

## Knowledge & Know-how

**We differ from our competitors through versatile knowledge and know-how. We have learnt to work in network cooperating with different kinds of international partners – small and large.**

### Integration fo optics

**I**n our daily work, we apply the principles of geometrical optics. We design customer-specific lenses, light guides, reflectors and combinations of these. We always try to integrate the optical parts as well as possible to the mechanical construction of the main product. We do not like optical elements only to have an optical meaning, but also to give the product some other added value or function.



### LED technology

**O**ur emphasis is to apply LED technology in a creative way. We work in close cooperation with the leading LED manufacturers in the world. This partnership guarantees our customers that they always get the latest feasible technology for their products. We use all kinds of LEDs in our design: from the tiniest miniature LEDs to the most powerful so called power LEDs. We always combine a LED with an optical element.

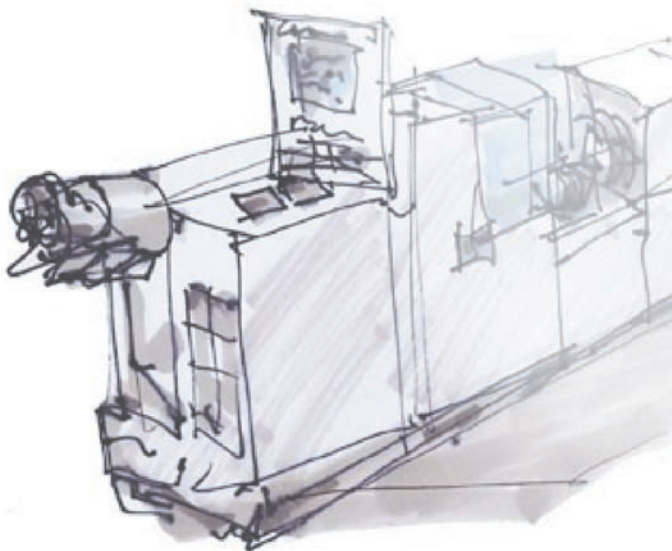
### Materials

**W**e use thermoplastics as the main raw material in our design. Plastics is in many ways superior to other available materials, e.g., weight, part price, weather resistance or modification possibilities. Most often our design also includes metal parts and naturally PCBs. A versatile integration of all mechanical and electronics parts creates a solid basis for a successful lighting product.



## Molds

An injection molding tool is often referred to as the soul of a plastics part. We make our design from the very beginning in cooperation with toolmakers. This way of working guarantees that once the optical and mechanical design is ready, the tool designer can immediately start his work without time- and money-consuming modifications. Our core competence is in tools for optical elements, but we serve our customers in all their tooling needs.



## Production technology

Skills in production technology accelerate a development project, when possible production methods and their limitations are considered from the very beginning of the project. Our core competence areas are automatized and robotized injection molding, welding and glueing of plastics, coatings, assembly automation and packaging technology.

## Parallel working

In a development project things must progress in parallel. To get this good principle functioning in practise, too, development partners must know each other's way of working and communicate actively and openly. Nobody can be the best possible expert in every technological field. That is when we consult our technology partners in our surrounding network and get the precise help we need.

