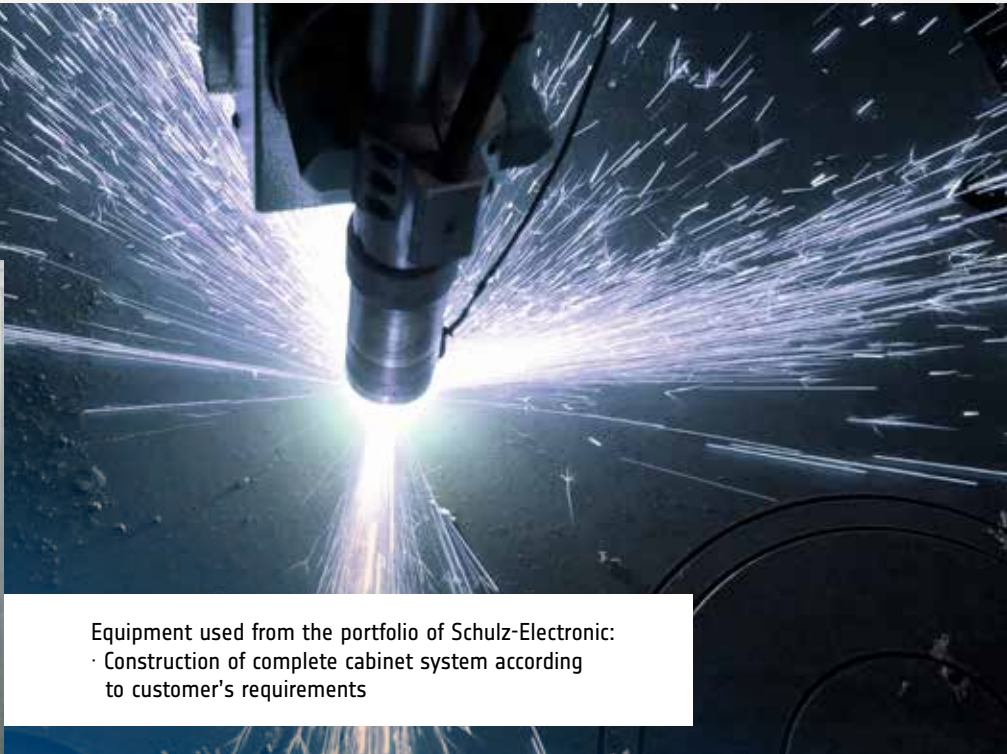


The integrated laser project

Everything from one source for the power supply of laser systems



Equipment used from the portfolio of Schulz-Electronic:
· Construction of complete cabinet system according to customer's requirements

The challenge

A long-standing customer from the laser sector needed a complete power supply for laser cutting and welding systems. He knew from experience that Schulz-Electronic also had an excellent knowledge of complex safety electronics in switch cabinet construction, and asked us to realize a solution, including drivers.

The solution

Schulz-Electronic always provides customers with the best solution, whether it's a small module that's concerned or a highly complex laser system, including cooling.

In this particular project for a company in Dortmund, Germany, thanks to our highly flexible driver portfolio we were able to develop an individual integrated, customer-specific solution for the power supply, control and monitoring of high-power laser diodes. Among other things our solution included devices by LUMINA and by Schulz-Electronic.

The special feature: Our solution can be adapted to different models as required, giving our customer maximum flexibility.

Other features of the system:

- Water-cooled IP54 rack with heat exchanger.
- Optical output of 2.2 kW to 4 kW from the 400 µm fiber.
- Possibility of using PLC (programmable logic control).
- Independent internal safety logic protects the laser module.
- Application-specific design of the system's safety electronics to performance level PL e (both AC and driver output).
- Analog control (can optionally be extended by interfaces as required).



At www.schulz-electronic.de you can find out more about our projects. And of course you're welcome to get in touch with us any time you need a [special] solution – we will always be pleased to listen to your requirements!