



ORANGE1  
HOLDING

# Industrial Ventilation - HVAC

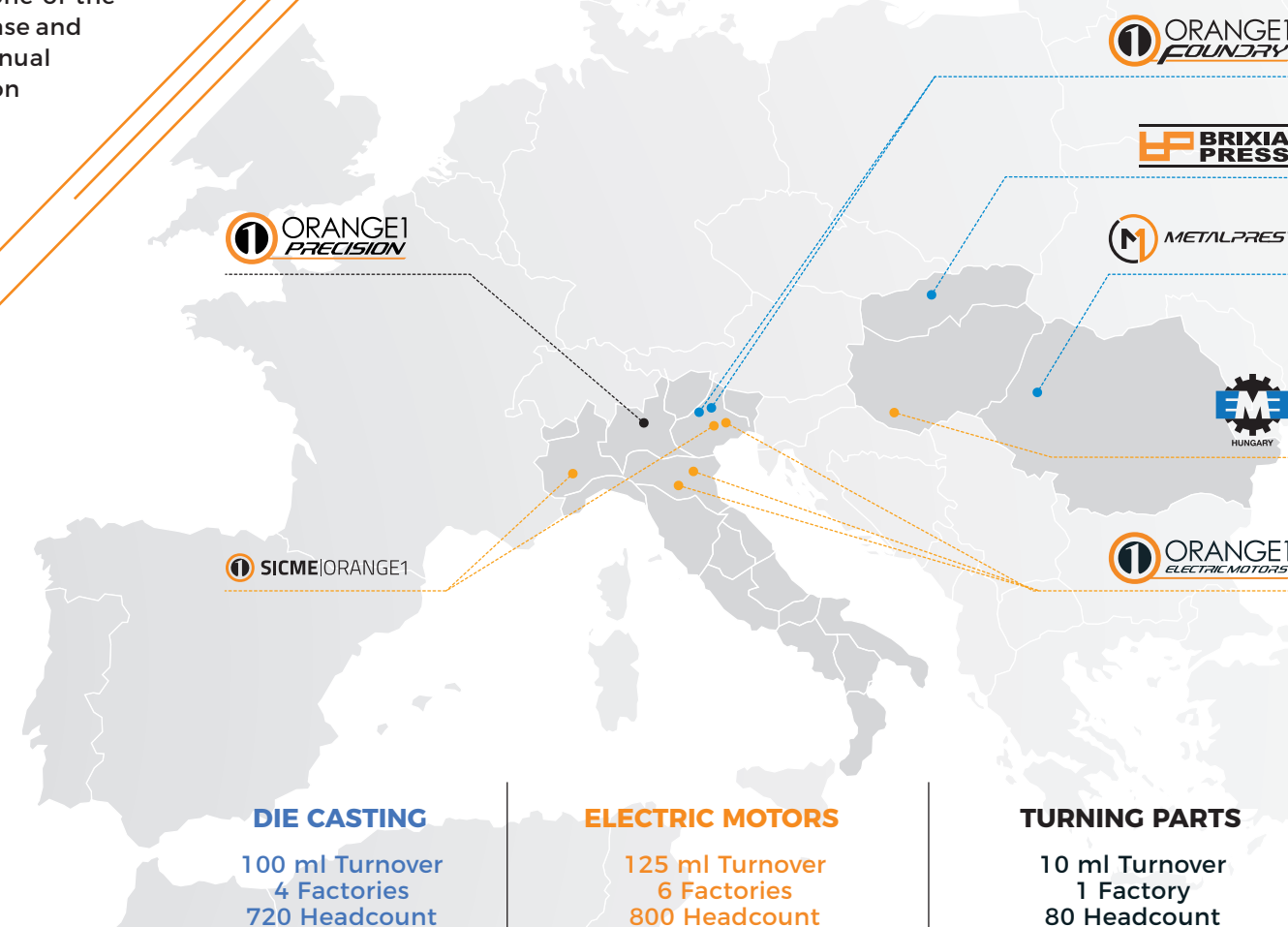
Orange1 Electric Motors

Betreten  
verboten  
Lebensgefahr!

