



Tough  
height gauges  
for the workshop

# 1.

## LONG-TERM QUALITY

Trimos height gauges have been created for the most extreme workshop conditions. They are the result of 30 years of experience in development and manufacturing. This experience makes it possible to introduce a product which combines ergonomic design with new technology. Their reliable concept is a reference for durability. Ease of use and quick performance of all required measuring tasks allow unlimited application in any manufacturing area.



# 2.

## A VERSATILE INSTRUMENT RANGE

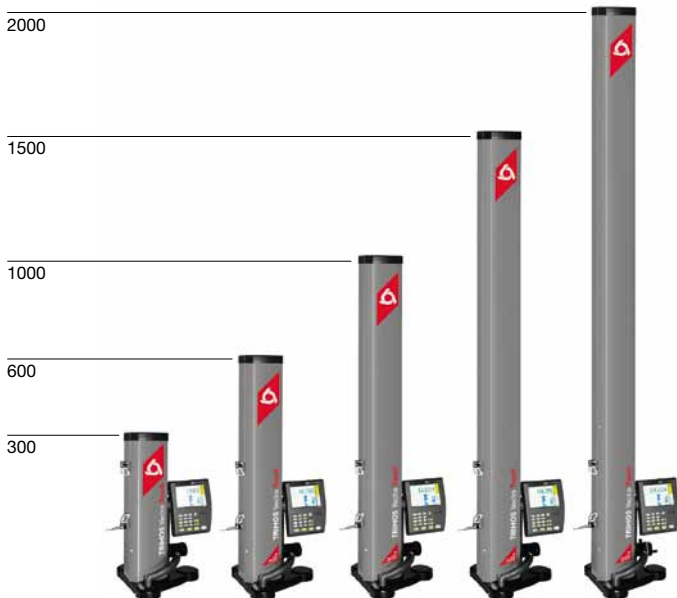
### V+

The V+ series is a great classic among universal vertical measuring instruments for the workshop. Its modern keyboard, using a very clear definition of all functions make its use simple and quick. The large display offers a perfect readability in all conditions.



### Vectra-touch

The Vectra-Touch series positions itself as top-of-the-range vertical instrument for the workshop. Its typical design, sturdiness, simplicity and unique functionalities offer an user-friendliness and a productivity without equal on the market.



### Measuring range from 300 mm to 2000 mm

Trimos is the only manufacturer able to deliver height gauges in such a broad measuring range.

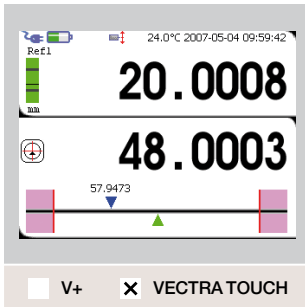
### Adapted to an aggressive work environment

The Vectra-Touch and V+ vertical instruments have been designed to withstand the hard conditions in the workshops. No wonder why Trimos enjoys such a success among the professionals worldwide!

	V+	VECTRA-TOUCH
Surface measurement		
Diameter measurement		
Centerline distance		
Minimum / maximum value		
Multi-references		
Squareness measurement		
Calculation mode		
RS232 ports		
Angle measurement		
Tolerances		
USB ports		
2D measuring mode		
Measurement sequences		
Statistical analysis		
Temperature compensation		
On line help		
Wireless communication		
Automatic displacement		
EasyScan		
Touch screen		

# 3.

## MATCHLESS FUNCTIONALITIES



V+  VECTRA TOUCH

### Easy diameter measurement

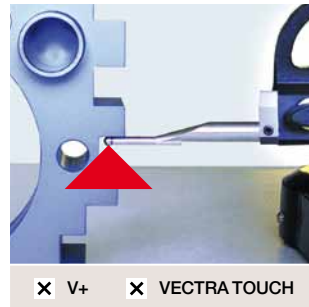
The EasyScan system allows a perfect and easy measurement of internal and external diameters.



V+  VECTRA TOUCH

### Clear colour touch screen

Extremely resistant, it offers an unrivalled ease of use. A graphic help assists the realization of all measuring procedures.



V+  VECTRA TOUCH

### Adjustable measuring force

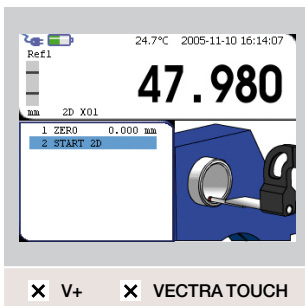
The adjustment of the measuring force offers a great sharpness of use on all kinds of materials.



V+  VECTRA TOUCH

### Well-thought ergonomics

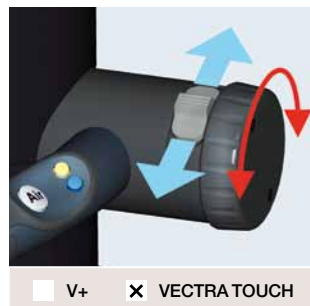
The operating handle for the displacement of the instrument is equipped with 2 keys, programmable for use of the most common functions.



