

Workstation lighting

The right lighting, adapted to the activity at the workstation, is a basic prerequisite for high efficiency and processing quality. Optimum lighting prevents fatigue, improves concentration, and performance, and reduces the number of errors.

In addition to climate, noise, mechanical vibrations, and hazardous substances, lighting is another environmental factor that must be taken into consideration.

Important aspects for planning workstation lighting include:

- ▶ Avoiding strong contrasts
- ▶ Avoiding glare and reflection

DIN EN 12 464 or the table below contain the required mid-range lighting strengths.

The right Rexroth system light for every task

Calculation example for work top lighting Rexroth SL 78 (rated lighting strength) 681 Lux (with a distance from the lamp to the table top of 1.25 m) + ambient lighting 300 Lux = lighting on the table top of 800 Lux						
Tasks	Required lighting strength (lux)	Rexroth SL 36 Duo / SL 15 LED Duo	Rexroth SL 72 / economic	Rexroth SL 20 / economic	Rexroth SL 78/SL 30 LED	Rexroth SL 78 + SL 36 Duo / SL 30 LED + SL 15 LED Duo
Rough and average machine and assembly tasks such as turning, milling, and planing	300	■ ¹⁾	■ ¹⁾	■ ¹⁾		
Fine machine tasks with permissible deviations	500	■ ¹⁾	■ ¹⁾	■ ¹⁾	■ ¹⁾	
Fine assembly tasks, e.g. telephones, winding medium-sized coils, marking, inspection, and measuring stations	750	■■■■ ¹⁾	■■■■ ¹⁾	■■■■ ¹⁾	■ ¹⁾	■ ¹⁾
Very fine assembly, e.g. measuring instruments, assembly of tools, gauges, and equipment, precision mechanics and micromechanics	1000				■■■■ ¹⁾	■ ¹⁾
Assembly, inspection, and adjustment of extremely small parts	1500					■■■■ ¹⁾

¹⁾ Distance between the table top and lamp: 1.25 m

■ Lamp lighting strength sufficient for task

■■■■ Lamp lighting strength + ambient light (300 lux) sufficient for task

See technical data (see page 183)

Rexroth's system lamp range provides glare and flicker-free light of the highest quality. You can operate the lamps as required for the job at hand either individually or in combination with one another.

This allows you to provide your workstations with uniform illumination of outstanding quality. The lamps can be switched on and off when plugged into a socket with a power switch.

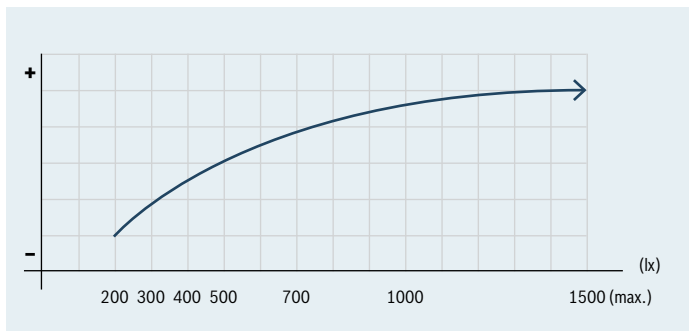
The lamps can be connected in series using the connection cables. The ready-to-use connection and mains cables allow you to install the lamps yourself without needing an electrician. The lamps are suitable for use at ESD workstations.

Lighting on a new level: LED system lamps

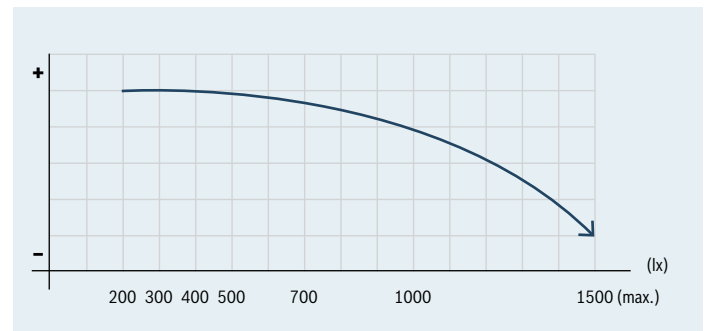
The design of the LED lamps sets itself apart by combining parabolic louvers and diffuser foil.

The use of LEDs as the illuminant makes possible low energy consumption, long life, and maintenance-free lamps. Staff members can adjust the lighting strength that they need to match their age using a controller. Using this controller, it is possible to dim the lighting strength.

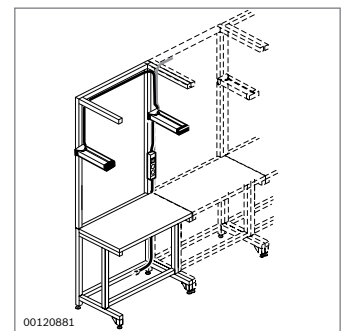
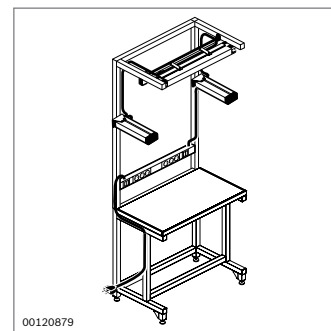
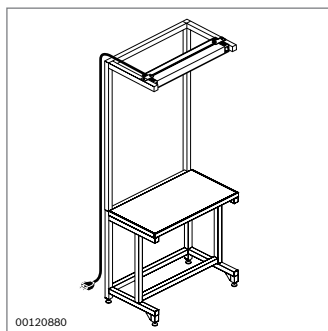
Increased efficiency with Rexroth system lamps



Reduction of errors with Rexroth system lamps



Conventional lamps



LED lamps (Fig. 4 including controller)

