Press Release

Rigaku Introduces New High Accuracy Micro Area Residual Stress Analyzer

The Woodlands, TX – October 5, 2012. Rigaku announces today the global release of the AutoMATE II, a highly accurate micro area residual stress analyzer. The AutoMATE II is an improved version of the AutoMATE, a popular residual stress analyzer in the Japanese automotive industry. The AutoMATE II is designed to ensure that the highest standards are met, as far as residual stress is concerned, in terms of part quality, reliability, durability and safety when automotive parts are designed or produced. The ultimate aim of the integration of the AutoMATE II in the design and production workflow is the elimination of recalls on parts that are impacted by stress and strain issues.

Rigaku Automate II Micro-area X-Ray Stress Measurement System

The most advanced new feature of the AutoMATE II lies in an innovative new X-ray detector. The detector used in the AutoMATE II is the D/teX Ultra1000, an electronic Si strip detector that has high dynamic range, high sensitivity, and good energy resolution, as well as not requiring any consumable gas. The sensitivity of the D/teX Ultra1000 is 1.7 times higher than the previous detector. The large dynamic range allows the new AutoMATE II to easily measure samples consisting of coarse grains. The energy resolution allows you to improve your signal to noise by reducing the fluorescence that increases background.

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,100 people in the manufacturing and support of its analytical equipment, which is used in more than 70 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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