



AVL LAB MANAGEMENT™ FOR BATTERY

REDUCING THE EFFORT OF BATTERY TEST LAB LOGISTICS AND DATA PROCESSING

— “The automotive industry is in a period of intense technological transformation towards e-mobility. This is driving demand for battery development and testing,” says Michael Conrad, Global Segment Business Manager at AVL. “Yet, faced with limited capacity, new technologies and new applications, lab managers and engineers are under pressure to maximize productivity and provide valuable insights from the huge amount of data generated during testing.”



To help them run different kinds of labs with highest efficiency, we have developed the AVL Lab Management™ software solution. Designed around users and built on half-a-century of automotive testing and engineering know-how, it is a collection of integrated modules such as AVL CONCERTO™, for data analytics, and AVL SANTORIN MX 2™ for data management.

AVL Lab Management covers everything from lab booking, work order planning, and the preparation and execution of tests, through to data management and post-processing. It boosts lab efficiency and reduces test effort. With the growing complexity of electrified powertrains, and increasing model variants, this is vital if test field operators are to remain competitive.

LAB MANAGEMENT FOR BATTERY

As well as covering generic lab management tasks, our offering also caters for specific systems. This is why we have created AVL Lab Management for Battery. Battery

testing has a high UUT (Unit Under Test) throughput, requiring a high number of tests to be scheduled and executed. Test engineers are often required to monitor an incredibly high number of UUTs – including battery cells, modules and packs, while also carrying out activities such as rigging, mounting and dismounting test units.

Lab Management for Battery tackles this with smart logistics functions and test scheduling algorithms for large UUT numbers. It supports a wide range of test chambers with different test capabilities, operating on different temperature profiles.

“The great thing about AVL Lab Management is the high scalability and flexibility, which is why it can grow with our customers’ requirements,” says Marinette Iwanicki, AVL Product Manager. “Our solution ideally prepares our customers for the dynamic changes being faced by the industry.”