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Calypso 4.6 From Carl Zeiss: Measuring Is Even Easier And More Efficient

MAPLE GROVE, Jun 3 — Carl Zeiss introduced today at MD&M EAST 2008 (Booth #2772) CALYPSO[®] 4.6, a new version of the CAD-based measuring software. CALYPSO improves combined optical and contact measuring with multi-sensor applications. For users, this primarily means additional time savings coupled with even more reliable, error-free measuring: whether contact or optical measuring, scanning or single-point measuring. CALYPSO combines several measurement strategies per geometric element in a single measurement plan, which can be optionally executed.

Contact and optical measuring methods complement each other ideally with many workpieces. Carl Zeiss took this into account with the introduction of MASS[®] Technology (Multiple Application Sensor System). CALYPSO 4.6 now increases measuring efficiency: the new version of this CAD-based software also supports automatic sensor change with measuring strategies optimized for the sensor during data capture on the workpiece.

Many strategies – one measuring plan

CALYPSO provides the foundation for clearly shorter measuring times as several different measuring strategies for geometric elements can be managed in a single measuring plan. Maintenance is reduced to a minimum.

(more)

The corresponding strategies can be stored for single-point measuring and scanning, contact and optical measuring: specifying a few points permits the fast, random inspection of a part or single geometries through single-point measuring, a short program in a manner of speaking. The specification of many points allows analytical assessments and reference measurements, primarily through contact or optical scanning. If the desired version is selected, the automatic measuring run is performed with the appropriate speed and with different information densities. An additional beneficial application of this new function is measuring plan optimization for use on different coordinate measuring machines with non-standardized sensors. This enables users to specify the measuring strategy for use on alternate machines.

Add tolerances with the click of a mouse

Characteristics are now also generated and tolerances transferred to the measurement plan quickly and efficiently without operator influence. Tolerances in the CatiaV5 and Pro/E CAD formats are transferred via a direct interface. With pre-defined measurement strategies, a click of the mouse on the given tolerance of a characteristic in the CAD model is all that is needed. All geometric elements required for the characteristic are then automatically incorporated and the measurement strategy and all travel paths generated. Users can select single tolerances. With a click, they can also easily add all tolerances of a workpiece to CALYPSO. The intelligent travel path generation in CALYPSO reduces possible reworking by the user to an absolute minimum. This takes the generation of a measurement plan for CNC part measurement to an outstanding level of automation.

Carl Zeiss Industrial Metrology is a member of the Carl Zeiss Group. It is the global leader in CNC coordinate measuring machines and complete, multi-dimensional metrology solutions for a wide variety of industrial sectors. Approximately 1,500 employees at three manufacturing locations and more than 100 sales and service centers serve customers around the world.

Carl Zeiss is a globally leading international group of companies in the optical and opto-electronic industry. In fiscal year 2006/07 (ended 30 September), the Carl Zeiss Group, which is wholly owned by the Carl Zeiss Foundation, generated sales totaling EUR 2,604 million. The Carl Zeiss Group has approximately 12,300 employees.

Further information is available at www.zeiss.com/imt and www.zeiss.com.

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Photo Caption: With CALYPSO 4.6, a click of the mouse on a tolerance in the CAD model is all that is needed to automatically generate the optimal measurement strategy.

