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Endereço **F.I.R.E. s.r.l.**  
Via Q. Sella, 23/a  
43126 Parma, Italy

## PRODUTOS / MÁQUINAS

F.I.R.E. s.r.l. is an Italian company which specializes in the field of hollow glass and advanced Thermo-Fluid Dynamics. The company consists of a technical department with advanced computer technology (CAD 2D, CAD 3D, FEM, CFD) for the design of machines, plants, forehearth and furnaces with a capacity of up to 1000 tonnes/day.

F.I.R.E. s.r.l. can also supply the customer with:

- “Turn key” plants
- Single engineering services and design
- Design and supply of plants, steelwork and piping
- Certified machines and equipment
- Furnace, distributor, forehearth and boosting system automation
- Technical consultancy to optimize furnace physical processes electrical plants
- Water treatment plants
- Industrial automation and instrumentation
- Process control
- Signal transport with both traditional technologies and bus field technology.
- PLC and PC (SCADA/HMI) software for supervision of plants

F.I.R.E. s.r.l. is able to supply both partial and “turn-key” furnace repairs involving the following:

- Glass drainage
- Demolition
- Waste management
- Construction
- Hot-sealing
- Commissioning

F.I.R.E. s.r.l. technology focuses on the key areas of energy consumption and exhaust gas emissions. The technical department is experienced in producing innovative solutions to minimize production costs and maximize productivity, product quality and furnace life.

F.I.R.E. s.r.l. has developed the following innovations:

- A system that automatically adjusts the furnace and forehearth set points. This system can quickly and autonomously adapt to physical process changes (raw material impurities, production changes, manufacturing process anomalies).
- A system that, due to the cyclotron resonances induced by a variable magnetic field, is able to drastically reduce NOx emissions of flue gasses.

F.I.R.E. s.r.l. cooperates with highly skilled and fully experienced personnel in the field of glass and advanced Thermo-Fluid Dynamics.

F.I.R.E. s.r.l. personnel have worked for major multi-international glass producers such as Owens-Illinois group, Bormioli group, VCP group, Finvetto group and Ardagh group.

### Company Profile of **F.I.R.E. s.r.l.**

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