



## LaserControl Mini NT



Tool Measurement



NT Technology



Tool Breakage Detection



Tool Length Measurement



Tool Radius Measurement



Single Cutting Edge Monitoring



Axes Compensation



## LaserControl Mini NT

**BLUM**  
focus on productivity



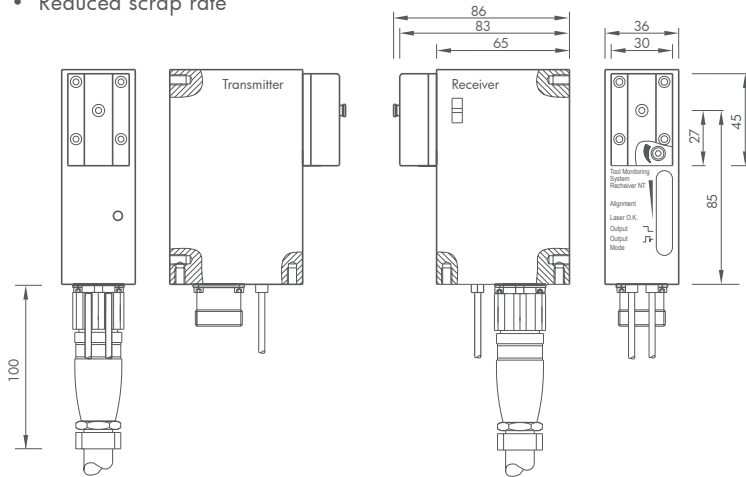
## LaserControl Mini NT | Non-contact tool setting system for machine tools

### Extremely precise single system for tool setting and monitoring under harshest conditions

- High absolute accuracy due to focused laser beam
- Tool setting and monitoring at nominal spindle speed
- 100 % process reliability due to patented NT-Electronics
- Blum pneumatic unit and shutter system provide superior protection
- Design enables customized configuration of the laser optics
- Programmable by integrated microprocessor

### Your benefit:

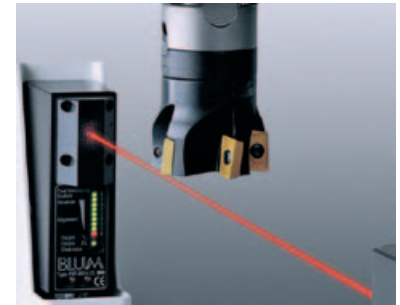
- Easy alignment due to LED band and integrated beam adjustment
- Increased productivity and production quality
- No subsequent damage due to tool breakage
- Reduced set-up time and unmanned operation
- Reduced scrap rate



### 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	24V DC / 160 mA
Inputs/Outputs	24V DC   0 - 5V DC analogue output*
Repeatability	$\Delta$ transmitter/receiver <500 mm: 0,5 $\mu$ m 2 $\sigma$ ** $\Delta$ transmitter/receiver <1.000 mm: 1,0 $\mu$ m 2 $\sigma$ **
Minimum tool diameter**	$\Delta$ transmitter/receiver <500 mm: 180 $\mu$ m   75 $\mu$ m*** $\Delta$ transmitter/receiver <1.000 mm: 300 $\mu$ m   125 $\mu$ m***
Test speed (spindle)	Up to 200.000 rpm
Storage/Operating temperature	-10 °C ... +70 °C   +5 °C ... +45 °C

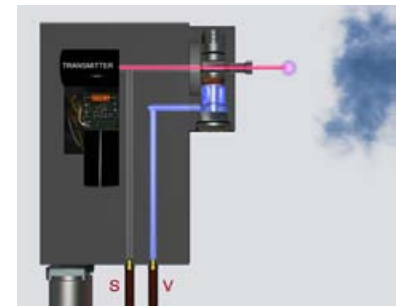
\* Option \*\* Depending on installation situation, stability of fixation, distance and measuring mode  
\*\*\* With reduced amplification



Fast single cutting edge monitoring



Complete system with accessories for easy mounting in the machining area



100 % reliable due to Blum protection system



Indispensable – the Blum pneumatic unit

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### Blum-Novotest Ltd.

33 Townfields  
Lichfield, Staffordshire  
WS13 8AA, United Kingdom

Phone: +44 1543 257111

Fax: +44 1543 251746

E-Mail: [info@blum-novotest.co.uk](mailto:info@blum-novotest.co.uk)

### Blum LMT, Inc.

4144 Olympic Boulevard  
Erlanger, KY 41018  
USA

Phone: +1 (859) 344 6789

Fax: +1 (859) 344 6799

E-Mail: [solutions@blumlmt.com](mailto:solutions@blumlmt.com)