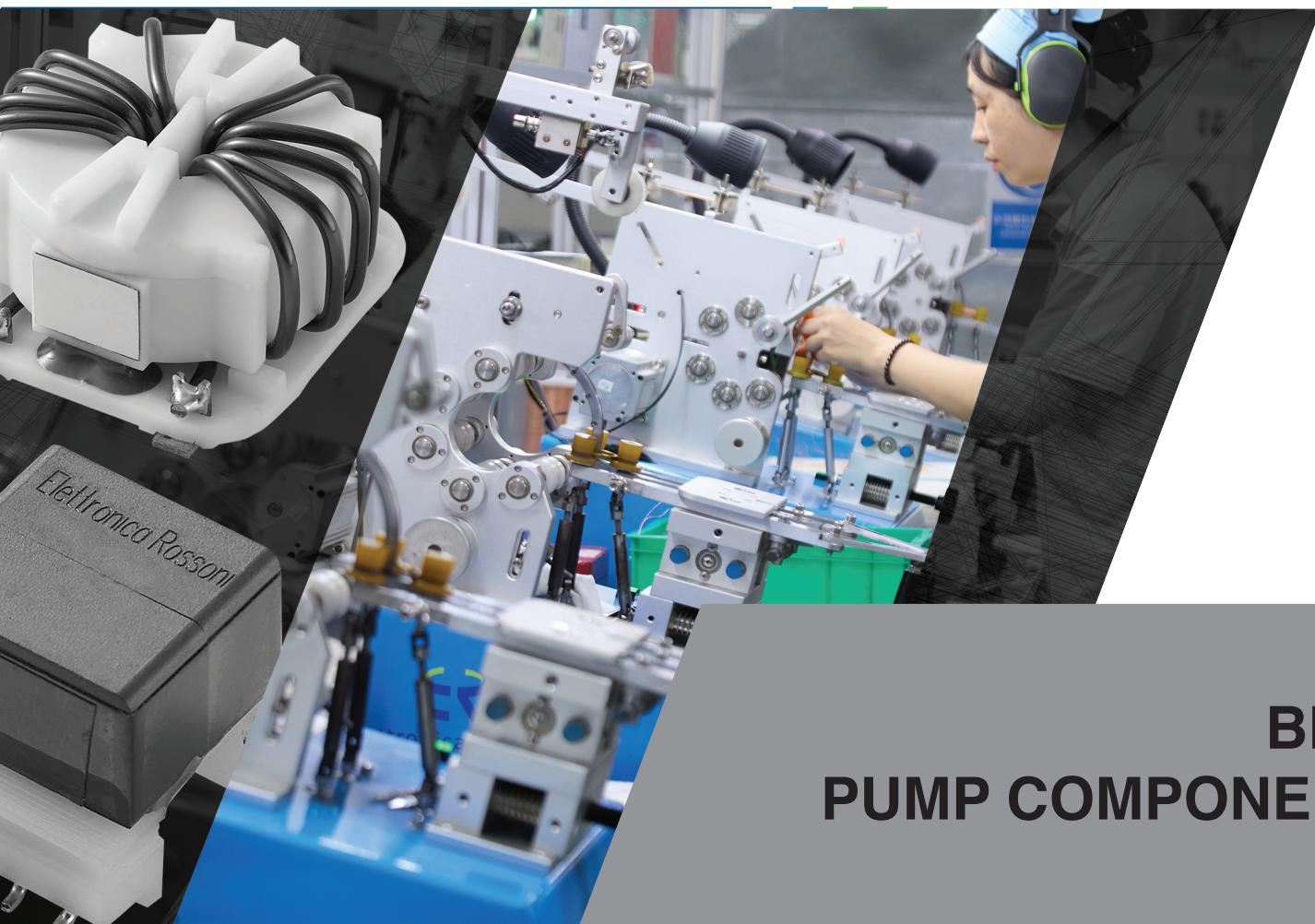


MAGNETIC SOLUTIONS
COMPONENTS
AUTOMOTIVE



BLDC PUMP COMPONENTS

 ELETTRONICA
ROSSONI
INNOVATIVE SOLUTIONS

Elettronica Rossoni Group, boasting over three decades of experience, presents a professional team dedicated to create solutions to your specific requirements.

Specializing in the manufacturing of appliances, electrical components, and electronics, we are committed to delivering innovative solutions to meet your needs.

BLDC PUMP COMPONENTS

With more than three decades of expertise in the development of BLDC pump components, Elettronica Rossoni specializes in the design and manufacture of custom products. Our solutions are engineered to meet the stringent performance and reliability of the demanding environment requirements. Our products are engineered to meet the rigorous demands of modern vehicles, delivering silent operation, precise flow control, and exceptional efficiency. Designed for applications such as coolant circulation, oil delivery, and HVAC systems, our BLDC pumps set a new benchmark in reliability and performance.