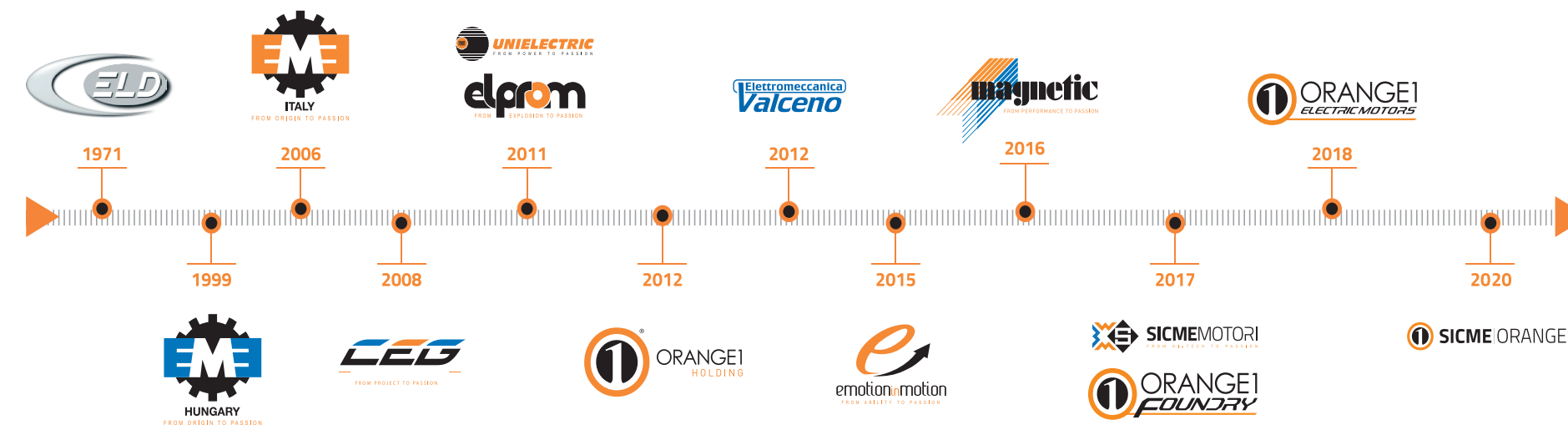


## A dynamic, strong and ambitious Group

Orange1 Holding is an international renown Group, one of the most important European manufacturers of single-phase and three-phase asynchronous electric motors. It has an annual capacity of more than 1 million motors and 5 million electric stators with an annual turnover of approx 235 million euro and more than 1600 workers in 15 production facilities. The group, established in 1971 by Leone Donazzan, chaired today by his son Armando Donazzan, is strongly focused on technological innovation, performance and customization to meet individual clients requirements.



The aim of O1EM is to manufacture custom made motors to meet clients and market expectations. The actual production covers a large range of AC and DC motors, as well as brushless motors and Variable Frequency Drives, to provide total solution. This know how in supplying products to the Textile markets makes O1EM reliable and skilled for the ideal motor settings to secure long terms performances in heavy environment conditions.



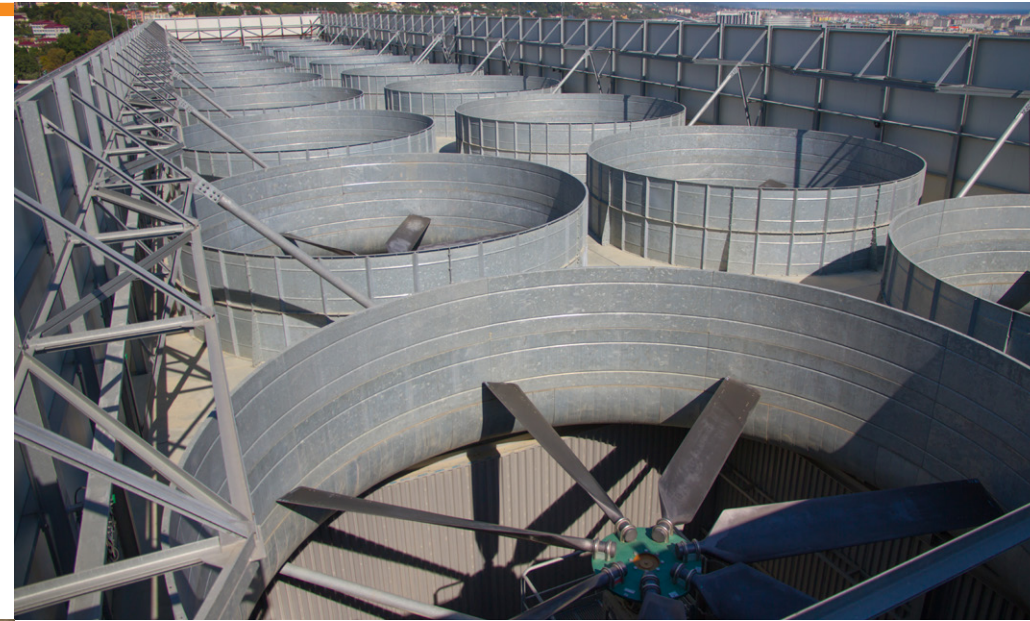


# Main applications in the Industrial Ventilation

covered by Orange1 electric motors

## Industrial Fans Motors

Industrial fans and blowers are machines whose primary function is to provide and accommodate a large flow of air or gas to various parts of a building or other structures. This is achieved by rotating a number of blades, connected to a hub and shaft, and driven by an electric motors. The inverter drive is another important part in this application as it allows full control of the speed and power of the motors.



