

# V9



# V9

## PRODUCT PRESENTATION

The V9 has been developed for the most demanding users. Laboratories and workshops for whom measuring reliability is determining will fully appreciate its exceptional precision level and its "Swiss Made" finish.

Metrological performances have been the core of the development of this height gauge. No compromise on precision and repeatability have been tolerated. This is why some construction details, particularly probe holders differ from other models.

The display, based on an entirely tactile interface, offers an ease of use never reached yet on a vertical measuring instrument. The menus and functions displayed obey to a very strict philosophy and design. This allows a great efficiency, even in complex tasks such as programming, 2D mode, angles measurements or statistical analysis of results.

The V9 are equipped with a revolutionary displacement handwheel allowing the user to choose either the manual or motorized displacement mode.

---

MEASURING RANGE 400 TO 1100 MM

---

EXCEPTIONAL PRECISION LEVEL

---

ELECTRONICALLY ADJUSTABLE MEASURING FORCE

---

MANUAL OR MOTORIZED DISPLACEMENT

---

2D, PROGRAMMING, STATISTICS

---

LARGE RANGE OF ACCESSORIES


















---

ALL POSSIBLE ADJUSTMENTS WITHOUT TOOLS

---

INTERFACES RS232 AND USB

## DESCRIPTION

-  Heights
-  Diameters
-  Centerlines
-  Min / Max / Delta
-  9 References
-  Perpendicularity
-  Angles
-  Calculation
-  Tolerances
-  2D Mode
-  Programs
-  Statistics
-  Temp. compensation
-  Online Help
-  USB Ports
-  RS232 Port
-  Automatic displacement

Additional probe holder

Probe weight balance system

Interchangeable probes



Adjustable touch-display with intuitive functions

Displacement handwheel of measuring carriage. Manual or motorized mode

Horizontal displacement handwheel with functions buttons and air cushion

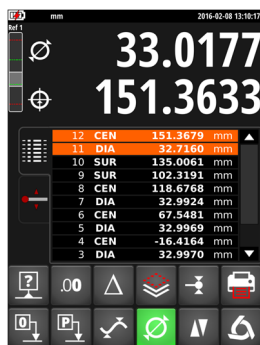
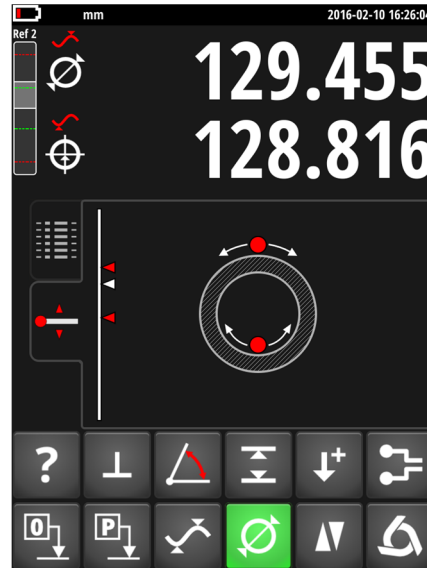
Cast iron base for optimal stability

# V9

## DISPLAY / SOFTWARE

The choice and position of symbols, as well as the colours used correspond to very high ergonomic standards. The result is a consistent interface offering exceptional readability and ease of use.

- VERY SIMPLE GRAPHIC INTERFACE
- EXCEPTIONAL READABILITY
- 2D MODE MEASUREMENT
- MEASUREMENT SEQUENCES
- STATISTICAL ANALYSIS OF RESULTS
- INTEGRATED ONLINE HELP
- TEMPERATURE COMPENSATION



