

Precision Measurement of Right Angles

A new technique for the precise measurement of right angles according to DIN 875/000 ($< 5\mu\text{m/m}$)



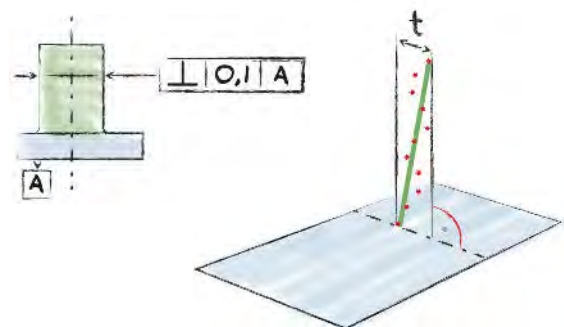
Trade-in your Granite Blocks for a measurement system that's easy to use ... and to carry!!

The latest measurement system from Status Pro enables precise measurement of right-angles (perpendicularity). The measurement during laser rotation practically eliminates any "hardware" problems.

Up until present, the accuracy of the measurement was dependant on the quality of the prisms in conjunction with a correcting lense. The high accuracy prisms, with residual errors between $5\mu\text{m/m}$ and $20\mu\text{m/m}$, are still being used but the selection process guarantees only the finest for this measurement discipline .

With the newest development the measurement beam, perpendicular to the laser plane, is constantly rotated thus eliminating any prism error. The rotational axis of the laser beam is determined using the R5XX sensor.

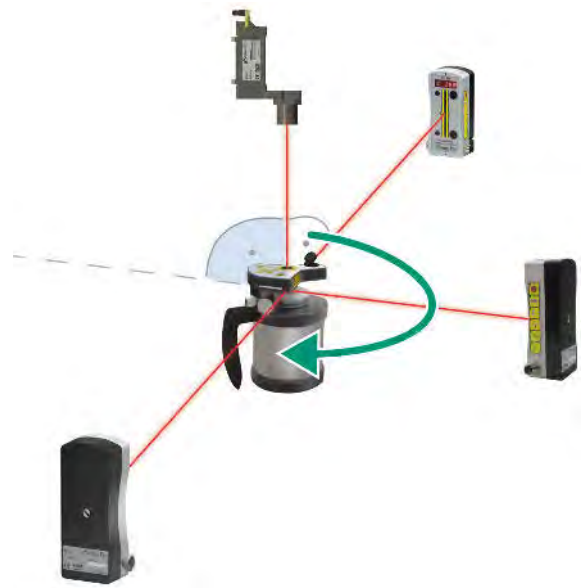
In practice, a Granite Block from the Class 876/000 can be replaced by a laser !



The measurement accuracy lies below $5\mu\text{m/m}$. This system offers the highest possible measurement precision, for Straightness and Right-Angles, currently available.

A laser-based measurement system offers many advantages over present methods

- High-precision for Straightness and Right Angle measurements (ca. $1\mu\text{m}/\text{m}$).
- Fast and simple to set up and adjust.
- Measurement of two axes (X&Y) simultaneously
- Measuring of Machine tables as well as other surfaces where accuracy is required, could not be easier.
- Right angle accuracy $< 5\mu\text{m}/\text{m}$ according to DIN 875/000
- Lengths of 10m can be measured.
→ Instant documentation including pdf-Report.
- Wireless connection with a Tablet PC using Bluetooth technology.
- Automatic Measurement triggering using position determination.
→ Fast and simple
- Correction of errors in "real-time" is possible
→ at any point during measurement
- Measurementnets can be carried out over the whole length of the machine (Granite-Block is restricted)
- The System is easily transportable (Case= 18kg).



Measurement Package **ProLine 30**