Laser

Smart Services

Your advantages at a glance

Availability
Proactive analysis and monitoring of laser devices reduces machine downtimes and increases productivity.

Transparency
Visualization of device information and statuses in clear dashboards.

Traceability
Local and process-synchronized quality data for connection to 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 connection of laser devices to **Smart View** enables the visualization of device statuses across locations. Thanks to this increased transparency in your production, laser statuses and operational readiness can be better monitored and optimization measures can be derived.

Predictive **Condition Monitoring** begins with the use of algorithms. Anomalies lead to a comprehensive analysis by a service expert. They also recommend a course of action, which is communicated to you immediately. As a result, over 80% of anomalies are detected in good time and unplanned downtimes are reduced.

The **Condition Check** includes a well-founded assessment of the current condition of your laser device without a device connection. The **Health Check** goes one step further. After the additional on-site assessment by a service engineer, you can estimate the costs of important consumables and plan accordingly.

Smart View

Complete transparency of the status of the laser pool.

- Clear visualization of important information, such as error messages, maintenance, capacity utilization and statuses
- Identification of recurring events
- Faster processing time in the event of faults

Condition Monitoring

Monitoring of laser conditions by TRUMPF.

- Data analysis by algorithms and experts
- Proactive contact by experts
- Reduction of machine downtimes
- Optimized preparation of service assignments
- Over 80% of service cases are discovered by TRUMPF

Condition Check

One-off Condition Report based on a data printout from your laser device.

- Analysis of the device status with report
- No permanent data connection necessary

Health Check

Assessment of the technical condition with estimation of possible replacement part costs

- Includes the Condition Check and Diode-Lifetime-Check
- Supplemented by on-site inspection

Data is processed and analyzed by you

In addition to services that analyze TRUMPF status 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 in your own data management system.

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

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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