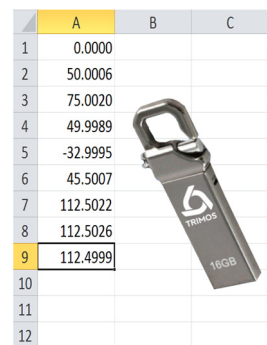
Graphic help for each function



Display of perpendicularity



2D ultra-simple and intuitive interface



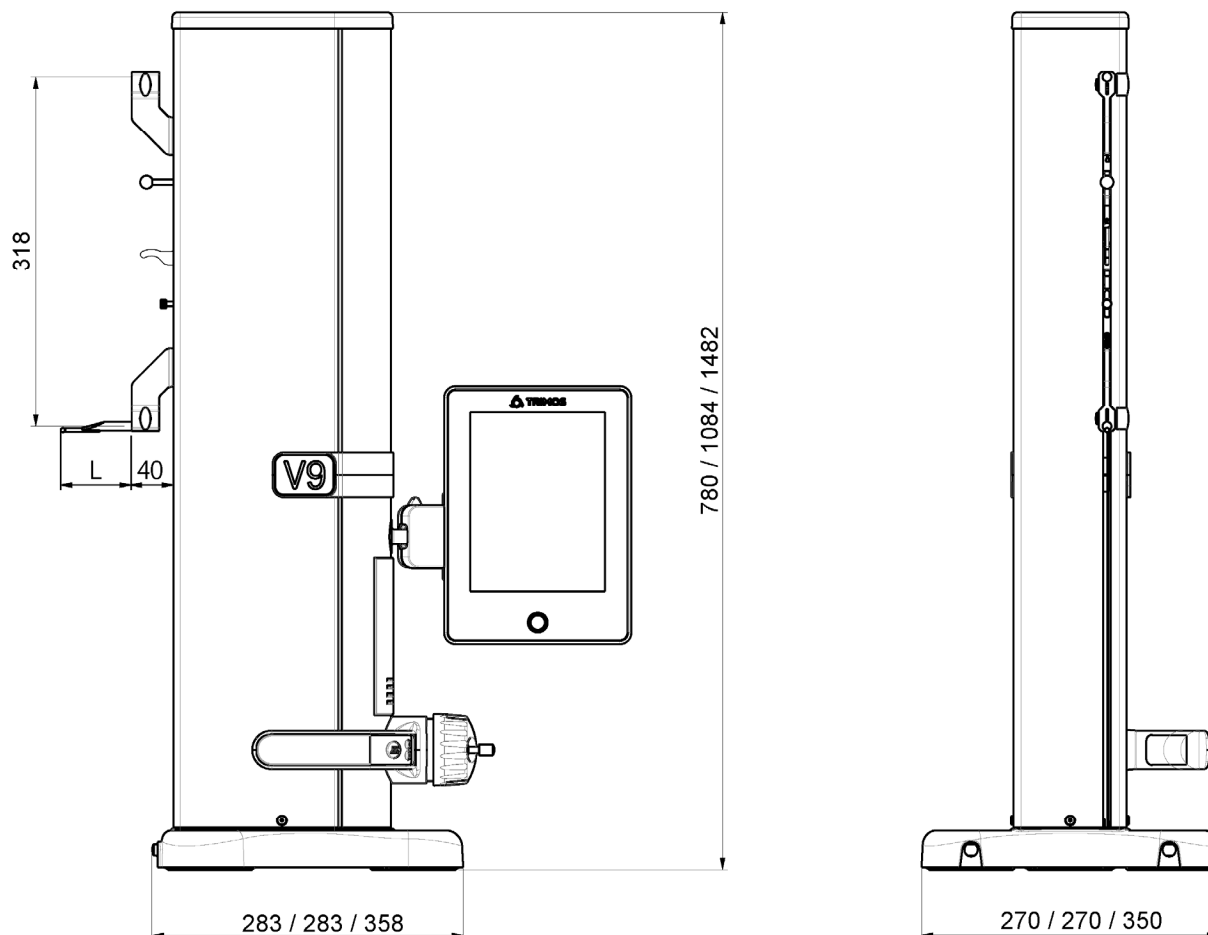
Data transfer via USB, RS232 or on memory stick

## TECHNICAL DATA

V9		400	700	1100
Measuring range	mm (in)	406 (16)	710 (28)	1109 (43)
Measuring range with extension	mm (in)	724 (28)	1028 (40)	1427 (56)
Max. permissible errors, B <sub>MPE</sub>	µm	1.2 + L(mm)/1000		
Repeatability, R <sub>MPE</sub> (2s)	µm	0.5 (Ø: 1)		
Frontal perpendicularity, S <sub>MPE</sub>	µm	5	8	11
Maximal Resolution	mm (in)	0.0001 (0.00001)		
Measuring force	N	0.75 ÷ 1.5		
Autonomy	h	12		
Interfaces		USB / RS232		
Air cushion		Yes		
Weight	kg	21	24	33

The above values have been determined according to ISO 13225 with the standard measuring insert (TA-MI-101).

