LaserControl
Micro Compact 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 Micro Compact NT

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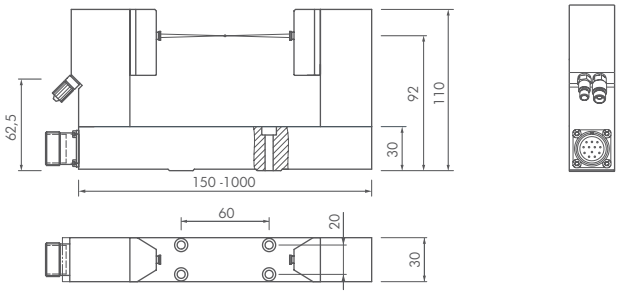
LaserControl Micro Compact NT | Non-contact tool setting system for machine tools

Extremely precise support system for tool setting and monitoring under harshest conditions

- Tool setting at nominal spindle speed
- Highest absolute accuracy due to focused laser beam
- 100 % process reliability due to patented NT-Electronics
- Blum pneumatic unit and shutter system provide superior protection
- Pre-aligned laser for easy mounting
- Programmable by integrated microprocessor

Your benefit:

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



Support systems provide highest precision even with micro-tools

Fast detection of micro-wear at the cutting edge

Non-contact monitoring of all kind of tool geometries

Absolutely reliable — patented NT-Electronics

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	Δ transmitter/receiver: <30 mm: 0.4 µm 2σ **
	Δ transmitter/receiver: <500 mm: 1.8 µm 2σ **
Minimum tool diameter	Δ transmitter/receiver: <30 mm: 7***/24 µm **
	Δ transmitter/receiver: <500 mm: 130 µm **
Test speed (spindle)	Up to 200.000 rpm

* Option ** Depending on installation situation, stability of fixation
*** 7 µm possible, with adaptation of software parameters

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