



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

BLUM
focus on productivity



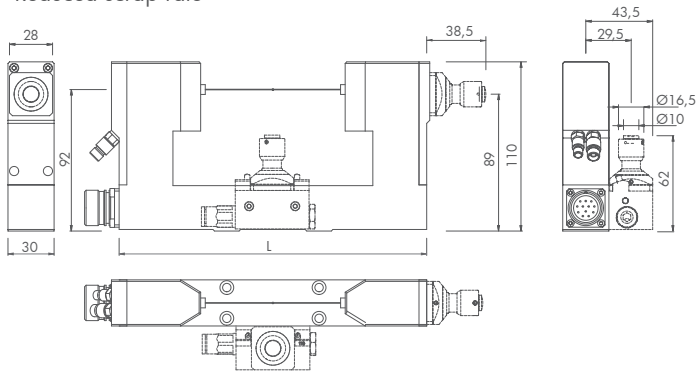
LaserControl NT-H | Non-contact tool setting system for machine tools

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



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

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



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