



Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



IMM Photonics GmbH manufactures in newly built plant



Technologie Campus Teisnach IMM Photonics GmbH has completed its move to the newly built, highly modern plant in Teisnach on November 8, 2013. Almost all important stages of the move were carried out in only three days. Production started again as early as November 11. IMM Photonics GmbH now has 1025 square meters of production, storage and administration area at its disposal in the building constructed by OZB Teisnach GmbH on the technology campus.

All office, laboratory, storage and production areas as well as all corridors are equipped with an electrostatically dissipative floor, which was inspected by TÜV Südbayern after its installation. An air-conditioning system, which constantly keeps temperature at 23 +/- 1.5 °C and humidity at 50 +/- 5 % creates consistent conditions year-round, which are ideal for the production of precise optoelectronic and optical products. Filters were selected to reduce particle contamination in the work area by 80 to 90 % compared to normal ambient air. Automatic shading equipment also ensures a good indoor climate and energy savings.

However, IMM Photonics GmbH also manufactures products which require a considerably lower particle contamination. We therefore equipped a clean room with a floor space of 42 square meters, in which six employees can work in the standard configuration. It complies with clean room class ISO 7 in the walk and



service areas. The special construction also makes it possible that a cleanroom class of ISO 6 can be ensured in the work areas.

In addition, there are two mobile flow boxes, which can be transported to any work station with the help of vertically adjustable wheels if lower particle levels are required outside the clean room. The production area for class 4 lasers is equipped with a flow box as a standard feature. Below these flow boxes it is possible to achieve clean room class ISO 6 in a closely restricted space.

A further highlight is that all work stations can be supplied with ultra-pure nitrogen 5.0. The high purity of 99.999 % is the prerequisite for achieving a good cleaning result in the contact-free cleaning of optical surfaces.



It has to be ensured both for visual inspections and for optical measuring methods that there are no disturbances due to external light. That is why eight production rooms and one measuring room were designed as dark spaces without windows and with black, non-reflective wall colour. These spaces range from 3 x 2 square meters to 23 x 1.5 square meters.

The cross-linking of work stations and measuring instruments is becoming increasingly important. For this reason, all production work stations are equipped with a network port. The network cables used have a total length of approx. 7 km. 190 network ports were integrated in the entire plant.

Apart from producing its own components and devices, IMM Photonics GmbH now also offers contract manufacturing of external products.

Lighting was especially important to the management. The whole plant was equipped with LED lighting. Contrary to the trend towards higher color temperatures, which have been proven to increase the work speed of employees, IMM Photonics GmbH opted for a very comfortable type of light at 3000 K. IMM Photonics GmbH is convinced that this lighting will help to combine high-quality production with comfortable working conditions.