

## Trimos V3 and V4 Digital Height Gauges

The V3 and V4 vertical measuring instruments have been developed for the most difficult workshop environments. Manufactured in Switzerland, they guarantee a robust, precise and reliable product. The RF version has a fine adjustment.

The display unit provides functions that are directly accessible and depicted with symbols that are easy to understand. This allows for easy and quick handling even by unqualified personnel. The large 2-line 'Black Mask' display offers an exceptional contrast in all lighting conditions, a unique characteristic on the market.

The V3 measuring column represents the entry level Trimos universal measuring column, benefiting from the very latest in product development. The V4 offers the same functions as the V3. In addition it is equipped with a second probe holder as well as with an air cushion for easy displacement on the measuring table. The programmable functions buttons on the handle allow quick access to the most used functions.



Swiss Precision



Option



See page 139 for details

### Features

- Measuring range: 400mm and 700mm
- Extremely easy to use
- Electronically adjustable measuring force
- Autonomy: 40 h (lithium-ion batteries)
- Larger than 300 mm probes as standard
- Vast range of accessories
- All adjustments possible without tools
- RS232 and USB interfaces



### TRIMOS V3 AND V4 DIGITAL HEIGHT GAUGES

Code No	20-V3-400	20-V3-700	20-V4-400	20-V4-700	20-V4-400RF	20-V4-700RF
Range (mm)	407	711	407	711	407	711
Range (inch)	16	28	16	28	16	28
Description	Measuring range with extension - 508mm/20"	Measuring range with extension - 812mm/32"	Measuring range with extension - 719mm/28"	Measuring range with extension - 1023mm/40"	Measuring range with extension - 719mm/28"	Measuring range with extension - 1023mm/40"
Maximum Error (µm)	7	8	4.5	6	4.5	6
Repeatability (µm)	2 (Ø: 4)	2 (Ø: 4)	2 (Ø: 4)	2 (Ø: 4)	2 (Ø: 4)	2 (Ø: 4)
Frontal Squareness Deviation (µm)	10	15	10	15	10	15
Resolution	0.001mm / (0.00005inch)	0.001mm / (0.00005inch)	0.001mm / (0.00005inch)	0.001mm / (0.00005inch)	0.001mm / (0.00005inch)	0.001mm / (0.00005inch)
Force	Measuring Force 0.75 - 1.5N	Measuring Force 0.75 - 1.5N	Measuring Force 0.75 - 1.5N	Measuring Force 0.75 - 1.5N	Measuring Force 0.75 - 1.5N	Measuring Force 0.75 - 1.5N
Note	Without Air Cushion, without Fine Adjustment	Without Air Cushion, without Fine Adjustment	With Air Cushion, without Fine Adjustment	With Air Cushion, without Fine Adjustment	With Air Cushion with Fine Adjustment	With Air Cushion With Fine Adjustment

Note: RF equals Fine Adjustment

## Trimos V5 and V6 Manual / Motorised Height Gauges

The vertical measuring instruments V5 and V6 are the descendants of the legendary V+ line; universally recognised for its ease of use and high quality.

Their clear display and user-friendly functions offer exceptional ease of use. But that's not all: the V5 and V6 are equipped with a revolutionary displacement hand-wheel offering its user the choice of displacement mode of the measuring carriage; either manual or motor-driven. Neither mode is compromised, which means that the user who prefers a manual instrument will not notice a difference from a classic manual instrument, and the same applies to the motor-driven displacement. This innovation avoids having to make a difficult choice during the purchasing process and can accommodate multiple users with the same instrument.

The design of the V5 with its side probe holders revives an old Trimos tradition: they enable measuring with long, robust probes guaranteeing excellent repeatability. The V6 is of the same calibre as the V5. It's equipped with a more precise measuring system and enables the use of an electronic perpendicular probe.

### Features

- Measuring ranges: 400, 700 and 1100mm
- Extremely easy to use
- Electronically adjustable measuring force
- Manual or motor-driven displacement
- Larger than 300mm probes as standard
- Vast range of accessories
- All adjustments possible without tools
- RS232 et USB interfaces



Swiss Precision



Option



See page 139 for details



### TRIMOS V5 HEIGHT GAUGE

Code No	20-V5-400	20-V5-700	20-V5-1100
Range (mm)	407	711	1110
Range (inch)	16.0	28.0	43.7
Description	Measuring range with extension mm/inch - 719/28.3	Measuring range with extension mm/inch - 1023/40.3	Measuring range with extension mm/inch - 1422/56
Maximum Error (µm)	2.5 + L(mm)/300	2.5 + L(mm)/300	2.5 + L(mm)/300
Repeatability (µm)	2	2	2
Resolution (mm)	0.01 / 0.001	0.01 / 0.001	0.01 / 0.001
Resolution (inch)	0.0005 / 0.00005	0.0005 / 0.00005	0.0005 / 0.00005
Force	Measuring Force - 0.75 - 1.5	Measuring force - 0.75 - 1.5	Measuring force - 0.75 - 1.5
Note	With Air Cushion	With Air Cushion	With Air Cushion

