

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



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

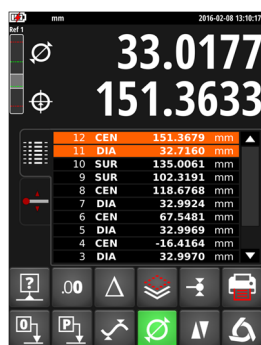
2D MODE MEASUREMENT

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

	A	B	C
1	0.0000		
2	50.0006		
3	75.0020		
4	49.9989		
5	-32.9995		
6	45.5007		
7	112.5022		
8	112.5026		
9	112.4999		
10			
11			
12			



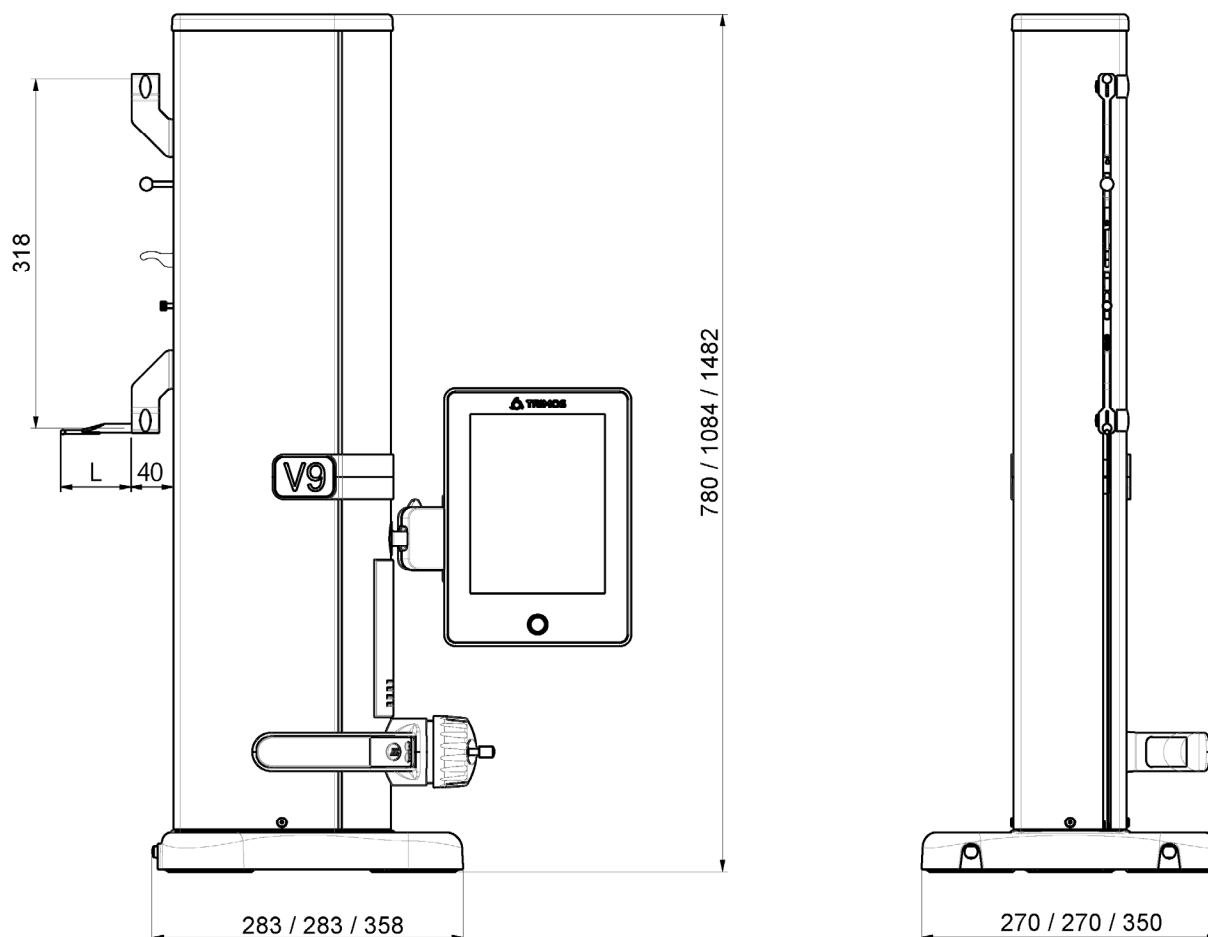
Data transfer via USB, RS232 or on memory stick

