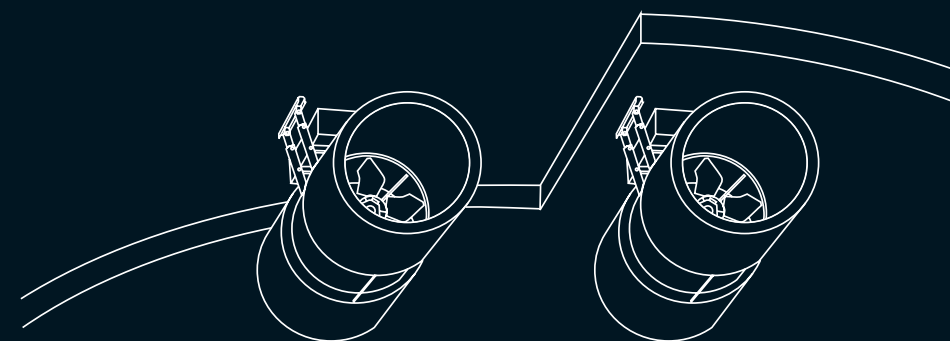
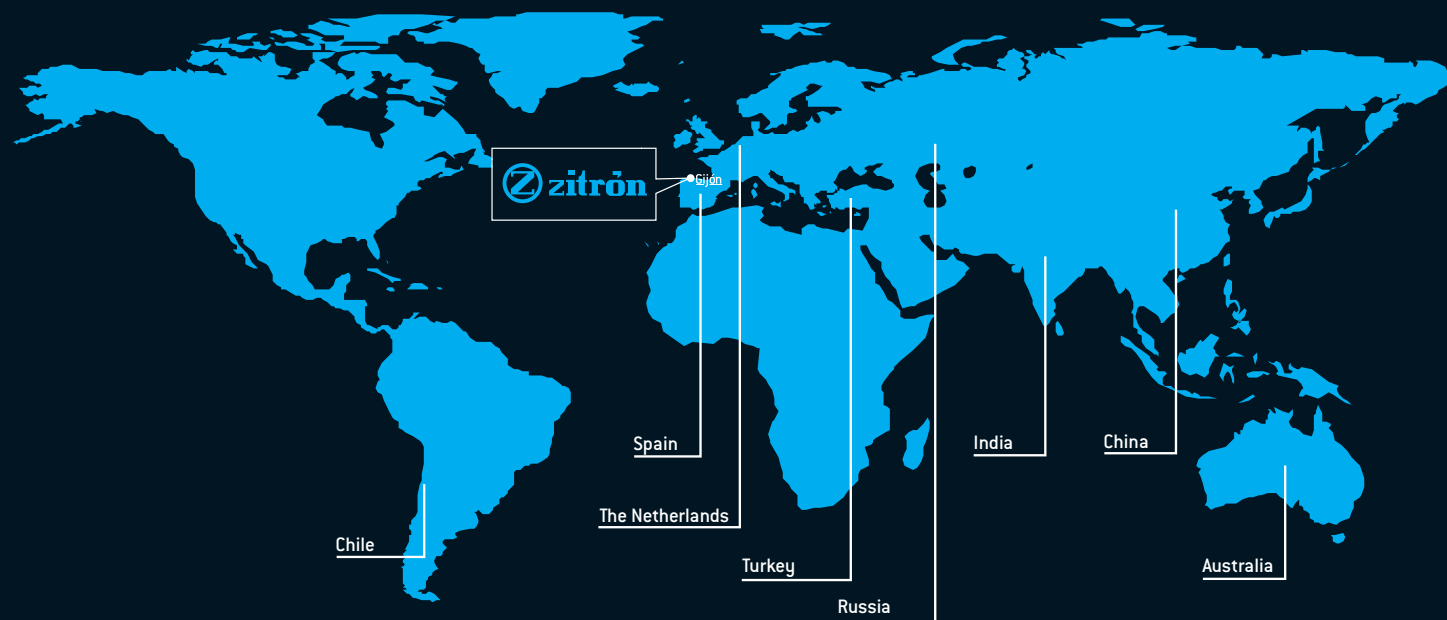


ELECTRONIC FAN  
**JZie - JZRie**  
**JZe - JZRe**  
 New generation fans



The main national and European safety regulations and directives in terms of tunnels of over 1000 m require the installation of ventilation systems.

For shorter tunnels, the requirements are verified depending on the results of studies based on the characteristics of each gallery, such as the section, the perimeter, the slope, traffic volume, etc. [European Directive 2004/54/EC, Legislative Decree nº 264/2006]



All the new generation ZITRON fans have fire resistance certifications in accordance with standard EN-12101-3



**THE ZITRON NETWORK – A GLOBAL NETWORK OF LOCAL EXPERTS**

Our international outreach has led us to establish a stable presence beyond our borders.

We have our own branches in places as far apart and remote as India, Australia, the Netherlands, Turkey, Chile and China. We operate in these countries directly and maintain the same capacity and quality in our products, as well as an efficient and real-time service through our 40 exclusive distributors worldwide.

