

IN-PROCESS DEPTH METER IDM

The In-process Depth Meter IDM can be used to perform distance measurements directly in the interaction zone even when processing with high power lasers. The process emissions and the laser radiation itself have no influence on the measurement accuracy of the method.



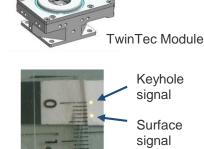
KEY FEATURES

- autonomous in-process measurement system
- non-contact measurement with 70 kHz
- TwinTec enables simultaneous distance measurement to the workpiece surface and absolute measurement of the laser penetration depth
- reduces destructive component testing
- sensor add-on for the Laser Welding Monitor LWM

PowerTec: Laser power control

Different factors can result in a non-constant welding depth over the entire machining time. With the exact measurement of the keyhole depth and the integrated controller of the Precitec IDM, it is now possible to control the welding depth under adjustment of the laser power. The updater of the controller is identical to the sampling rate of the sensor and is a maximum of 70 kHz.

◆ TwinTec



◆ PowerTec

