



swisslicht

**The new generation machine light**

**swisslicht ML1**



**sensationallight**

Swiss + Licht AG  
Schwerzistrasse 18  
8807 Freienbach, Switzerland  
Tel: +41 55 420 30 03

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## Extraordinary features of the **swisslicht ML1**

### **Company**

Swiss + Licht AG develop and produce innovative lighting solutions for highest demands concerning quality and light output. Latest Xenon-Technology is made available in compact and portable lamps. With ML1 we have again successfully created a top class product.

### **Application**

Machine tools are in need of excellent light for handling, process control, tool fitting, and high quality finish. Today, Xenon light offers the highest light output combined with lowest power consumption as well as considerable advantages for illumination of wide spaces and narrow spots. More and better illumination combined with less consumption!

### **Product**

The machine lamp ML1 delivers strong light of nearly daylight quality directly to your working plane, tools, and instruments. It is installed in the machine tool, is highly robust, shock-resistant, waterproof, and offers a long durability. It runs on low voltage and needs little power.

### **Advantages**

The machine lamp ML1 offers a much stronger and better light than even high-end halogen lamps but power consumption is only a fraction. This fact alone will pay for the investment proper. In addition you benefit from time and cost savings while setting up the machine and its tools, and you gain better process control and higher output quality. Productivity increases, and costs drop further.

### **High quality, end finish, custom design**

All our products are distinguished by a high-end finish, be it black or coloured anodised one of many other coatings. We also offer custom design according to your request.

## Comparison of **swisslicht ML1** with standard illumination in machine tool

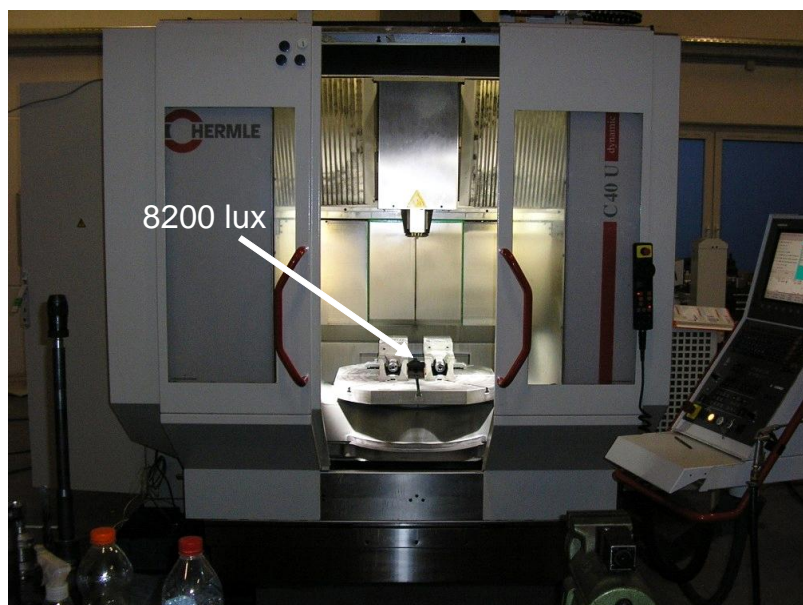
### Example 1

Fluorescent illumination (2 x 54 Watt) delivers 180 lux at clamping surface



### Example 2

**swisslicht ML1** (2 x 35 Watt) delivers 8200 lux at clamping surface



## User statements about the **swisslicht ML1**

### Cut surface

„At the cut surface I recognised that the tool was blunt, giving me the chance to replace it in time. Some minutes later I would have produced scrap“

### Running-in

„New and complex programs need to be started and followed cautiously. Finally I can really see what the tool is doing. The shadows facilitate the task to position measuring sensors. I can better grasp the spatial depth and avoid collisions“

### Time

„Mounting and arranging new pieces is faster, I can see clearly what I'm doing“

### Quality

„With complex work pieces I constantly have to monitor the measurements. Now I can read the scale of the measuring instruments without an auxiliary lamp“

### Energy

„So much light output for so little power! Phenomenal!“

### Benefit

„I don't want to work without this illumination any more“

## Cost comparison **ML1** vs. Standard Illumination

It is nearly impossible to bring **ML1**-grade light to the work space using standard illumination. You need at least **20 times** more in energy and lamps to achieve a comparable illumination:

### swisslicht ML1

70 W x (2000 h x 0.1 €/kWh) =

**14 € / year**

### Standard Fluorescent Illumination

**20 x** 108 W x (2000 h x 0.1 €/kWh) =

**432 € / year**

## Technical Data of **swisslicht ML1**

<b>Housing, Body</b>	waterproof IP68, pressure resistant, aluminium anodised
<b>Mirror</b>	105 mm aluminium reflector, optically coated
<b>Front lens</b>	Borosilicate, shock resistant, coated.
<b>Consumption</b>	alternatively 25 or 35 Watt, power supply 12 V to 19 V DC
<b>Size/Weight</b>	Diameter 140 mm, length 148 mm, weight ca. 1200 g
<b>Light output</b>	3200 Lumen at 35 Watt, almost daylight colour
<b>Light source</b>	HID Xenon-lamp, shock- and vibration resistant
<b>Life span</b>	Electronics 20'000 h, bulb 3'000 h
<b>Lamp temperature</b>	ca. 30 °C above surrounding environment

