

Big things sometimes come in small pieces

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Piezos are surprisingly simple functional components with extraordinary properties: high force generation, very fast reaction and high resolution. Different piezo actuator principles are presented and a short market view is given. Using concrete application examples, the unique properties of piezo technology are presented which lead to great advantages in applications.

To put it in a nutshell: piezo actuation has been proved to be an excellent solution for challenges where speed, force and precision are keys for success. Potential applications in industrial and research are reviewed using fast piezo drivers housed in a MicroTCA shelf.

Peter Jänker is founder of the company PIEZOTECHNICS. He holds a PhD in physics and is backed by more than 25 years experiences in developing novel actuators with a focus on piezo. The product portfolio of PIEZOTECHNICSs comprises the necessary highly reliable actuators, economic electronics drivers, and customized electronics.

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