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Endereço **P.B. Engineering S.r.l.**  
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Loc.Ospedaletto  
56121 - PISA

## PRODUTOS / MÁQUINAS

### Technologies

Make accessible advanced glass technologies and relevant know-how to the Client, acting as a link between Clients and leading available Technologies, world-wide.

### Consultancy and Project evaluation

Including consulting services, conceptual design, process technology evaluation, licensing arrangements, technical and economic feasibility study, capital and operating cost estimation, project financing.

### Project execution

Project management, planning, cost control, licensor co-ordination, procurement, inspection and expediting, co-ordination shipping/transport activities, fabrication and erection supervision, commissioning supervision, vendors negotiation.

### Engineering

Site options selecting, factory lay-out, civil work and process basic and detailed engineering, technical specifications, using latest computer aided system for the full range of engineering disciplines and making use of any international codes and standards; co-ordination of specialist consultants input.

### DESIGN CAPABILITIES:

#### Thermal Calculation:

- Process units thermal calculations
- Metallic recuperators thermal calculation
- Industrial buildings thermal balance calculations

#### Complete solutions:

- batch plant for high quality homogeneous glass batches
- side ports furnace natural gas and fuel oil combustion system
- furnace boosting system
- furnace bubblers system
- furnace and bath air cooling system
- complete float bath
- tin bath roof heating system
- annealing lehr heating and driving system
- DCS control system for the entire process line
- Air cooling system design
- Water cooling system design
- Power distribution design
- Control system design

#### Equipment and packages:

- furnace reversal unit
- fuel oil preheating units
- batch chargers
- glass level controllers
- front and back trolley mechanism
- head coolers – floor trolley type, manual movement, cooling element included
- exit coolers - floor trolley type, motorised movement, cooling element included
- carbon pusher – floor trolley type, motorised movement
- dedrossing pocket – 2 motorised at bath end
- top roll machine – floor trolley type, motorised with incorporated periscope and control panel

- periscope trolley – floor trolley type, motorised type, periscope included
- bath exit material : complete drox box, hood, curtain elements, curtain mechanism
- ventings – controlled flow system type

Float glass special services

- furnace and bath hot repair
- bath blocking demolition
- furnace hot joints special sealing
- heating up and start up assistance

#### Company Profile of **P.B. Engineering S.r.l.**

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