

TMD TODAY'S MEDICAL DEVELOPMENTS

Dedicated to the Design & Manufacturing of Medical Equipment and Devices

United Grinding Technologies' Mägerle MFP 50 5-Axis CD Grinding Center



FANUC FA America's Tablet-Type Devices Remotely Monitor CNCs



NVision's Contract Services for Medical CT Scanning Projects

Increasing Medical CT Scanning Projects

NVision Inc. officials report an increasing number of its contract scanning services now involve CT scanning for reverse engineering, and inspection and measurement of medical components and surgical tools. The ongoing advance of medical technology has created a growing need for ever-more-precise medical component scanning capabilities. With NVision CT scanning services, NVision is able to meet this important need for the medical original equipment manufacturer (OEM) community, whether the scanned object is a small part or a large, heavy metal product.

Excellent results from CT scanning are possible on non-metallic components fitting within an envelope of 150mm diameter. Small plastic medical components are therefore ideal candidates for CT scanning. The output received from the CT scanner is a STL (stereo lithography) format file, which is opened in specialized software for inspection against a CAD file, or used to create a CAD file in the customer's required native format such as SolidWorks, Siemens NX, Catia, Pro E, and Inventor.



NVision Inc.

Coppell, TX
www.nvision3d.com



Small Mägerle Featuring Various Configurations

Mägerle MFP 50 5-axis CD Grinding Center, featuring an automatic grinding wheel and tool changer includes an integrated automatic tool changer that can switch wheels in eight seconds using a swing arm configuration. Maximum tool dimensions are 300.0mm x 60.0mm x 76.2mm, and wheel/tool changer capacity, depending on the diameter, is 10 to 30 conventional grinding wheels, plated or ceramic bonded CBN wheels, as well as drilling and milling tools. A reliable HSK-80 wheel flange system offers rigidity and precision needed for close tolerance parts with high surface finish requirements.

The machine is equipped with a proven overhead mounted two axes CD diamond dresser with horizontal and vertical NC axis for the accommodation of several diamond rolls with various profiles for CD or non-CD, as well as for CNC dressing with a disc. The grinding wheels with different profiles are always on the same spindle position. Important to the MFP 50 are the Mägerle developed hydrostatic wrap-around guideways utilized in the Y-axis, which are 100% wear-free and offer high rigidity and load capacity, optimum smoothness and vibration dampening, and maximum precision and process reliability. All main axes of the MFP 50 can rapidly traverse at 20,000mm/min (790ipm). X-axis travel is 500mm, Y-axis spindle travel is 660mm, and Z-axis travel is 660mm.

United Grinding Technologies Inc.

Miamisburg, OH
www.grinding.com



Tablet-Type Devices Remotely Monitor CNCs

A new option from FANUC FA America allows the Series 30i/31i/32i-Model B CNCs to be monitored remotely using tablet-type devices. This latest advancement in remote monitoring greatly enhances the maintainability and production capabilities of the FANUC CNC.

In addition, the Series 30i/31i/32i-Model B CNC, is now capable of acting as a web server, allowing users to display CNC screens on any device on the network; for example, over wireless Ethernet to communicate with a tablet-type device. This ability allows maintenance or production personnel on the shop floor to monitor all the CNC equipment from across the shop in one location and on one device.

For advanced smooth and accurate simultaneous 5-axis high-speed machining, FANUC's 30i-B/31i-B5 CNCs offer the new high-speed smooth TCP with new fairing technology. This drastically reduces cycle times while improving part accuracy and quality. For complex machining processes, this is the ideal combination of FANUC's high-speed 5-axis features. In addition, FANUC Series 30i-Model B CNCs (this includes 30i-B, 31i-B, 31i-B5, 32i-, and 35i-B) offer an enhanced high-speed and large capacity, multi-path PMC delivering large-scale sequence control with a maximum of five concurrent independent ladders. Execution of common instructions is more than 2.5 times faster than previous generations. **tmd**

► View the Series in action at bit.ly/U1LFJj.

FANUC FA America

Hoffman Estates, IL
www.fanucfa.com