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## PA TurboFans

From the design to the installation of high-efficiency TurboFans, aimed at saving energy and reducing plant management costs.

## Why i choose a TurboFan

**Turbofans** are rotating machines with mixed geometry impeller that replace the industrial fans of known construction and are located between the operating range of the latter and that of the compressors.

Their usage allows to guarantee higher yields compared to traditional fans but with lower dimensions and thanks to their geometry, also the mechanic resistance turns out to be 4 times higher regarding the impellers of known construction.



*TurboFan PA 02 400 6000 rpm Valsider*



*Entrance TurboFan PA 02 580*

## Comparison between TurboFan and impeller known

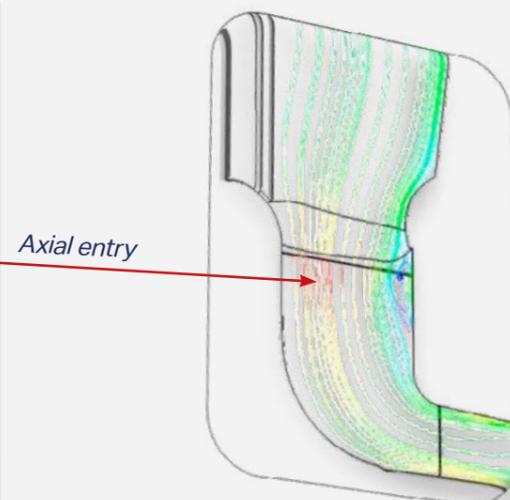
In general, to guarantee the high pressures required by the system, fans with radial or backward curved blades are almost always used. These types of impellers have limits based on the working environment (which can be dusty, corrosive, etc.) and about their performance.

**TurboFans** have a different type of blades. They have an axial extension that conveys the flow from axial to radial, recovering pressure and decreasing the absorbed power. These impellers have lower limits than the working environment and their performance is much higher.

*Impeller of known construction*



*Turboimpeller PA 01 610 R*



## TurboFan applications

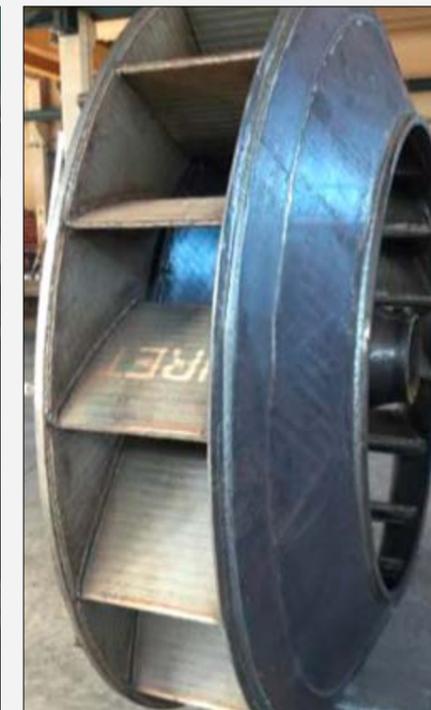
Thanks to the flexibility in their design, the TurboFans find application in multiple systems:

- Food industry (MVR, desulfurizers, dairy, ...)
- Cement
- Iron and steel (steelworks, ...)
- Chemical, Oil & Gas
- Energy (Bio Filters)

