



Bore gauges

Special applications

DESCRIPTION

- XTD or XTH instrument equipped with a special measuring head manufactured according to the particular item to be measured
- These instruments are subject to a feasibility analysis and a preliminary price offer based on the design of the component to be measured.
- We can measure the following elements:
 - Grooves, notches
 - -Threads from M4 (all types)
 - Splines
 - Deep holes
 - etc.
- Delivery time 4-8 weeks





HEIGHT GAUGES Hi_Cal, Hi_Gage ONE & Z5

An indispensable instrument in the workshop, the measuring column allows you to quickly measure heights, distances, internal and external diameters, centre-to-centre distances or even particular points (minimum or maximum). In this chapter you will find a range of columns comprising 3 models, from the simplest to the most complete, all connectable via Bluetooth® for maximum user convenience.

GENERAL CHARACTERISTICS:







External power supply and

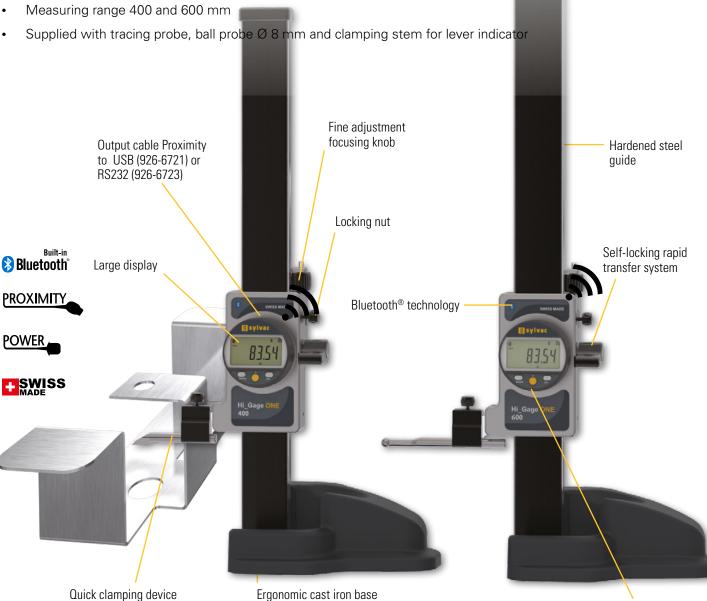
output cable Power to USB (926-6821/926-6838) or RS232 (905-4516/905-4538)

Height gauge

Hi_Gage ONE Smart

DESCRIPTION

- Measuring and tracing column with integrated Bluetooth® system
- Ergonomic cast iron base for good sitting posture
- Self-locking rapid transfer system and fine adjustment screws
- New, very robust double guide system
- Case Ø 59.5 mm with display resolution 0.01 mm
- Three buttons, including the central button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA
- Possibility to enter the key constant for measuring diameters and centre-to-centre distances
- Light indication validating the probing
- Additional data outputs Power and Proximity



Ø8mm

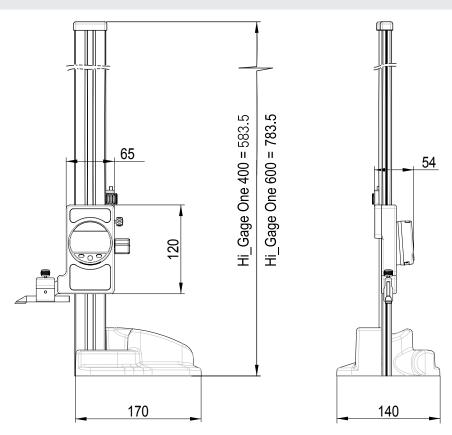
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Hi_Gage ONE Smart

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		840-0406	840-0606			
Measurement range mm		400	600			
Resolution	mm	0.01	0.01			
Max. error	μm	40	50			
Repeatability	μm	10 1)	10 ¹⁾			
2 references		•	•			
PRESET		9999.99				
Selection of measuring direction		•				
Smart Inductive Sensor (S.I.S)		•				
Output data		Tracing probe (840.9002)				
		Bluetooth® wireless technology * / RS232 / USB				

