3D-printed antenna holders

Customized holders were specifically designed for supporting the 22240-20 20 dB standard gain Flann horn antenna. The holder consisted of three pieces that allow easily attaching and de-attaching the antennas, 360° azimuth rotation and connection to any standard camera tripods. Technical drawings of these three parts can be found in the following together with a schematic of the assembly, Fig. B.1.

The holders were subsequently fabricated using a Fotus 400mc 3D-printer and ABS plastic. A photograph of a printed holder attached to a 8” Polaroid mini tripod and the antenna is shown in Fig. B.2.
Figure B.1: 3D representation of the antenna holders. (a) Assembled and (b) exploded view.

Figure B.2: Photograph of a 3D-printed holder.
Antenna Holder - Inner Part
Scale 2:1
Units mm

Front view

Top view

\( \phi 40.90 \)

\( \phi 8.40 \)