



ORANGE1
HOLDING

Railways Motors Technology

Motors production, maintenance and repair

ORANGE1
PRECISION

ORANGE1
FOUNDRY

BRIXIA
PRESS

M **METALPRES**



SICME | **ORANGE1**

ORANGE1
ELECTRIC MOTORS

DIE CASTING

100 ml Turnover
4 Factories
720 Headcount

ELECTRIC MOTORS

125 ml Turnover
6 Factories
800 Headcount

TURNING PARTS

10 ml Turnover
1 Factory
80 Headcount

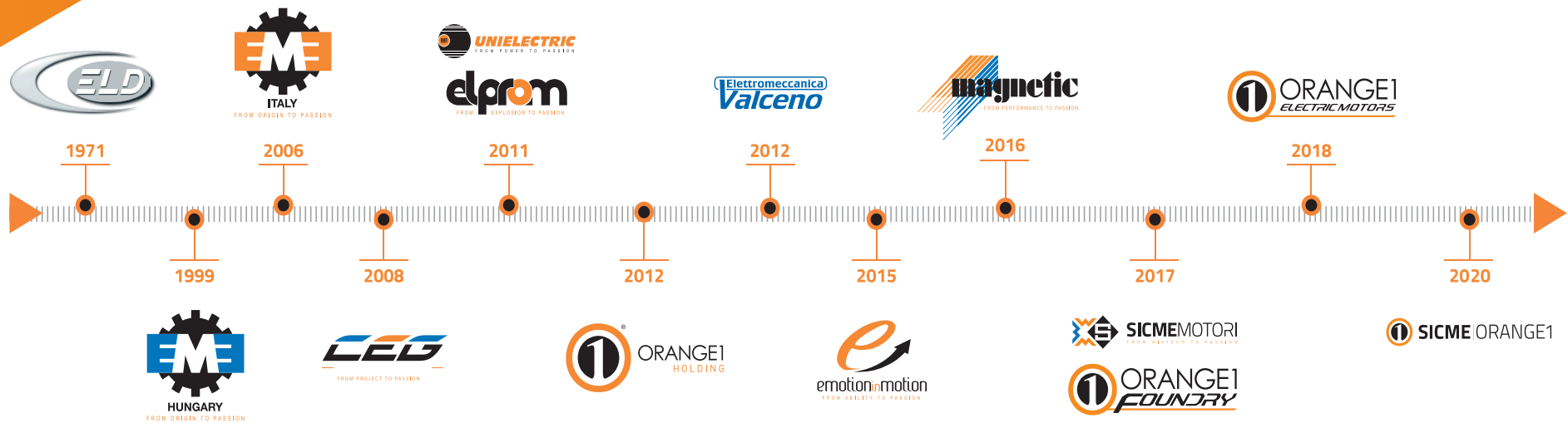


ORANGE1
HOLDING

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





€ 235.000.000 TURNOVER
11 COMPANIES
1600 HEADCOUNT



Sicme Motori S.r.l., founded in 1967, produces AC motors, variable speed and high quality DC motors and it represents a benchmark of excellence for its technology providing the best economical solutions for many different applications. Since 2002 it has been cooperating actively with the Institute of Electrical Engineering of the Polytechnic of Turin and it has been one of the world's largest producers of wind generators. In 2008, it has developed motors with ASR technology, the most revolutionary type of electric machine in the world, and in 2014 developed an innovative range of synchronous reluctance motors IE4 with a specific patent.

A company with a 40 years history, well-known around the world for the high quality and product technology, it produces Asynchronous motors up to 3700 Kw, Synchronous motors up to 2700 Kw, Hydroelectric Generators up to 3000 Kw, Mini-Wind generators up to 200 Kw and Wind Turbines up to 5000 Kw. And among many other projects has developed and built the motor wheels for the Rover which landed on Mars.

Sicme Motori is also one of the European Leaders for variable speed applications, presents the serie of three-phase synchronous reluctance motors, which are designed for and can only be operated by a frequency converter (inverter). In 2020 Sicme Motori was renamed Sicme-Orange1.



Motors production

Railway & Underground sector

Production of special motors for railway applications

With a Technical Office made of more than 30 engineers and its 50 years of experience in the electric machines, Sicme Motors designs traction and auxiliary motors for railway and Underground Sector. The construction of traction and auxiliaries motors, are carried out at every stage completely within the factory, both on client specifications or with their own full project. Even the service activities of repair and maintenance are carried out within a dedicated department. Moreover, Sicme Motori has developed a specific know-how of many motors installed on various types of rolling system such as AV electric trains, Electric Locomotives, Railcars, Underground, Tram, Trolleybuses and more.

