High-End-Package for Machine Alignment

µLine 30

– contains the Package µLine for Positioning and the Starter Package ProLine 10 for Straightness Measurement

Content of the Package for Positioning

µLine – Laser LH2 (BT 840205)
- Two frequency Interferometer with highest accuracy.
- Integrated Compensation unit
- Integrated Beam alignment
- Integrated Alignment caps
- Integrated Angular adjustments
- Magnetic base
- Integrated Bluetooth

IL1 Interferometer Element (BT 840270)
- External Interferometer Element
- Integrated 90° beam
- Integrated Spirit level
- Integrated Alignment caps
- Standard 8mm stud

RL1 Reflector element (BT 840280)
- Integrated Alignment caps
- Standard 8mm stud

2 x UM1 Magnetic mounting (BT 840260)
- Magnetic mounting with adjustable arm for the optical elements
PC Software module 5 (SW 840205)
• Vibration measurement

T1 Material temperature sensor (BT 840290)
• Precise, calibrated surface temperature sensor
• Wireless

TH Environment sensor (BT 840295)
Precise calibrated sensor for:
• Air pressure
• Air humidity
• Air temperature
• Wireless

PC Software base (SW 840200)
Content of the basic software:
• Beam alignment
• Position measurement
• G-Codes
• Compensation table for Siemens, Heidenhain etc.

Power supply (BT 840220)

USB cable (BT 840300)

Tripod (BG 840231)
• Complete with alignment head

Case (BT 840320)
• Rugged transport and store case
Content of the Package for Straightness Measurement

**T250** Laser Source – with mounting adapter and power supply (SP T250-P)

The T250 Laser is a highly developed Laser source that is very small in dimension, which is a great help when measuring where there’s not much room! The T250 Laser possesses a beam of outstanding quality.

**R540** Laser Receiver with a 2-Axis-PSD Technology and Bluetooth (SP R540-P)

The R540 is a very accurate and yet robust Laser Position Sensor especially developed for measuring linearity. The R540 has a downwardly offset detector lens enabling measurement directly above the object. This minimizes offset error due to “tilt” or roll. Connection with the Measurement PC for recording and display purposes is over Bluetooth. The R540 is powered by a commonly used Li-Ion Pack (externally rechargeable) ensuring continual measurement availability. Combined with the Pro Line software and a Bluetooth distance measurement meter, you are equipped to measure the X,Y and Z Axes simultaneously.

**2x Block Magnet complete with a cross-bridge (BG 830315)**

Block magnet (BT 943105) complete with a cross-bridge. This enables the mounting of a R540 Sensor or T250 laser with adapter BG 830780. Available attachment rods: BT 948155, BT 948156, BT 948157

**4x Rod, 150 mm length (BT 948157)**

Attachment rod: 10 mm diameter, M8 thread enabling fixture of a sensor.
2x Mounting Adapter T250, R280, R310, R540 (BG 830780)

This adapter is of great practical help for measuring with the T250 laser or the R540, R280 and R310 receiver. It allows to adjust the height of the laser or sensor by moving it on the attachment rods mounted on the block magnet complete with a cross-bridge.

Magnetic Attachment for T250 (BG 830790)

Magnetic attachment for T250 Laser. The attachment can be mounted under, in front of or behind the T250. Dimensions: 60 x 60 x 14,5 mm

ProLine v3 Software with starter license for R5xx and R310 (SW 200103)

ProLine V3 – Alignment software for linear guides

- Easy measurement and professional analysis
- Automatically connection management, wireless via Bluetooth
- Measurement of X- and Y axis simultaneously
- Automatically detection of the distance by Bluetooth Disto (TM)
- Manually or automatically measurement
- Zeroing of two points or best-fit analysis
- Adjustment with live values
- Data view with all values and calculations
- One click report containing all graphics and data in pdf format
- Easy to use touchscreen software

Laser Kit Case small with foam inlays – version T250 (BG 990101)

Rugged Case IP65 with wheels and telescope handle. The small case is complete with the following main foam inlays:

- BT 990020: Foam inlay for R310, R5XX
- BT 990027: Foam inlay for UMPC
- BT 990036, BT 990037: Foam inlay for T250
Optional Extension kit for Roll and Nick measurement
Autocollimation type straightness (BG 840210)

Content:
1 x Angle Interferometer Prism IK1
1 x Angle unit with Retro Reflector RK1, base length 100 mm

Optional Extension kit for Flatness Measurement for surfaces up to 15 x 15 m (BG 840270)

Content:
1 x Tilted Mirror BB2

Rotary kit for the precise measurement of turn tables (BG 840240)
The indexer allows a precise measurement and compensation of turn tables. The measurement requires the BG 840210.

Content:
1 x Rotary indexer
1 x BT Module
1 x Rugged case

Extension kit for angular measurements (BG 840260)
3D Etalon for the measurement of 90° with the mentioned 3D precision.

µLine is a co-operation project between the University Wrocław (Breslau), Lasertex Co. Ltd. and Status Pro Maschinenmesstechnik GmbH.