

### Introduction

Prodotel is an engineering company with large experience at maintenance, installation and integration of communications systems, with special attention to LOS communications for telemetry applications and Satellite Uplinks. Prodotel performs installations and gives maintenance service for the systems of telemetry and radio for the most important flight test experimentation centers and armament in Spain.



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### Customers

Among others, main customers are:

#### Spanish Air Force:



Prodotel is responsible for preventive and corrective maintenance of antenna systems at Spanish Air Force Flight Test Network.

#### Airbus Defense and Space:



Prodotel is responsible for preventive and corrective maintenance of Airbus Flight test Network with antenna system at different locations around Spain and other associated equipment such as Telemetry receivers.

#### INTA:



Prodotel collaborates with INTA at different UAS Programs (SIVA and MILANO) with LOS systems for TM and TC.

#### AEMET:



Prodotel has installed AEMET DVB-S2 Systems for the reception and exploitation of Meteorological Satellite Data at 17 regional centers. Prodotel have preventive and corrective maintenance agreements for Satellite systems at AEMET.

Other important partners of PRODETEL are: **Telefónica, Cellnex, Elecnor-Deimos, AENA, GMV, ISDEFE, OVERON.**

### Quality Assurance

Prodotel is an ISO 9001-2008 certified company by the chamber of commerce of Madrid with the scope of: *Installation, maintenance and fixing of radio communication systems Radio links, applications of ground-air and air-ground communication, Telemetry systems for flight tests and unmanned aircrafts, systems for the reception of data via satellite with audiovisual, meteorological and remote sensing application.*



All Prodotel activity is gathered in different procedures and registers that guarantee the correct execution of its services and the traceability of all the tasks.

### Means

Prodotel has the personnel and the licenses required for its activity.

It also has the necessary tools: Spectrum analyzers of up to 21GHz, Oscilloscopes with bandwidth of up to 300MHz, Power and frequency meters, Vector network analyzer, Digital network meter, Digital Multimeters, Signal generators, Power loads, Frequency synthesizers, Etcetera.

### Telemetry Calibration

This is one of the company main activities. Prodotel offers service for any model of telemetry receptor especially older receptors which are more susceptible to mismatches that could cause operational stops.

The team is particularly specialized in the following L3-Microdyne brand models:

**Receivers:** Models 1100, 1400, 700MR, 2800,

**Combiners:** 1620PC



### Signal Simulation and ACUS:

We also offer preventive and corrective maintenance for antenna controllers and any signal simulator.



### **Equipment Repair**

Prodotel repairs a wide range of equipment for its clients. Some examples are:

- AM/FM Radio for telecommunication from brands like PAE, Collins and Rhode amongst others
- High Power Amplifiers for satellites from brands like CPI, Marconi, Xicom and SSE.
- Other equipment like up/down converters and Beacon receivers.

### **Installation and Projects**

Prodotel performs turn-key installations in telecommunication systems for several applications like:

- Telemetry; remote sensing; satellite and radio communication
- V/UHF; HF and other bands.

We work close to companies like Vertex, GD-Satcom, Newtec, Work or CPI amongst others. Prodotel can do full or partial projects according to the needs of our clients.



### **Prototyping**

Prodotel designs, manufactures and integrates small electronic devices for communication satisfying specific needs of its clients that are not met by commercial devices. For this, we make small series of electronic circuits.

### **Maintenance activities**

Prodotel is responsible for the maintenance of complete systems for clients like:

Spanish Air Force, Movistar and Airbus.

Our services include routines of preventive, corrective and evolutionary maintenance. This way we



actively help with the prolongation of the operational life of the systems which results in a reduction of costs

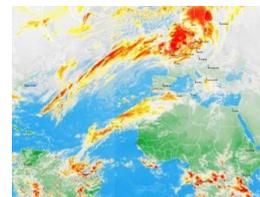
and operational stops.

### **Remote sensing**



Prodotel keeps providing solutions for remote sensing and meteorology being nowadays, the most specialized organization in the market with very important clients like:

Agencia Estatal de Meteorología, CSIC, The Basque Government, AtresMedia and various universities.



Prodotel also provides solutions for measuring atmospheric conditions using automatic weather stations (AWS)



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