For more information, please contact our headquarters.

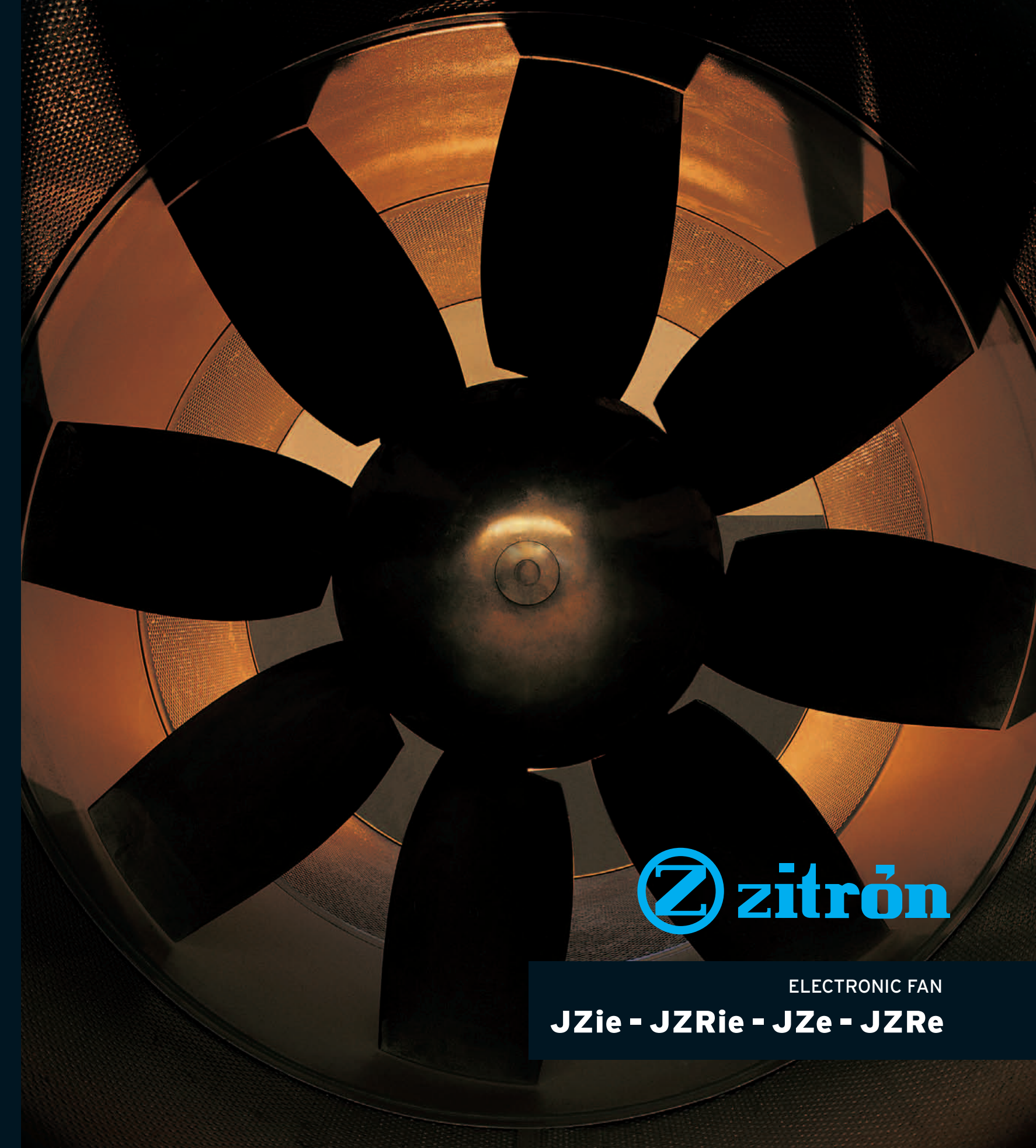


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ELECTRONIC FAN  
**JZie - JZRie - JZe - JZRe**





[Upper image] JZRie View 1.  
View of the fan and the electronic module located inside a fire resistant box installed on the fan support system on the tunnel ceiling.

>> The electronic fan unit is equipped with a variable speed drive and a by-pass that allows a direct start-up of the machine in emergency mode.



1

1\_ Impeller detail.  
2\_ Three-dimensional support system and electronic module.



2

3\_ Radial fixing system of motor.  
4\_ Installation inside the tunnel.



3



4

## ADVANTAGES

- \_ Reduction in absorbed power.
- \_ Reduction of starting current.
- \_ Reduction of nominal current rating.
- \_ Increased power factor.
- \_ Reduction of harmonics in the power line.
- \_ Significant reduction of sound pressure level and optimization of sound level.
- \_ Airflow on demand by variable speed.
- \_ Reduced braking and reversal time.
- \_ Time and cost reduction of the installation in the tunnel.
- \_ Reduced power consumption.

>> Thanks to its three-dimensional suspension system, the **JZie / JZR ie / JZe / JZRe** fan adapts to all types of sections and installations.



[Upper image] JZRie View 2.  
Electronic fan.