



LaserControl NT-H 3D



Tool Measurement



NT Technology



NT-H 3D Technology



shark360 Technology



Tool Breakage Detection



Tool Length Measurement



Tool Radius Measurement



Tool Form Measurement



Tool Form Monitoring



Single Cutting Edge Monitoring



RunoutControl



ToolTipControl



MicroWearControl



Axes Compensation

LaserControl NT-H 3D

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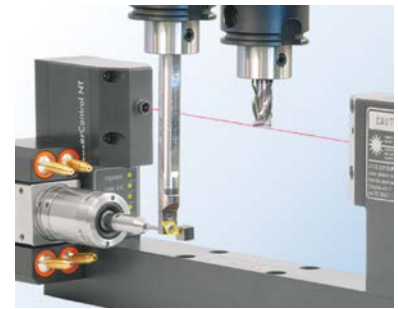
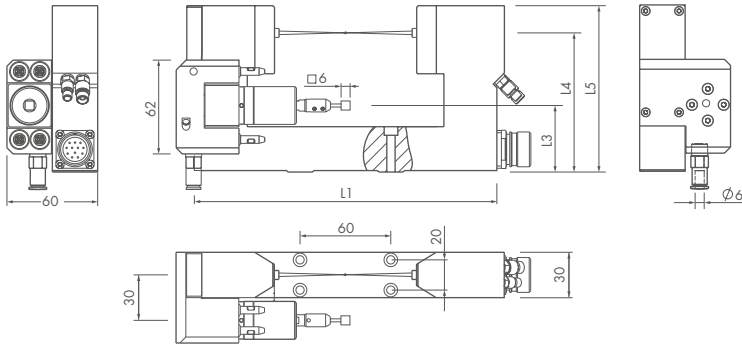
LaserControl NT-H 3D | Combined tool setting system for mill-turn machines

Multitasking for turn-mill machines – combines the benefits of two measuring technologies in one compact system

- Non-contact measurement of rotating tools with laser
- Tactile measurement of non-rotating tools
- Pre-aligned laser and touch probe for easy mounting
- Economic – one system for both turning and milling tools

Your benefit:

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



All tools with one system



Extremely fast measurement of non-rotating tools



Customary laser system

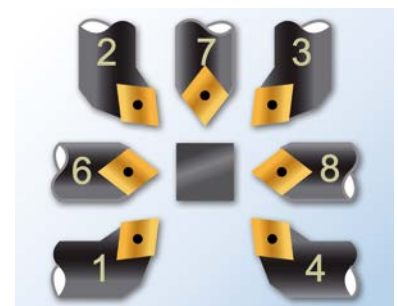
Technical data (LaserControl)

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	24 V DC/160 mA
Inputs/Outputs	24 V DC 0 ... 5 V DC analogue output *
Repeatability	Δ transmitter/receiver <30 mm: 0.1 μ m 2 σ **

Technical data (Touch Probe TC76)

Protection class	IP68
Measuring force in XY Z	1.3 N/0.7 N *** 5.9 N
Max. deflection in XY Z	$\pm 15^\circ$ 5 mm
Repeatability	0.4 μ m 2 σ

* Option ** Depending on installation situation, stability of fixation, distance and measuring mode
 *** Stylus L = 30 mm/75 mm



Perfect solution – software for touch probe and laser system available

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