

Transmission Measuring for Radial Symmetric Parts

LPKF TMG 3 Radial

- LPKF TMG 3 Radial version for rotation symmetrical parts
- Damage-free measurement of cylindrical applications
- Detects transmittance fluctuations between components with an accuracy of $< 1\%$



Calibration in cooperation with:



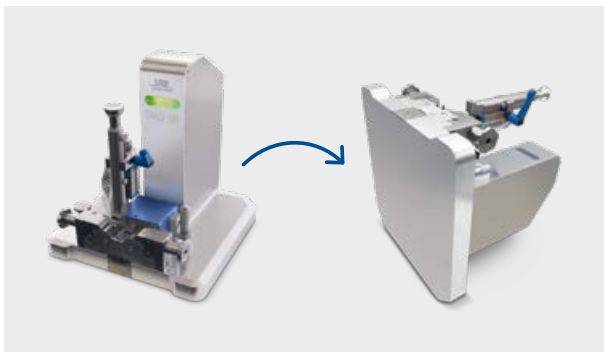
LPKF
Laser & Electronics

Best in Class for Transmittance Measurement

The optical transmittance properties of plastics for laser welding are decisive for the quality of the joint and welding seam later. Checking the material properties before the joining process pays off as part of holistic quality assurance. For best joining results. For the best of your products.

The traceable calibrated and certified device measures the transmittance @ 980 nm of plastics and detects material deviations caused by injection moulding. The results are available within a few seconds.

- Two operation positions possible – horizontal and vertical / horizontal for easy access and measurement also for longer parts and tubes / vertical position for short parts and fine adjustment of sensors
- Different adjustment features and screws for precise but flexible part positioning
- Insensitive to light interferences
- Stand-alone operation with a PC and software
- LPKF test laboratory and procedures IATF 16949 compliant
- Optionally available: Reference glass filter for inhouse checking of transmission values



Two operation positions possible for different sizes of parts

LPKF TMG 3 Radial

Laser class	1
Laser wavelength	980 nm
Power supply	5 V DC via USB
Interfaces	USB, RS232
Diameter of the sensor aperture	3 mm x 5 mm
Focus diameter of the laser beam	~ 1.2 mm
Diameter range for products	4 mm – 45 mm
Part wall thickness	0.5 mm – 4 mm
Immersion depth	15 mm
Precision	≤ 1 % transmission
Dimensions (W x H x D)	230 x 240 x 265 mm
Weight	3.5 kg



Cylindrical parts, i.e. for automotive applications



Made in Germany

LPKF Laser & Electronics SE (Headquarters)

Osteriede 7 30827 Garbsen Germany
Phone +49 (5131) 7095-0 info@lpkf.com www.lpkf.com

LPKF WeldingEquipment GmbH

Alfred-Nobel-Str. 55 – 57 90765 Fürth Germany
Phone +49 (911) 669859-0 info.laserwelding@lpkf.com www.lpkf.com



LPKF Service & Support

LPKF provides worldwide premium customer support. Learn more:

www.lpkf.com/support

