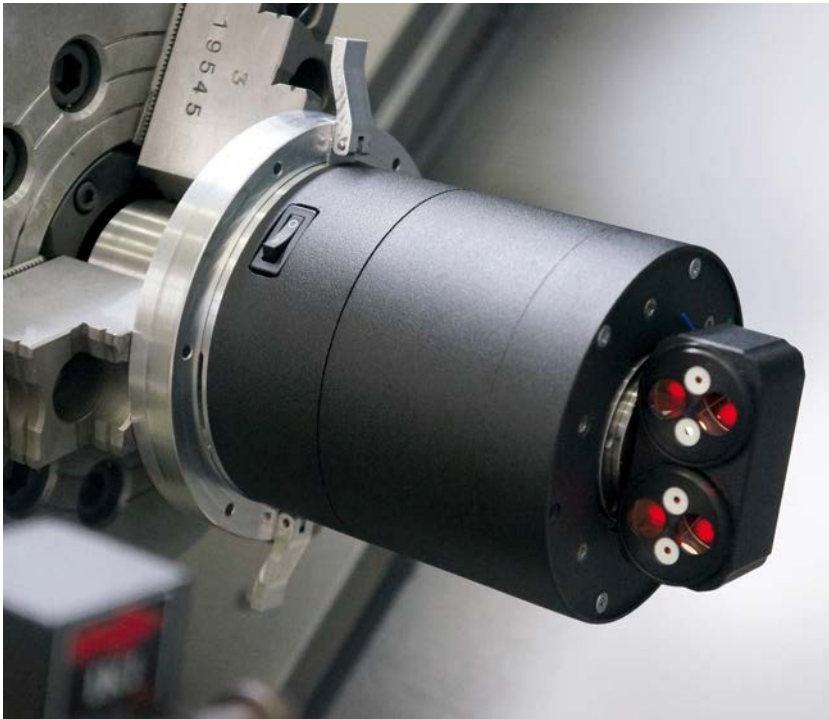


# $\mu$ Wally

Measurement system for the calibration of rotating axes



- Fully automated measurement and calibration
- Highest possible precision
- Wireless connection via Bluetooth
- Li-Ion battery for 30h of operation!



# $\mu$ Line

The  $\mu$ Line Laser Interferometer is a complete and universal measurement system for measuring positioning as well as dual-axis straightness. The system was developed to operate to the highest precision standards. The  $\mu$ Line laser head is used in a large scope of industries such as: CNC machine calibration, the printing industry, in laboratories and in the semiconductor production etc.



## Calibration of rotating axes:

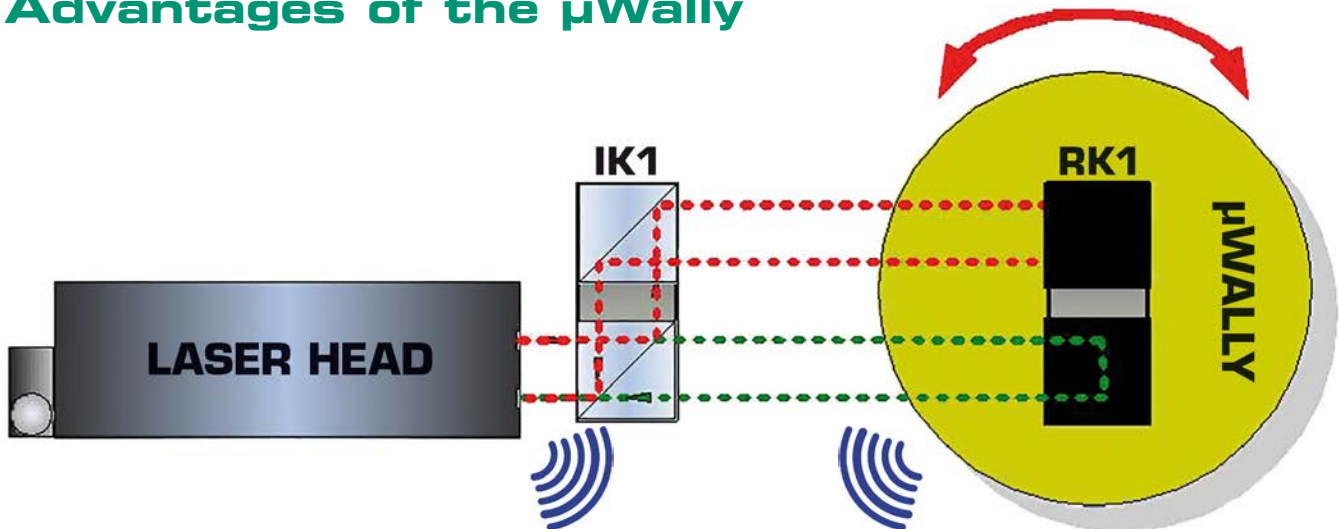
The complexity of machines is always increasing and the growing popularity of multi-axes machines necessitates newer measurement technologies.

The measurement of rotating axes is also very important. With the  $\mu$ Line, the measurement of Angular accuracy, Backlash as well as Reproducibility is achieved in one go!. Simple fault diagnosis irrespective of whether measuring a new machine, an overhauled machine or a "crash candidate".

With trustworthy and secure measurement results are you in a position to handle the task



## Advantages of the $\mu$ Wally



The  $\mu$ Wally calibration system is capable of carrying high reproducible and accurate measurements using a specialized encoder.

The comparison between the "true" turned angle and the machine display is measured using the Interferometer and the  $\mu$ Wally unit.

Any angle of rotation can be measured with a precision of 1 arcsec (0,00027°).

The mechanical characteristics of the "gearbox" ensure the highest precision over many years.

## Calibration process

- 1) The  $\mu$ Wally is positioned in the axis of rotation.
- 2) The "optics" are aligned with the  $\mu$ Line LH2 Laser head.
- 3) The  $\mu$ Line Laser Unit and the  $\mu$ Wally are connected with each other (click "Link").  
The calibration process will now be started automatically.
- 4) Table rotation now proceeds in the desired increments.  
Measurements are carried out in both directions, several times with automatic recording of the results.
- 5) Results of a measurement can be viewed during and/or after a measurement has been carried out.  
After choosing the appropriate Standard or "Norm" the results can be evaluated accordingly.
- 6) The final measurement after compensating/correcting shows the improvement within the machine.

# μWally Technical Specifications

|   |  |
|---|--|
| <b>Accuracy of the μWally Unit (Arcsecond):</b> | 1 arcsec                                 |
| <b>Reproducibility of the μWally Unit:</b>      | 0.5 arcsec                               |
| <b>Measurement accuracy:</b>                    | 1 arcsec                                 |
| <b>Resolution:</b>                              | 0.01 arcsec                              |
| <b>Measurement range:</b>                       | without limit                            |
| <b>Maximum turning speed:</b>                   | 30 U/min                                 |
| <b>Operation temperature range:</b>             | 10°C – 35°C                              |
| <b>Triggering and control:</b>                  | Wireless link, 2.4 GHz                   |
| <b>Case weight:</b>                             | 7,2 kg                                   |
| <b>System weight:</b>                           | 2,6 kg                                   |
| <b>Rechargeable Battery:</b>                    | 30h of operation,<br>chargable within 3h |



## μWally kit

The system comes complete with all necessary attachments and holders. Additional the laser interferometer μLine is needed.



*μLine* und *μWally* are a joint project between the University of Wrocław (Breslau), the Lasertex Co. Ltd. and Status Pro Measurement Technologies GmbH.



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