

# $\mu$ Line 30

Laser-Interferometer High-End Package



# High-End-Package for Machine Alignment

# $\mu$ Line 30

– contains the Package  $\mu$ Line for Positioning and the Starter Package ProLine 10 for Straightness Measurement

## Content of the Package for Positioning

# $\mu$ Line



### $\mu$ Line – 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



### T1 Material temperature sensor (BT 840290)

- Precise, calibrated surface temperature sensor
- Wireless

### TH Environment sensor (BT 840295)

Precise calibrated sensor for:

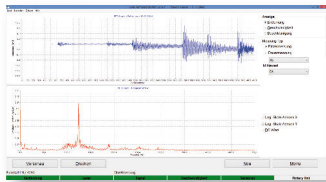
- Air pressure
- Air humidity
- Air temperature
- Wireless



### PC Software base (SW 840200)

Content of the basic software:

- Beam alignment
- Position measurement
- G-Codes
- Compensation table for Siemens, Heidenhain etc.



### PC Software module 5 (SW 840205)

- Vibration measurement



Power supply  
(BT 840220)



USB cable  
(BT 840300)



Case (BT 840320)

- Rugged transport and store case

Tripod (BG 840231)

- Complete with alignment head



## Content of the Package for Straightness Measurement

# ProLine® 10

### 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)



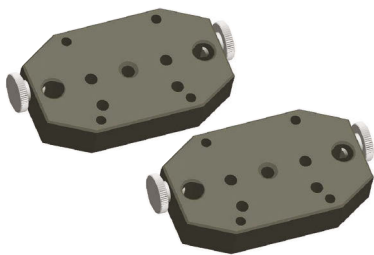
Block magnet (BT 943105) complete with a cross-bridge. This enables the mounting of a R540 Sensor or T250 laser with adapter BG 830780. Available attachment rods: BT 948155, BT 948156, BT 948157

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



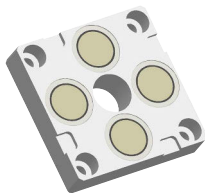
Attachment rod: 10 mm diameter, M8 thread enabling fixture of a sensor.

## 2x Mounting Adapter T250, R280, R310, R540 (BG 830780)



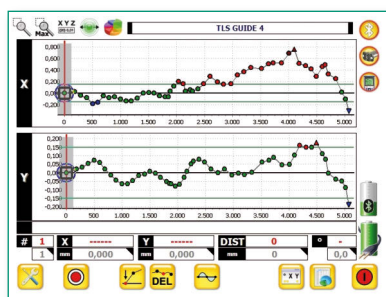
This adapter is of great practical help for measuring with the T250 laser or the R540, R280 and R310 receiver. It allows to adjust the height of the laser or sensor by moving it on the attachment rods mounted on the block magnet complete with a cross-bridge.

## 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

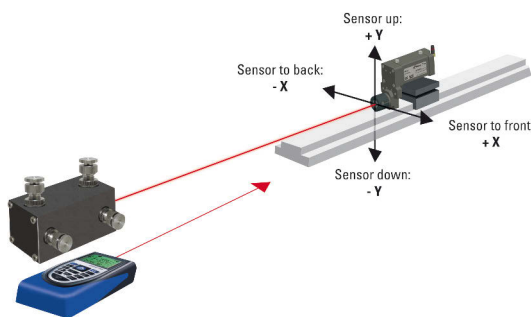
## ProLine v3 Software with starter license for R5xx and R310 (SW 200103)



### 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)

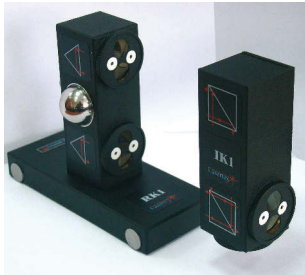


Rugged Case IP65 with wheels and telescope handle.

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

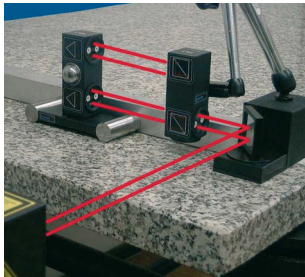
Also for the  $\mu$ Line available: many extension kits for rotary table, roll and nick, straightness, flatness or right angle measurement. Please contact us for more information.



**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

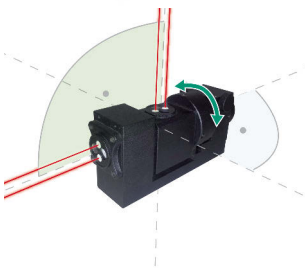


**Rotary kit for the precise measurement of turn tables (BG 840240)**

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.

**$\mu$ Line** is a co-operation project between the University Wrocław  
(Breslau), Lasertex Co. Ltd. and Status Pro Maschinenmesstechnik GmbH.



Status Pro Maschinenmesstechnik GmbH  
Mausegatt 19  
D-44866 Bochum  
Phone: + 49 (0) 2327 - 9881 - 0  
Fax: + 49 (0) 2327 - 9881 - 81  
www.statuspro.com  
info@statuspro.com

PC 1092E 04/14 · Design / DTP: Seichter & Steffens Grafikdesign, D-44229 Dortmund.  
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