*Ecologic - A2A Cavaglià Energy*



*Iron and steel - ABS steelworks  
Diameter 2540 mm*



*Cement factory - Buzzi Unicem Robilante  
Diameter 2260 mm*

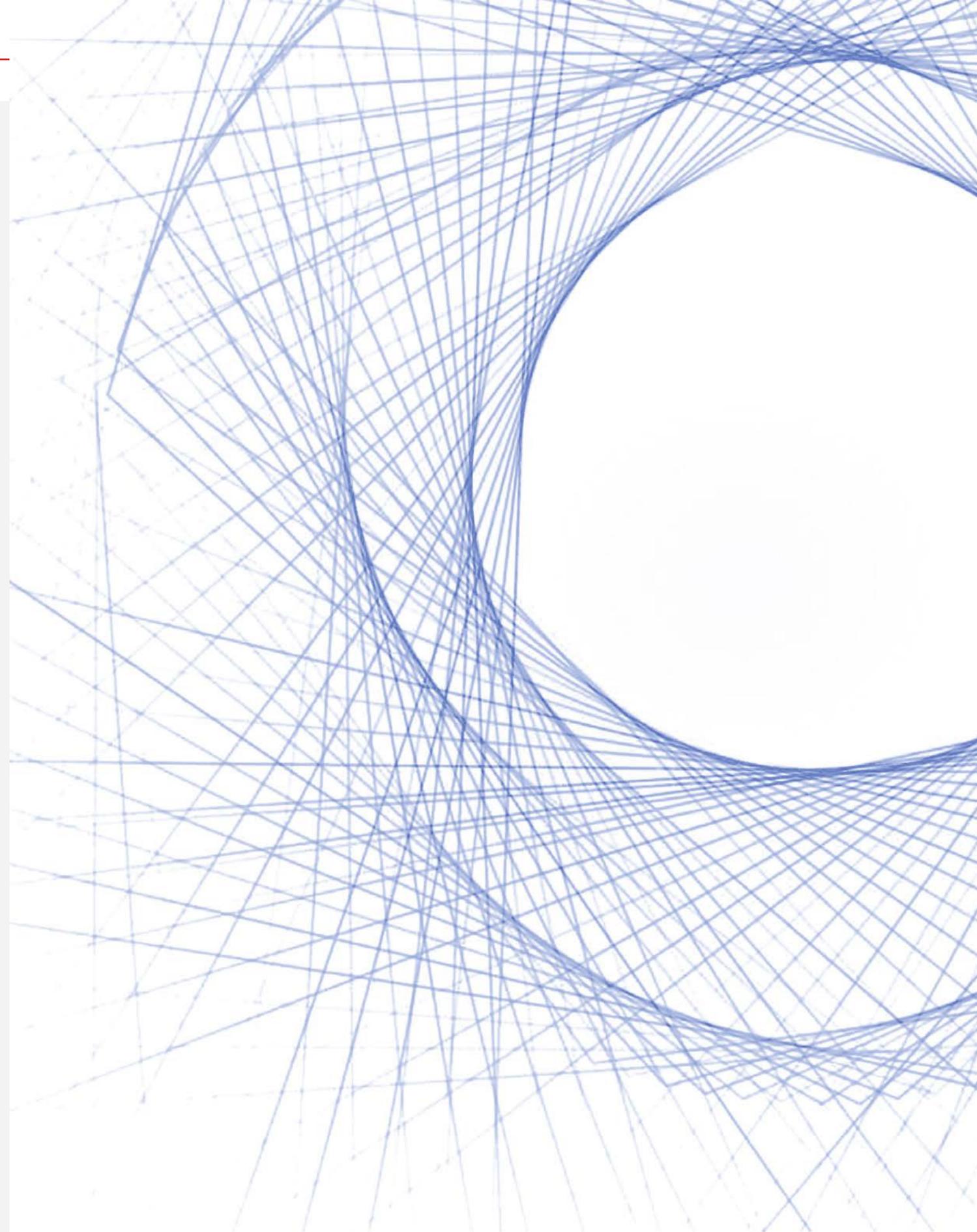
## Heavy-duty installations

- The new geometries studied and applied in the realization of the blades and cones, allow our Turbofans to work very well in dusty and abrasive environments.
- The experience gained during this last decade has allowed us to reduce drastically those dust residues that, otherwise, would accumulate on the blades causing their unbalance with a consequent decrease in performance; but not only: the correct distribution of the fluid considerably reduces the abrasion of the blades and discs and related maintenance costs.

*Impeller of known construction*



*New Turboimpeller with radial blades*





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