

Company Profile

REDLINE technologies
Elektronik GmbH

Focus

REDLINE technologies is designer and manufacturer of state-of-the-art electronics for industrial material treatment. The focus is on controlled switchmode power supplies for lasers, RF and electrical discharge generators and microcontroller systems.

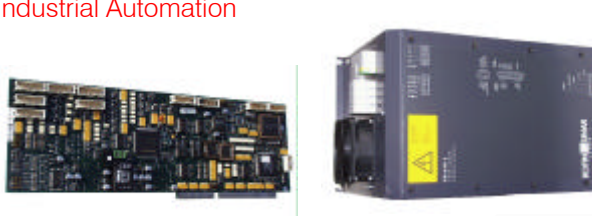
Products

Power Supplies



- Pulsed power supplies for flash lamps up to 12 kW for driving solid state lasers or photography
- Controlled current supplies for laser diode stacks up to 4 kW 60 A
- Controlled voltage supplies for radio frequency generators ranging from 1kW to 8 kW
- Electrical discharge machining generator 60 A
- Burn-in- and test system for laser diodes

Industrial Automation



- Seam tracking controller
- Modular beam switch controller
- Data transmission on powerlines
- Quality control system for laser welding

Competences

- Design of analog and digital electronics, easy to manufacture, focus on switchmode power supplies and microcontroller systems
- Software design for personal computers, SQL databases and microcontrollers ST6, 8051 and 80166 using C (+ +), assembler and Centura / SQLWindows
- Programmable logic desing on Altera MaxPlus
- Concept, design, circuits, printed circuit board, programming, mechanics, sample and series production, installation and consulting, all from a single source

History

1988

Founded in Aachen, then Herzogenrath. Design and production of stage electronics, namely mixers and dimmer packs for lighting control.

1990

As a second step custom specific design of electronic circuits, plus supervising of customer's installation of REDLINE's products. Components for control and supervision of hotel minibars are designed.



1993

Opening a second location in Aachen, Steinbachstraße start of production of high power current sources for solid state lasers. In the following years design of the current product spectrum.

1996

Conversion into a GmbH.

1997

New products are ready for series production and delivered to customers: EDM generator and RF generator supplies up to 7kW.

1998

Most of the manufacturing is outsourced to external suppliers. This step enhanced both the throughput times as well as the product quality decisively .

1999

Moving to larger premises in the International Transfer And Service Center in Baesweiler near Aachen.

New product: 8kW power supply for volatile loads.

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