## Poultry Motors

For poultry houses, the best results are obtained by keeping the temperature constant at an optimal level for livestock, which can change during the production cycle. In a poultry house equipped with controlled fans is possible to prevent the temperature from reaching levels that could reduce the productivity. Orange1 deliver a special range of high quality and durable electric motors for this application,



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## Commercial and Public Buildings Ventilation

Air conditioning, conditioning and air purification are integral parts of buildings with commercial and industrial activities. In this application can be used various type of electric motors: 2, 4 and 6 pole. Thanks to the internal technical laboratories Orange1 can provide the best solution according to customer's requirements in term of performances for and efficiency. Especially regarding efficiency Orange1 is able to produce customized solutions in IE3 and IE4 class. For outdoor installation we can provide Electric Motors with protection degrees up to IP66, to ensure the best duration over time.



## Coolers and Heating Motors

Heat exchangers are used in both cooling and heating processes, and they're widely used in space heating, refrigeration, air conditioning, power stations, chemical plants, petrochemical plants, petroleum refineries, natural-gas processing, and sewage treatment. Orange1 has developed a wide range of asynchronus motors of high quality and performances specific for pumps, heat exchangers and coolers.





# Main applications in the Industrial Ventilation

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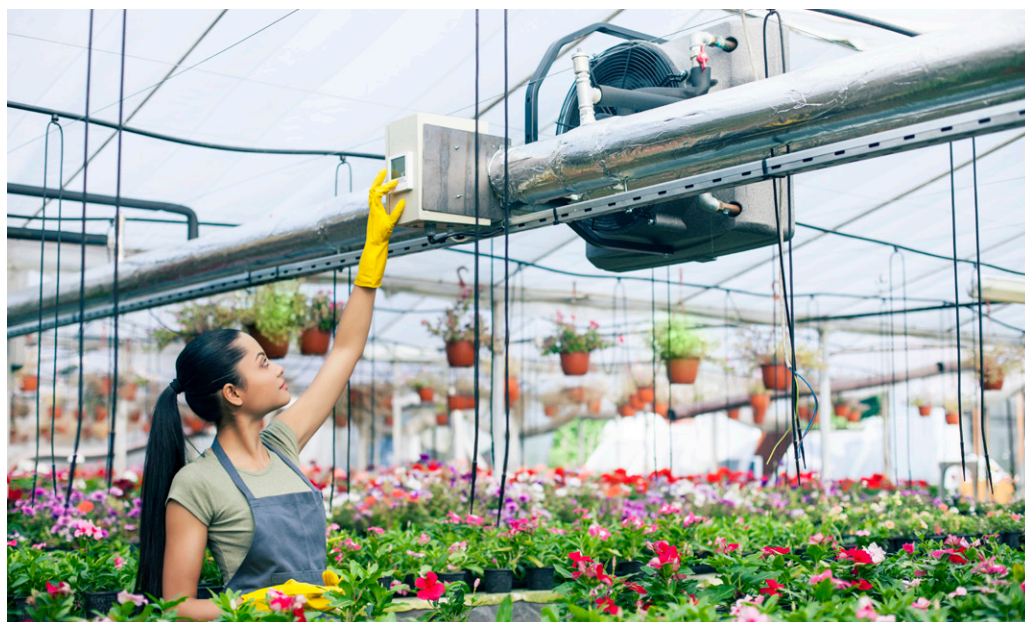
## Agriculture Ventilation Motors

For a business that involves livestock or cattle, air quality is extremely important to maintain the health and comfort of your animals as well as the profitability of your business. Orange1 electric motors combined with inverters are created to reach an optimal environment inside your shed and to guarantee the best performance and duration over time in the agricultural ventilation applications.



## Green Houses Ventilation Motors

In Green Houses applications electric motors are mainly used for "Active ventilation". This process consistin the use of equipment to force air into or out of the structure. Fans are the key method of actively venting a greenhouse. Fans can also be fitted in greenhouses to move or circulate air within the greenhouse. Circulating fans are often used inside passively ventilated structures to assist air movement when venting is minimal.

