



m&m ingenieros telecom

Corporate Dossier

M & M Ingenieros Telecom is a telecommunications company which provides engineering design solutions aimed at housing buildings, residential developments, leisure and entertainment estates and resorts.



Standardised design solutions meeting the minimum requirements defined whether by statute or on demand, covering customer needs, always above the minimum required by law.

Our customers demand reliability, quality, dedication and responsiveness. Thus we offer our customers rigorous enforcement of its requirements, allocating human resources to each project, technical and technology to get the most high degree of satisfaction.

M&M Ingenieros Telecom established in 2001 to fill a need in the emerging construction in Spain, telecommunications for the general public, and to facilities for the user in their immediate environment, at home, in your office, shopping center...

M&M Ingenieros Telecom is in continuous training process in order to incorporate the latest technology in their projects, studies and solutions to its customers.

Corporate Values

Our values support our daily work

Honesty

We work with integrity and honesty. We meet our commitments.

Commitment

Our staff is responsible and committed to work activities assigned, essential to the success of M&M Ingenieros.

Teamwork

We promote and share skills and knowledge of our staff to achieve the best results.

Creativity and innovation

We generate ideas that allow growth, enterprise development and satisfaction our customers.

Flexibility

We adjust to a constantly changing environment, both technological and customer requirements.

Our projects

Throughout our business life, in M & M Ingenieros we have designed and managed all kind of telecommunications projects. From the simplest, as a small group of houses, to real cities formed by more than 10,000 homes. Intelligent buildings for civil service offices. Shopping and leisure centers. We also work with the telecom operators in the design and / or adaptation of their fixed and mobile networks, wired and wireless.

In these basic projects, we have designed:

- Reception and distribution of television signals from aerial and satellite broadcasts.
- Access to land line telephone networks, building layout.
- Access to broadband networks, both ground and air, building layout.

In the singular projects we have carried out the design on request by the suggestions of our design department. In these projects we have added, in addition to our basic projects, the following:

- Video-surveillance and alarm systems.
- Access Control Systems.
- Structured Wired Network.
- Wireless networking, Internet, WI-FI, WIMAX
- Digital Home. Controls for brightness, temperature.....

Following is a brief description of some highlighting projects, most finished and running, others partially implemented and a few projected pending execution.



Our projects

Residential developments (resort)

Such developments, of which M & M Ingenieros has designed and directed seven telecommunications located in the province of Murcia, and one in the province of Alicante, are recreational developments - residential, are golf resorts, all featuring a golf course, houses of various types and categories (apartments, townhouses, terraced and villas), hotels, shopping and leisure.

Telecommunications services projected in such estates are:

- Centralized Access Control.
- Intrusion detection and surveillance, centralized control station.
- Control of automatic irrigation for individual parks.
- Cable TV to user.
- Voice and data to user access and layout.
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Designed technologies are diverse, but in all cases, the signal transport systems has been implemented using a hybrid of fiber optic and copper, fiber for long distances and copper for indoor building.

Each resort has its DPC (Data Processing Center), as the hub of centralized services. The DPC manages the signals of the various services, processing and transferring within the Resort. In the DPC staying headers and control systems, TV amplifiers, fiber transceivers, automatic telephone exchanges throughout the Resort, routers, switches and other distribution broadband devices. Along the CPD is a communications tower where the required antennas are installed



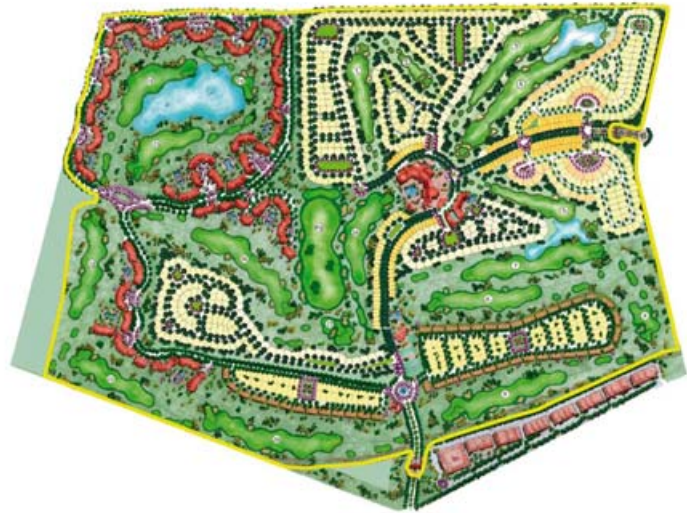
Our projects

Residential developments (resort)

