

Hydro Generators

Blue Powered - Green energy



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.



ramé

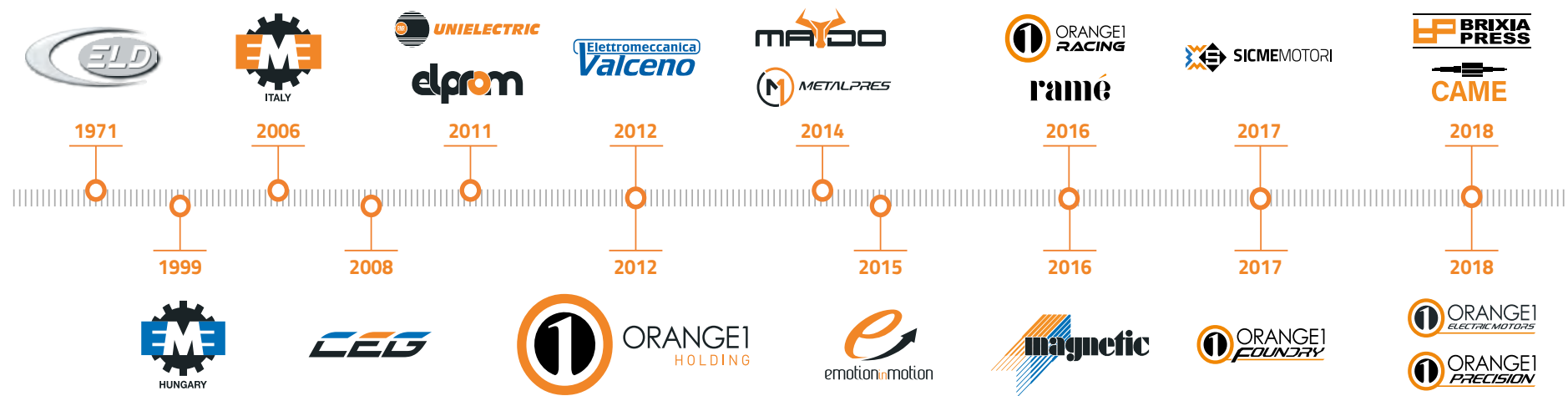


DIE CASTING
100 ml Turnover
4 Companies
720 Headcount

ELECTRIC MOTORS
125 ml Turnover
8 Companies
800 Headcount

TURNING PARTS
10 ml Turnover
2 Companies
80 Headcount





€ 235.000.000 TURNOVER
15 COMPANIES
1600 HEADCOUNT

SICME | ORANGE 1

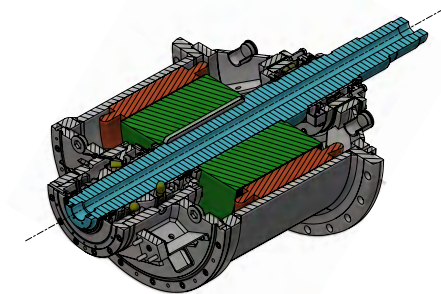
Sicme Motori S.r.l., founded in 1967, produces AC motors, variable speed and high quality DC motors and it represents a benchmark of excellence for its technology providing the best economical solutions for many different applications. Since 2002 it has been cooperating actively with the Institute of 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 to explore the planet 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).

Product portfolio

Starting from a wide product range and an historical technical knowledge, Sicme Motori highly customizes PMG generators for the hydroelectric application.



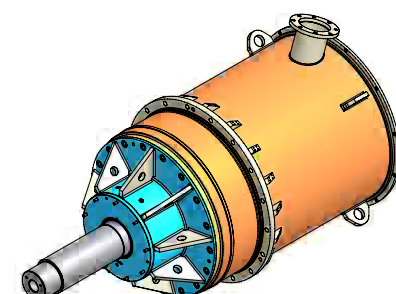
Product description

From customers specific needs to tailor-made generators. A state-of-the-art technology to reach the highest benefits, performances and efficiency levels.



Few reference

Complete generators or active parts into customer housing with tailor-made solutions to perfectly match application and customer requirements.

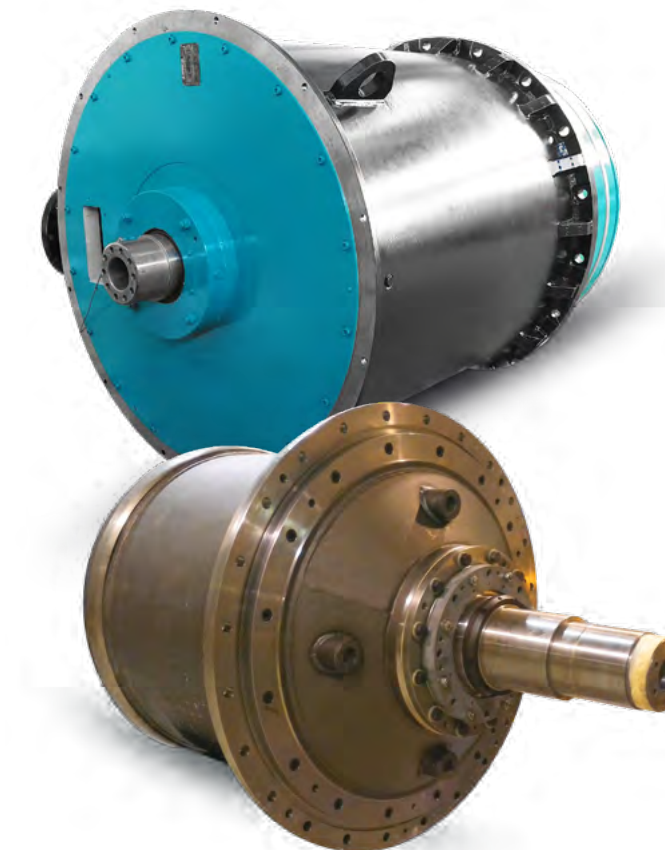


Product **PORTFOLIO**

Sicme Motori produces customized PMG generators for hydro application within the following range:

