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Press information

Multi-sensor flexibility in form measuring: the new Formtracer Extreme SV-C4500CNC HYBRID Type 1

The manufacturer of dimensional measuring instruments Mitutoyo adds a brilliant new multi-sensor form measuring instrument to their portfolio: the newly-developed "Formtracer Extreme SV-C4500CNC HYBRID Type 1". This new system is equipped with a surface roughness detector, a contour detector and a confocal chromatic point sensor (CPS) employing axial chromatic aberration.

Neuss, March 2017. The form measuring solutions by the Japanese premium measuring instruments manufacturer MITUTOYO are well-renowned for their high accuracy, their excellent quality and their outstanding usability throughout the branches. Now the metrology specialists launch a new multi-sensor form measuring instrument for surface roughness and contour by name of "Formtracer Extreme SV-C4500CNC Hybrid Type 1".

The new device featuring three separate, exchangeable drive units boasts the functionality of three individual fully CNC instruments, combined in a single system. It is equipped with a surface roughness detector, a contour detector and a confocal chromatic point sensor (CPS) employing axial chromatic aberration. Thus, it offers both, contact and non-contact measuring opportunity. Customers have a choice between the model type 1A featuring the confocal chromatic point sensors CPS2525 with a resolution of 25nm and the model type 1B equipped with CPS0517 sensor with a resolution of 5nm.

The Formtracer Extreme SV-C4500CNC Hybrid Type 1 performs non-contact contour and roughness measurement even on parts with steeply inclined surfaces and soft materials. The high drive speed of up to 200 mm/s in all axes and a measuring speed between 0,02 and 2mm makes for fast workpiece inspection and high throughput. The extremely powerful software FORMTRACEPAK performs surface roughness analysis and contour evaluation and controls all axes.