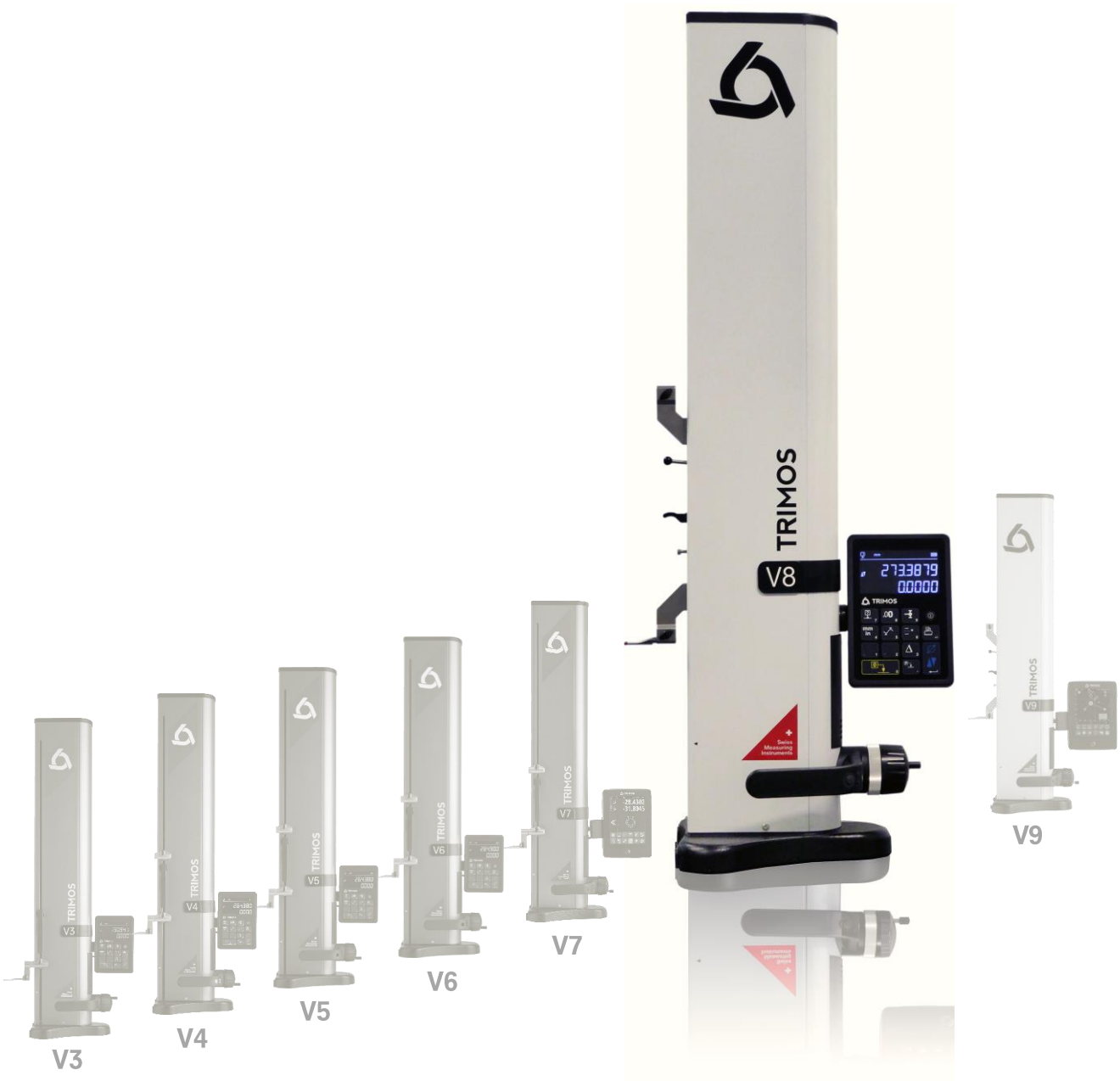
TRIMOS

V8

Height Gauge with Fine Adjustment



Swiss Measuring Instruments

1.

PRESENTATION

After the very successful launch of the V-line height gauges, Trimos has developed a new instrument in its height gauge family, the V8.

The mechanical design and delivery scope of the V8 are identical to the V9. It shares the features that made the model V9 so successful: extreme precision and repeatability, high resolution, and Swiss made finish. What is to underline about this new model is its specific handwheel for fine adjustment. Trimos developed this fine adjustment to answer to specific applications requiring a fine adjustment of carriage position.

The V8 guarantees, like its predecessors, an extremely easy use with great robustness, flexibility and high precision.

The large 2-line « Black Mask » display of the V8 offers an exceptional contrast in all lighting conditions. The display provides functions that are directly accessible and depicted with easy-to-understand symbols.



A : « Black Mask » display with user-friendly functions

B : Specific handwheel for fine adjustment

C : Horizontal displacement handle with programmable functions buttons and air cushion

D : Additional probe holder

E : Probe weight balance system

F : Interchangeable measuring insert

G : Cast iron base for optimal stability

- Measuring range from 400 to 1100 mm
- Specific handwheel for fine adjustment
- Manual displacement
- Exceptional precision level
- Large range of accessories
- All possible adjustments without tools
- Interfaces RS232 and USB
- Wireless data transfer (optional)

2.

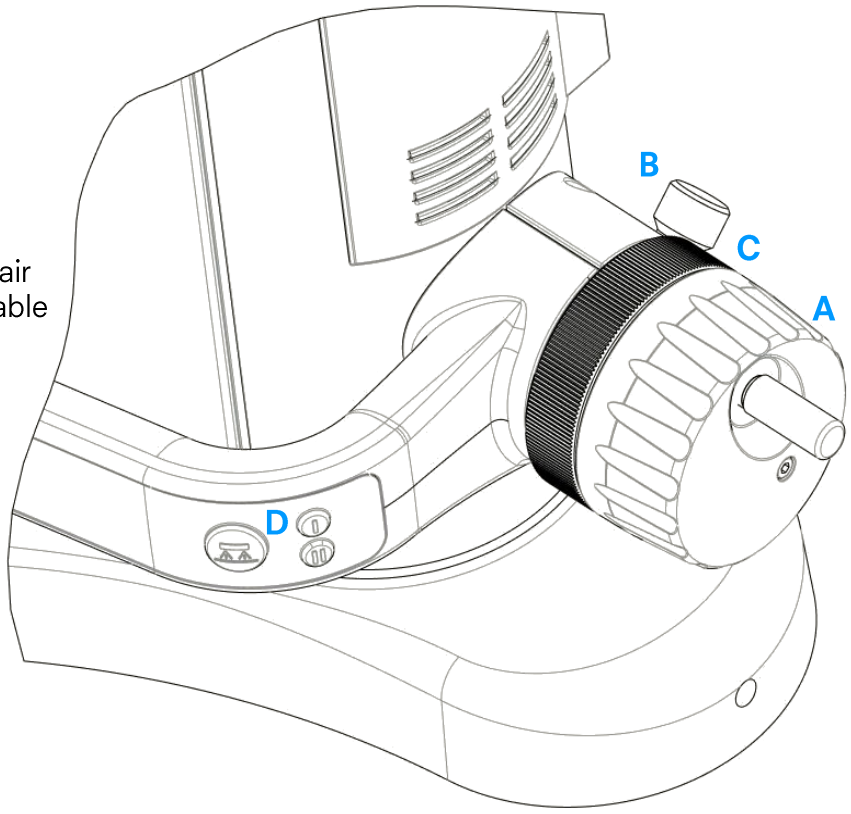
FINE ADJUSTMENT

A Handwheel for carriage displacement

B Fine adjustment screw

C Locking ring for fine adjustment

D Button for activation of air cushion and programmable function buttons



3.

TECHNICAL DATA

V8		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	0.4 (Ø: 1)		
Frontal perpendicularity, S_{MPE}	µm	5	8	11
Maximal Resolution	mm (in)	0.0001 (0.000005)		
Measuring force	N	0.75 ÷ 1.5		
Autonomy	h	12		
Interfaces		USB / RS232 / Wireless		
Air cushion		Yes		
Weight	kg	21	24	33

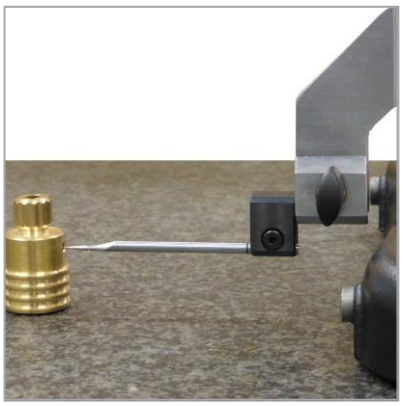
The above values have been determined according to ISO 13225 with the standard measuring insert (TA-MI-119).

