Mechanical testing solutions for lithium ion batteries in electric vehicles
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The trend towards electro mobility is challenging developers to find innovative solutions in the fields of electrical drive systems, lightweight design, autonomous drive and energy storage devices. For now the most commonly used battery technology is based on lithium ion cells. This type of electrochemistry is especially critical in case of damaging and therefore a lot of mechanical testing is being required to ensure that these battery cells are functional and safe in operation. Zwick testing systems are being used for mechanical testing in research, development, quality control and production of battery cells. The presentation is showing examples of testing solutions for tests on battery cells, battery modules and the employed materials.