Below are the eight resorts which M & M Ingenieros has been involved with the design of telecommunications:

Mar Menor Golf Resort

- 1.585.000 m²
- 2.484 houses
- 5 stars Hotel
- Town center
- Golf Course (18 holes)



MasterPlan

Terrazas de La Torre Golf Resort

- 1.985.000 m²
- 1.684 houses
(4350 full housing project)
- Town center
- Golf Course (18 holes)



MasterPlan

Hacienda Riquelme Golf Resort

- 2.014.000 m²
- 1.864 houses
- Town center
- Golf Course (18 holes)



MasterPlan

La Torre Golf Resort

- 1.475.000 m²
- 2.684 houses
- 5 stars Hotel
- Town center
- Golf Course (18 holes)
- British School



MasterPlan

Condado de Alhama Golf Resort

- 9.000.000 m²
- 3.265 houses
(25.000 full housing project)
- Town center
- Golf Course (18 holes)



MasterPlan

El Valle Golf Resort

- 1.125.000 m²
- 688 houses
- Town center
- Golf Course (18 holes)



MasterPlan

Roda Golf and Beach Resort

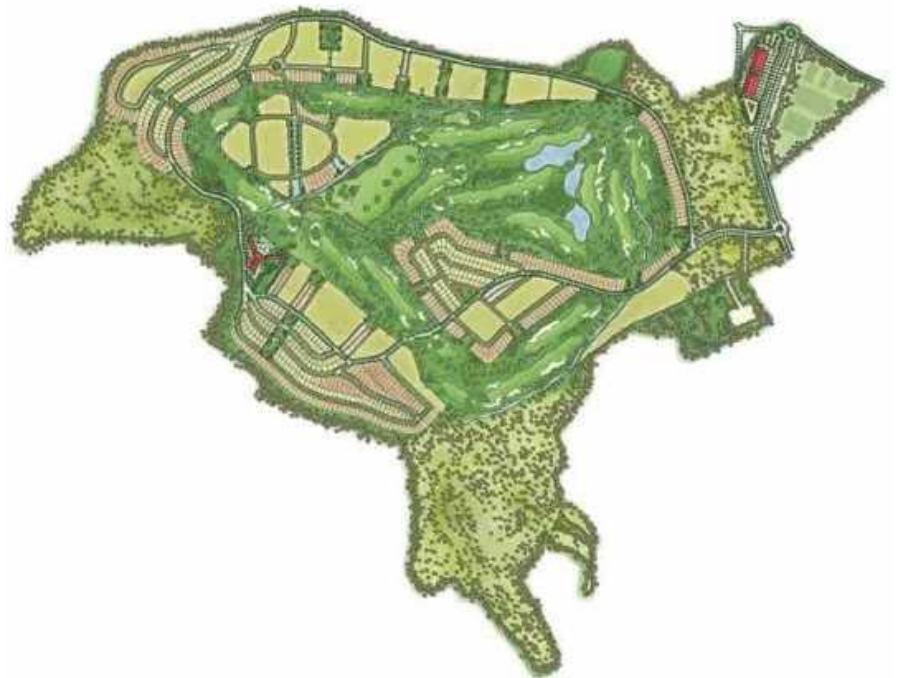
- 312.860 m²
- 1.814 houses
- Casa club
- Town center
- Golf Course (18 holes)



MasterPlan

Corvera Golf and Country Club Resort

- 1.500.419 m²
- 2.023 houses
- Casa club
- Town center
- Golf Course (18 holes)



MasterPlan



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