V+  VECTRA TOUCH

### Measurement reading optimized

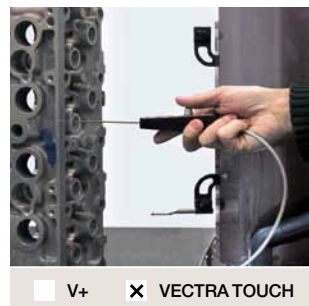
Only absolute needed information is displayed. Access to all the functions is child's play.



V+  VECTRA TOUCH

### Manual or motorised displacement

Manual or motorised displacement of the measuring carriage. Ergonomic, fast and accurate.



V+  VECTRA TOUCH

### Temperature compensation

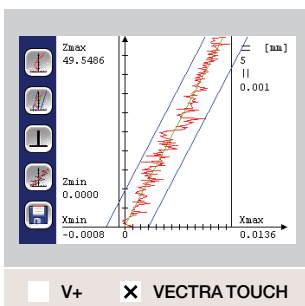
All instruments are provided with a basic temperature compensation system. An external sensor is available as accessory.



V+  VECTRA TOUCH

### Data transfer

All data may be stored on an external USB support. Measuring results can be easily edited on a computer.



V+  VECTRA TOUCH

### Squareness measurement

Measurement with or without squareness probe. Display of squareness curve and possibility to print it.



V+  VECTRA TOUCH

### Wireless communication

The instruments maybe equipped with an accessory for wireless communication Bluetooth or Wi-Fi.



V+  VECTRA TOUCH

### User friendly

Of legendary simplicity, Trimos instruments are accessible to any user, whatever his former training.



V+  VECTRA TOUCH

### Wide range of accessories

Trimos offers the most complete accessory range on the market. Measuring inserts up to 300 mm long can be easily adapted. (500 mm on request).

## ● V+

		V304/V305	V604	V1004
Measuring range	mm (in)	300 (12)	600 (24)	1000 (40)
Application range	mm (in)	535 (21)	835 (32)	1235 (48)
Max. permissible errors <sup>1)</sup>	µm	2.5 + L (mm) / 300		
Repeatability (2s) <sup>1)</sup>	µm	2		
Overall squareness deviation (frontal)	µm	5	8	12
Resolutions	mm (in)	0.01 / 0.001 (0.0001/0.00005)		
Max. manual displacement speed	mm/s	1000		
Autonomy with air cushion	h	30		
Autonomy without air cushion	h	100		
Measuring force (adjustable)	N	0.7 - 1.6 (0.3 - 1.2 version V305/V305C)		
Interfaces	-	RS 232		
Operational temperature	°C	+10 .. +40		
Storage temperature	°C	-10 .. +40		
Total height	mm	565	865	1275
Weight	kg	10	12	15

## ● VECTRA-TOUCH

		VT300	VT600	VT1000	VT1500	VT2000
Measuring range	mm (in)	305 (12)	610 (24)	1016 (40)	1524 (60)	2034 (80)
Application range	mm (in)	567 (22)	872 (34)	1278 (50)	1786 (70)	2296 (90)
Max. permissible errors <sup>1)</sup>	µm	2 + L (mm)/400			2.5 + L (mm)/300	
Repeatability (2s) <sup>1)</sup>	µm	1 (diameters: 2)				
Overall squareness deviation (frontal)	µm	4	6	10	15	25
Resolutions	mm (in)	0.01 / 0.001 / 0.0001 (0.001/0.0001/0.00001)				
Max. manual displacement speed	mm/s	1000				
Max. motorised displacement speed	mm/s	150				
Autonomy	h	> 8				
Measuring force (adjustable)	N	0.5 .. 1.8				
Interfaces	-	2 x RS232 C & 2 x USB (A & B)				
Operational temperature	°C	+10 .. +40				
Storage temperature	°C	-10 .. +40				
Total height	mm	645	950	1357	1866	2376
Weight	kg	20	23	27	39	44

<sup>1)</sup> Indicated specifications are determined using the standard probe at a temperature of 20 ± 0.5 °C and relative humidity of 50 ± 5%.



### TRIMOS Height Gauges

#### TVM

Measuring Range: 300 - 1000 mm  
Max. Permissible Errors: 0.02 - 0.04 mm  
Fehlergrenzen: 0.02 - 0.04 mm



#### ALTIA

Measuring Range: 350 - 600 mm  
Max. Permissible Errors: 8 - 10  $\mu\text{m}$



#### ALTIA PREMIUM

Measuring Range: 350 - 600 mm  
Max. Permissible Errors:  $3 + L(\text{mm})/200$



#### V+

Measuring Range: 300 - 1000 mm  
Max. Permissible Errors:  $2.5 + L(\text{mm})/300$



#### Z\_CAL

Measuring Range: 350 - 600 mm  
Max. Permissible Errors:  $3 + L(\text{mm})/200$



#### VECTRA-TOUCH

Measuring Range: 300 - 2000 mm  
Max. Permissible Errors:  $2 + L(\text{mm})/400 - 2.5 + L(\text{mm})/300$



#### MESTRA/MESTRA-TOUCH

Measuring Range: 300 - 1000 mm  
Max. Permissible Errors:  $1.2 + L(\text{mm})/1000$

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