4.

APPLICATIONS AND FUNCTIONALITIES



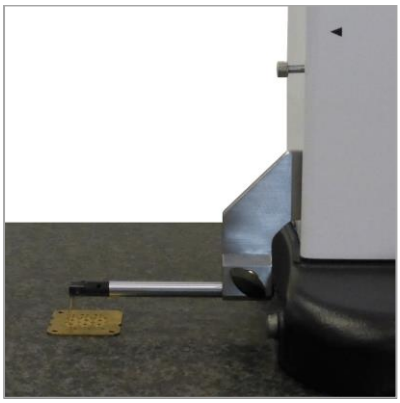
Fine adjustment for specific applications requiring an accurate carriage position



Small diameters measurements with insert Ø 4 mm



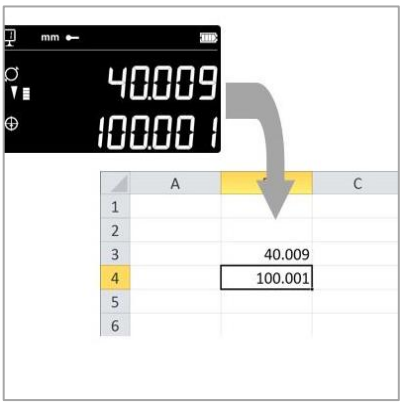
Perpendicularity measurements with electronic probe



Height measurements on watch movement plate

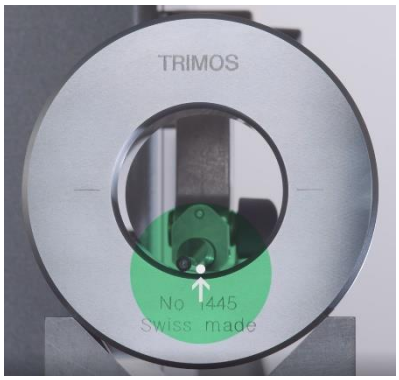


Large range of accessories for all types of applications



Very easy data transfer via USB, RS232 or Wireless connection

SMART REVERSE Technology



SMART REVERSE:

Diameter measurement faster, more accurate and simpler

SmartReverse technology is the result of an intense collaboration between Trimos users and our R & D team in order to optimize diameter measurements.
SmartReverse makes the measurement of diameters very efficient by clearly indicating the reversal points with audible and visual signals. The user is guided precisely during the measurement of diameters, which generates a significant gain in speed and reliability of the measurement.

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www.trimos.com

V8



INTRODUCTION

The V8 is the latest addition to the new range of Trimos vertical instruments.

The mechanical construction and contents of the packaging are identical to the V9 model with the exception of the handwheel and the display.

The V8 shares the characteristics that made the V9 so successful: extreme precision and repeatability, high resolution and Swiss made finish. The specificity of the V8 lies in its handwheel with fine adjustment. It has been specially developed for applications requiring very precise positioning of the key.

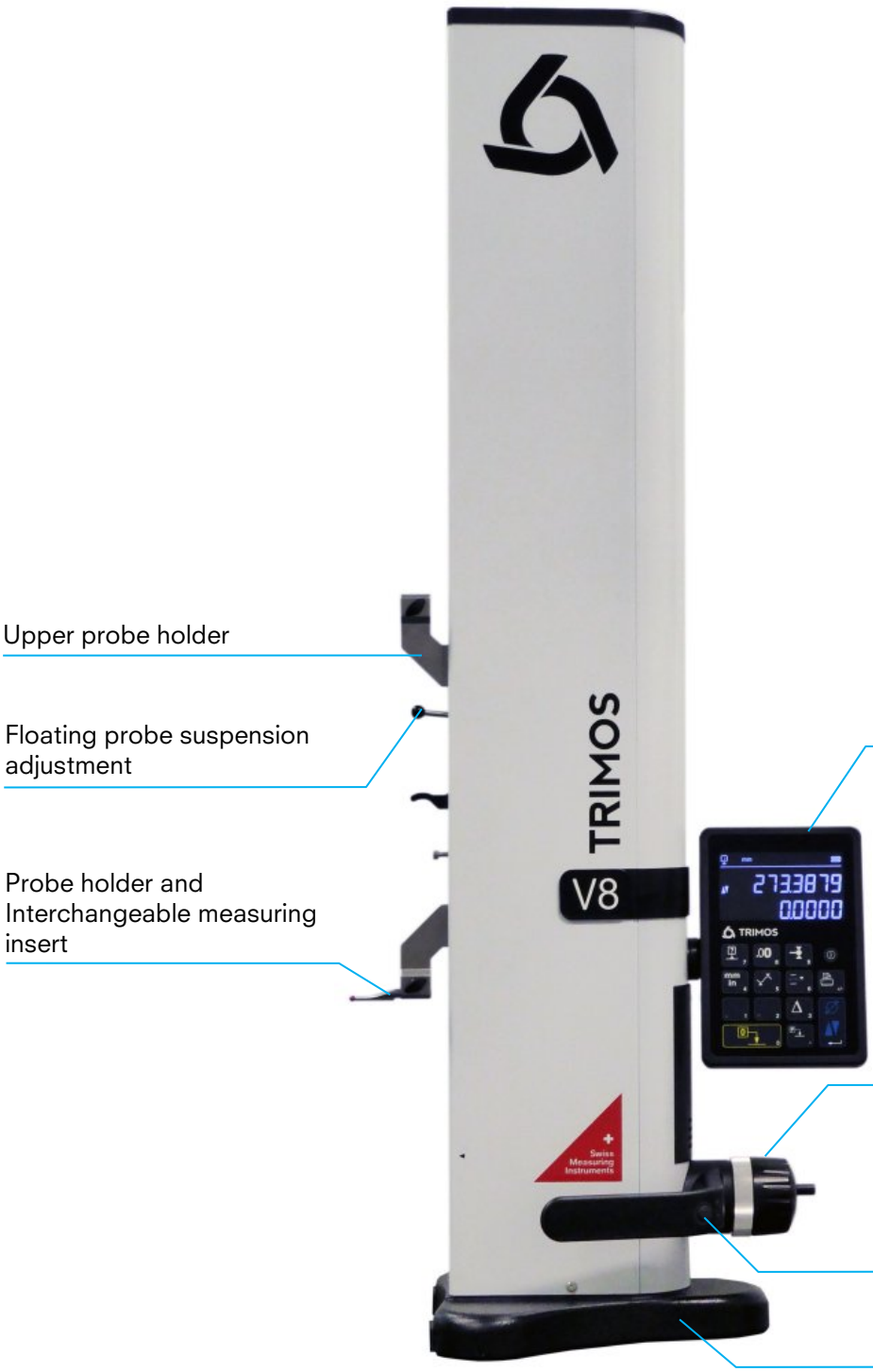
Like its predecessors, the V8 is distinguished by great ease of use, robust construction and extreme accuracy.

The V8's large black mask display offers maximum reading contrast in all light conditions. All functions are directly accessible and represented by easy-to-understand symbols.

MEASURING RANGES FROM 400 TO 1100 MM
SPECIFIC HANDWHEEL WITH FINE ADJUSTMENT
MANUAL MOVEMENT
EXCEPTIONAL PRECISION LEVEL
VAST RANGE OF ACCESSORIES
ALL POSSIBLE ADJUSTMENTS WITHOUT TOOLS
RS232 AND USB INTERFACES
WIRELESS DATA TRANSFER (OPTIONAL)

DESCRIPTION

- Heights
- Diameters
- Centreline distances
- Min / Max / Delta
- 9 references
- Perpendicularity
- Average
- Difference
- Temperature compensation
- Wireless communication



Upper probe holder

Floating probe suspension adjustment

Probe holder and Interchangeable measuring insert

"Black Mask" display with intuitive function keys

Handwheel for carriage displacement and fine adjustment

Handle for instrument displacement with programmable function keys and air cushion button

Cast iron base for optimum stability

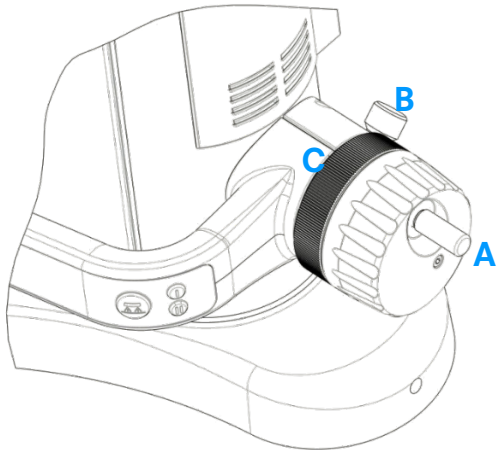
DISPLAY/SOFTWARE

Keyboard functions are represented by clear and intuitive symbols. The display on 2 lines offers the user a great working comfort.



