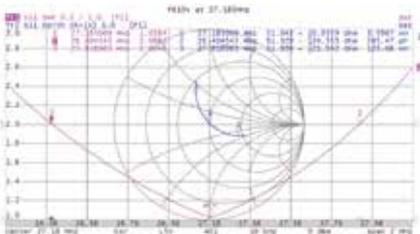


Grazioli FE10V is an extremely robust 5/8 antenna for amateur or professional use, which can be tuned from 26 to 30 MHz and is therefore able to cover the 10 or 11 m bands by whip length adjustment. Built with the best materials available today, the tubes are made in Italy on ours specification, precision drawn in aluminum alloy with Magnesium and Silicon AW6063-T66 and machined with latest generation LASER machines. The goal was to build a robust and performing antenna, with a low horizontal radiation angle, capable of withstanding 5kW CW continuous all-mode. The result is the Grazioli FE10V which, thanks to targeted technical and design choices, and intensive tests, embodies all these characteristics.

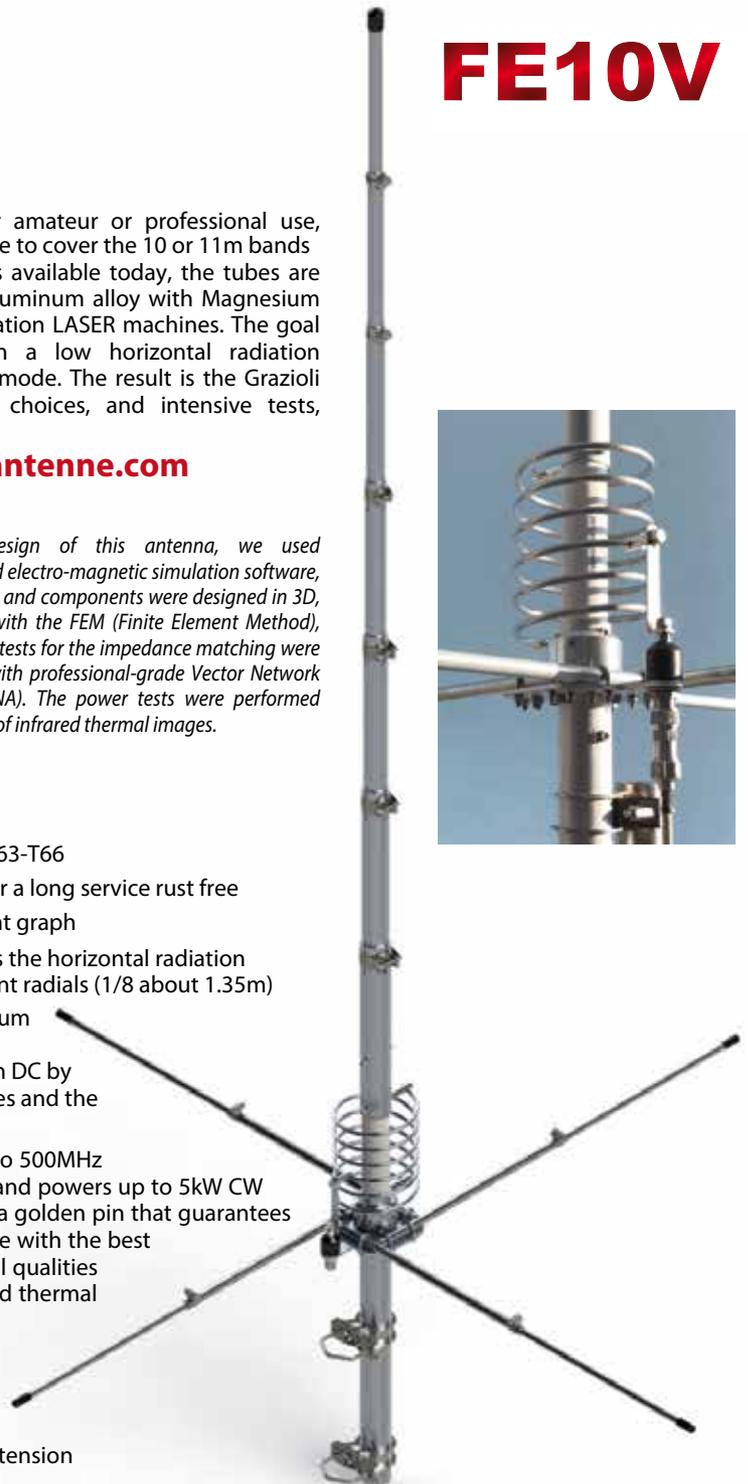
Further technical details on the site: [www.grazioliantenne.com](http://www.grazioliantenne.com)