^{1) ± 1} digit

STANDARD DELIVERY

- Tracing probe (840-9002)
- Calibration certificate
- Quickstart





Hi_Cal V2 Smart

DESCRIPTION

- 1D workshop measuring columns with integrated Bluetooth® system and battery
- Perfectly suited for the rapid measurement of heights, depths, thicknesses, internal and external diameters, centre-tocentre distances, etc.
- Value of the key constant stored in memory even after the instrument is switched off.
- Compact and lightweight columns are easy to handle and do not require an air cushion.
- New construction with simplified guidance systems to ensure reliability
- Motorised measuring button movement with encoder integrated in the system eliminating operator influence
- Variable and progressive displacement speed according to the pressure exerted on the paddle
- Automatic pre-positioning of the key by the Sylcom software, allowing a reliable and fast measuring sequence
- Fixed key holder system with interchangeable Ø 3 mm ruby ball button
- Display resolution 0.01 / 0.001 / 0.0005mm
- Very small cast iron base equipped with 3 ground hard metal runners, requiring only a small working space
- Lower button with selectable favourite function
- Wide range of functions, including MIN/MAX/DELTA



mini-USB___

RS232 Swiss Output cable RS232 to USB (925-1142) or RS232 (925-5609) or output cable mini-USB to USB (926-6001)

Switch on and measure!

use close to the machine

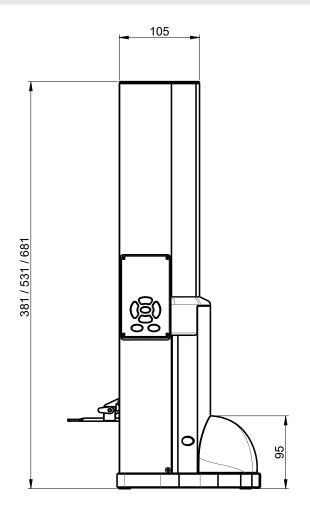


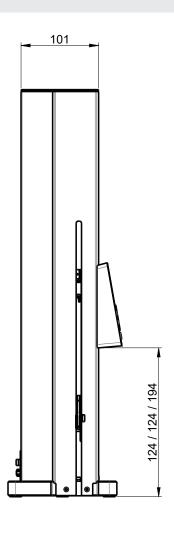
Sylvac

Height gauge

Hi_Cal V2 Smart

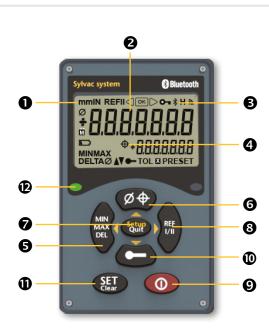
DIMENSIONAL DRAWINGS





DISPLAYS

- Measuring unit and actives reference
- Display of measuring value
- Bluetooth® Technology
- 4 Centerline display
- **5** Dynamic measuring mode
- 6 Diameter / surface measurement
- Access to setting menu
- 8 Selection of reference Ref I / Ref II
- ON / Standby / OFF Switch
- Ball probe constant
- Zero / Initialization of min, max mode
- Luminous indication of valide measurement







Hi_Cal V2 Smart

TECHNICAL SPECIFICATIONS

		830-0156	830-0306	830-0456	
Measuring range	mm	150 300		450	
Max. Error μm		2.0 + L / 200 ¹⁾			
Repeatability	μm	1			
Resolution	mm		0.01 / 0.001 / 0.0005		
Velocity	mm/s	100			
Measuring force	N	0.25 - 0.35			
Autonomy of the battery	h	< 404)			
Height	mm	381 531		681	
Weight	kg	4.0	4.7	6.8	
Weight of the standard probe		7.5g, possibility of using 0-15g or 10-25g ²⁾ probes			
Output data		USB / RS232 / Bluetooth® 3)			
Programmable by PC		•			
Zero setting		•			
Min / max / delta			•		
PRESET function		•			
2 references			•		
Height measurement, Ø and centerlines			•		
1 type of progressive speed			•		