- EXCELLENT CONTRAST WITH "BLACK MASK" DISPLAY
- MEASUREMENTS OF HEIGHTS OR DIAMETERS
- MIN / MAX / DELTA MEASURING MODES
- ZERO OR PRESET DISPLAY
- USB AND RS232 DATA OUTPUT
- 9 REFERENCES AVAILABLE
- GRAPHIC AND SOUND PROBE INDICATOR

Handwheel with fine adjustment specific to V8



A Handwheel for manual movement of the carriage

B Fine adjustment screw

C Locking ring for fine adjustment

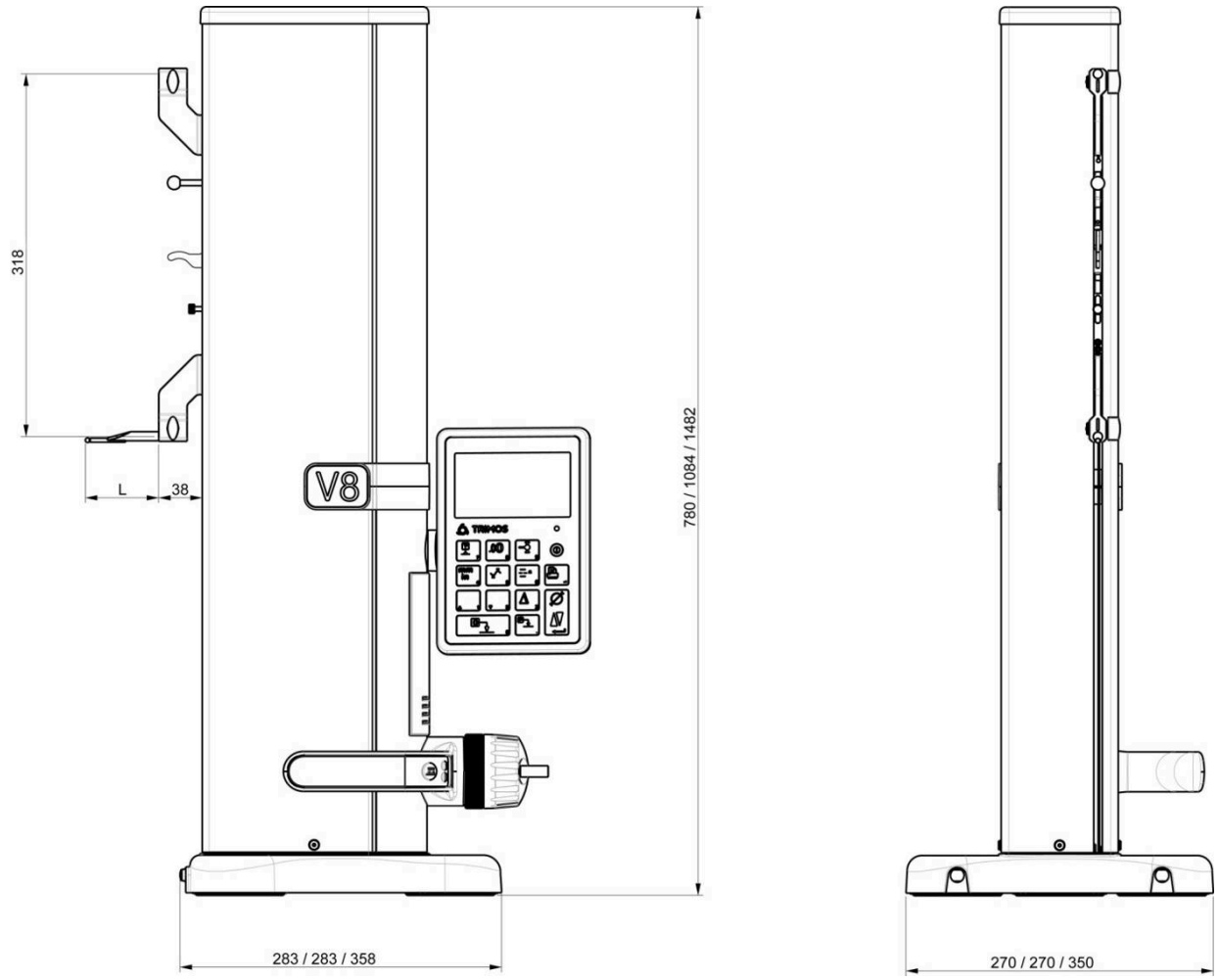
This handwheel is also available as an option on the V4 and V9.

TECHNICAL SPECIFICATIONS

V8		400	700	1100
Measuring range	mm (in)	406 (16)	710 (28)	1109 (43)
Application range	mm (in)	724 (28)	1028 (40)	1427 (56)
Max. permissible errors, B_{MPE}	µm	1.2 + L(mm)/1000		
Repeatability, R_{MPE} (2s)	µm	0.4 (Ø: 1)		
Perpendicularity deviation (frontal), S_{MPE}	µm	5	8	11
Max. resolution	mm (in)	0.0001 (0.000005)		
Measuring force	N	0.75 ÷ 1.5		
Autonomy	h	12		
Data output		USB / RS232 / Wireless (optional)		
Air cushion		Yes		
Weight	kg	21	24	33

The above values have been determined according to ISO 13225 with the standard insert (TA-MI-119).

DIAGRAM



L: depends on the measuring insert used

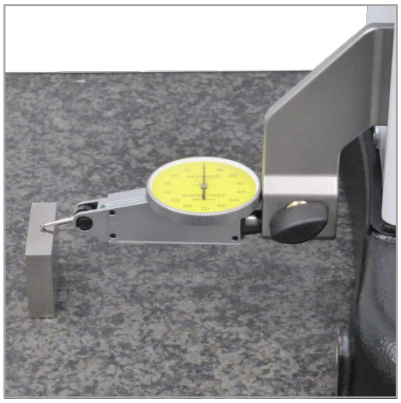
STANDARD INSTRUMENT

The V8 are supplied as follows	
Instrument according to specifications	Charging unit (TA-EL-132)
Measuring insert with ruby ball Ø 4 mm (TA-MI-119)	Setting gauge (TA-MG-104)
Protection cover (TA-TO-114/115/116)	User's manual (750 50 0045 03)
Calibration certificate	

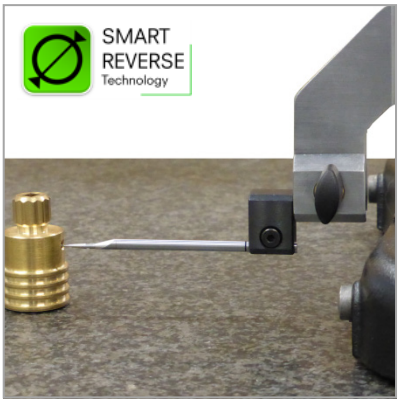
ORDER NUMBERS

V8		
V8-400	700 110 10 18	Measuring range 400 mm
V8-700	700 110 20 18	Measuring range 700 mm
V8-1100	700 110 30 18	Measuring range 1100 mm

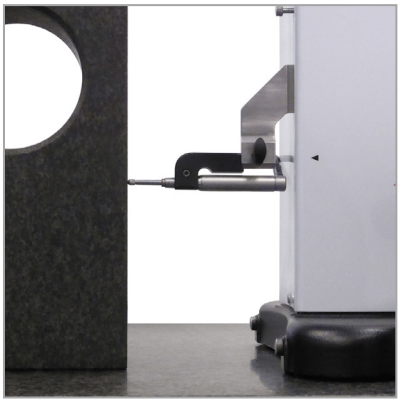
APPLICATIONS



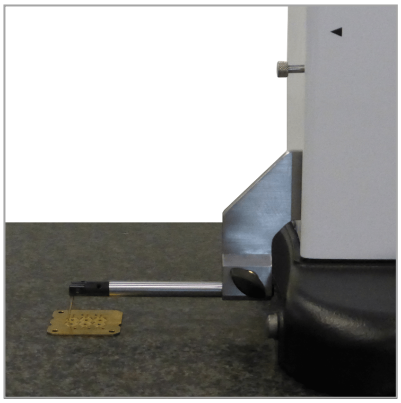
Fine adjustment for specific applications requiring an accurate carriage position



