

**News 2008**

**KSA installs new robot-operated workstation**

Following the expansion of its premises in 2007, KSA has now installed a flexible, robot-operated workstation for peen forming processes and further shot peening applications at its site in Aachen.

The machine can handle shot between 0.3 -- 4 mm in diameter and will be used to develop automated peen forming for a wide variety of components of varying geometries and sizes. Once the parameters required for the fully automated forming of these parts have been established using KSA's unique ISIC<sup>®</sup> measuring system, the technology can be transferred to any on-site production facility specified by KSA customers and integrated into the production process there.

The new workstation will also be used to carry out tests for automated wing forming (*APF4WINGS*), including all the steps involved in this process such as peen forming, saturation peening and sanding. Furthermore, the machine is equipped with integrated hydraulic and pneumatic power tools to provide controlled prestressing during peening and with an integrated laser-measurement device for on-line trace detection.

The installation of this new facility combined with the expertise of its team provides KSA with a unique opportunity to continue its development of next-generation technology for new applications of automated peen forming and shot peening.

**Robot-operated workstation:**



**Flexible peening device:**



**Peening tool:**



**Sanding tool:**



**Laser tool:**

