TEA AG

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Your environmental and material testing labTEA AG in Wetzikon is staffed by an interdisciplinary laboratory team of engineers and technicians that specialise in testing products from the electronics and automotive engineering industry, the railway sector, consumer product and defence industry, and in helping our customers to develop, qualify and produce marketable and reliable products.Our servicesEnvironmental testingMaterial testingEngineeringTest systems
We can test your products under any load conditions – temperature, such as temperature changes, moisture, heat and ice – vibrations, mechanical shock with resonance analyses etc. We also perform IP tests (water and dust) for enclosures, seals and modules for road vehicles.More detailed information about our services:Vibration/shockTransport tests and simulationTemperature/climateIP testsUV testsFlammability, fire behaviourFluid resistanceEMC/ESD
Material engineeringMaterial testingWe analyse materials and perform routine tests on components and assemblies, which include testing and analysing a range of properties.Testing specific material propertiesTensile, pressure and hardness testsPart, component and device failure analysesX-ray analyses (digital sensor)Part, component and device failure analysesChemical resistanceDamage analysesFire cause analyses for devices and circuit boardsInsulation failure and electrical breakdown analyses on parts, components and devicesPart and component

wearCorrosion, oxidation and surface changes on parts, components and devicesSolder joint, screw coupling and crimp connection assessments
Identifying and eliminating the causes of failures is key to assuring a product’s safety and reliability. EngineeringAdvice concerning relevant standards, statistical power for product qualification tests?Test engineering comprises the development of test strategies: identifying what is being tested; test concepts:specifying how it is going to be tested; test procedures: specifying how the test is going to be performedMaterial engineering comprises assessing how changes to materials are going to affect their properties in terms of wear, corrosion and oxidation, as well as their electrical and thermal characteristics
Process engineeringcomprises assessing the effects of any changes to the materials, e.g. flux, auxiliary materials such as solvents, the process temperature or the temperature
Test systemsDesign - Development - Maintenance
Test stands and systems:We build exclusive test systems for testing products during their manufacture and special test stands for R&D and QM. This comprises the design, development, implementation and maintenance of test systems for mechanical, electrical, mechatronic components, assemblies and products.The test systems are used during the design phase, production phase, servicing or as test apparatuses for life cycle and reliability tests or product qualification testing.Software:

This comprises the development of bespoke software. This is generally done using the development platform LabVIEW™.

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5. Directlink
6. Directlink
7. Directlink

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