Small diameters measurements with insert Ø 4 mm (V-5, TA-MI-109)



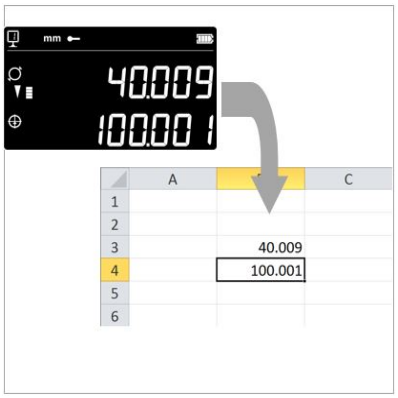
Perpendicularity measurements with electronic probe (TA-IH-126, TA-MS-101)



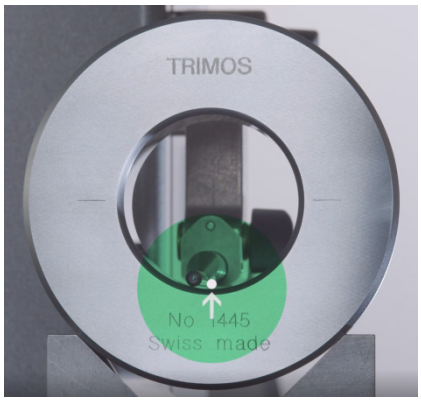
Height measurements on watch movement plate (TA-IH-101, TA-MI-115)



Large range of accessories for all types of applications (TA-SE-106, TA-SE-102, TA-SE-105, TA-SE-107)



Very easy data transfer via USB, RS232 or Wireless connection



SMART REVERSE
Diameter measurement faster, more accurate and simpler

SmartReverse technology is the result of an intense collaboration between Trimos height gauge users and our R&D team in order to optimize diameter measurements.

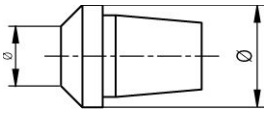
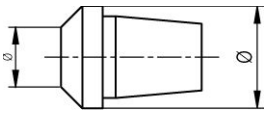
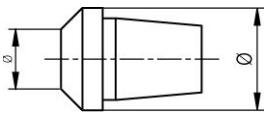
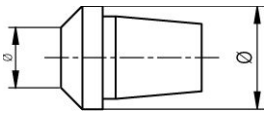
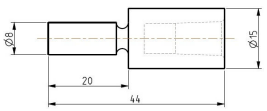
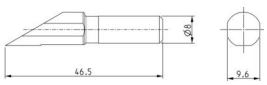
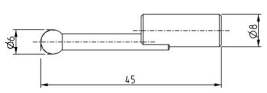
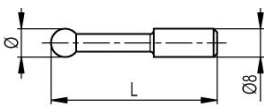
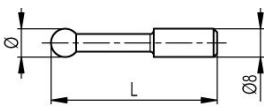
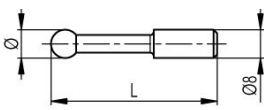
SmartReverse makes the measurement of diameters very effective by clearly indicating the passage of the reversal points by audible and visual signals. The user is guided precisely during the measurement of diameters, which generates a significant gain in speed and reliability of the measurement.

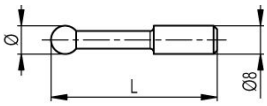
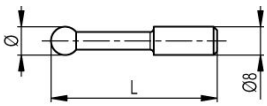
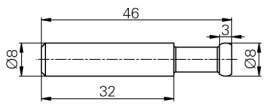
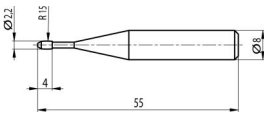
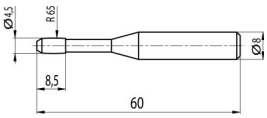
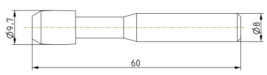
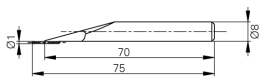
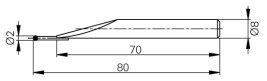
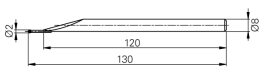
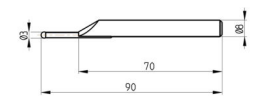
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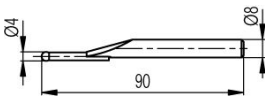
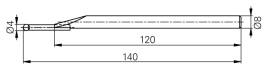
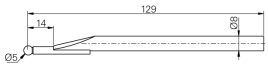
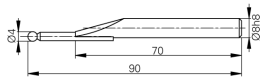
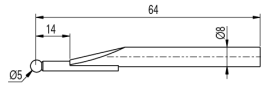
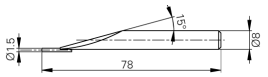
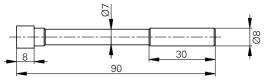
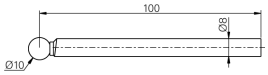
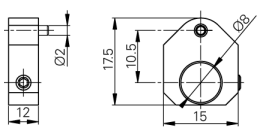
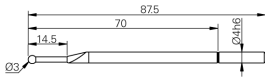
Accessoires | Zubehör | Accessories

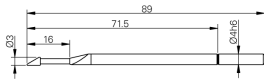
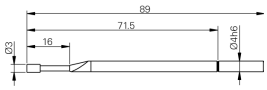
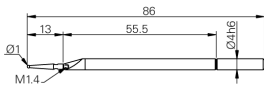
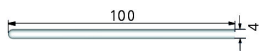
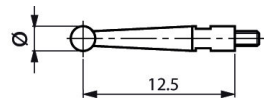
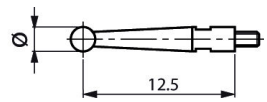
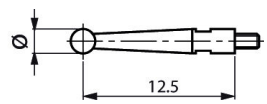
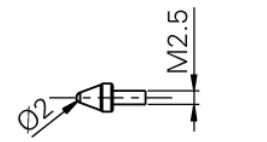
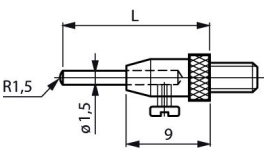
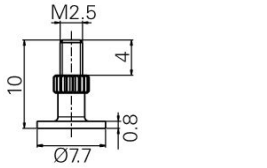
Instruments verticaux
Height gauges
Höhenmessgeräte

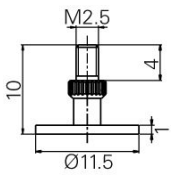
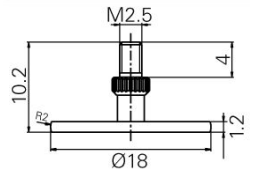
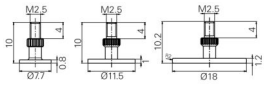
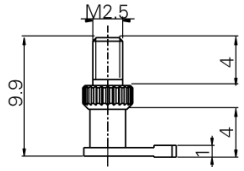
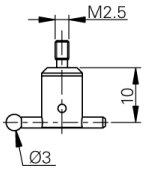
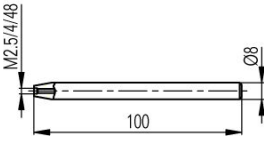
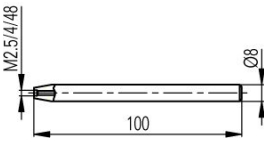
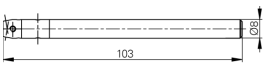
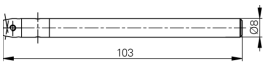
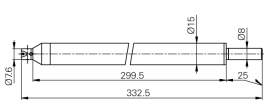
Swiss Measuring Instruments