## SCHEMA



L: Depends on the measuring insert used

## STANDARD INSTRUMENT

### The V9 are supplied as follows

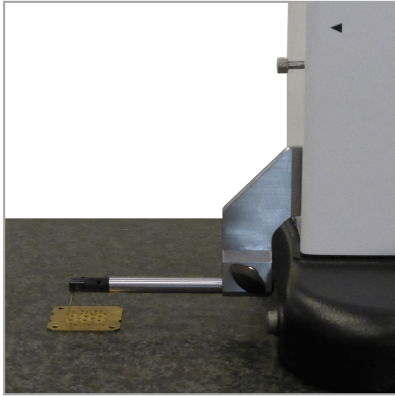
Instrument according to specifications	Charging unit (TA-EL-132)
Measuring insert with ruby ball Ø 5 mm (TA-MI-119)	Calibration certificate
Setting gauge (TA-MG-104)	User's manual (750 50 0042 03)
Protection cover (TA-TO-114/115/116)	

## CODE NUMBERS

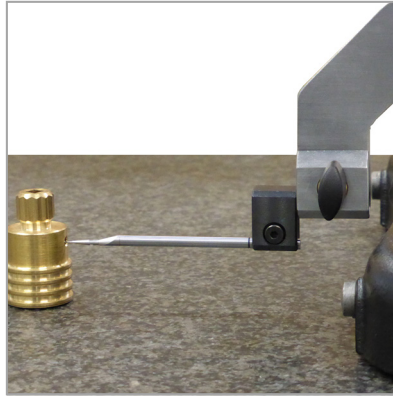
V9		
<b>V9-400</b>	700 110 10 09	Measuring range 400 mm
<b>V9-700</b>	700 110 20 09	Measuring range 700 mm
<b>V9-1100</b>	700 110 30 09	Measuring range 1100 mm

# V9

## APPLICATIONS



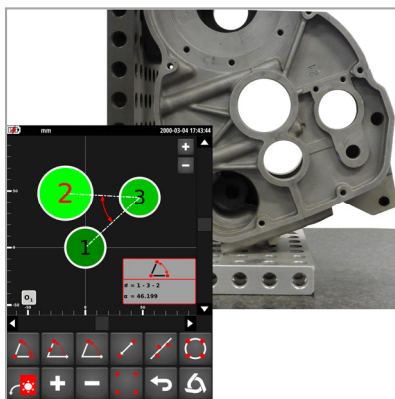
Height measurements on watch movement plate (TA-MI-115, TA-IH-103)



Small diameters measurements with insert  $\varnothing$  4 mm (V-50.12, V-5)



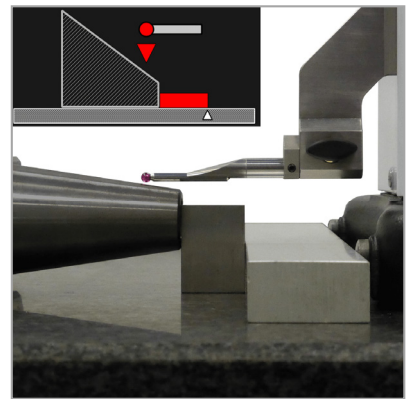
Perpendicularity measurements with electronic probe (TA-IH-126, TA-MS-101)



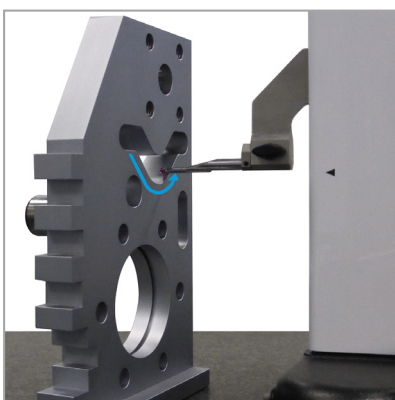
Very simple measurements in 2 coordinates thanks to the graphic interface



Large range of accessories for all types of measurements (TA-SE-102, TA-SE-106, TA-SE-107)



Measurements of angles and cones graphically assisted (TA-MI-101, TA-AD-101)



Minimum position measurement thanks to the contour tracking in motorized mode (TA-MI-101, TA-AD-101)



Instrument can be remote-controlled via a PC



Display adjustable in every direction