### TRIMOS V6 HEIGHT GAUGE

Code No	20-V6-400	20-V6-700	20-V6-1100
Range (mm)	407	711	1110
Range (inch)	16.0	28	43.7
Description	Measuring range with extension mm/inch - 719/28.3	Measuring range with extension mm/inch - 1023/40.3	Measuring range with extension mm/inch - 1422/56
Maximum Error (µm)	2 + L(mm)/400	2 + L(mm)/400	2 + L(mm)/400
Repeatability (µm)	1 (Ø: 2)	1 (Ø: 2)	1 (Ø: 2)
Frontal Squareness Deviation (µm)	5	8	11
Resolution	0.001mm/ (0.00005inch)	0.001mm/ (0.00005inch)	0.001mm / (0.00005inch)
Force	Measuring Force - 0.75 - 1.5	Measuring Force - 0.75 - 1.5	Measuring Force - 0.75 - 1.5
Note	With Air Cushion	With Air Cushion	With Air Cushion

## Trimos V7 Height Gauges

The V7 combines technological innovation and tradition. With the touch-display and lateral insert holders, it truly is a universal instrument for the workshop. Functions, normally considered as complex, such as 2D, programming, statistics, become child's play, resulting in an unequalled ease of use and a substantial increase in productivity.

The pair of lateral insert holders come from generations of instruments that have forged the reputation of Trimos. Their great robustness and flexibility allow the use of very diverse probes up to 400mm long with a breath-taking repeatability.

The V7, is equipped with the revolutionary displacement handwheel allowing the user to choose either the manual or motorised displacement mode.

### Features

- Measuring ranges 400 to 1800mm
- Simple and easy-to-use graphic interface
- Electronically adjustable measuring force
- Manual or motorised displacement
- 2D, programming, statistics
- Large range of accessories
- All possible adjustments without tools
- Interfaces RS232 and USB



Swiss Precision



Option



See page 139 for details



### TRIMOS V7 HEIGHT GAUGE

Code No	20-V7-400	20-V7-700	20-V7-1100	20-V7-1800
Range (mm)	407	711	1110	1810
Range (inch)	16	28	44	71
Description	Measuring range with extension mm/inch 719/28	Measuring range with extension mm/inch 1023/40	Measuring range with extension mm/inch 1422/56	Measuring range with extension mm/inch 2122/83
Resolution (mm)	0.0001	0.0001	0.0001	0.0001
Force	0.75 - 1.5	0.75 - 1.5	0.75 - 1.5	0.75 - 1.5
Resolution (inch)	0.00001	0.00001	0.00001	0.00001
Maximum Error (µm)	2 + L(mm)/400	2 + L(mm)/400	2.5 + L(mm)/400	2 + L(mm)/300
Repeatability (µm)	1 (σ:2)	1 (σ:2)	1 (σ:2)	1 (σ:2)
Output	USB / RS232	USB / RS232	USB / RS232	USB / RS232
Note	With Air Cushion	With Air Cushion	With Air Cushion	With Air Cushion

## Trimos V8 and V9 Height Gauges

The V8 range has been specifically designed for applications requiring a fine adjustment of the carriage position. The V9 height gauge combines technological innovation and tradition. With the touch-display and lateral insert holders, they truly are universal instruments for the workshop. Functions, normally considered as complex, such as 2D, programming, statistics, become child's play, resulting in an unequalled ease of use and a substantial increase in productivity. The V9 is equipped with the revolutionary displacement handwheel allowing the user to choose either the manual or motorised displacement mode.



Swiss Precision

WiFi

Option



RS232



See page 139 for details

### Features for V8

- Measuring range 400-700mm
- Simple and easy to use graphics interface
- Electronically adjustable measuring force
- Manual displacement only
- 2d programming, statistics
- Large range of accessories
- All possible adjustments without tools
- Interfaces RS232 and USB

### Features for V9

- Measuring ranges 400-1100mm
- Simple and easy-to-use graphic interface
- Electronically adjustable measuring force
- Electronic probe for squareness measurements
- Manual or motorised displacement
- 2d, programming, statistics
- Interfaces RS232 and USB
- Large range of accessories
- Smart Reverse available



### TRIMOS V8 HEIGHT GAUGE

Code No	20-V8-400RF	20-V8-700RF	20-V8-1100RF
Range (mm)	406	710	1109
Range (inch)	16	28	43
Description	Measuring range with extension mm/inch - 724/28	Measuring range with extension mm/inch 1028/40	Measuring range with extension mm/inch 1427/56
Resolution (mm)	0.0001	0.0001	0.0001
Resolution (inch)	0.00001	0.00001	0.00001
Accuracy (µm)	1,2 + l(mm) / 1000 µm	1,2 + l(mm) / 1000 µm	1,2 + l(mm) / 1000 µm
Force	Measuring Force 0.75 - 1.5	Measuring Force 0.75 - 1.5	Measuring Force 0.75 - 1.5
Repeatability (µm)	0.4 (Ø: 1)	0.4 (Ø: 1)	0.4 (Ø: 1)
Note	With Air Cushion	With Air Cushion	With Air Cushion

