



Loading and unloading area of the SAT vertical coating system for aluminium profiles manufactured by Everest.



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# Everest: Reasons and Advantages of Switching from a Horizontal to a Vertical Coating Line

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Increased productivity and maximum operational flexibility: if these are the objectives of investing in a coating line to treat aluminium profiles for industry and architecture, the choice of a vertical plant is a winner. If the vertical system concept is integrated with a state-of-the-art application booth that saves powder and provides excellent surface coverage, then the optimum in aluminium finishing is achieved. This is what happened at Everest, an Albanian company that extrudes and finishes aluminium profiles for various applications, which relied on SAT's technology and expertise for a new coating line.



Everest is a company based in Kamëz (Tirana, Albania) that designs, manufactures, and markets aluminium profiles for windows, doors, façades, and other architectural applications. Through the synergy of excellent quality, competitive prices, and a focus on continuous improvement, Everest serves architectural firms, construction companies, aluminium system manufacturers, and end consumers by always providing them with ideal solutions.

In Albania and the entire Balkan area, Everest holds a leading position in the aluminium market and it now aims at becoming an increasingly important player in the European as well as the global market.

**Building excellence since 1997**

Everest began its activity in 1997. Initially active in the civil and industrial construction sector, in 2000 it started selling aluminium profiles. In 2005, it installed its first profile extrusion press and a horizontal coating line. 2010 was a crucial year for Everest in terms of positioning in the domestic and foreign markets, as it decided to invest in new, more efficient systems for architecture. In the

years that followed, Everest allocated an increasingly large budget to improve its technological equipment, thus raising its production capacity and product quality in order to obtain certifications from the most prestigious international bodies. These choices have brought numerous unquestionable advantages, and in just a few years Everest has positioned itself in an increasingly broader market alongside European giants with a decades-long tradition in the sector.

It started exporting to the Balkans, Europe, the USA, Canada, South America, and Africa; to date, it exports to more than 30 countries worldwide. In 2016, the automotive sector was also added to the company's market share. Also in this case, new investments were needed to improve both the company's technological level and production capacity. In 2018, it implemented a foundry department and, in 2021, it started up a vertical coating plant designed, supplied, and installed by SAT (Verona, Italy).

For several years now, the company's mission has been to offer high quality products and services on the market while maintaining highly competitive prices. At the same time, its vision is to continue on the



**Loading area.**



**Pre-treatment tunnel.**



path towards ever-higher quality standards, in order to increasingly take a leading position in the market.

**From a horizontal to a vertical coating line: the reasons for this investment**

After using a horizontal line for more than ten years, Everest felt the need to find a plant solution that would give it greater production flexibility. Indeed, a vertical system can coat any type of extruded profile, without the need for hanging hooks and special supports. Another important objective was productivity: a vertical line has a much higher production capacity than a horizontal one and it requires fewer operators; in addition, production can be further increased with minor plant modifications, without totally revolutionising the system. Finally, Everest needed a higher coating

quality degree, especially in terms of layer uniformity. As one of the world's leading designers and suppliers of vertical coating systems for aluminium profiles, SAT was able to provide Everest with all of this.

**The supplied line**

SAT offered a state-of-the-art coating line capable of working at a speed of 1.5 metres per minute with an output of 1,5 tons per hour considering 10 colour changes per shift.

Thanks to its special layout with guns facing each other, the use of this booth has brought a very important advantage: powder consumption has been significantly reduced.

As for the electrostatic equipment, Everest received significant support from Gema, thanks to the acquisition of SAT by the Swiss



**V-shaped booth.**



**Coated profiles exiting the curing oven.**



company in 2018 and the consequent belonging to the same group. In particular, it was provided with an OptiCenter OC04 powder management unit, equipped with 16 OptiGun GA03 automatic guns featuring G07 injectors.

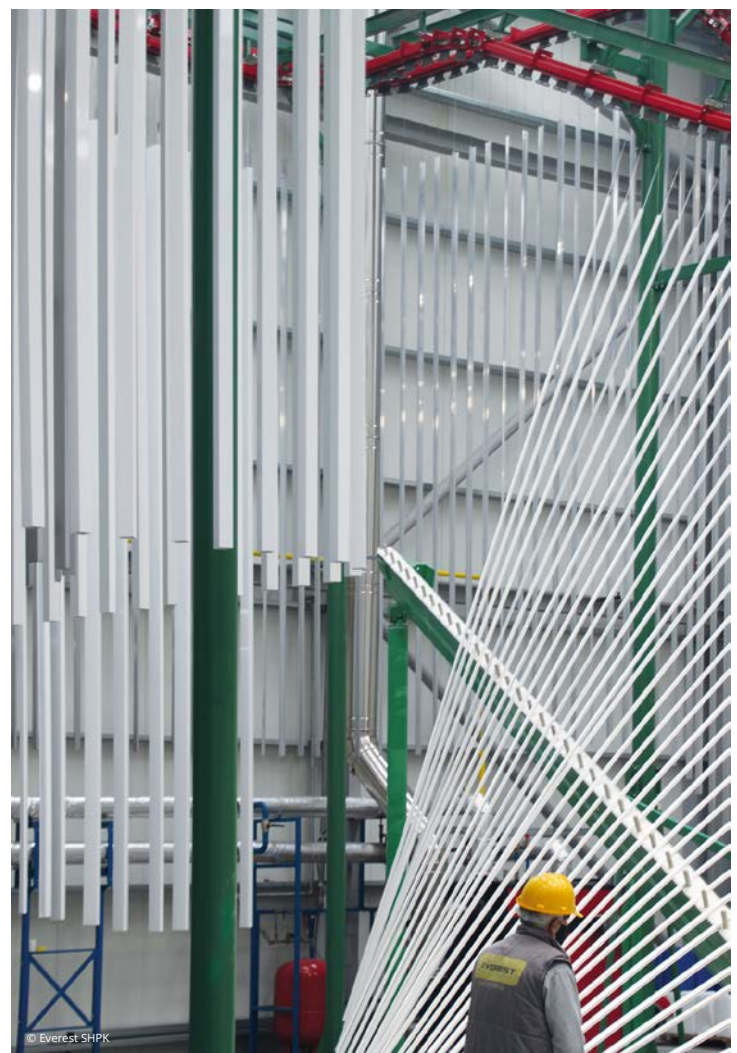
**The advantages gained**

The acquisition of this new, advanced technological solution has enabled Everest to significantly improve the production capacity of its Tirana plant. However, the most important benefits obtained have been undoubtedly the higher quality of its end products and a reduction in overall operating costs, thanks to lower consumption of chemicals and powders. In this way, Everest has achieved one of the goals of its vision, namely to take better care of the planet by using a totally environmentally friendly coating solution. Finally, thanks

to the extreme flexibility of its line, Everest is now able to meet the needs of all its customers, offering an excellent service in short times. “SAT was readily willing to understand Everest’s needs and create a customised solution,” states SAT CEO Andrea Trevisan. “We developed the entire line together and we followed Everest step by step through the design, assembly, and commissioning process.” A couple of months after the plant went into operation, Everest is very pleased with the route it has taken and the choice it has made. With regard to the possible future developments of its finishing department, the company plans to invest very soon in the powder-on-powder (Ezy) coating technology to produce aluminium profiles with a wood effect and an in-line brushing machine. ●



**Heating system.**



**Coated profiles unloading.**