



**ZEISS DuraMax HTG**  
Meets Its Collaborative Assistants



# ZEISS DuraMax HTG

## Meets Its Collaborative Assistants

Specific product and customer requirements are rapidly leading to increased cost and efficiency pressure. In order to meet this challenge, the production processes of today and tomorrow will be steered and optimized using real-time information. Quality assurance plays a key role in this transformation, and a coordinate measuring machine completely integrated into the production process provides the foundation for achieving this goal.

### Communication

*Numerous interfaces enable communication between various handling and manufacturing systems.*

### A collaborative robot and assistant

*Flexible integration into the work environment ensures direct integration, making additional protective equipment or barriers unnecessary.*

### Temperature sensor

*Automated temperature compensation and a link to the measuring result – for every component.*

### Feeding

*Tailor-made solutions for seamless integration into your production line.*

### Fully automated program selection

*Ensure that the right measuring program is selected with different components for efficient, reliable measurements.*

### Fully automatic reporting

*Display individual results as well as management and manufacturing reports to monitor production in real time.*

### Fixturing

*The automatic presets for fixturing are customized to accommodate the particular component dimensions, saving you set-up time and additional equipment.*





*The flexible measurement system, consisting of a collaborative robot and a ZEISS DuraMax HTG, reduces the metrology engineer's day-to-day workload while simultaneously increasing productivity.*



### **Designed for the shop floor**

The ZEISS DuraMax performs in-line measurements. With an expanded temperature range of 15°C to 40°C and specified temperature changes of up to 3 K/h, the ZEISS DuraMax is made for use on the shop floor.

### **Minimal footprint for full accessibility**

A collaborative robot is used for loading, allowing for in-line measurements without additional protective equipment and keeping the space requirements on the shop floor to a minimum. To ensure that the ZEISS DuraMax is seamlessly integrated into your production facility, small or large, the 24/7 system is completely accessible from all three sides. Fully automated loading means the measuring system works at full capacity around the clock.

### **Easy access to all important data**

The ZEISS PiWeb software analyzes, evaluates and visualizes your quality and process data in real time so that the results are available immediately. This way the measurement results can be converted directly into correction values for production, which saves time and prevents potential defects. Quality and process data are displayed at the same time. Context and weak points can be identified immediately.

### **Open communication all across the board**

The automated solution from ZEISS provides interfaces to all relevant systems, from overriding control systems to different handling and other systems involved on the shop floor. The communication is in-line with customer requirements, i.e. via established bus systems, OPC, TCP/IP, etc.

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