### TRIMOS V9 HEIGHT GAUGE

Code No	20-V9-400	20-V9-700	20-V9-1100
Range (mm)	406	710	1109
Range (inch)	16	28	43
Description	Measuring range with extension mm/inch - 724/28	Measuring range with extension mm/inch - 1028/40	Measuring range with extension mm/inch - 1427/56
Force	Measuring Force 0.75 - 1.5	Measuring Force 0.75 - 1.5	Measuring Force 0.75 - 1.5
Resolution (mm)	0.0001	0.0001	0.0001
Resolution (inch)	0.00001	0.00001	0.00001
Repeatability (µm)	0.4 (Ø: 1)	0.4 (Ø: 1)	0.4 (Ø: 1)
Note	With Air Cushion	With Air Cushion	With Air Cushion



## Accessories Set (Micro) Compatible with Trimos V3, V4, V5, V6, V7 and V8

### Set includes:

- TA-MI-115, Measuring insert M1.4 with ball Ø1mm, L=12.5mm
- TA-MI-116, Measuring insert M1.4 with ball Ø2mm, L=12.5mm
- TA-MI-117, Measuring insert M1.4 with ball Ø3mm, L=12.5mm
- TA-MI-118, Measuring insert M2.5 with 4 interchangeable pins, L=16/26/36/46mm
- V-50.8, Insert holder 90°, Ø4mm
- TA-IH-116, Measuring insert holder, Ø1 x 10mm, L=80mm
- V-50.6, Measuring insert holder M2.5, L=80mm
- V-50.2.1, Disc-shaped inserts M2.5, Ø7.7mm
- V-50.2.2, Disc-shaped insert M2.5, Ø11.5mm
- V-50.10, Knife-edge insert L=88/16mm

- V-50.3, Corner insert M2.5 Ø11.5mm
- V-50.4, Measuring insert M2.5 with ball contact
- V-50.9, Measuring insert with ruby ball Ø2mm, L=88mm
- V-50.12, Measuring insert Ø1mm with holder, L=86mm
- TA-TO-003 Allen key 1.5mm
- V-50.15, Allen key 2.5mm
- V-50.13, Wrench for measuring inserts
- TA-IH-117, Holder for measuring inserts M2.5, M1.6, M1.4
- TA-IH-128, Measuring insert holder Ø4mm
- TA-IH-104, Swivel holder Ø4 and Ø8mm



20-TA-SE-105

## Accessories Set (Macro) Compatible with Trimos V3, V4, V5, V6, V7, V8 and V9

### Set includes:

- TA-MI-115, Measuring insert M1.4 with ball Ø1mm, L=12.5mm
- TA-MI-116, Measuring insert M1.4 with ball Ø2mm, L=12.5mm
- TA-MI-117, Measuring insert M1.4 with ball Ø3mm, L=12.5mm
- V-50.5, Measuring insert holder M2.5, L=124mm
- IH-115, Measuring insert holder M2.5, L=200mm
- V-50.2.3, Disc-shaped inserts M2.5, Ø18mm
- V-50.4, Measuring insert M2.5 with ball contact
- V-50.15, Allen key 2.5mm
- V-50.13, Wrench for measuring inserts

- TA-MI-110, Measuring insert with tungst. carb. ball Ø2mm, L=80mm
- TA-MI-105, Measuring insert with tungst. carb. ball Ø4mm, L=140mm
- TA-MI-107, Measuring insert with pin Ø1.5mm, L=78mm
- TVA4, Insert holder with pin Ø2 x 20mm
- TA-IH-101, Measuring insert holder M2.5, L=103mm
- TA-IH-105, Swivel holder Ø4 and Ø8mm, L=150mm
- TA-IH-109, Insert holder 90°, Ø4mm L=65mm



20-TA-SE-106

## Accessories Set (Eco) Compatible with Trimos Vectra Touch, Mestra Touch, V3, V4, V5, V6, V7, V8 and V9

### Set includes:

- V-50.5, Measuring insert holder M2.5, L=124mm
- V-50.2.3, Disc-shaped inserts M2.5, Ø18mm
- V-50.4, Measuring insert M2.5 with ball contact
- V-50.15, Allen key 2.5mm

- TA-MI-110, Measuring insert with tungst. carb. ball Ø2mm, L=80mm
- TVA4, Insert holder with pin Ø2 x 20mm
- TA-IH-109, Insert holder 90°, Ø4mm L=65mm



20-TA-SE-107

### COMPATIBILITY WITH TRIMOS' HEIGHT GAUGE MODELS

	V3	V4	V5	V6	V7	V8	V9
Set TA-SE-105	X	X	X	X	X	X	
Set TA-SE-106	X	X	X	X	X	X	X
Set TA-SE-107	X	X	X	X	X	X	X

### TRIMOS DATA TRANSFER

Code No	Description
20-TA-EL-022	Wireless Data Transfer Kit (Includes Wireless Module and Smart USB Dongle)
20-TS-EL-021	Additional Wireless Module (for addition instruments)
30-981-7161	Sylvac VMux Dongle (Single Licence)