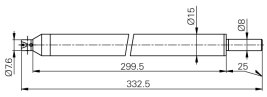
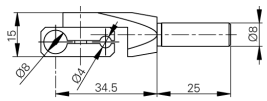
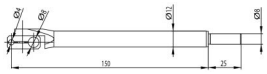
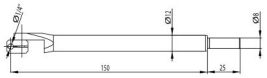
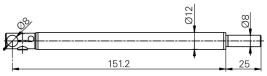
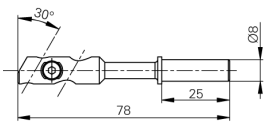
			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TV2S2** 779 901007 002	Cône Ø0-15 mm Konus Ø0-15 mm Cone Ø0-15 mm	■								
	**TV2S3** 779 901007 003	Cône Ø13-20.5 mm Konus Ø13-20.5 mm Cone Ø13-20.5 mm	■								
	**TV2S4** 779 901007 004	Cône Ø17-24.5 mm Konus Ø17-24.5 mm Cone Ø17-24.5 mm	■								
	**TV2S5** 779 901007 005	Cône Ø23-30.5 mm Konus Ø23-30.5 mm Cone Ø23-30.5 mm	■								
	**TA-IH-138** 712 12 20 0010	Support de cônes Konushalter Cone support	■								
	**TA-MI-122** 709 12 10 0003	Traceur pour V1 Anreissnadel für V1 Scriber for V1	■								
	**TA-MI-121** 709 05 20 0124	Touche bille MD Ø6 mm pour V1+ Messeinsatz mit HM-Kugel Ø6 mm für V1+ Measuring insert with TC-Ball Ø6 mm for V1+	■								
	**TVM2.4** 709 05 20 0009	Touche à bille Ø2 mm, L=41.6 mm Kugel-Messeinsatz Ø2 mm, L=41.6 mm Ball insert Ø2 mm, L=41.6 mm	■								
	**TVM2.3** 709 05 20 0014	Touche à bille Ø3 mm, L=42.5 mm Kugel-Messeinsatz Ø3 mm, L=42.5 mm Ball insert Ø3 mm, L=42.5 mm	■								
	**TVM2.2** 709 05 20 0025	Touche à bille Ø4 mm, L=43.5 mm Kugel-Messeinsatz Ø4 mm, L=43.5 mm Ball insert Ø4 mm, L=43.5 mm	■								

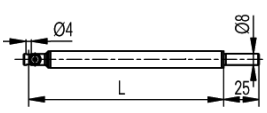
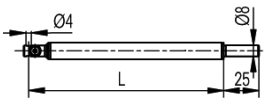
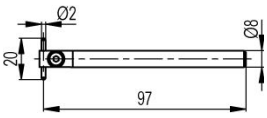
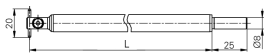
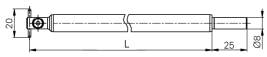
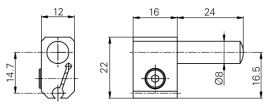
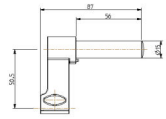
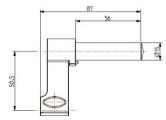
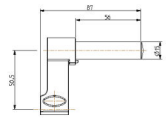
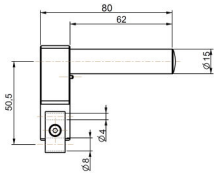
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	**TVM2.6** 709 05 20 0031	Touche à bille Ø5 mm, L=43.9 mm Kugel-Messeinsatz Ø5 mm, L=43.9 mm Ball insert Ø5 mm, L=43.9 mm	■								
	**TVM2** 709 05 20 0051	Touche à bille Ø8 mm, L=47.3 mm Kugel-Messeinsatz Ø8 mm, L=47.3 mm Ball insert Ø8 mm, L=47.3 mm	■								
	**TVM2.5** 709 05 20 0059	Touche à plateau Ø8 mm Zylindrischer Messeinsatz Ø8 mm Disc shaped insert Ø8 mm	■								
	**TVA9.1** 509 05 20 0011	Touche en tonneau M3-M16, L=55 mm Balliger Messeinsatz M3-M16, L=55 mm Barrel-shaped insert M3-M16, L=55 mm		■	■	■	■	■	■	■	■
	**TVA9.2** 509 05 20 0029	Touche en tonneau M6-M48, L=60 mm Balliger Messeinsatz M6-M48, L=60 mm Barrel-shaped insert M6-M48, L=60 mm		■	■	■	■	■	■	■	■
	**TVA9.3** 509 05 20 0062	Touche en tonneau M12-M150, L=60 mm Balliger Messeinsatz M12-M150, L=60 mm Barrel-shaped insert M12-M150, L=60 mm		■	■	■	■	■	■	■	■
	**TA-MI-111** 509 05 20 0078	Touche à bille métal dur Ø1 mm, L=75 mm Messeinsatz mit Hartmetall-Kugel Ø1 mm, L=75 mm Measuring insert with tungst. carb. ball, Ø1 mm, L=75 mm		■	■	■	■	■	■	■	■
	**TA-MI-110** 509 05 20 0077	Touche à bille en métal dur Ø2 mm, L=80 mm Messeinsatz mit Hartmetall-Kugel Ø2 mm, L=80 mm Measuring insert with tungst. carb. ball Ø2 mm, L=80 mm		■	■	■	■	■	■	■	■
	**TA-MI-104** 509 05 20 0080	Touche à bille métal dur Ø2 mm, L=130 mm Messeinsatz mit Hartmetall-Kugel Ø2 mm, L=130 mm Measuring insert with tungst. carb. ball Ø2mm, L=130 mm			■	■	■	■	■	■	■
	**TA-MI-120** SP509 05 20 0086	Touche à bille rubis Ø3 mm, L=90mm Messeinsatz mit Rubin-Kugel Ø3 mm, L=90mm Measuring insert with ruby ball Ø3 mm, L=90mm		■	■	■	■	■	■	■	■

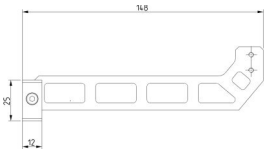
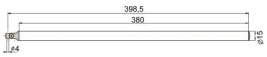
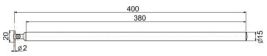
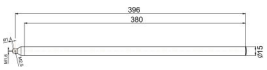
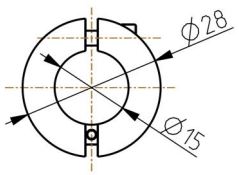
			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-MI-102** 509 05 20 0075	Touche à bille métal dur Ø4mm, L=90 mm Messeinsatz mit Hartmetall-Kugel Ø4 mm, L=90 mm Measuring insert with tungst. carb. ball Ø4 mm, L=90 mm	■	■	■	■	■	■	■	■	■
	**TA-MI-105** 509 05 20 0079	Touche à bille métal dur, Ø4 mm, L=140 mm Messeinsatz mit Hartmetall-Kugel Ø4 mm, L=140 mm Measuring insert with tungst. carb. ball Ø4 mm, L=140 mm			■	■	■	■	■	■	■
	**TA-MI-106** 279 918011 004	Touche à bille rubis Ø5 mm, L=129 mm Messeinsatz mit Rubin-Kugel Ø5 mm, L=129 mm Measuring insert with ruby ball Ø5 mm, L=129 mm			■	■	■	■	■	■	■
	**TA-MI-101** 509 05 20 0074	Touche à bille rubis Ø4 mm, L=90 mm Messeinsatz mit Rubin-Kugel Ø4 mm, L=90 mm Measuring insert with ruby ball Ø4 mm, L=90 mm	■	■	■	■	■	■	■		
	**TA-MI-119** SP279 918011 005	Touche à bille rubis Ø5 mm, L=64 mm Messeinsatz mit Rubin-Kugel Ø5 mm, L=64 mm Measuring insert with ruby ball Ø5 mm, L=64 mm								■	■
	**TA-MI-107** 509 05 20 0081	Touche à goupille métal dur Ø1.5 mm, L=78 mm Zylindrischer Messeinsatz Ø1.5 mm, L=78 mm Measuring insert with pin Ø1.5 mm, L=78 mm		■	■	■	■	■	■	■	■
	**TA-MI-112** 509 05 20 0082	Touche à surfaces planes, 10 x 10 mm, L=90 mm Messeinsatz mit Parallel-Messflächen, 10 x 10 mm, L=90 mm Measuring insert with parallel faces, 10 x 10 mm, L=90 mm			■	■	■	■	■	■	■
	**TA-MI-108** 279 918011 002	Touche à bille rubis Ø10 mm, L=100 mm Messeinsatz mit Rubin-Kugel Ø10 mm, L=100 mm Measuring insert with ruby ball Ø10 mm, L=100 mm	■	■	■	■	■	■	■	■	■
	**TA-AD-101** 603 11 001	Bague de positionnement de touche Ø8 mm Positionierhalter für Messeinsatz Ø8 mm Positioning holder for measuring insert Ø8 mm		■	■	■	■	■	■	■	■
	**TA-MI-109** 279 918011 003	Touche à bille rubis Ø3 mm, L=87.5 mm Messeinsatz mit Rubin-Kugel Ø3 mm, L=87.5 mm Measuring insert with ruby ball Ø3 mm, L=87.5 mm			■	■	■	■	■	■	■

