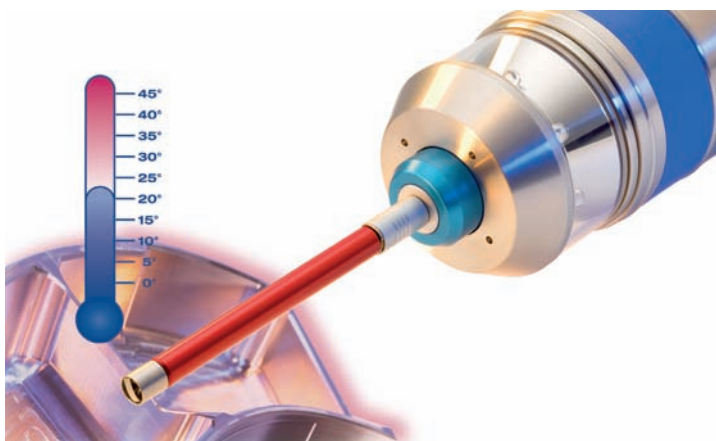


Touch Probe with Wireless Receiver Helps Prevent Rejects by Ensuring Precise Machining at Any Workpiece Temperature

The newly released 25.44-HDR temperature touch probe offered by M&H Inprocess Messtechnik GmbH ascertains actual workpiece temperature, making it possible for manufacturing quality to be consistent regardless of heat conditions.

The probe touches the workpiece with a temperature sensor at a predefined spot to determine temperature in seconds. It transmits the data to the 91.40-RX/TX/°C receiver (which also accepts signals from ordinary touch probes) via an infrared signal, using M&H's proven HDR technology. Installing just one receiver allows both temperature and workpiece dimensions to be captured and transmitted to the control wirelessly.



As tolerances become increasingly precise, metal-cutting manufacturers need to be assured of constant workpiece quality whether in summer or winter, despite the exposure of workpieces to ambient or process heat, and even if unprocessed blanks are delivered from a cold truck just in time for production. Thus, workpiece tempera-

ture must be factored into machining parameters if costly reworking is to be avoided.

The 25.44-HDR touch probe helps prevent rejects, let alone the need to remachine workpieces. With this innovative technology, operators can integrate actual workpiece temperature into the machining sequence and, as the case may be, determine the machining

parameters suitable for a particular temperature. Certain knowledge of the workpiece temperature enables them to control that temperature by applying a coolant shower to ensure close-tolerance machining.

M&H Inprocess Messtechnik GmbH
WALDBURG, GERMANY
www.etmm.info/2008/11/156

Established Technology for Printing 3D CAD Files Takes Desktop Form in Highly Productive Office-Friendly RP Printer

The innovative new Alaris™30 desktop 3D printer just introduced by Objet Geometries Ltd. allows designers

and manufacturers to create durable, high-quality models from 3D CAD files easily, cost-efficiently, and with great accuracy. Providing advanced in-house rapid prototyping capabilities, the office-friendly system prints true-to-life parts with exceptional detail, including moving parts, text that stands out clearly, and finished-quality smooth surfaces. Users can expect shorter design cycles and fewer errors while enjoying the benefits of facilitated creative teamwork and enhanced confidentiality.

The Alaris30 is based on Objet's PolyJet™ photopolymer jetting technology, which achieves 600 x 600-dpi resolution by depositing proprietary VeroWhite model and Full-Cure photopolymer materials in 28-µm layers. The jetting head slides back and forth along the x-axis to add layers

to the model in the 300 x 200 x 150-mm build tray. Each layer is immediately cured and hardened by the application of ultraviolet light. Fully cured models can be handled immediately, without postcuring.

The geometry of the support structure makes possible such complicated model geometries as cavities, overhangs, undercuts, delicate features, and walls as thin as 0.6 mm. When the build is finished, the nontoxic support material is removed via water-jetting or by hand. The model is then ready for fit, form, and function testing, for painting, drilling, or chrome-plating, or for use as a mould for tooling.

Designed for high productivity as well as accuracy and ease of use, the Alaris30 operates like a network printer, serving multiple designers throughout a firm. It can build large models or many small parts simultaneously.

Objet Geometries Ltd.
REHOVOT, ISRAEL
www.etmm.info/2008/11/157

