





TESA CLINOBEVEL 3 inclinometer

Robust and easy to use, the TESA CLINOBEVEL 3 is a top of the range portable precision inclinometer.

It offers a wide range of applications (straightness, flatness controls, perpendicularity measurements) and it's available in aluminium or cast iron and in 2 different measuring ranges: $\pm 1^{\circ}$ and $\pm 60^{\circ}$.

Designed with a very easy-to-read colour display and various display configurations, such as spirit levels or bar graphs that make the measuring process very clear and intuitive.

With the high precision version, small inclinations of \pm 1° can be measured. The high resolution of 1 μ m/m allows the control of high-precision geometries such as the adjustment of three-dimensional measuring machines.

Using the free TESA CLINOBEVEL 3 App, a smartphone can be operated as a remote display.





Unique features:

- Measuring range up to ±60°
- Best readability thanks to the colour and high contrast LCD display
- Aluminium-body model for light and easy handling
- High-precision version with resolution 1 μ m/m
- Remote measurement with a smartphone as remote display

Features	
Display	4 different background colours Various display configurations, such as bar graph or spirit level
Units	DEG, mm/m, "/10", "/12", mRad, mm/REL, "/REL A%o, %o, GON
Absolute zero setting	Absolute zero represents a base for absolute inclination measurements. It is automatically calculated and set from the two values entered when conducting a reversal measurement (two measurements made at the same spot but in opposite directions)
Relative zero setting	Relative zero allows comparative inclination measurements
Calibration	Possibility to calibrate the instrument thanks to the built-in software support and supplied calibration pins (only available for the $\pm 60^{\circ}$ model)
HOLD function	HOLD function allows to position the instrument, freeze the results and read them in a second step
LIMIT function	Alarm displayed when the defined limits are exceeded
Remote display with the App CLINOBEVEL 3	By installing the CLINOBEVEL 3 App (available on Google Play – Android only), the measuring values can be displayed on a smartphone

Cast iron model rust-protected

Built-in cross vial for easy alignment of the vertical axis to avoid "twist errors"



High contrast colour display

2 prismatic measuring faces for the measurement on

cylindrical surfaces

Models 05330210 Cast iron body ±60° Aluminium body 05330211 ±60° S53210955 2 magnetic faces ±60° ±60° S53210956 2 magnetic faces ±1° 05330214 Cast iron body High Precision

Aluminium model black anodized

Wooden thermal protection handle



LED display



The magnetic measuring faces stabilise the instrument and reduce any influence on the measurement.

Examples of applications









Adjustment and alignment of a 3D coordinate measuring machine

Thanks to the possibility to use a smartphone as a remote display, the TESA CLINOBEVEL 3 offers a great level of flexibility. The instrument can be placed on the most difficult to reach or delicate pieces to be measured.

In this application the results of 2 TESA CLINOBEVEL 3 can be viewed simultaneously on the smartphone screen without touching the instrument.

The values can be saved in CSV format and sent to your analysis system.

Inclination control of the position of a measuring arm on a large 3D coordinate measuring machine

With the help of the TESA CLINOBEVEL 3, the angular deviation in the respective position of the arm can be easily determined.

Results are then used for correction / compensation of the measuring system.

High precision control of a granite plate

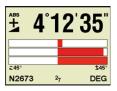
The big measuring range of ±60° enables also to fulfil new measuring applications.

Perpendicularity control of a stamping press system with the TESA CLINOBEVEL 3 prismatic measuring faces

The instrument can be perfectly aligned thanks to the built-in cross vial that allows to avoid "twist errors".

Accessories included				
TESA CLINOBEVEL 3 electronic inclinometer	2 batteries size C, type LR14			
2 calibration pins for quick calibration (only for ±60° models)	Robust transport case			
Infrared remote control (only for ±1° model)	User manual			









± 60°		± 1° (± 20 mm/m)
05330210 05330211		05330214 /
0,025 mm/m (5")		0,001 mm/m (0,2 ")
12" + (0,027% a)		a ≤ 0,5 atot: 1% a (min. 1 digit)
		a > 0,5 atot: 0,01 (2 a - 0,5 atot)
	< 5 sec	
USB / RS 485, asynchr., 7 DataBits, 2 Stopbits, No parity, 9600 Baud		
	5 V (NiMH, NiCd, NiZn)	
	25 hours	
	0 to 40 °C -20 to 70 °C	
Ø 19 to 108	mm, on the left and bottom Right	1
	•	3
	05330210 05330211 0,025 mm/m (5") 12" + (0,027% a) USB / RS 485, asynchr., 7 2 x 1, 150 x 150 x	05330210 05330211 0,025 mm/m (5") 12" + (0,027% a) <pre></pre>

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About TESA

For 80 years, TESA has distinguished itself in the market through its excellent products, its unique expertise in micromechanics and precision machining as well as its proven experience in dimensional metrology. The TESA brand is the global market leader in the field of height gauges and a pioneer thanks to its wide range of instruments, including callipers, micrometers, dial gauges, lever-type dial test indicators and inductive probes. TESA is a true benchmark for the inspection of incoming goods, as well as for production workshops and quality assurance laboratories.

About Hexagon Manufacturing Intelligence

Hexagon Manufacturing Intelligence helps industrial manufacturers develop the disruptive technologies of today and the life-changing products of tomorrow. As a leading metrology and manufacturing solution specialist, our expertise in sensing, thinking and acting – the collection, analysis and active use of measurement data – gives our customers the confidence to increase production speed and accelerate productivity while enhancing product quality.