



ORANGE1  
HOLDING

# Cleaning Machines

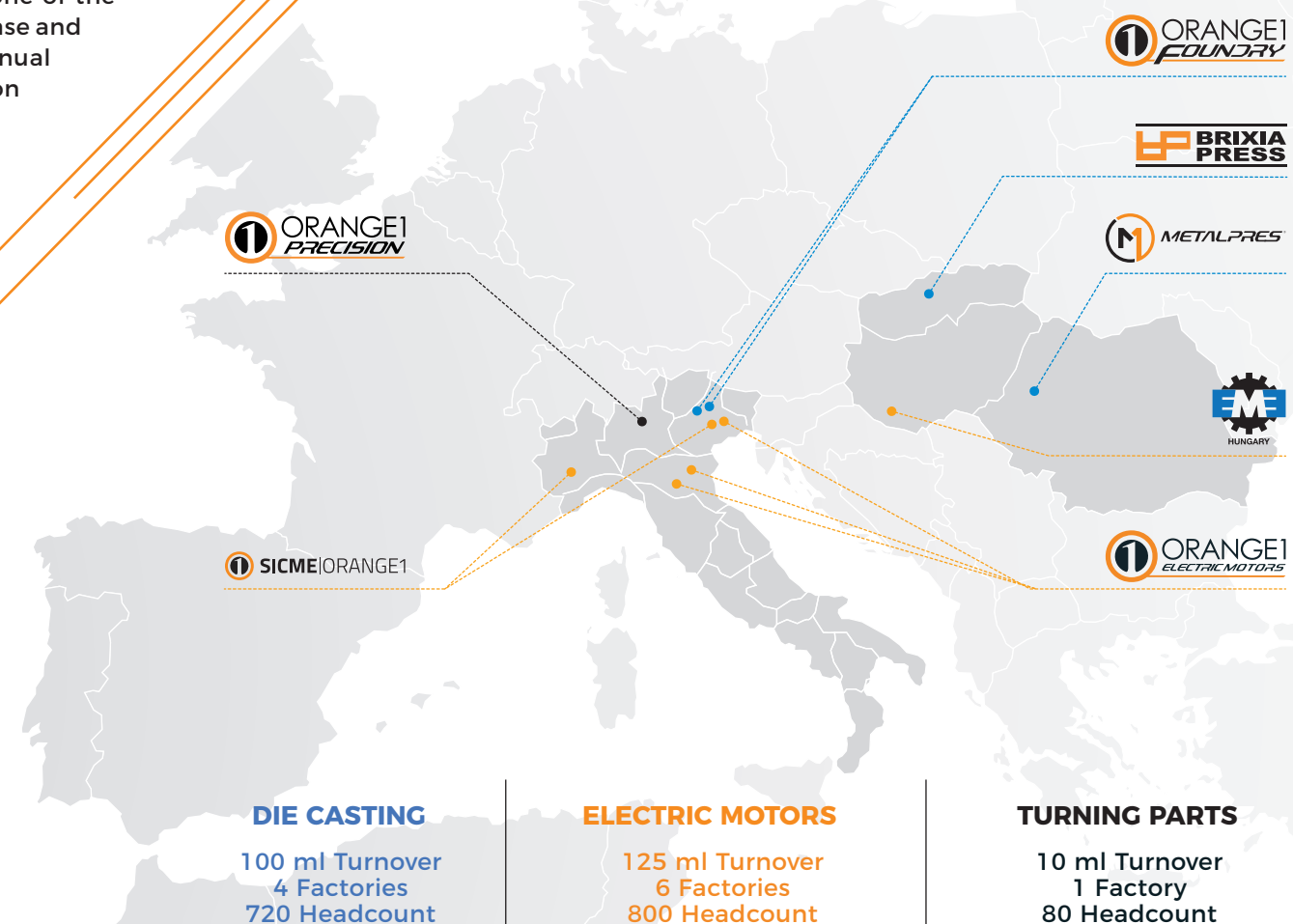
Orange1 Electric Motors



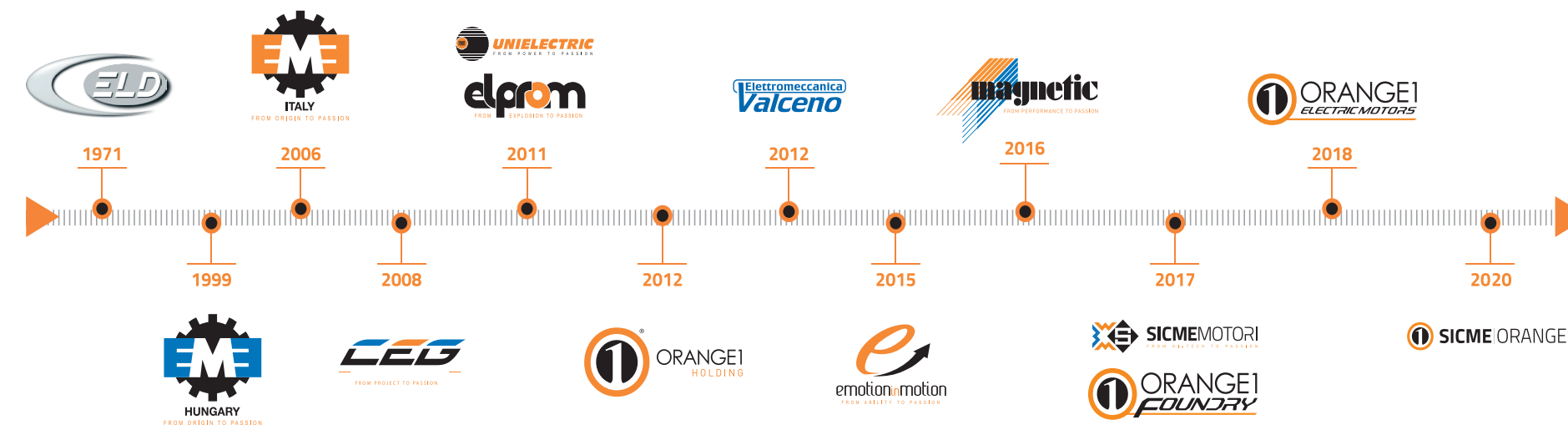


## A dynamic, strong and ambitious Group

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 cleaning industry

covered by Orange1 electric motors

## HIGH PRESSURE CLEANERS



## INDUSTRIAL WASHING MACHINES



## CAR WASH



## FLOOR SWEEPING MACHINES



## High Pressure Cleaners Motors

The pump is the core of the high pressure washer and Orange1 Electric Motors is the leading company in the design and construction of electric motors for pumps for agriculture and industry. Choosing a Orange1 product means guaranteed quality standards, completely manufactured in Italy with highly valuable know-how.

The pump pressurizes the water to create a powerful jet capable of disintegrating and removing dirt from every surface. Higher the performance and reliability of the pump motor means higher performance and reliability of the washing machine.

The range of orange1 motors for pressure washers has been designed to fully satisfy all the needs of each customer and can be fully customized on specific request. This guarantees us the possibility of supplying motors suitable for Each application, which ranges from home to professional use, guaranteeing excellent performance and a guarantee of long life and reliability for any use.



## Car Wash Motors

O1EM has developed a wide range of electric motors for car wash industry. We are leader on the market for the production of Encapsulated motors. A special process, using a special epoxy resin, makes the internal electrical parts completely waterproof. This technology remove completely the condensation of the humidity inside the motor, considered one of the main reasons of motor faults in these application. The resin inside the motor improve also the heating dissipation.

This process gives the possibility to produce motors in smaller sizes or without ventilation. We have the possibility to supply motors with special aluminium alloy to prevent the oxidation and the damaging caused by the cleaning products.

Parallel to the range of the encapsulated motors we have the O1 motors for ventilation and dryers in order to give to the customer the complete range for car wash equipments. The motors are available as IE3 in order to comply with EU regulations.