AC Motors

Production of asynchronous round motors for AUXILIARY SYSTEMS

Specifically designed according to the technical specifications of customers, they are used to operate heating, ventilation, air conditioning (HVAC) systems, braking systems, cooling units and other auxiliary systems for trains. In order to successfully deal with the extreme conditions of service that these applications normally show, O1EM selects with experience and care components, treatments and manufacturing processes for these particular motors.

Some examples in this sense can be the very high quality copper and the resistance used for the windings, which can be further insulated and protected with specific vacuum impregnation treatments or complete encapsulation of the stator with winding (POTTING). The mechanical part is also carefully studied to protect the durability and reliability of the motor / application with risk factors due to the environment (temperatures, atmospheric agents, dust and so on) and due to the use of inverter drive with consequent possible peaks of voltage. For this reason, the bearings can be selected in a wide range and according to the required specifications, using screens and greases suitable for particular temperatures, up to special expedients and / or insulated bearings with ceramic coating to avoid "electrical corrosion" that can be caused precisely by the inverter drive. Other essential features can complete the design of the motor, such as cast iron "heads" (flanges / shields), use of suitable steel for application, special slots / holes to channel and effectively evacuate condensation and many other precautions, evaluated for each individual specification / project. The production size ranges from M56 to M180 and above, with typically three-phase motors at 1 speed, but also at 2 speeds. Presence of a Technical dept. and R&D dept. that guarantees the design, prototyping and execution of tests according to the regulatory requirements of the railway world. Industrialization strictly MADE IN ITALY, carefully followed in the O1EM production plants, asynchronous motors division of the Italian ORANGE1 GROUP.



Maintenance and repair AC and DC Auxiliary Motor for:

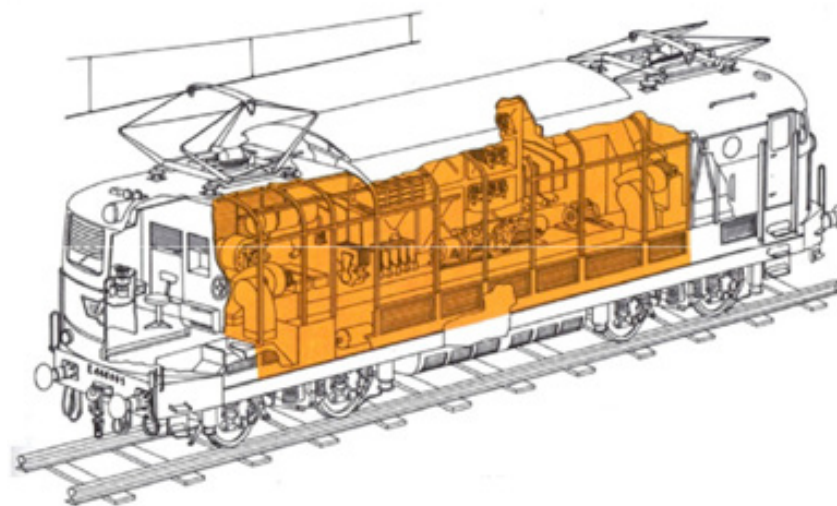
- Electric motor traction fan
 - Electric motor for compressor
-

Maintenance and repair

Traction and Auxiliary motors

More than 2 mio€ per year between traction motors repaired and the supply of auxiliary motors.

**We repair both third-parts motors and ours.*



PRODUCT	ITEM	Q.TI	DELIVERY TIME	REMARK
DC TRACTION MOTORS	RHEOSTAT FAN	24	2012	LOCAL RAILWAYS SOUTH ITALY
AC MOTORS	PHANTOGRAPH	120	2012	FRANCE NATIONAL RAILWAYS
AC MOTORS	WIPER	160	2013	ITALIAN NATIONAL RAILWAYS
AC MOTORS	RHEOSTAT FAN	250	2014	USA
AD MOTORS	RHEOSTAT FAN	200	2014	SOUTH AFRICA
AC MOTORS	RHEOSTAT FAN	180	2015	ITALIAN NATIONAL RAILWAYS
AC MOTORS	RHEOSTAT FAN	200	2017	ITALIAN NATIONAL RAILWAYS
AIR CONDITIONING	AIR CONDITIONING WAGONS	60	2017	ITALIAN NATIONAL RAILWAYS

SICME BECAME PART OF ORANGE1 HOLDING

June 2017 Sicme Joined Orange1 Holding

From September we indentify several main actions to be taken:
for example the New Storage Tracking System.

Test room – DC Medium Voltage

2500 V (Italian grid supply is DC 3 kV) | UP TO 1000 A Remoted sparking check (cam)

Number of motor repaired from 2012 to 2018

1754 AC motors
596 DC motors
Total 2350 traction motors





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