

Leica TPS1200 with GUS74 Laser Guide – ideal for Tunneling Applications



Leica TPS1200 with Laser Guide GUS74 is the perfect tool for tunnelling applications. Its small red laser spot makes it ideal for guiding tunnel boring machines or visualizing boreholes for rock blasting.

Laser Guide GUS74 Features

- Red laser spot
 - small diameter
 - clearly visible even in difficult conditions
 - visible up to 500 m
- Can be operated using the total station keyboard or remotely from a PC via the serial interface of the total station

- when it has to be **right**

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Visible Laser Spot

- Very small laser spot marks points exactly – typical spot diameter of less than 45 mm at 200 m.
- Clear red laser spot – easy to see, even in difficult conditions (e.g. dust, water).
- Laser spot visible up to 500 m, depending on light conditions and surface.

Operation

- The Laser Guide GUS74 can be operated manually via the total station keyboard.
- For remote operation the Laser Guide GUS74 can be controlled from a PC via the serial interface of the total station.
- The Laser Guide's intensity can be regulated in ten steps from 0 % to 100 % – for optimal visibility in all light conditions.

Applications

- Ideal for tunneling and mining applications (e.g. guiding tunnel boring machines, visualizing boreholes for rock blasting).
- Precise marking of inaccessible objects.

Instrument Types

- The Laser Guide GUS74 is available as an option for the TPS1200 instrument types TCA and TCRA.



Technical Data – Laser Guide GUS74	
Range	
Daylight	250 m
Darkness	500 m
Typical Spot Diameter	
At 50 m	< 15 mm
At 100 m	< 25 mm
At 200 m	< 45 mm
At 300 m	< 65 mm
Offset to line-of-sight	
Vertical offset	52.2 mm

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Laser Guide GUS74, Distance meter (PinPoint R100 / R300):
Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1

Laser plummet:
Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

Distance meter (IR), ATR:
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1