## Industrial Washing Machines Motors

Due to increasing consumer awareness of the need for preserving the environment and reducing greenhouse-effect gas emissions, washing machine manufacturers have undertaken advanced studies over the past few years that are designed to reduce the water and power consumption of their machines. These energy saving measures involve improving the performance and efficiency of the types of motors used. Orange 1 Electric Motors and SICME Orange 1 are able to provide highly efficient solutions for this kind of application, thanks to an historical know on the application for both asynchronous and vectorial motors.



## Floor Sweeping Machines Motors

An automatic floor scrubber mainly consists of a washing casing and roller discs or brushes (one to four, depending on the model), and is powered by an electric motor connected to a socket by a cable or a battery. Thanks to many years of experience in this application, Orange1 Electric Motors guarantee the highest performance with minimum consumption, also guaranteeing a long product life over time.



# Motors Production

## Hollow Shaft Motors

Motors for high pressure pumps with hollow shafts are designed for direct coupling to reach a perfect alignment between the electric motor and the majority of hydraulic pumps. These motors guarantee high performance, reliability and efficiency. Available in single and three phase, standard or with elastic coupling on IE2 on Demand.

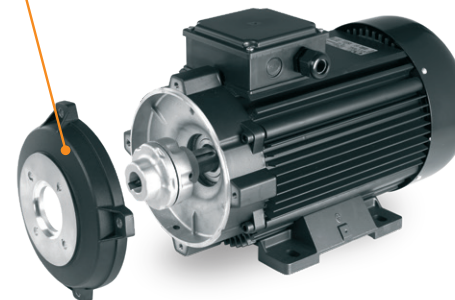
**APPLICATION:** HIGH PRESSURE CLEANERS



## Double Flange Motors

Motors for high pressure pumps are fitted with double flanges, two bearings and a flexible coupling. This build has reduced dimensions to combine the advantages of hollow shaft motors but retaining the standard motors maintenance. Orange1 offers you the possibility of purchasing the motor totally encapsulated. This allows the motor to guarantee high performance, reliability and efficiency.

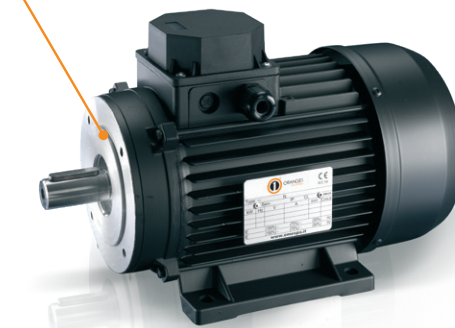
**APPLICATION:** HIGH PRESSURE CLEANERS



## Solid Shaft Motors

Orange1 Electric Motors Spa offers a solid shaft motors B34, for high pressure pumps, in alternative to the Hollow shaft motors. These motors guarantee high performance, reliability and efficiency. Available in single and three phase, standard or with elastic coupling on IE2 on Demand.

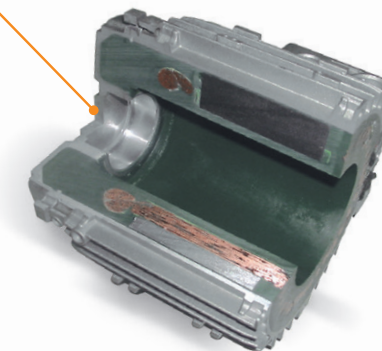
**APPLICATION:** HIGH PRESSURE CLEANERS  
FLOOR SWEEPING MACHINES



## Encapsulated Motors

We have developed a process using a special resin material that makes the electric internal parts of the motors completely waterproof. The motors are resistant to the most hostile environments in terms of presence of water and humidity. All the motors of our range could be manufactured with this technology with no restrictions.

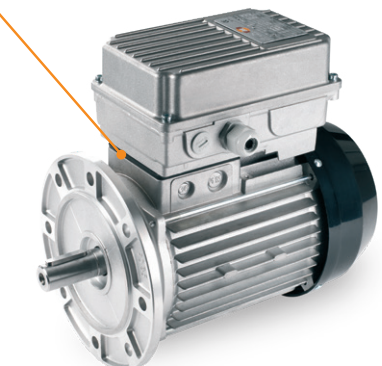
**APPLICATION:** CAR WASH



## Inverter for Electric Motors

The Inverter is an electronic device designed to convert direct current DC power input into alternating current output. This device is mainly used to change the frequency of the asynchronous electric motors in industrial application, and to convert the direct current of renewable energy systems to alternating current output to be sold to the National electricity network.