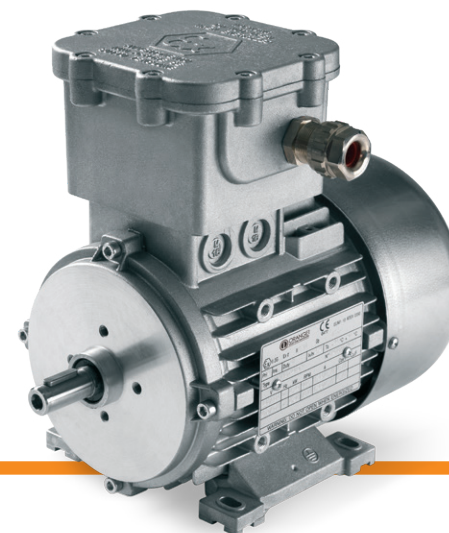
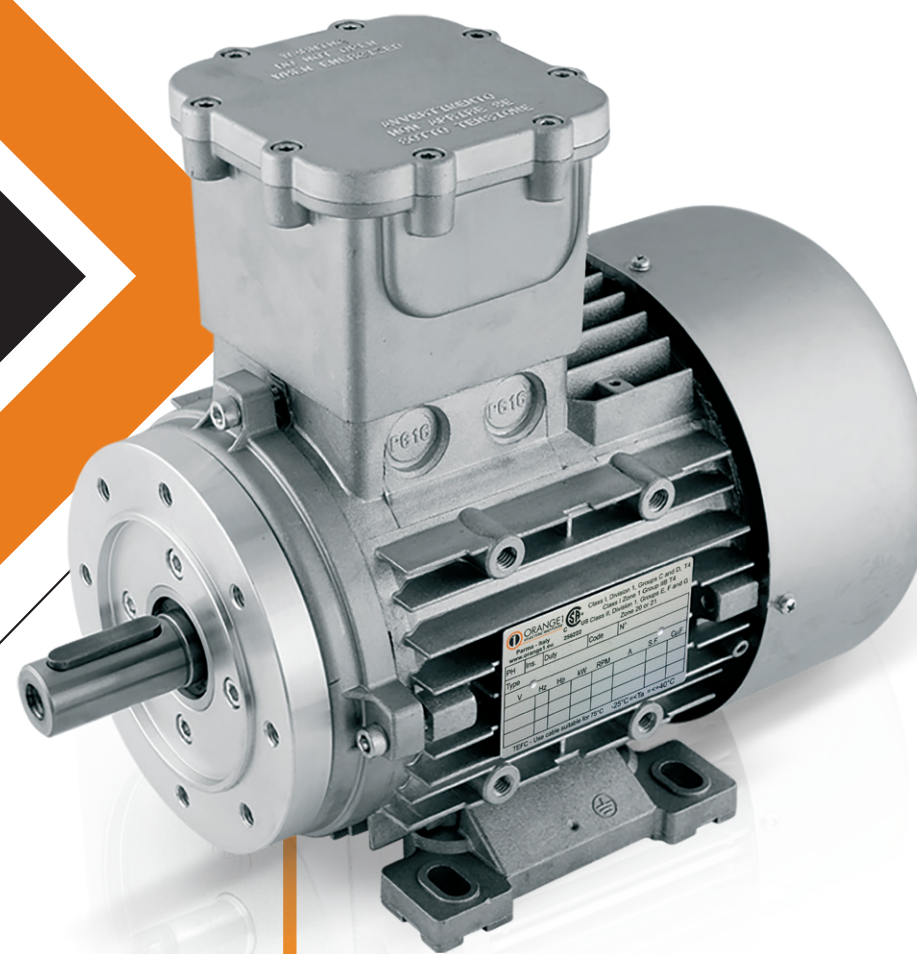


# Electric Motors Production

for Industrial Ventilation Applications

## ATEX MOTORS Explosion Proof Ex d series

Orange1 Electric Motors created a specific range of motors for the industrial ventilation with special certifications for every requirements in indoor and outdoor use. We can also provide custom solutions in order to satisfy every specific customer need. Thanks to our technical departament and our internal testing lab for every type of electric motors we can guarantee the best performance and duration also in hazardous condition.



