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Safe, precise, stable – a robot for the aerospace industry

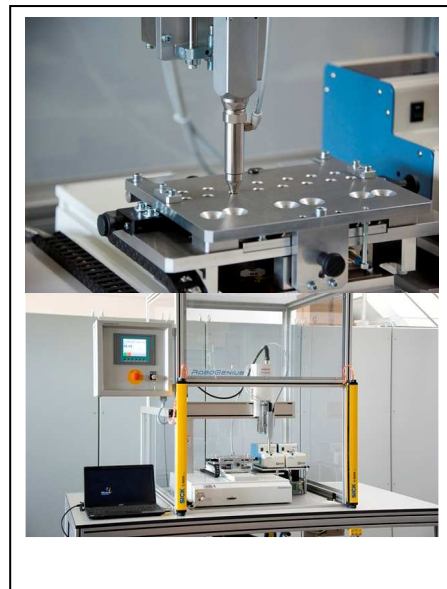
CeCe Technik GmbH based in Dierdorf, Germany, has designed and produced a robot named RoboGenius with profil from item Industrietechnik GmbH. This screw-driving robot is to be used to assemble circuit boards for a large customer in the aerospace sector. According to Michael Böhm, Managing Director of CeCe Technik, the customer has placed strict requirements on the robot's production.

Exceptionally tight tolerance values have been set to guarantee a high level of operational reliability and therefore satisfy the specific demands involved in aerospace engineering. To ensure the device, which weighs almost 300 kilograms, is totally stable, item Profiles 8 40 x 40 mm and Profiles 8 80 x 40 mm are used for the robot's housing and work bench.

An additional requirement was that the entire machine including housing and work bench should be made using electrostatically dissipative materials. CeCe Technik met this requirement by using a combination of ESD glasses and item aluminium profiles, thus bringing to bear its own specialist skills in ESD safety.



RoboGenius has been developed by CeCe Technik GmbH, based in Grossmaischeid, Germany.



An Ethernet standard interface links the robot to the communication network, enabling operators to log and evaluate assembly data.

As CeCe Technik GmbH is positioning itself in the ESD sector – a strategy underlined by the foundation of Germany's first ESD Academy for training and certification – further close cooperation with item is planned for the future. Besides the ESD features of item Profiles, Böhm also appreciates their “outstanding flexibility when it comes to integrating technical components to satisfy production-specific and ergonomic requirements for work benches.” A striking copy of the robot will be on show at the MOTTEK trade fair, which is taking place from 10 to 13 October in Stuttgart, Germany.

Further information can be found on the following websites:

www.item24.com

www.cece-technik.de

www.esd-akademie.de

item Industrietechnik GmbH from Solingen, Germany, develops and supplies the MB Building Kit System, a system which enables customised solutions for all aspects of industrial factory equipment engineering. The Building Kit System is based on aluminium profiles, carefully coordinated fasteners, and versatile functional elements.