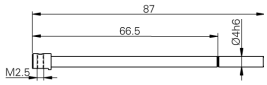
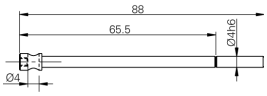
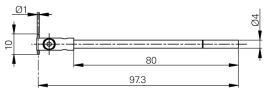
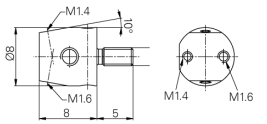
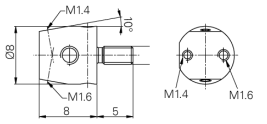
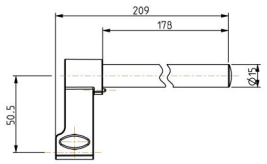
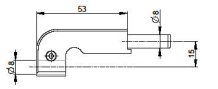
			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**V-50.10** 279 918007 001	Touche biseautée Abgeschrägter Messeinsatz Knife-edge insert			■	■	■	■	■	■	■
	**V-50.11** 279 918013 001	Touche en tonneau Ø3 x 5 mm, L = 89 mm Balliger Messeinsatz Ø3 x 5 mm, L = 89 mm Barrel-shaped insert Ø3 x 5 mm, L = 89 mm			■	■	■	■	■	■	■
	**V-50.12** 279 918012 001	Touche à bille Ø1 mm avec porte-touche, L=86 mm Kugel-Messeinsatz Ø1 mm mit Halter, L=86 mm Measuring insert Ø1 mm with holder, L=86 mm			■	■	■	■	■	■	■
	**TA-MI-114** 506 22 20 0063	Goupille, 1 face hémisphérique et 1 face plane, L=100 mm Stift, 1 halbkugelförmige und 1 flache Messfläche, L=100 mm Pin, 1 hemispheric and 1 plane face, L=100 mm	■	■	■	■	■	■	■	■	■
	**TA-MI-115** 279 901001 001	Touche M1.4 avec bille Ø1 mm, L=12.5 mm Fühlhebelmesseinsatz M1.4 mit Kugel Ø1 mm, L=12,5 mm Measuring insert M1.4 with ball Ø1 mm, L=12.5 mm			■	■	■	■	■	■	■
	**TA-MI-116** 279 901001 002	Touche M1.4 avec bille Ø2 mm, L=12.5 mm Fühlhebelmesseinsatz M1.4 mit Kugel Ø2 mm, L=12.5 mm Measuring insert M1.4 with ball Ø2 mm, L=12.5 mm			■	■	■	■	■	■	■
	**TA-MI-117** 279 901001 003	Touche M1.4 avec bille Ø3 mm, L=12.5 mm Fühlhebelmesseinsatz M1.4 mit Kugel Ø3 mm, L=12.5 mm Measuring insert M1.4 with ball Ø3 mm, L=12.5 mm			■	■	■	■	■	■	■
	**V-50.4** 279 918010 001	Touche hémisphérique M2,5 Messeinsatz M2.5 mit kugelförmiger Messfläche Measuring insert M2,5 with ball contact	■	■	■	■	■	■	■	■	■
	**TA-MI-118** 279 901003 001	Touche M2.5 à 4 goupilles interchangeables, L=16/26/36/46 mm Messeinsatz M2.5 mit 4 wechselbaren Stiften, L=16/26/36/46 mm Measuring insert M2.5 with 4 interchangeable pins, L=16/26/36/46 mm	■	■	■	■	■	■	■	■	■
	**V-50.2.1** 279 918005 002	Touche à disque M2.5, Ø7.7 mm Diskförmiger Messeinsatz M2.5, Ø7.7 mm Disc-shaped inserts M2.5, Ø7.7 mm	■	■	■	■	■	■	■	■	■

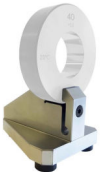
			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**V-50.2.2** 279 918005 003	Touche à disque M2.5, Ø11.5 mm Diskförmiger Messeinsatz M2.5, Ø11.5 mm Disc-shaped insert M2.5, Ø11.5 mm	■	■	■	■	■	■	■	■	■
	**V-50.2.3** 279 918005 004	Touche à disque M2.5, Ø18 mm Diskförmiger Messeinsatz M2.5, Ø18 mm Disc-shaped inserts M2.5, Ø18 mm	■	■	■	■	■	■	■	■	■
	**V-50.2** 279 918005 001	Jeu de 3 touches à disque M2.5, Ø 7.7 / 11.5 / 18 mm Satz mit 3 Diskusförmigen Messeinsätzen M2.5, Ø 7.7 / 11.5 / 18 mm Set of 3 disc-shaped inserts M2.5, Ø 7.7 / 11.5 / 18 mm	■	■	■	■	■	■	■	■	■
	**V-50.3** 279 918008 001	Touche à pied M2.5 L-förmiger Messeinsatz M2.5 Corner insert M2.5	■	■	■	■	■	■	■	■	■
	**V-50.1** 279 918009 001	Touche M2.5 à bille rubis orientable Ø3 mm Messeinsatz M2.5 mit Rubin-Kugel Ø3 mm Measuring insert M2.5 with ruby ball Ø3 mm			■	■	■	■	■	■	■
	**TVM6** 512 11 20 0018	Porte-touche Ø8 mm pour touches M2.5 Halter Ø8 mm für Messeinsätze M2.5 Holder Ø8 mm for measuring inserts M2.5	■	■	■	■	■	■	■	■	■
	**TVM6E** 512 11 20 0019	Porte-touche Ø8 mm pour touches 4-48 Halter Ø8 mm für Messeinsätze 4-48 Holder Ø8 mm for measuring inserts 4-48	■	■	■	■	■	■	■	■	■
	**TA-IH-101** 612 11 045	Porte-touche M2.5, L=103 mm Messeinsatz-Halter M2.5, L=103 mm Measuring insert holder M2.5, L=103 mm	■	■	■	■	■	■	■	■	■
	**TA-IH-103** 612 11 047	Porte-touche 4-48, L=103 mm Messeinsatz-Halter 4-48, L=103 mm Measuring insert holder 4-48, L=103 mm	■	■	■	■	■	■	■	■	■
	**TA-IH-102** 612 11 046	Porte-touche M2.5, L=300 mm Messeinsatz-Halter M2.5, L=300 mm Measuring insert holder M2.5, L=300 mm								■	■

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-IH-119** 612 11 048	Porte-touche (")4-48, L=300mm Messeinsatz-Halter (")4-48, L=300mm Measuring insert holder (")4-48, L=300mm								■	■
	**TA-IH-104** 612 11 053	Porte-touche orientable Ø4 et Ø8 mm Orientabler Messeinsatz-Halter Ø4 und Ø8 mm Swivel holder Ø4 and Ø8 mm		■						■	■
	**TA-IH-105** 612 11 051	Porte-touche orientable Ø4 et Ø8 mm, L=150 mm Orientabler Messeinsatz-Halter Ø4 und Ø8 mm, L=150 mm Swivel holder Ø4 and Ø8 mm, L=150 mm								■	■
	**V-2E/D1/4/L1** 612 11 013	Porte-touche orientable Ø1/4 ", L=150 mm Orientabler Messeinsatz-Halter Ø1/4 ", L=150 mm Swivel holder Ø1/4 ", L=150 mm								■	■
	**TA-IH-106** 612 11 039	Porte-touche orientable Ø4 et Ø8 mm, L=300 mm Orientabler Messeinsatz-Halter Ø4 und Ø8 mm, L=300 mm Swivel holder Ø4 and Ø8 mm, L=300 mm								■	■
	**TA-IH-107** 612 11 055	Porte-touche à 90°, Ø8 mm Messeinsatz-Halter 90°, Ø8 mm Insert holder 90°, Ø8 mm			■	■	■	■	■	■	■
	**TA-IH-108** 612 11 052	Porte-touche à 90°, Ø8 mm, L=150 mm Messeinsatz-Halter 90°, Ø8 mm, L=150 mm Insert holder 90°, Ø8 mm, L=150 mm			■	■	■	■	■	■	■
	**TA-IH-129** 612 11 040	Porte-touche orienté à 90°, Ø 8mm, L=300mm Messeinsatz-Halter, 90° geschwenkt, Ø 8mm, L=300mm Holder at 90°, Ø 8mm, L=300mm								■	■
	**TA-IH-109** 612 11 054	Porte-touche à 90°, Ø4 mm Messeinsatz-Halter 90°, Ø4 mm Insert holder 90°, Ø4 mm	■	■	■	■	■	■	■	■	■
	**V-4** 612 11 011	Porte-touche à 30°, Ø4 mm Messeinsatz-Halter 30°, Ø4 mm Insert holder 30°, Ø4 mm			■	■	■	■	■	■	■

