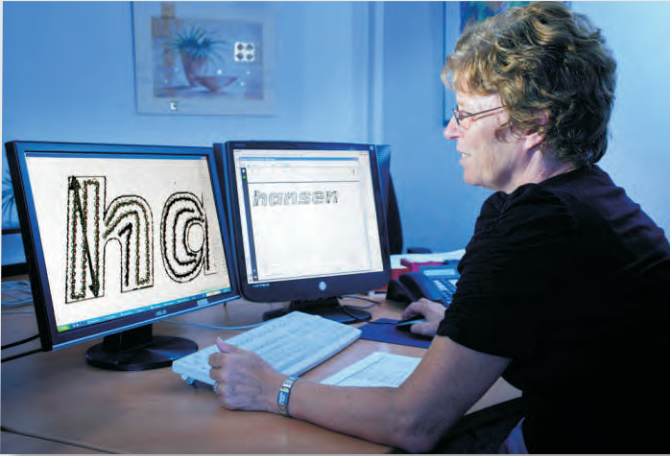


Our Customer Support Services

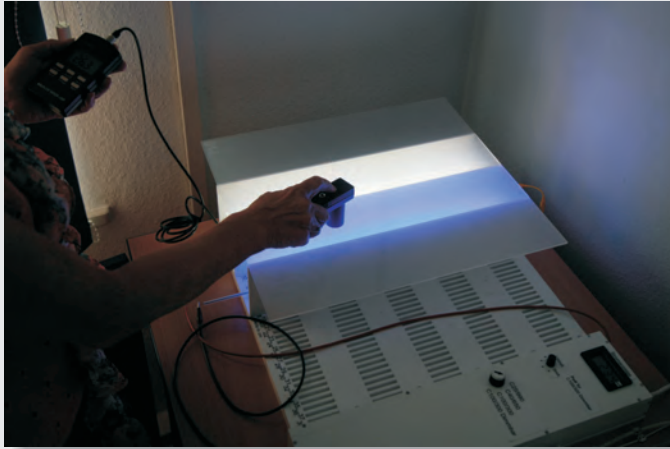


LED calculation and quotation with LEDsoft

Our design program **LEDsoft** allows us to route the LED Tube through virtual channel letters and light boxes. Thanks to our employees' many years of experience and the close contact to our customers, the distribution of LEDs on the computer screen is very reliable and realistic.

LEDsoft generates a detailed and free quotation including all the required LEDs, converters and mounting material. The installed load is stated as well.

If the customer decides to order, the routing plan will be automatically supplied with the order.



LED test setup and light measurements

In many cases the customer is not sure which LED spacing is required for a sign with a given depth.

Such issues must be tried out in a setup which is as realistic as possible. For this purpose, we have developed an "LED tester" which has become an important daily tool at all our subsidiaries.

Using adjustable side walls of different heights, the customer's sign profile can be reproduced and fitted with LEDs. This quickly leads to a realistic result and provides a reliable decision-making aid for the customer.



Research and development

For customers it is beneficial if they can use a product which has been tailored to their individual needs.

In order to be able to supply such "tailor-made" converters we have our own development department where layouts are being designed, sample circuit boards are being tested and all the preparation work is done for later production (including EMC tests).

We develop our own LED circuit boards and electronic controls and implement customer-specific requirements. The rapid development of LED technology keeps our developers busy as there is a constant need for new converters.



High-quality measurement technology

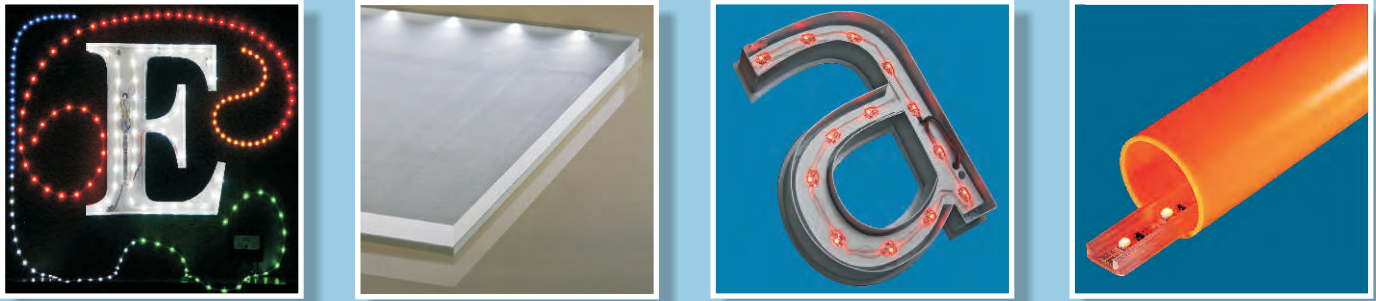
Light measurements are an important prerequisite for high-quality LED products. This includes measuring the brightness of acrylic glass surfaces (measured in cd/m^2). The necessary measuring devices are part of the standard equipment of our field representatives.

The human eye is very sensitive to different light colours. In order to be able to measure these subtle nuances, different devices made by Zeiss, Minolta and Gossen are available.

The latest addition to our range of measuring instruments is a so-called Ulbricht sphere with a diameter of 50 cm, which allows us to measure the light output of LEDs (in lumens).



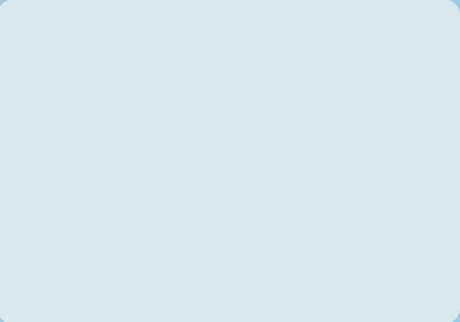
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