

THV





System Description

The horizontal THV instrument has been designed for calibration and certification of gauging equipment of small dimension.

It allows easy and precise checking of plug gauges, ring gauges, thread plug gauges, test and dial indicators as well as measuring of high precision production parts.

The incorporated opto-electronic measuring system guarantees high accuracy. A separate display unit or a PC with Trimos WinDHI software can be used to display the measurement results.

The THV instruments can also be delivered without measuring system. An electronic probe or a dial indicator shall then be used as measuring system.

Due to its small size, The THV can be moved easily. It is therefore frequently used as mobile calibration station.

- Ideal for use in a clean room and in the workshop area
- The instrument meets the requirements of all ISO 9000
- Very simple manipulation
- Large range of accessories
- Checking of external and internal dimensions
- According to the application, can be used in horizontal or inclined up to 90°

Specifications	
Overall application range	Using standard probes
External measurement	0 - 4" (0 - 100mm)
Internal measurement	0.4 - 4" (10-100mm)
Scale range (travel)	Absolute display over 2" (50mm)
Maximum measuring band error (at 20°C)	0.000016" (0.4µm) reference
Resolution on Heidenhain ND 1100	0.00001", 0.000001" (0.001, 0.0001, or 0.00002mm)
Repeatability	0.000005" ±2s (0.1µm)
Adjustable measuring force	0 to 12N (0 - 40 oz.)

Display Options

Heidenhain ND1100

- Linear measuring system, min / max value hold
- Inversion of measuring direction sign (+/-)
- Zero setting of the display and preset input
- Parameter settings and classification
- Configuration of the display using external contact
- RS232 data output

PC with Trimos WINDHI

- Inversion of measuring direction sign (+/-)
- DDE-server (for Excel, Word, etc.)
- Graphic help for measuring functions
- Data transfer using a foot pedal
- direct display of all length measuring values and min. / max. value hold
- Measuring with 9 references



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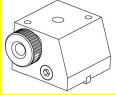
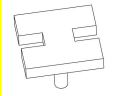
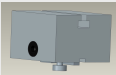
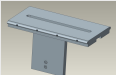
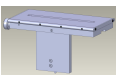
- Compatible with measuring equipment management systems



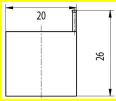
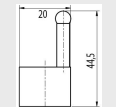
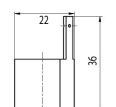
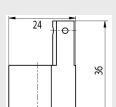
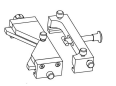
Measuring Instrument

1*	54-198-508-0	THV with rigid table Not Quoted - Pricing Information Only			
1	54-198-558-0	THV with floating table			
Displays					
1*	54-198-400-0	Trimos USB Signal Converter Box + WINDHI Software (USER SUPPLIED COMPUTER REQUIRED) Not Quoted - Pricing Information Only			
1	54-198-110-0	THV Readout/Quadra-Check ND1100			

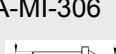
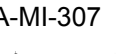
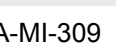
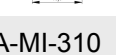
Tables & Supports

External Measuring Tables					
1	54-198-100-0		Support for THV-101 & THV-150		
1	54-198-101-0		Plate with H-shaped clearance		
1*	54-198-160-0		Block support for TELS6		
Internal Measuring Tables					
1*	54-198-001-0		Rigid measuring table		
1*	54-198-250-0		Floating measuring table		

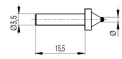
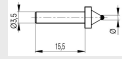
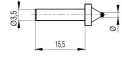
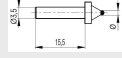
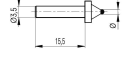
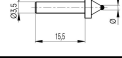
Internal Anvils for Floating Tables

1	THV-21 	Pair of inserts for internal meas. >Ø2.5 mm			
1*	54-198-022-0 	Pair of inserts for internal meas. >Ø13 mm			
1*	54-198-025-0 	Pair of inserts for internal meas. >Ø5 mm			
1*	THV-26 	Pair of inserts for internal meas. >Ø10 mm			
Ring Gauges					
1*	54-198-260-0 	Reversal Point Guide for European Rings			
1*	54-198-261-0 	Reversal Point Guide for American Rings			

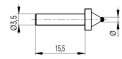
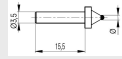
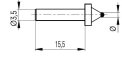
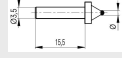
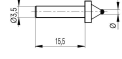
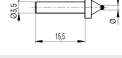
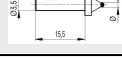
Ball Probes (1 - 2.75mm)