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-IH-111** 612 11 041	Porte-touche à 90°, Ø4 mm, L=150 mm Messeinsatz-Halter 90°, Ø4 mm, L=150 mm Insert holder 90°, Ø4 mm, L=150 mm								■	■
	**TA-IH-112** 612 11 042	Porte-touche à 90°, Ø4 mm, L=300 mm Messeinsatz-Halter 90°, Ø4 mm, L=300 mm Insert holder 90°, Ø4 mm, L=300 mm								■	■
	**TVA4** 609 05 007	Porte-touche à tige Ø2 x 20 mm Messeinsatz-Halter mit Stift Ø 2 x 20 mm Insert holder with pin Ø2 x 20 mm	■	■	■	■	■	■	■	■	■
	**TA-IH-113** 612 11 043	Porte-touche à tige Ø2 x 20 mm, L=200 mm Messeinsatz mit Stift Ø2 x 20 mm, L=200 mm Insert holder with pin Ø2 x 20 mm, L=200 mm								■	■
	**TA-IH-114** 612 11 044	Porte-touche à tige Ø2 x 20 mm, L=300 mm Messeinsatz mit Stift Ø2 x 20 mm, L=300 mm Insert holder with pin Ø2 x 20 mm, L=300 mm								■	■
	**V-5** 612 11 012	Réduction Ø 8 / 4 mm Reduktion Ø 8 / 4 mm Reduction Ø 8 / 4 mm								■	■
	**TA-IH-135** 612 11 065	Porte-touche standard Ø8 mm Standard Messeinsatz-Halter Ø8 mm Standard insert holder Ø8 mm			■	■	■	■	■		
	**TA-IH-128** 612 11 067	Porte-touche Ø4 mm Messeinsatz-Halter Ø4 mm Measuring insert holder Ø4 mm			■	■	■	■	■		
	**TA-IH-137** SP612 11 065 01	Porte-touche Ø6 mm Messeinsatz-Halter Ø6 mm Measuring insert holder Ø6 mm			■	■	■	■	■		
	**TA-IH-130** 612 11 072	Porte-touche orientable Ø4 et Ø8 mm Orientabler Messeinsatz-Halter Ø4 und Ø8 mm Swivel holder Ø4 and Ø8 mm			■	■	■	■	■		

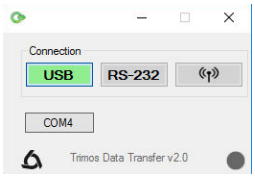
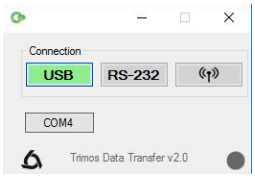
			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-IH-139** 712 11 089	Porte-touche orientable Ø4 et Ø8 mm, L=148 mm Orientabler Messeinsatz-Halter Ø4 und Ø8 mm, L=148 mm Swivel holder Ø4 and Ø8 mm, L=148 mm	■								
	**TA-IH-127** 612 11 066	Porte-touche Ø8 mm, L=400 mm Messeinsatz-Halter Ø8 mm, L=400 mm Insert holder Ø8 mm, L=400 mm			■	■	■	■	■		
	**TA-IH-131** 612 11 068	Porte-touche orientable Ø4 et Ø8 mm, L=400 mm Orientabler Messeinsatz-Halter Ø4 und Ø8 mm, L=400 mm Swivel holder Ø4 and Ø8 mm, L=400 mm			■	■	■	■	■		
	**TA-IH-132** 612 11 069	Porte-touche 90°, Ø4 mm, L=400 mm Messeinsatz-Halter 90°, Ø4 mm, L=400 mm Insert holder 90°, Ø4 mm, L=400 mm			■	■	■	■	■		
	**TA-IH-133** 612 11 070	Porte-touche à tige Ø2 x 20 mm, L=400 mm Messeinsatz-Halter mit Stift Ø 2 x 20 mm, L=400 mm Insert holder with pin Ø2 x 20 mm, L=400 mm			■	■	■	■	■		
	**TA-IH-134** 612 11 071	Porte-touche M2.5, L=400 mm Messeinsatz-Halter M2.5, L=400 mm Measuring insert holder M2.5, L=400 mm			■	■	■	■	■		
	**TA-AD-105** 603 11 003	Bague de positionnement de touche Ø15 mm Positionierhalter für Messeinsatz Ø15 mm Positioning holder for measuring insert Ø15 mm			■	■	■	■	■		
	**V-50.6** 279 918002 002	Porte-touche M2.5, L=80 mm Messeinsatz-Halter M2.5, L=80 mm Measuring insert holder M2.5, L=80 mm	■	■	■	■	■	■	■	■	■
	**V-50.5** 279 918002 001	Porte-touche M2.5, L=124 mm Messeinsatz-Halter M2.5, L=124 mm Measuring insert holder M2.5, L=124 mm	■	■	■	■	■	■	■	■	■
	**TA-IH-115** 279 918002 003	Porte-touche M2.5, L=200 mm Messeinsatz-Halter M2.5, L=200 mm Measuring insert holder M2.5, L=200 mm			■	■	■	■	■	■	■

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**V-50.7** 279 918001 002	Porte-touche à 90°, M2.5 Messeinsatz-Halter 90°, M2.5 Insert holder 90°, M2.5			■	■	■	■	■	■	■
	**V-50.8** 279 918001 001	Porte-touche à 90°, Ø4 mm Messeinsatz-Halter 90°, Ø4 mm Insert holder 90°, Ø4 mm			■	■	■	■	■	■	■
	**TA-IH-116** 279 918001 003	Porte-touche à tige, Ø1 x 10 mm, L=80 mm Messeinsatz mit Stift, Ø1 x 10 mm, L=80 mm Measuring insert holder, Ø1 x 10 mm, L=80 mm			■	■	■	■	■	■	■
	**TA-IH-117** 512 11 20 0012	Porte-touche pour touches M2.5, M1.6, M1.4 Halter für Messeinsätze M2.5, M1.6, M1.4 Holder for measuring inserts M2.5, M1.6, M1.4			■	■	■	■	■	■	■
	**TA-IH-118** 512 11 20 0013	Porte-touche pour touches 4-48, M1.6, M1.4 Halter für Messeinsätze 4-48, M1.6, M1.4 Holder for measuring inserts 4-48, M1.6, M1.4			■	■	■	■	■	■	■
	**TA-IH-136** 712 11 073	Porte-touche Ø8 mm, L=200 mm, Support pour palpeur de perpendicularité Messeinsatz-Halter Ø8 mm, L=200 mm, Halter für Rechtwinkligkeitstaster Insert holder Ø8 mm, L=200 mm, Holder for perpendicularity probe			■	■	■	■	■		
	**TA-IH-126** 612 07 006	Support pour palpeur de perpendicularité Halter für Rechtwinkligkeitstaster Holder for perpendicularity probe								■	■
	**TA-MS-101** 276 940001 001	Palpeur de perpendicularité pour V6/V7/V8/V9-400/700, (sans support - V6/V7: TA-IH-136 & Rechtwinkligkeitstaster für V6/V7/V8/V9-400/700, (ohne Halter - V6/V7: TA-IH-136 & V8/V9: TA-IH-126) Perpendicularity probe for V6/V7/V8/V9-400/700, (without support - V6/V7: TA-IH-136 & V8/V9: TA-IH-						■	■	■	■
	**TA-MS-102** 276 940001 002	Palpeur de perpendicularité pour V6/V7/V8/V9-1100, (sans support - V6/V7: TA-IH-136 & V8/V9: Rechtwinkligkeitstaster für V6/V7/V8/V9-1100, (ohne Halter - V6/V7: TA-IH-136 & V8/V9: TA-IH-126) Perpendicularity probe for V6/V7/V8/V9-1100, (without support - V6/V7: TA-IH-136 & V8/V9: TA-IH-						■	■	■	■
	**TA-MS-104** 609 02 021	Palpeur de perpendicularité pour V7-1800, (sans support TA-IH-136) Rechtwinkligkeitstaster für V7-1800, (ohne Halter TA-IH-136) Perpendicularity probe for V7-1800, (without support TA-IH-136)							■		

