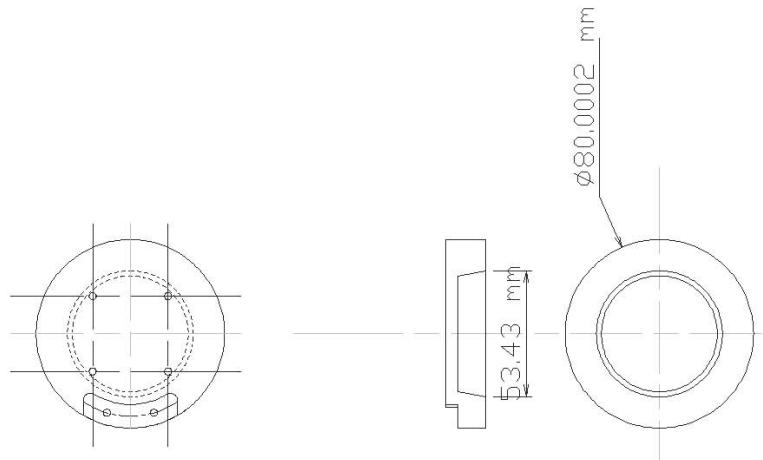


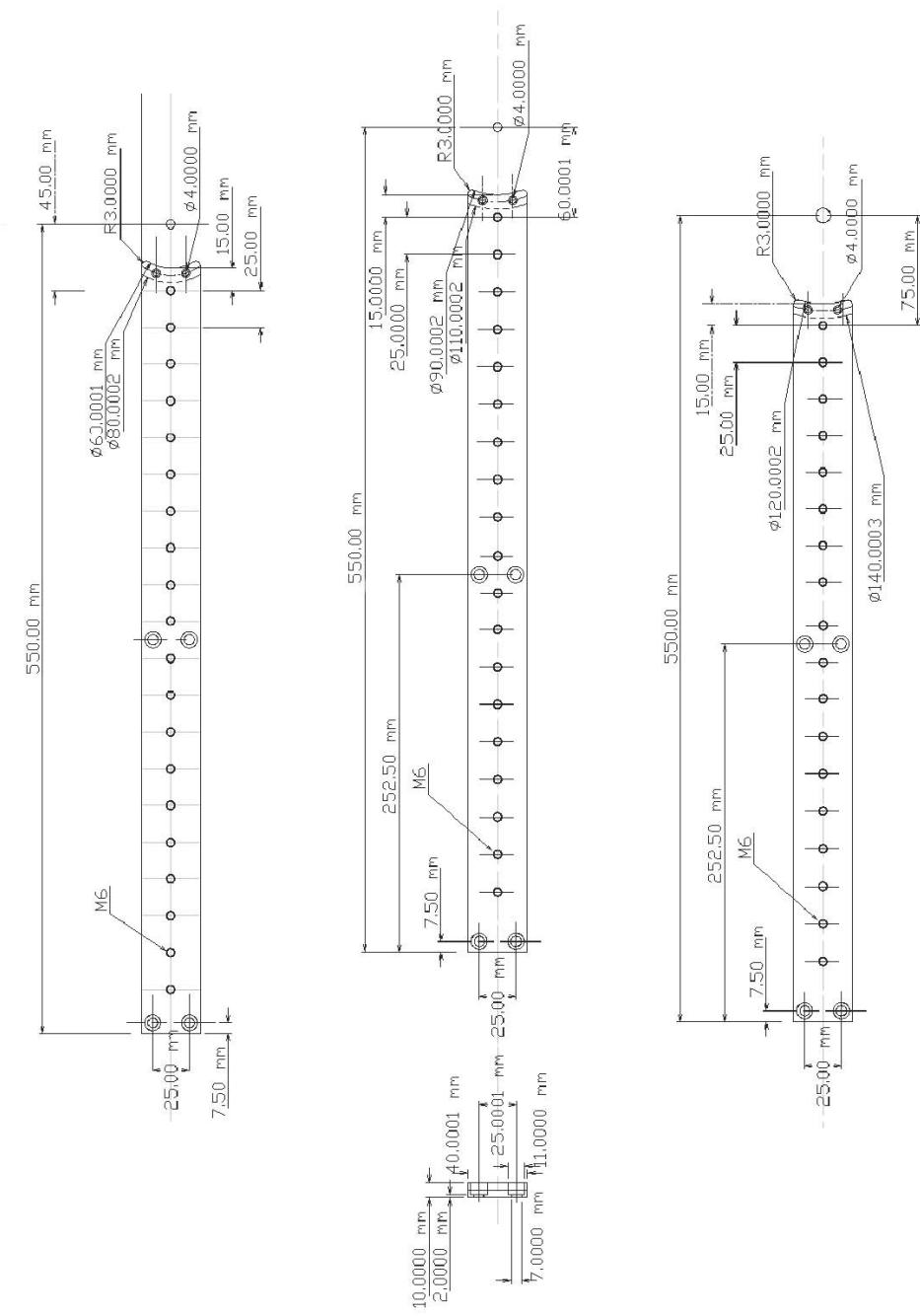
Appendix D

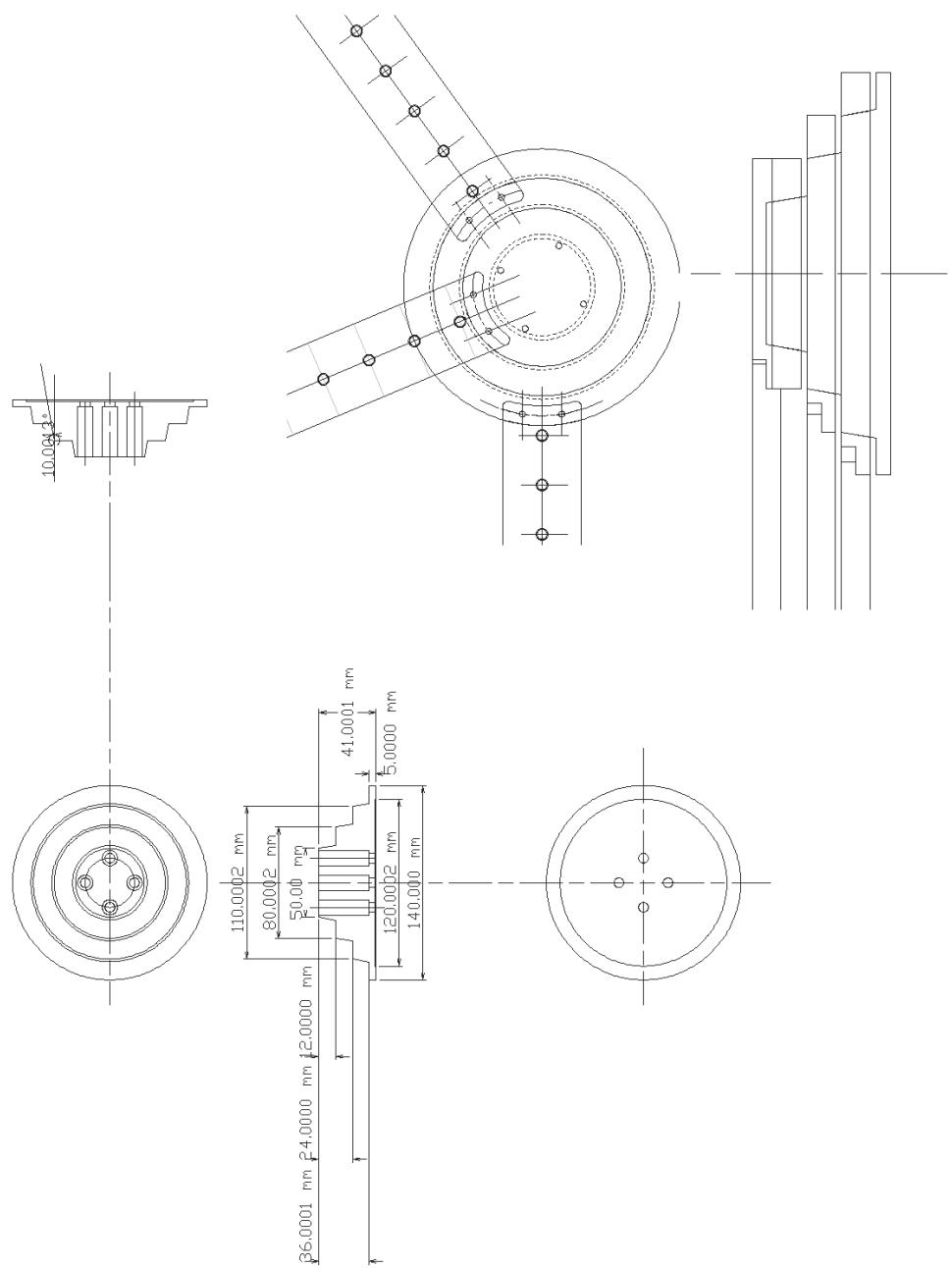
Design of goniometer for spectroscopic applications

This appendix contains the drawings of the goniometer integrated in the experimental setup for the investigation of scattering from the surface of nanostructured samples presented in chapter 4.

On page 186 the drawings of three concentric rings are shown. An arm was attached to each ring and their drawings are shown on page 187. The rings fitted a stepped shaft, which is shown on page 188 together with view of the centre of the assembly. The design notes are shown on page 189. All parts were machined out of hard aluminium and then hard-anodised, but for the shaft, which was made of steel.







NOTE		DESCRIPTION
TYPE	No	

MATERIAL STAINLESS STEEL / ALUMINUM		©UNIVERSITY OF SOUTHAMPTON DEPARTMENT OF ELECTRONICS & COMPUTER SCIENCE	
TOLERANCES UNLESS OTHERWISE STATED: 0.000			
ALL DIMS IN MILLIMETERS		FINISH 16 An CLEAN / ANODISED	
SURFACE TEXTURE VALUES IN μm		REMOVE SHARP EDGES	
MACHINE WHERE MARKED ∇		SCALE HALF FULL SIZE	
		3 cone taper and taper rings	
REV DATE	CHANGES	TITLE	DATE
			REV
APPROVED		DRAWN BY M.R.L.	
THIRD ANGLE			