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 _{MPE}	µm	1.2 + L(mm)/1000		
Repeatability, R _{MPE} (2s)	µm	0.5 (Ø: 1)		
Frontal perpendicularity, S _{MPE}	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

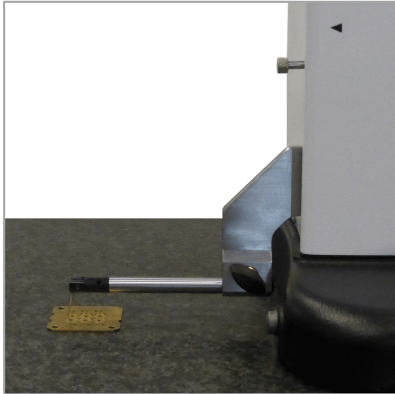
Instrument according to specifications	Charging unit (TA-EL-132)
Measuring insert with ruby ball Ø 5 mm (TA-MI-119)	Calibration certificate
Setting gauge (TA-MG-104)	User's manual (750 50 0042 03)
Protection cover (TA-TO-114/115/116)	

CODE NUMBERS

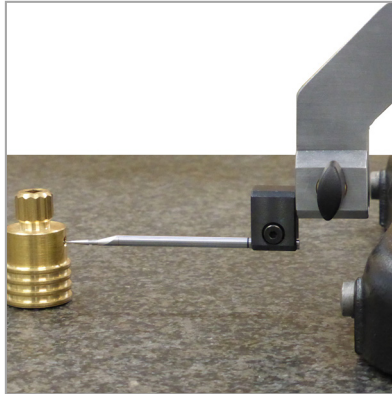
	V9	
V9-400	700 110 10 09	Measuring range 400 mm
V9-700	700 110 20 09	Measuring range 700 mm
V9-1100	700 110 30 09	Measuring range 1100 mm

V9

APPLICATIONS



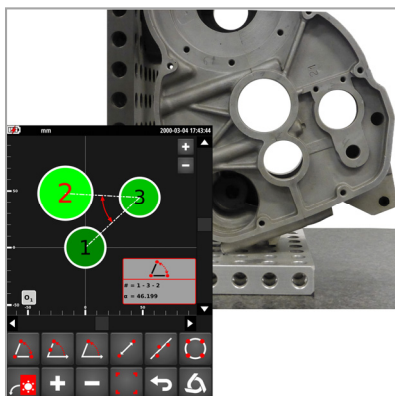
Height measurements on watch movement plate (TA-MI-115, TA-IH-103)



Small diameters measurements with insert Ø 4 mm (V-50.12, V-5)



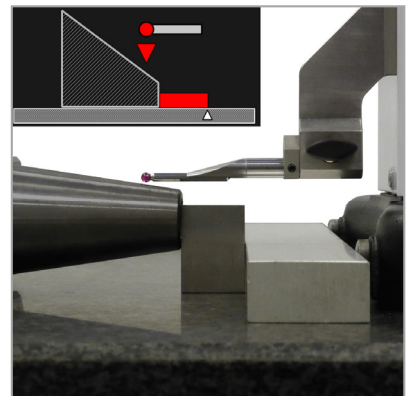
Perpendicularity measurements with electronic probe (TA-IH-126, TA-MS-101)



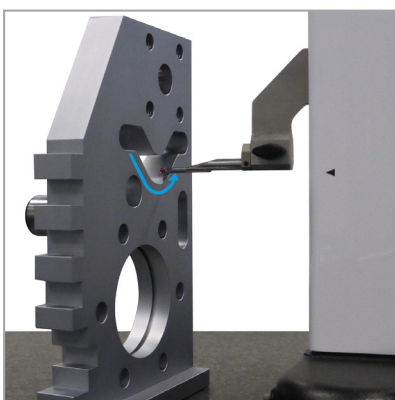
Very simple measurements in 2 coordinates thanks to the graphic interface



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