



LaserControl NT-H



Tool Measurement



NT Technology



NT-H Technology



Tool Breakage Detection



Tool Length Measurement



Tool Radius Measurement



Tool Form Measurement



Tool Form Monitoring



Single Cutting Edge Monitoring



RunoutControl



GrindControl



ToolTipControl



MicroWearControl



Axes Compensation

LaserControl NT-H

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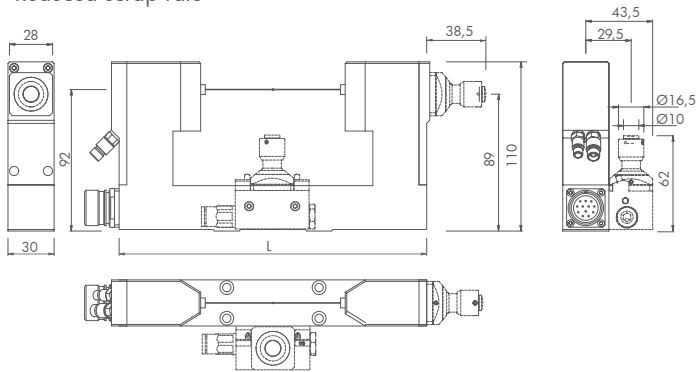
LaserControl NT-H | Non-contact tool setting system for machine tools

Extremely precise support system with additional probe for tool setting and axes compensation

- Thermal compensation of all three machine axes
- Hybrid system to reach absolute accuracy limits in mould and die applications
- Tool setting and monitoring at nominal spindle speed
- Process reliability due to patented NT-Electronics
- Pre-aligned laser for easy mounting
- Programmable by integrated microprocessor

Your benefit:

- Compensation of all machine axes
- High absolute accuracy also with tapered tools (i.e. engraving tools)
- Increased productivity and production quality
- Reduced set-up time and unmanned operation
- Reduced scrap rate



Technical data (LaserControl)

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	24V DC / 160 mA
Inputs/Outputs	24V DC 0 - 5V DC analogue output *
Repeatability	Δ transmitter / receiver <30 mm: 0,1 μ m 2 σ **
Storage/Operating temperature	-10 °C ... +70 °C +5 °C ... +45 °C

Technical data (Z-Pico)

Protection class	IP68
Measuring force	1,7 N
Max. stroke	5 mm
Repeatability	1 μ m 2 σ

* Option

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



Compensation of the 3rd machine axis



Length measurement with probe for best absolute accuracy



Measurement with laser for determination of the spindle drift at high speed



Indispensable – the Blum pneumatic unit

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