**APPLICATION:** CAR WASH



## Vectorial Motors

These asynchronous motors have been specially engineered to achieve dimensions of dc motors of similar power and to be suitable for high performance, flux vector type controllers in variable speed applications. The distinctive electromagnetic and mechanical design permits operation in constant power mode at maximum speeds of up to 8000 RPM.

**APPLICATION:** INDUSTRIAL WASHING  
MACHINE





## WHY CHOOSING ORANGE1 PREMIUM SOLUTIONS

IN MISTING APPLICATION

 **MADE IN ITALY GUARANTEED**

 **APPLICATIONS KNOW HOW**

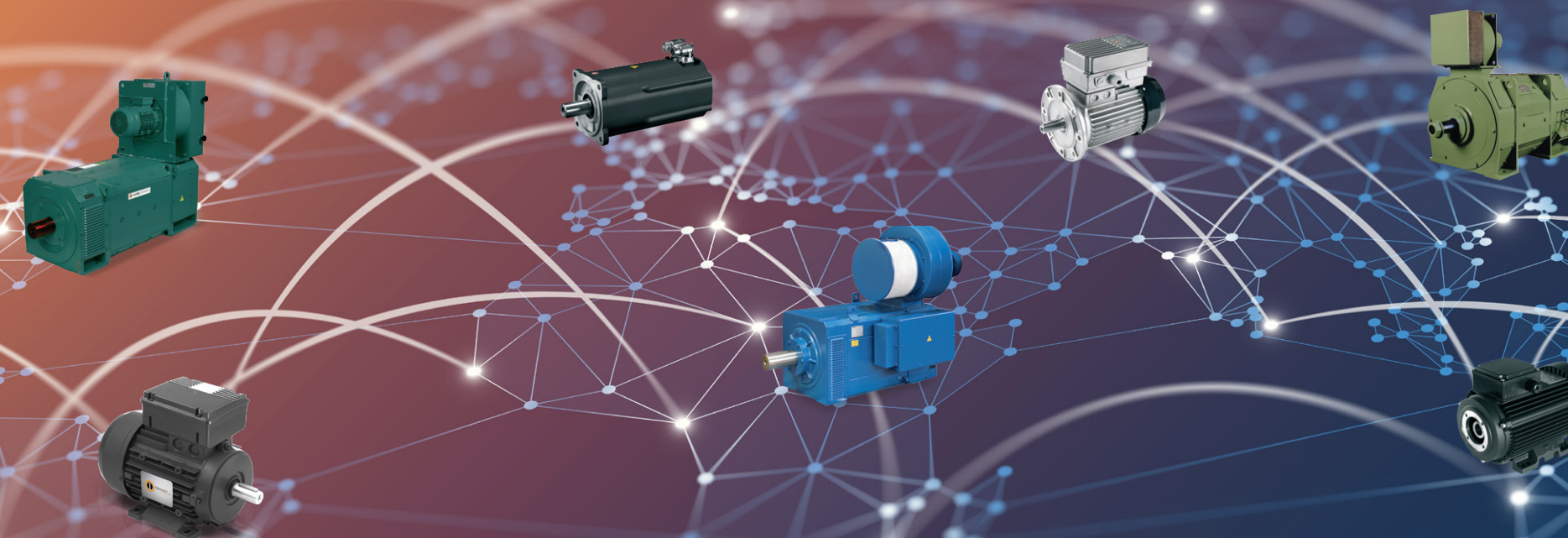
 **HIGH LEVEL OF CUSTOMIZATION**

 **RELIABILITY & DURABILITY**

 **QUALITY**

 **100% TESTED**

Orange1 Holding is a group a leader in the electric  
motors sector, present in over 70 countries  
around the world with its products





Note

Note



info@orange1.eu  
[www.orange1.eu](http://www.orange1.eu)

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