- Power : from 10 to 3000 kW about
- Frame size : from 180 to 710 mm about
- Type : for VFD use (connected to inverter) or for DOL use (parallel to the grid)
- Voltage : low voltage (< 1000 V)
- Speed / Frequency : 50/60 Hz with customized pole number according to turbine speed (DOL version),
nominal speed at request (VFD version)
- Cooling : water cooled, air cooled or submerged
- Coupling : direct mechanical and/or electrical
- Supply : Complete solutions, co-engineered solutions or active parts

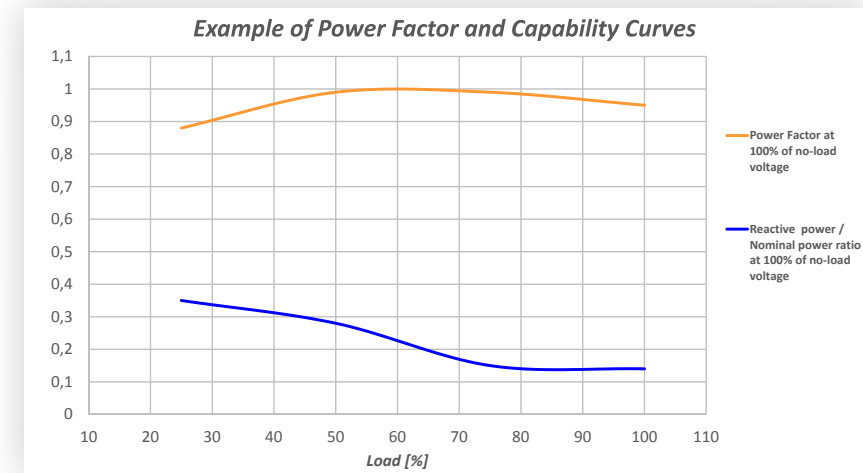
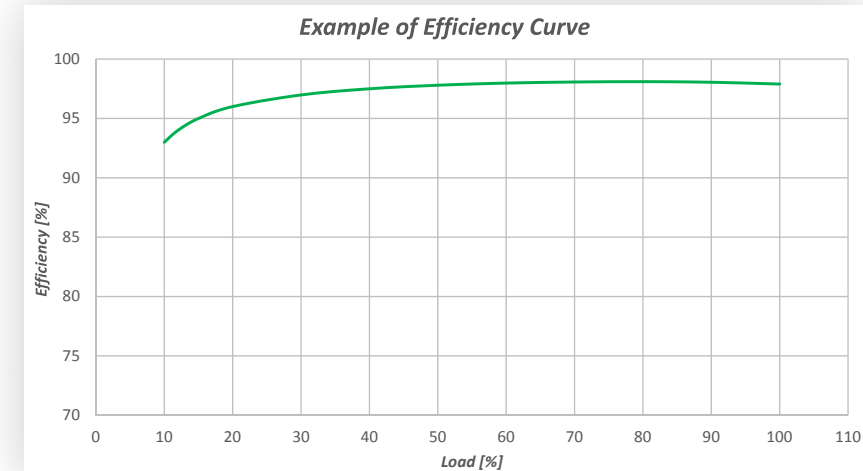
Sicme Motori can perfectly replace standard induction generators (round self ventilated) at low efficiency (IE1-IE2-IE3) with Super Premium IE4 synchronous reluctance generators, with same Unel Mec dimensions and for inverter use.



Product DESCRIPTION

Sicme Motori produces PMG generators for hydro application with the following benefits:

- Highest efficiency on all the load and/or speed range, meaning more benefits for the customer and greater ease in obtaining funds;
- Direct coupling, electrical or mechanical, avoiding any need of gearboxes or transmission systems;
- Reduced or null magnetizing current and lower speed plus no gearboxes / transmissions, meaning less noise;
- Highest power factor, meaning less kVA needed for the capacitors bank to reach grid requirements (DOL version);
- Compactness and highest power density, meaning less foundation, less space needed and greater ease of handling.



Few REFERENCE

Complete generators or active parts into customer housing with tailor-made solutions to perfectly match application and customer requirements:

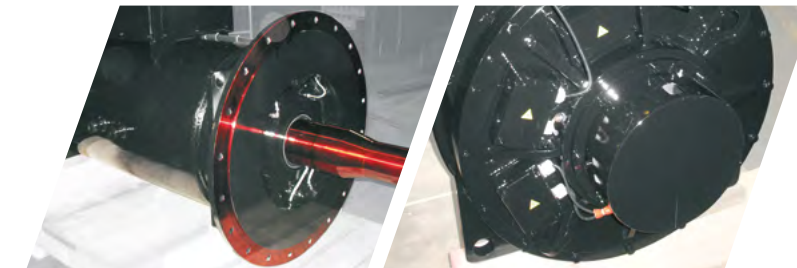
Submerged PMG generator

Bulb/Kaplan turbine
VFD use
Direct coupling
Frame 450 (8000 Nm)



Water jacket PMG generator

Pelton turbine
VFD use
Direct coupling
Frame 400 (10000 Nm)



Submerged PMG generator

Bulb/Kaplan turbine
DOL use
Direct coupling
Frame 630 (40000 Nm)



Note



Note





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