*For the design of this antenna, we used sophisticated electro-magnetic simulation software, the structure and components were designed in 3D, and tested with the FEM (Finite Element Method), while the RF tests for the impedance matching were performed with professional-grade Vector Network Analyzer (VNA). The power tests were performed with the aid of infrared thermal images.*

**Main Features:**

- ◆ Extremely robust construction in aluminum alloy AW6063-T66
- ◆ Supplied with AISI 304 and 316 hardware and clamps for a long service rust free
- ◆ Tunable from 26 to 30 MHz with whip length adjustment graph
- ◆ The resonant "Full-Quarter Wave" Ground Plane reduces the horizontal radiation angle by 4 ° -5 ° compared to 5/8 with short non-resonant radials (1/8 about 1.35m)
- ◆ The high "Q" coil match the impedance with the maximum efficiency, guarantees high transmission power, (5kW CW continuous All-Mode) and is connected to ground in DC by reducing in a sensitive way the atmospheric disturbances and the impulsive noise.
- ◆ The UHF connector has been designed to function up to 500MHz has an impedance of 50 ohms and is capable to withstand powers up to 5kW CW continuous at 30MHz. Built in nickel-plated brass, with a golden pin that guarantees years of service without oxidation. The insulator is made with the best available insulating material the PTFE for its exceptional qualities electrical (low dielectric constant, and very low-loss) and thermal (operating temperature from -100 ° to + 260 °) is protected by a special elastomer gasket that avoids water and humidity filtrations.
- ◆ 100% produced in Italy with materials, workmanship and Italian engineering
- ◆ 3 Years WARRANTY, 2 years legal warranty +1 year of extension



**Electrical Data**

|                      |   |
|----------------------|---|
| Antenna type:        | 5/8λ GP with 4 full ¼ wave radials              |
| Frequency range:     | Tunable from 26 to 30 MHz (with Graph)          |
| Impedance:           | 50Ω Unbalanced                                  |
| Radiation type:      | Omnidirectional                                 |
| Polarization:        | Linear - Vertical                               |
| Gain:                | 1,5dBd - 3.65dBi                                |
| Bandwidth @ SWR 2:1: | ≥1.4MHz @ 26MHz to ≥1.6MHz @ 30MHz              |
| SWR @ resonance:     | ≤1.2:1 @ antenna connector                      |
| Max. Input Power:    | 5000 Watts continuous all mode                  |
| Feed system:         | high "Q" air wound matching coil, DC-Ground     |
| Input connector:     | 50Ω UHF female, PTFE insulator, gold plated pin |

**Mechanical Data**

|                              |  |
|------------------------------|--|
| Construction materials:      | Aluminum Alloy AW6063-T66 hard drawn tube, Fiberglass, Brass, PTFE, all hardware are made of SS AISI-304 and 316 |
| Wind surface area:           | 0,29m² / 3,2ft²  |
| Wind load @ 130Km/h / 80Mph: | 280N - 28,5Kgf / 63 lbs  |
| Wind survival (no ice):      | 130 Km/h / 80 MPH  |
| Antenna height (total):      | 7.63m / 25 ft @ 26MHz  |
| Radials length:              | full quarter wave 2,7m / 8,86 ft   |
| Mounting mast bracket:       | ø 40-54 mm / ø 1,57" to 2-1/8"   |
| Antenna Net weight:          | 6 Kg / 13,2 lb   |
| Package dimensions:          | 14x14x145 cm / 5,5"x5,5"x57,1"   |