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-SU-101** 740 02 001	Paire de vis d'appui pour base V4 ÷ V9 Paar Stützschrauben für Gerätebasis V4 ÷ V9 Pair of abutment screw for instrument base V4 ÷ V9				■	■	■	■	■	■
	**TA-SE-106** 605 01 022	Jeux d'accessoires "Macro" (16 pcs) Zubehörsatz "Macro" (16 Stk.) Set of accessories "Macro" (16 pcs)			■	■	■	■	■	■	■
	**TA-SE-102** 605 01 008	Jeux d'accessoires "Micro" (20 pcs) Zubehörsatz "Micro" (20 Stk.) Set of accessories "Micro" (20 pcs)								■	■
	**TA-SE-105** 605 01 023	Jeux d'accessoires "Micro" (20 pcs) Zubehörsatz "Micro" (20 Stk.) Set of accessories "Micro" (20 pcs)			■	■	■	■	■		
	**TA-SE-107** 605 01 024	Jeux d'accessoires "Eco" (7 pcs) Zubehörsatz "Eco" (7 Stk.) Set of accessories "Eco" (7 pcs)			■	■	■	■	■	■	■
	**TA-MG-104** 609 01 032	Jauge d'étalonnage 25 mm Einstellehre 25 mm Setting gauge 25 mm			■	■	■	■	■	■	■
	**TA-MG-105** SP609 01 032 02	Bloc d'étalonnage avec hauteur et diamètre, H=100 mm Einstell-Lehre mit Höhe und Durchmesser, H=100 mm Setting gauge with height and diameter, H=100 mm		■	■	■	■	■	■	■	■
	**TA-MG-107** 709 01 037	Jauge d'étalonnage 4 mm Einstellehre 4 mm Setting gauge 4 mm	■	■							
	**TA-SU-102** SP609 40 040 03	Support pour mesure de bague-étalon TA-MG-001, (sans bague) Messständer für Einstellring TA-MG-001, (ohne Ring) Measuring stand for master ring gauge TA-MG-001, (without ring)	■	■	■	■	■	■	■	■	■
	**TA-TO-102** 614 00 007	Pièce de démonstration Vorführungsteil Demonstration piece	■	■	■	■	■	■	■	■	■

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**V-60** 712 12 045	Support de rangement pour accessoires Zubehör-Ablagefach Wooden accessories support	■	■	■	■	■	■	■	■	■
	**V-50.13** 290 918001 001	Clé pour touche comparateur à levier Schlüssel für Fühlhebelmesseinsatz Wrench for measuring inserts			■	■	■	■	■	■	■
	**TA-TO-118** 705 05 10 0009	Housse de protection pour V1/V1+ 300 mm Schutzhülle für V1/V1+ 300 mm Protection cover for V1/V1+ 300 mm	■								
	**TA-TO-119** 705 05 10 0011	Housse de protection pour V1/V1+ 600 mm Schutzhülle für V1/V1+ 600 mm Protection cover for V1/V1+ 600 mm	■								
	**TA-TO-114** 505 05 10 0041	Housse de protection pour V2 ÷ V9 - 400 Schutzhaube für V2 ÷ V9 - 400 Protection cover for V2 ÷ V9 - 400		■	■	■	■	■	■	■	■
	**TA-TO-115** 505 05 10 0042	Housse de protection pour V2 ÷ V9 - 700 Schutzhaube für V2 ÷ V9 - 700 Protection cover for V2 ÷ V9 - 700		■	■	■	■	■	■	■	■
	**TA-TO-116** 505 05 10 0043	Housse de protection pour V5 ÷ V9 - 1100 Schutzhaube für V5 ÷ V9 - 1100 Protection cover for V5 ÷ V9 - 1100					■	■	■	■	■
	**TA-TO-117** 505 05 10 0044	Housse de protection pour V7 - 1800 Schutzhaube für V7 - 1800 Protection cover for V7 - 1800							■		
	**TA-EL-112** 716 20 001	Câble pour connexion RS232-PC Kabel für RS232-PC-Verbindung Cable for RS232-PC connection	■	■	■	■	■	■	■	■	■
	**TA-EL-013** 332 02 0001	Câble de liaison USB A-B, L=1.8 m Verbindungskabel, USB A-B, L=1.8 m USB A-B connection cable, L=1.8 m							■		■

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-EL-014** 332 02 0002	Câble de liaison USB A-Mini B, L=1.8m Verbindunskabel, USB A-Mini B, L=1.8m USB A-Mini B connection cable, L=1.8m		■	■	■	■	■		■	
	**TA-EL-022** 716 35 008	Système de transmission de données sans fil, 1 x dongle pour l'Instrument & 1 x dongle USB pour PC Drahtloses Datenübertragungssysstem, 1 x Dongle für das Instrument & 1 x USB-Dongle für PC Wireless data transmission system, 1 x dongle for the instrument & 1 x USB dongle for PC				■	■	■	■	■	■
	**TA-EL-032** 756 0018	Imprimante thermique avec support, chargeur et câble RS232, (Pour V3 ÷ V6) Thermodrucker mit Halter, Ladegerät und RS232-Kabel, (für V3 ÷ V6) Thermal printer with holder, AC adapter and RS232 cable, (for V3 ÷ V6)		■	■	■	■	■		■	
	**TA-EL-033** 756 0020	Imprimante thermique avec support, chargeur et câble RS232, (Pour V7 & V9) Thermodrucker mit Halter, Ladegerät und RS232-Kabel, (für V7 & V9) Thermal printer with holder, AC adapter and RS232 cable, (for V7 & V9)							■		■
	**V-30.7** 788 000001 001	Rouleaux de papier (5 pces) pour imprimante thermique Papierrollen (5 Stk.) für Thermodrucker Paper rolls (5 pces) for thermal printer		■	■	■	■	■	■	■	■
	**TA-EL-063** 3704 0024	Batterie pour imprimante TA-EL-032 & TA-EL-033 Batteriesatz für Drucker TA-EL-032 & TA-EL-033 Battery pack for printer TA-EL-032 & TA-EL-033		■	■	■	■	■	■	■	■
	**TA-EL-016** 332 08 0001	Câble de connection instrument-affichage 0.23 m (HDMI) Verbindungskabel Instrument-Anzeige 0.23 m (HDMI-Stecker) Connection cable Instrument-Display 0.23 m (HDMI)		■	■	■	■	■	■	■	■
	**TA-EL-132** 716 70 010	Convertisseur AC/DC 240/24V - 3,0 A (36 W) AC/DC-Wandler 240/24V - 3,0 A (36 W) Converter AC/DC 240/24V - 3,0 A (36 W)		■	■	■	■	■		■	
	**TA-EL-133** 716 70 009	Convertisseur AC/DC 100-240V/12V - 2.5A (avec adaptateur) Netzgerät AC/DC 100-240V/12V - 2.5A (mit adapter) Adapter AC/DC 100-240V/12V - 2.5A (with adapter)							■		■
	**TA-EL-060** 3704 0021	Accumulateur pour V2, V3, V4, V5, V6 & V8, (Li-ion 7,2V - 2600mA/h) Batteriesatz für V2, V3, V4, V5, V6 & V8, (Li-ion 7,2V - 2600mA/h) Battery pack for V2, V3, V4, V5, V6 & V8, (Li-ion 7,2V - 2600mA/h)		■	■	■	■	■		■	

			V1	V2	V3	V4	V5	V6	V7	V8	V9
	**TA-EL-061** 3704 0022	Accumulateur pour V7 & V9, (Li-ion 7,2V - 10,4A/h) Batteriesatz für V7 & V9, (Li-ion 7,2V - 10,4A/h) Battery pack for V7 & V9, (Li-ion 7,2V - 10,4A/h)							■		■
	**TA-EL-062** 3705 0005	Pile de sauvegarde (CR1632) Pufferbatterie (CR1632) Back-up battery (CR1632)							■		■
	**BAT-TVM.OPT** 3705 0002	Pile (CR2032) Batterie (CR2032) Battery (CR2032)	■								
	**TA-SW-002** 394 1 0051	Logiciel de communication (TrimosDataTransfer) Software für Datenübertragung (TrimosDataTransfer) Software for data transfer (TrimosDataTransfer)		■	■	■	■	■	■	■	■
	**TA-SW-003** 394 1 0052	Logiciel de communication (TrimosDataTransfer Advanced), avec création de port COM virtuel Software für Datenübertragung (TrimosDataTransfer Advanced), mit virtueller Software for data transfer (TrimosDataTransfer Advanced), with virtual COM-port creation				■	■	■	■	■	■

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