Laser systems

Smart Services

Available for laser systems

Your advantages at a glance

> **Availability**
Proactive analysis and monitoring of machines and lasers reduces machine downtimes and increases productivity.

> **Transparency**
Visualization of laser system information and statuses in clear dashboards.

> **Traceability**
Local and process-synchronized quality data storage in your systems.

> **Optimization**
Increased efficiency in feature detection by VisionLine and EasyModel AI.

TRUMPF

Machine tools/Power tools
Laser technology/Electronics

Data is processed and analyzed by TRUMPF

The integration of laser systems enables location-independent visualization of equipment information. This increased transparency in your production process allows you to better monitor laser conditions and capacities and independently derive optimization measures. In addition, sensor data and messages are analyzed by TRUMPF service experts and algorithms. As a result, possible anomalies can be detected in good time and unplanned downtime can be avoided.

Smart View

Complete transparency of the laser pool status.

- Clear visualization of important information, such as error messages, utilization, statuses and program runs
- Fast response times in the event of faults
- Identification of recurring events
- Monitoring of program changes

Condition Monitoring

Monitoring of laser system status by TRUMPF.

- Data analysis by algorithms and experts
- Proactive contact by experts
- Reduction of machine downtimes
- Optimized preparation of service missions

Data is processed and analyzed by you

In addition to services that analyze TRUMPF condition data, there is a range of products that enable you to record, structure and interpret information.

OPC UA enables local data extraction from the laser devices.

Quality Data Storage transfers formatted and structured process data for data backup. This is done in a process-synchronized manner and supports component-related traceability and quality data analysis.

EasyModel AI, an option for VisionLine Detect, requires no programming knowledge. After a short training session, the laser reliably detects the relevant processing area despite difficult lighting conditions. To do this, the user marks relevant component areas once using several images, which are then adopted as learning content.

Interfaces

Data is extracted directly from the laser device.
Data is available for you to use in your systems.

- OPC UA – contains measured values
- Fieldbus – interface to the PLC
- Digital I/O – real-time interface

Quality Data Storage*

Providing structured process and quality data to your own data management system.

- Enables process-synchronous data backup
- Supports traceability and documentation
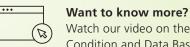- Internal analysis and control of process quality possible

* Only for TruLaser Station 7000.

EasyModel AI

Image-based training tool for AI-supported position detection.

- Improved feature detection in Vision Line Detect
- Simple operation, fast results, minimal impact on process time
- Makes your processes more robust

Get in touch with us
Feel free to contact us by e-mail:
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Want to know more?
Watch our video on the
Condition and Data Based Services:
www.trumpf.info/y7choz

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