



## LaserControl Nano NT



Tool Measurement



NT Technology



Tool Breakage Detection



Tool Length Measurement



Tool Radius Measurement



Tool Form Measurement



Tool Form Monitoring



Single Cutting Edge Monitoring



RunoutControl



ToolTipControl



GrindControl



MicroWearControl



Axes Compensation

# LaserControl Nano NT

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focus on productivity



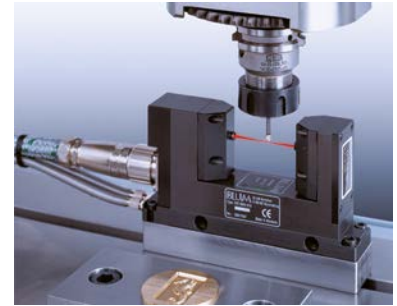
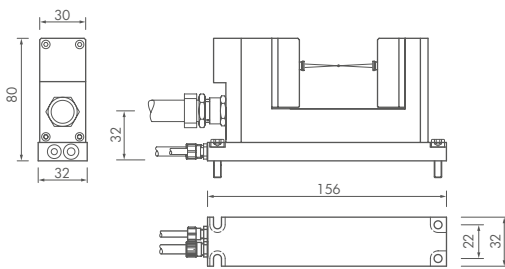
# LaserControl Nano NT | Non-contact tool setting system for machine tools

## Compact, highly precise support system for tool setting and monitoring in micromachining applications

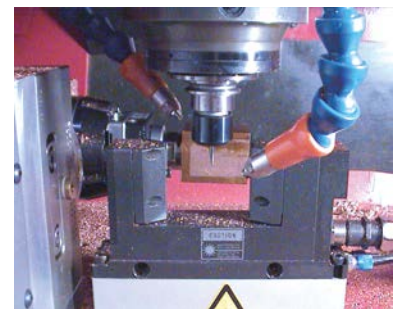
- High-end system for measurement of smallest tools (from  $\varnothing 5 \mu\text{m}$ )
- Perfect for small and highly precise machines
- Measurement at nominal spindle speed
- Highest absolute accuracy due to focused laser beam
- Process reliability due to patented NT-Electronics
- Pre-aligned laser for easy mounting
- Programmable by integrated microprocessor

### Your benefit:

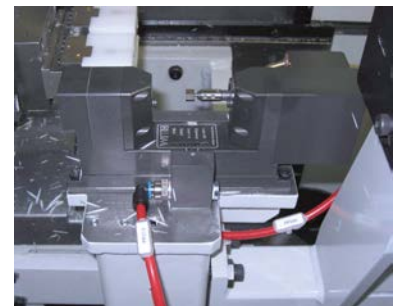
- Best measuring accuracy
- Increased productivity and production quality
- No subsequent damage due to tool breakage
- Reduced set-up time and unmanned operation
- Reduced scrap rate



Nano NT – perfect for micro-tools



Compact design



NT-H and NT-H 3D versions also available

### Technical data

Laser safety classification	Class 2 acc. to IEC60825-1, 21 CFR 1040.10
Laser type	Visible red light laser   630 ... 700 nm   <1 mW
Protection class	IP68
Power supply	24 V DC/160 mA
Inputs/Outputs	24 V DC   0 ... 5 V DC analogue output *
Repeatability	0.1 $\mu\text{m}$ 2 $\sigma$ **
Minimum tool diameter	Default: 15 $\mu\text{m}$ ** Option BL105: 5 $\mu\text{m}$ **
Test speed (spindle)	Up to 200.000 rpm

\* Option

\*\* Depending on installation situation, stability of fixation, distance and measuring mode



100 % reliable due to Blum-protection system

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