

Controller Adds Surface Finish Capability



Mahr Federal has introduced a new version of its successful MMQ 400 series. The new MarForm MMQ 400-2 integrates a new controller that dramatically increases the speed and resolution of the machine, and allows it to measure surface finish characteristics according to accepted ISO, ASME, and JIS standards.

"Traditionally, form measurement machines are designed to measure longer wavelengths, allowing 5-10 microns between data points," said Pat Nugent, Vice President of Metrology for Mahr Federal. "But the increased speed and resolution of the new MMQ 400-2 controller has been specifically designed with surface roughness in mind. It can sample data with spacing as tight as 0.005 microns, far exceeding accepted international standards for roughness measurement."

As a result, Nugent added, operators will benefit from reduced set-up and measurement cycle time using the MMQ 400-2, and reduce costs by needing only a single piece of equipment for both form and surface measurements.

The MarForm MMQ 400-2 Formtester was a ground up redesign that is more robust, less sensitive to environmental influences, faster, more flexible, and more accurate than comparable systems. The MMQ 400-2 offers an impressive array of features, including extremely solid construction with a generously dimensioned, reinforced steel base. High-precision mechanical bearings for the rotary table eliminate the need for an air supply, and all motors and electronic components have been thermally isolated to enhance stability. Wherever possible, homogeneous materials have been used in construction to minimize the effects of thermal expansion.

Source URL (retrieved on 01/26/2015 - 1:59am):

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Published on Medical Design Technology (<http://www.mdtmag.com>)

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