

# ANTERAL



## Anteral Space Background

Anteral, spin-off company of the Antenna research group of the Public University of Navarra, has been working since 1999 designing most advanced feed horn antennas for satellites and space applications.

### Specialized in

Design, manufacture and verification of high performance horn antennas, planar antennas and feed-chains for on-board satellite systems.

### Our values

We try to be the best in what we do, offering our clients innovative solutions in a short period of time and with a personal treatment.

More info:

[www.antal.com](http://www.antal.com)

### Capabilities

We develop innovative horn antennas, planar antennas and feed chains to obtain the best solutions for each frequency band (commercial and scientific bands) on reflector antennas. Our low profile planar antennas are the best solution for launchers and cubesats.

Most used feed horn antenna types are:

- Circular smooth-walled spline horn.
- Axially and radial corrugated horn.
- Corrugated horn with axial corrugations.
- Corrugated horn with radial corrugations.
- Smooth-walled spline horn with axial.

Feasible designs:

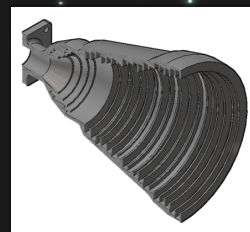
- Customized copolar radiation pattern with low side-lobe level.
- Single band or multiband design, with a relative bandwidth up to 50%.
- Low maximum cross-polarization level ( $< -45$  dB).
- Very low return losses ( $< -35$  dB).
- Anteral uses innovative profiles to obtain very compact corrugated horns.

Measurements:

Anteral has at its disposal an anechoic chamber with high precision equipment to measure return loss, radiation pattern, cross polar and isolation.

- Near Field Radiation Pattern.
- Far Field Radiation Pattern.
- Spherical Radiation Pattern.

### Success stories



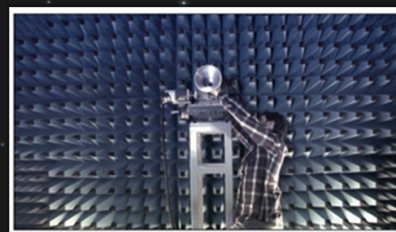
Corrugated profile horn antenna



Spline profile horn antenna



Dual Polarization Ka band Feed Chain



Anechoic chamber with positioner

### Our clients

Some of our clients are:



### Contact

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