



Aerial Oy in brief

- Aerial Oy is a private Finnish company which designs and manufactures antenna and mast products and provides related services.
- Facilities in Järvenpää, around 40 km from Helsinki city centre and 25 km from Helsinki-Vantaa airport. Factory production covers an area of 3200 m². Aerial Oy Kesälahti Works in Kesälahti, near Kitee, having production area of 1500 m².
- Founded in 1969 to meet the expanding needs of Scandinavian telecommunication industry. Today Aerial Oy has customers and partnership projects all over the world. The main market still being the Northern Europe.
- We ensure fast deliveries by Aerial stocking most of the standard antenna and mast products listed in the product catalogue, including related mounting accessories and other site material.
- We specialize in making customer specific solutions within reasonable time scale, ensuring during the process that the customer ideas and expectations are foreseen in full. We are especially skilled in doing antenna and mast products and solutions to hard environments, for instance to Greenland.
- Annual turnover is around €8 million (EUR) and there are 35 employees altogether.
- Aerial Oy Kesälahti Works (until 30.08.2016 Parelco Oy) that specializes in manufacturing mast and other steel and aluminium structures.
- Aerial Oy and Aerial Oy Kesälahti Works are both ISO9001 and EN1090 certified.
- Customer references: Nokia, Ericsson, Siemens, Teliasonera, Finnet, Radiolinja, DNA, Finnish defence forces, Vaisala, Comtech Inc., EADS, Tadiran, Raytheon, and Finnish aviation authority. Altogether more than 2500 customers worldwide.
- For additional information, updates and the latest news please visit www.aerial.fi.



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Aerial Oy expertise in brief

- Antennas and antenna products, design, manufacturing and services:
 - Antennas, antenna arrays and passive antenna line components for permanent, non-permanent and/or tactical use for all frequencies/frequency ranges, power ranges and applications.
 - Main materials aluminium alloys and different steels, but also experience of structures made of other conducting, non-conducting and dielectric materials.
 - Virtually no structural size, height, cross section, weight, material, shape or environmental condition limitations.
 - Services related to antennas: Antenna installations, antenna and antenna array/group design, analysis and simulations (simulation tools using PO, GTD and MOM), antenna network parameter and far field radiation pattern measurements, consultation related to all above in general.
- Masts and installation hardware, design, manufacturing and services:
 - Self-supporting, guyed and tube mast, antenna poles and light aluminium masts, roof top solutions, structures for permanent, non-permanent and tactical use for all applications.
 - Brackets, clamps, outriggers, assembly profiles and bars, wall mounts, tube and antenna mounting sets for any profile and cross section.
 - CE approved aluminium safety rail system with safety cart.
 - Main materials aluminium alloys and different steels, but also experience of structures made of other conducting, non-conducting and dielectric materials.
 - Virtually no structural size, height, cross section, weight, material, shape or environmental condition limitations.
 - Mast and installation hardware services: Mast work and construction including but not limited to foundation, road, site hunting etc. work, design of masts and other structures (design tools using FEA, static stress and linear dynamics, mechanical event simulation, fatigue and material analysis), consultation related to all above in general.
- Radomes and weather covers, design, manufacturing and services:
 - Structures made of solid and cloth-like dielectric materials, covering either only antenna/aperture or the whole structure fully or partly including for instance antenna pedestal and mast/supporting structure. Self-supporting or guyed radomes as stand-alone units or to a top of a mast. Weather covers around or beside of a mast.
 - Main materials single, multilayer or honeycomb glass fiber, ABS, in cloth like structures mainly PVC and Teflon-cloth.
 - Virtually no structural size, height, cross section, weight, material, shape or environmental condition limitations.
 - Antenna radomes and antenna covers services: Radome construction including but not limited to related steel and aluminium structures (pedestals and/or other supporting structures), design of radomes and antenna covers (design tools using FEA, static stress and linear dynamics, mechanical event simulation, fatigue and material analysis), related RF-measurements, consultation related to all above in general.
- Other aluminum, steel and stainless steel structures:
 - Aluminum structures:
 - Main materials: Tubes, profiles and sheet metals. Material specifications (quality, condition and alloy) according to requirements.
 - Processes: Cutting, sawing, perforating, drilling, bending, welding MIG and TIG.
 - Execution classes: Up to EN1090 EXC2-class (with mechanical joints).
 - Virtually no structural size, height, cross section, weight, material, shape or environmental condition limitations.
 - All repair work related to above.
 - Steel Structures:
 - Main materials: Steel S235-S420 MC tubes, profiles and sheet metal. Also other steel grades as required.
 - Processes: Cutting, sawing, perforating, drilling, bending, welding MAG and TIG.
 - Execution classes: Up to EN1090 EXC3-class.
 - Virtually no structural size, height, cross section, weight, material, shape or environmental condition limitations.
 - All repair work related to above.
 - Stainless steel:
 - As steel structures above, but not according to EN1090.
- Aerial Oy represents and resells Draka and Draka Mobile Networks cables and accessories (for complete product listing please see www.draka.com or www.prysmiangroup.com).
- Aerial Oy also stocks and resells other parts and components needed in providing the above products and services.





Aerial Oy products in Greenland...



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...in Bahamas...



...in North Africa...