1*	TA-MI-301	Ball probe Ø1.00 mm			
					
1*	TA-MI-302	Ball probe Ø1.25 mm			
					
1*	TA-MI-303	Ball probe Ø1.50 mm			
					
1*	TA-MI-304	Ball probe Ø1.75 mm			
					
1*	TA-MI-305	Ball probe Ø2.00 mm			
					
1*	TA-MI-306	Ball probe Ø2.032 mm			
					
1*	TA-MI-307	Ball probe Ø2.20 mm			
					
1*	TA-MI-308	Ball probe Ø2.25 mm			
					
1*	TA-MI-309	Ball probe Ø2.50 mm			
					
1*	TA-MI-310	Ball probe Ø2.75 mm			
					

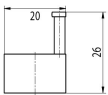
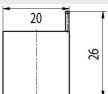
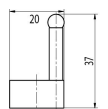
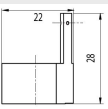
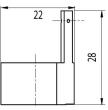
Ball Probes (3 - 4.50mm)

1*	TA-MI-311	Ball probe Ø3.00 mm			
					
1*	TA-MI-312	Ball probe Ø3.20 mm			
					
1*	TA-MI-313	Ball probe Ø3.25 mm			
					
1*	TA-MI-314	Ball probe Ø3.50 mm			
					
1*	TA-MI-315	Ball probe Ø3.70 mm			
					
1*	TA-MI-316	Ball probe Ø4.00 mm			
					
1*	TA-MI-317	Ball probe Ø4.50 mm			
					

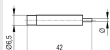
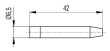
Ball Probes (5 - 10mm)

1*	TA-MI-318	Ball probe Ø5.00 mm			
					
1*	TA-MI-319	Ball probe Ø5.50 mm			
					
1*	TA-MI-320	Ball probe Ø6.00 mm			
					
1*	TA-MI-321	Ball probe Ø6.50 mm			
					
1*	TA-MI-322	Ball probe Ø7.00 mm			
					
1*	TA-MI-323	Ball probe Ø8.00 mm			
					
1*	TA-MI-324	Ball probe Ø9.00 mm			
					
1*	TA-MI-325	Ball probe Ø10.00 mm			
					

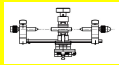
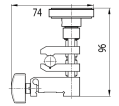
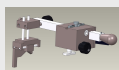
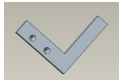
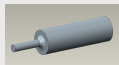
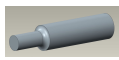
Internal Anvils for Rigid Tables

1*	54-198-010-0	Pair of inserts for internal meas. >Ø10 mm			
					
1*	THV-11	Pair of inserts for internal meas. >Ø2.5 mm			
					
1*	54-198-012-0	Pair of inserts for internal meas. >Ø13 mm			
					
1*	54-198-015-0	Pair of inserts for internal meas. >Ø5 mm			
					
1*	54-198-020-0	Pair of inserts for internal meas. >Ø10 mm			
					

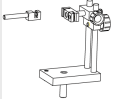
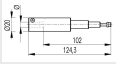
External Anvils

1*	TELS53/D1 	Pair of measuring anvils Ø1 mm			
1*	53-190-037-0 	Pair of measuring anvils Ø2 mm			
1*	53-190-019-0 	Pair of measuring anvils Ø6.5 mm			
1*	53-190-033-0 	Pair of measuring anvils Ø8 mm			
1*	53-190-034-0 	Holder for measuring inserts 4-48			
1*	53-190-032-0 	Holder for measuring inserts M2.5			

Plug Gauges

1	54-198-115-0	Measuring table for plug gauges <Ø60 x 160 mm w/ centering clamp			
					
1*	THV-115.1	Measuring table for plug gauges <Ø60 x 160 mm			
					
1*	THV-115.2	Self centring clamp, for THV-115.1			
					
1*	54-198-170-0	Support for plug gauges			
					
1*	THV-174	Supporting V for thread plug gauges			
					
1*	54-198-175-0	Supporting pin for plug gauges, Ø3 mm			
					
1*	54-198-176-0	Supporting pin for plug gauges, Ø 6 mm			
					
Thread Plug Gauge Accessories					
1	54-197-007-0	Thread Wire Set for 6.5mm Anvils			
					
1*	54-198-300-0	Pneumatic system for measuring force setting			
					

Dial & Test Indicators

Test Indicators					
1*	54-198-150-0	Holder for test indicators			
					
Dial Indicators					
1*	54-198-181-0	Holder for checking dial indicators, Ø8mm			
					
1*	54-198-182-0	Holder for checking dial indicators, Ø3/8 "			
					
1*	54-198-180-0	Micrometer spindle for checking of dial indicators			
					

Miscellaneous

1*	54-197-503-0	Support for Heidenhain display unit			
					
1*	54-198-190-0	Indexable lever handle for THV			
					
1*	54-800-800-0	Case, Fowler Custom Case - THV			
					