Elettronica Rossoni integrates advanced motor topology and electronic commutation into its products, significantly reducing energy consumption and minimizing acoustic emissions. Our closed loop feedback systems enable precise variable speed operation, allowing pumps to adapt instantly to both engine and cabin requirements.

Thanks to integrated electronics and an optimized component layout, our solutions offer a compact and lightweight design. In addition, the use of automotive qualified components ensures robust resistance to vibration, thermal cycling, and harsh under-hood environments.

Elettronica Rossoni continuously works to maintain high certification standards across all aspects of our processes in our different areas of production.

KEY COMPONENTS



- Laminated silicon steel cores with precision wound copper windings.
- Optimized slot design for maximum torque density and minimal eddy current losses.
- High grade Neodymium (NdFeB) magnets for superior magnetic flux.
- Skewed pole geometry to reduce cogging torque and noise.
- Hydrodynamic blade profile for smooth, cavitation free flow.
- Die cast aluminum or reinforced thermoplastic enclosure.
- Three phase inverter bridge optimized for automotive voltage rails (12–48 VDC).
- Diagnostic communication via CAN bus or LIN interface.
- Hall effect sensors for rotor position feedback.

APPLICATIONS



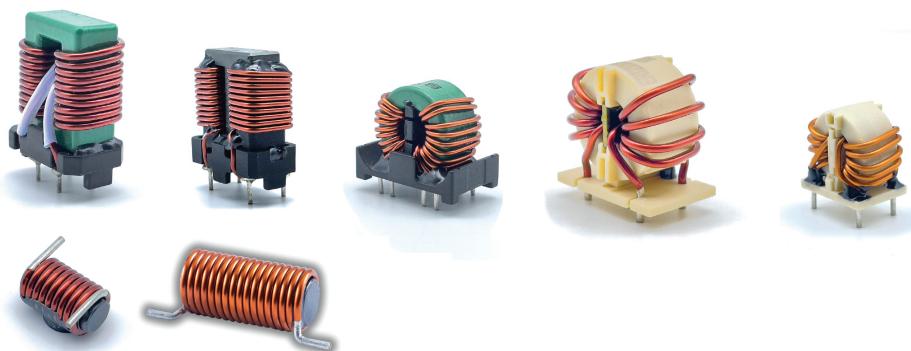
- Engine coolant circulation.
- Transmission oil and lubrication systems.
- Electric-vehicle (EV) thermal management.
- Cabin HVAC and heating systems.

