

# BeOSL Lead User Projects

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Dosimetrics (part of Mirion Dosimetry Services Division since December 2020) is the provider of the leading BeOSL dosimetry system. The brand name BeOSL is composed of BeO (detector material beryllium oxide), and the technology OSL (optically stimulated luminescence). The portfolio of the complete supplier includes whole-body dosimeters with 2 or 4 detector elements, as well as single detectors called ezClips for partial body dosimetry. These dosimeters are accredited and approved in many countries around the world. These include Physikalisch Technische Bundesanstalt type approval in Germany (by Mirion Technologies (AWST) GmbH and two other services), and NVLAP N.13.11-2009 (Categories IA, IIA, IIIB, IVAB) approval in the U.S. (by Mirion Technologies (GDS)).

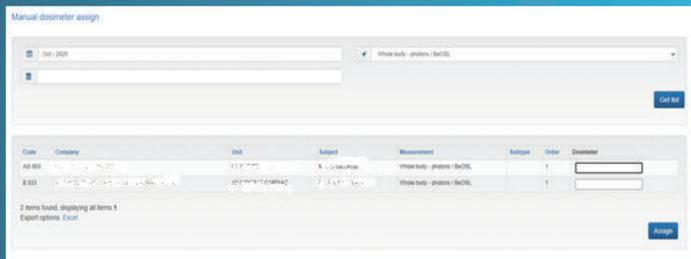
However, the solutions offered by Dosimetrics comprise much more than the pure BeOSL portfolio. The manufacturer also makes many customized solutions available to its clients. One way to do this is to create solutions in cooperation with Dosimetrics directly at the customer's site. The finished products, software and services are then available to all BeOSL users. The other alternative are solutions that are developed directly by the manufacturer at the customer's request and are also made available to the entire BeOSL community.

The objective of this lead user approach is to offer not only a complete product portfolio, but also customer-specific and individual solutions to everyone.

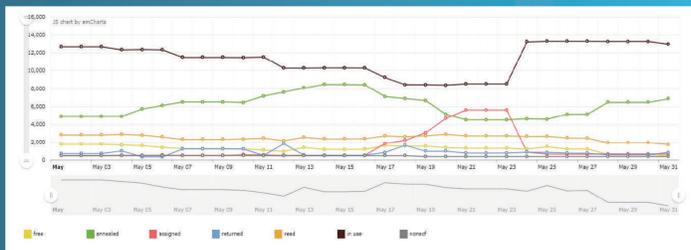
## Dose & Inventory Management Software

Our Romanian partner Dositracker SRL has developed a software solution that adapts to the BeOSL software like a glove. This software represents a complete solution for dosimetry services.

Besides the management of dose and customer data, dosimeters can also be managed in it. Thus, for example, there is the possibility to assign dosimeters to customers and wearers. This simplifies the logistics and result reporting process enormously.



In addition, there is a sophisticated management of the inventory. In a clear display, the dosimeter inventory can be displayed according to status and location.

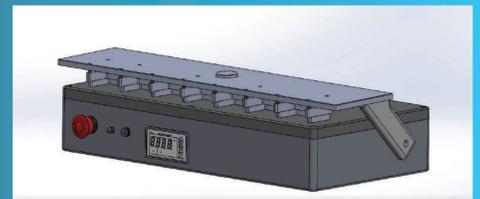


## Sealing Machine for Dosimeter Blisters

Blister packaging in combination with support frames are a very popular packaging solution for dosimeters. This allows not only the protection of dosimeters, but also comfortable wearing, as well as tamper protection. For large clients, this packaging process can be fully automated with big machinery.



However, such large machines do not meet the requirements of smaller and medium-sized services. Also, the commercially available small sealing machines, which are necessary for the blister process, were not of interest to BeOSL customers, both in terms of price and technology. Therefore, Dosimetrics decided to award a project to a student from the University of Applied Sciences in Munich. The result of this student project was a sealing machine that is efficient, easy to use and cost effective.



## Wrist Band Dosimeter

Our Italian partner Qalib is not only part of the BeOSL network, but also provides dosimetry services with Mirion Instadose dosimeters. This innovative combination not only allows to access the technical advantages of the smart passive Instadose dosimeters.

The use of BeOSL ezClips simultaneously helps to close the gap in extremity dosimetry. For this purpose, the monitoring service developed a unique solution together with the manufacturer. This allows the BeOSL ezClips to be inserted into wristband dosimeters. The wristbands used are characterized by high wearing comfort, individual labeling and an economical price structure.



## Our Mission

As part of Mirion Technologies, Dosimetrics strives to inspire interest in radiation protection, especially among young scientists. Through projects like the one described above, we can provide this access. We are committed to passing on and living the knowledge and values of IRPA. Thus, we are happy and proud to constantly share IRPA's mission with students.

Scan this QR code to visit our website:  
[www.dosimetrics.de](http://www.dosimetrics.de)