Class I Div 1  
Class II Div 1





# Electric Motors Production

for Industrial Ventilation Applications

## RELUCTANCE MOTORS IE4 efficiency of Orange1 motor allows:

- Use of strong components as in the case of asynchronous motors
- Silent operation thanks to the geometry of the rotor laminations
- Reduced losses associated with the speed control system
- Easy maintenance thanks to the absence of magnets

### SR2Ca motors

These motors are assembled using standard IEC 60072 mechanical parts, in order to guarantee 100% compatibility in case of retro-fitting. The highly innovative active parts, synchronous reluctance, are designed to ensure the best efficiency, above all in terms at partial load conditions, in order to guarantee to the customer a quick payback when these drives are selected to replace standard induction solutions. Other important features are the synchronous speeds, important to have very precise speed regulation and a lower inertia, due to the fact that the rotor winding or cage are missing.

## MORE THAN 10 YEARS OF EXPERIENCE

IN HIGH EFFICIENCY RELUCTANCE MOTORS PRODUCTION!

HIGHER  
EFFICIENCY  
=  
ENERGY  
SAVING

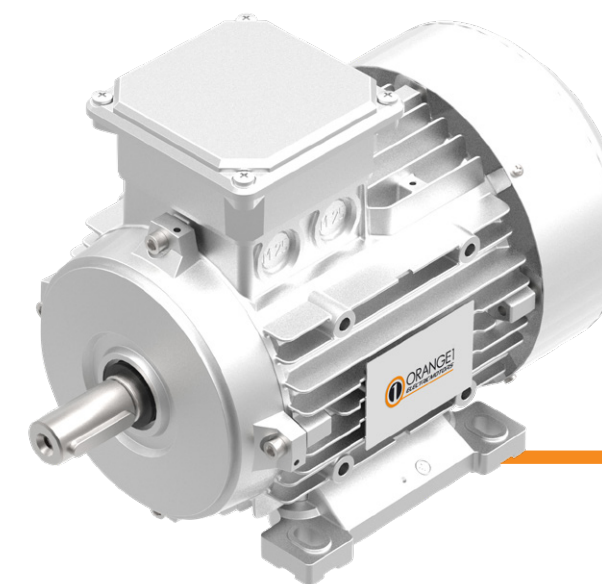


# Electric Motors Production

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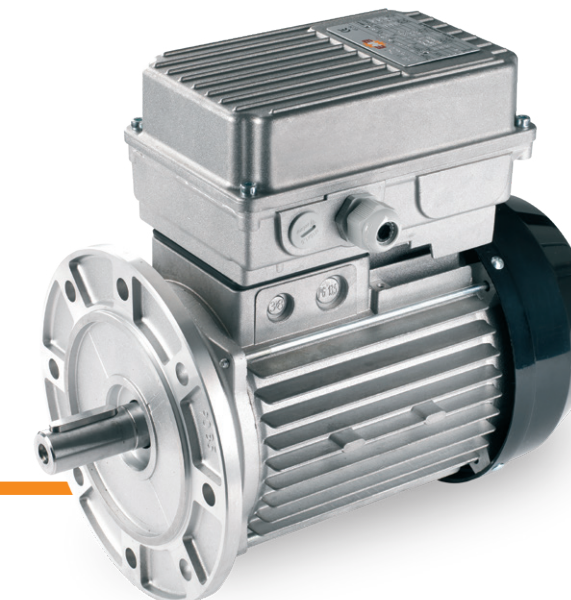
## Three-Phase Asynchronous Motors

One speed or two speeds three phase motors manufactured in accordance with different specifications requested by the clients. Available in 2-4-6-8 pole from 0,09 kW up to 30 kW, in aluminum housing IEC 56 up to IEC 180. UL/CSA approval available on demand.



## Inverter for Electric Motors

The Inverter technology allows to control the voltage, current and frequency of the three-phase AC motors. The advantages to apply the inverter on these applications are mainly for energy savings. The inverter allows to apply a unique motor in the optimized way by control algorithms and the motor runs on the best work point.





# WHY CHOOSING ORANGE1 PREMIUM SOLUTIONS

IN INDUSTRIAL VENTILATION

 **MADE IN ITALY GUARANTEED**

 **HIGH LEVEL OF CUSTOMIZATION**

 **RELIABILITY & DURABILITY**

 **QUALITY**

 **100% TESTED**



## After sales, replacement & service

Orange1 Quality and Technical Team, together with a dedicated internal department, offers a full service system able to satisfy any specific request into electric motor maintenance. Orange1 Service can provide an innovative diagnostic tools for electrical testing and analysis to pinpoint immediately specific motor issues, and can provide a service of reparation for motors.





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