AEC-Q200



Class B ERSBI 4.2
Class F ER F88
E361692

CMC, DMC AND RCC



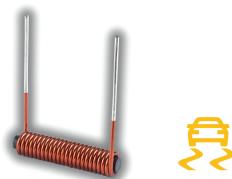
TRANSFORMERS



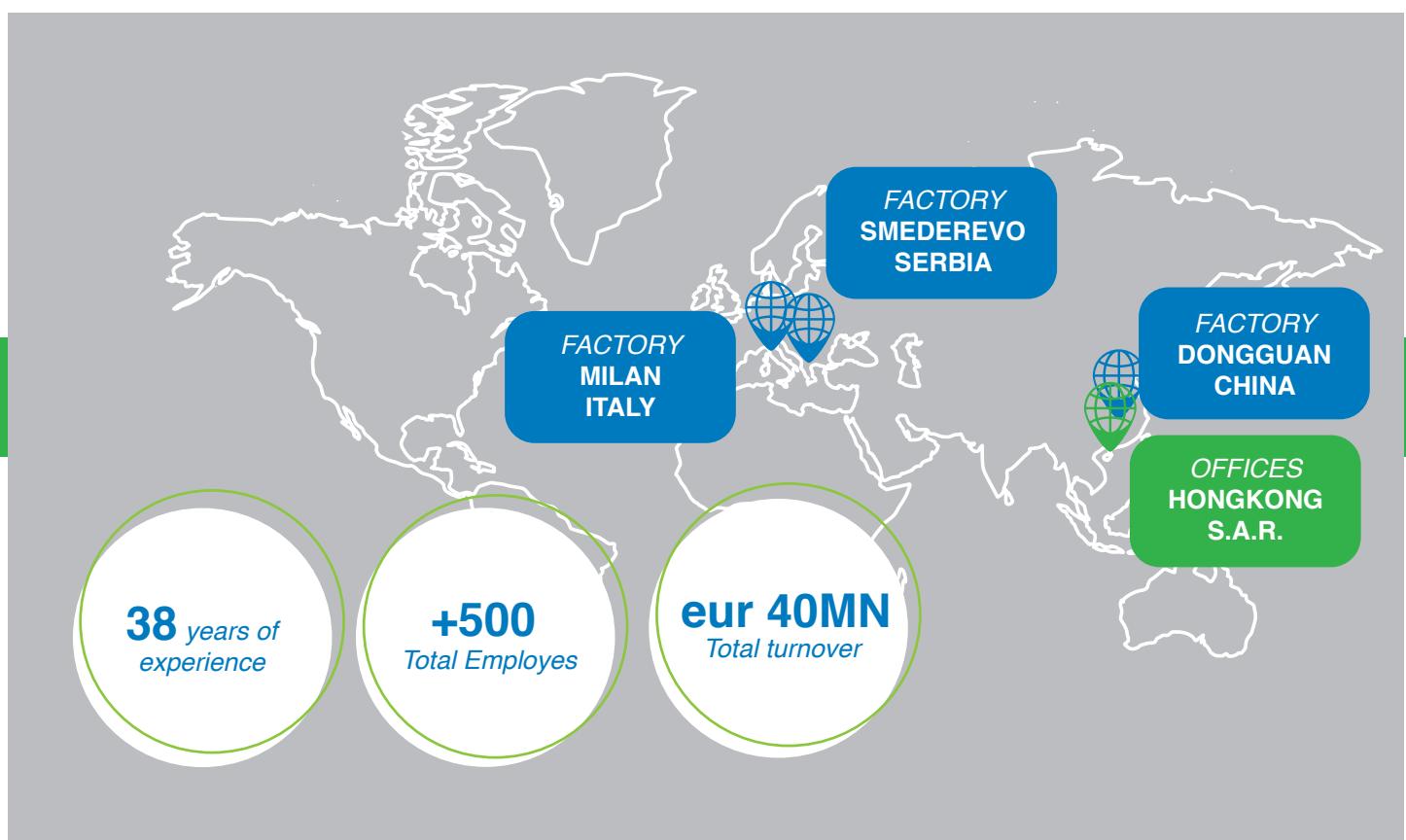
ABS COMPONENTS

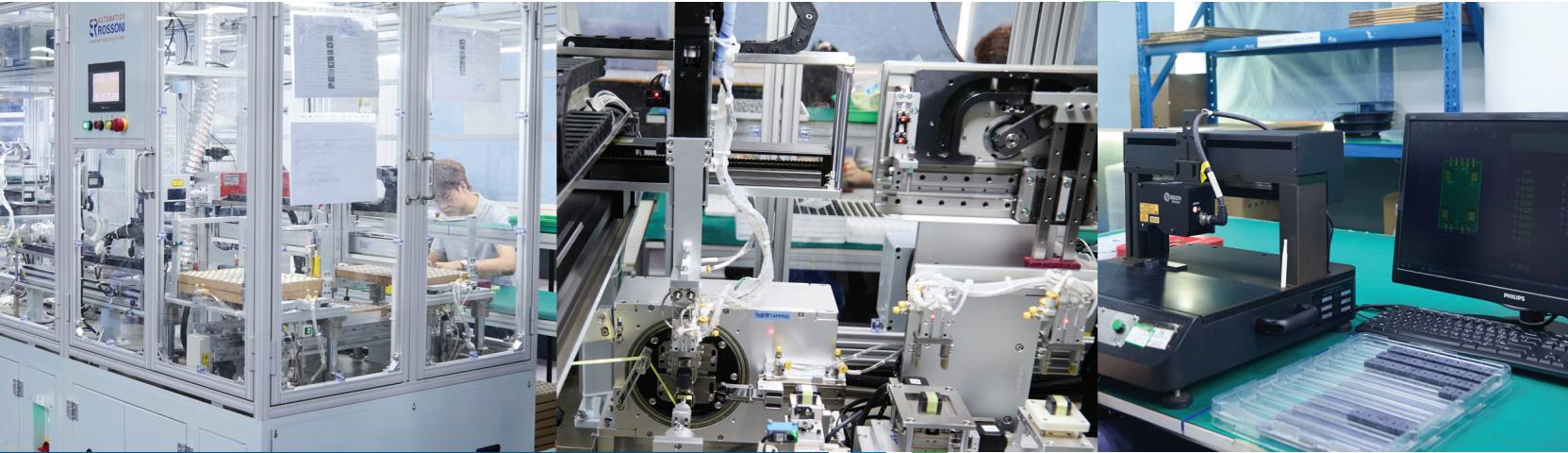


ESP COMPONENTS



OUR COMPANY IN NUMBERS





www.erhk.hk

info@erhk.hk

ITALY | HONG KONG SAR | CHINA | SERBIA