¹⁾ With standard probe, in laboratory conditions

STANDARD DELIVERY

- Loose cover Hi_Cal 150 (930-6001)
- Loose cover Hi_Cal 300 (930-6002)
- Loose cover Hi_Cal 450 (930-6005)
- Charging set (904-4200¹⁾/01/03/04/05)
- Ruby ball probe Ø 3 mm
- Setting gauge
- Calibration certificate
- Instruction manual

²⁾ With adjustement of the measuring force

³⁾ See cables chapter

^{4) 8}h/d at 20% use, 16h/d sby

¹⁾ according to country



Sylvac

Height gauge

Hi_Cal V2 Smart

APPLICATIONS



Depth measurement with accessories 930-2108 and 930-2105



Depth measurement with accessories 930-2108 and 905-2204



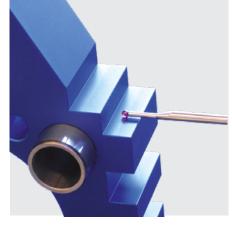
Internal measurement with ruby ball probe Ø 3 mm, 930-2101 (standard)



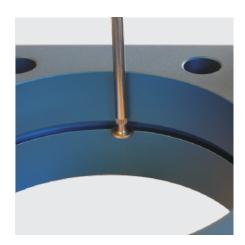
Internal groove measurement with accessories 930-2108, 930-2110 and 905-2207



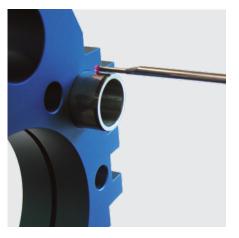
Taking the probe constant value with the setting bloc 930-2002 (standard)



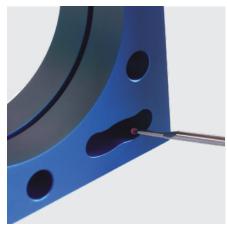
Heights and thicknesses measurements with the standard probe 930-2101



Internal groove measurement with accessories 930-2108, 930-2110 and 905-2205



External diameter measurement with the standard probe 930-2101



Min/Max/Delta measurements

DESCRIPTION

- 1D workshop measuring column with Trimos technology
- Perfectly suited for the rapid measurement of heights, depths, thicknesses, internal and external diameters, centre-to-centre distances, etc.
- Revolutionary crank handle offering the user the choice of manual or motorised carriage movement
- Lateral probe holder allows the use of extra-long keys (up to 400 mm) with excellent repeatability
- XL display module with 0.001 mm resolution and intuitive functions
- Cast iron base with ergonomic handle with air cushion control knob
- Measuring force electronically adjustable (0.75-1.5 N)
- Rechargeable battery with 12-hour working autonomy
- Measuring range 711 mm (1023 mm with extension)
- Supplied with interchangeable Ø 4 mm ruby ball button
- USB/RS232 data output
- Optionally, a Sylcom-compatible Bluetooth® communication accessory can be ordered as an accessory

Let's measure higher!



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Output cable RS232 to RS232 (926-5505) or output cable mini-USB to USB (926-6001)

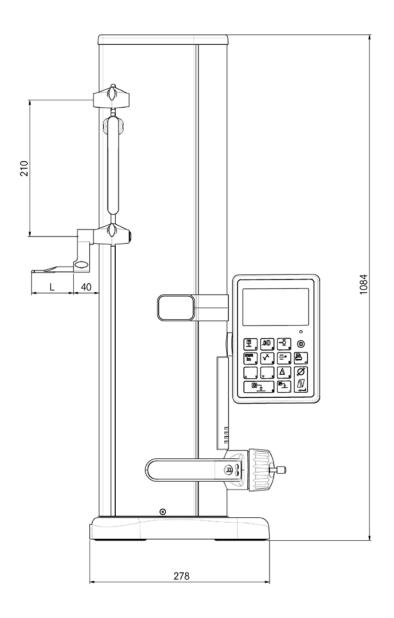


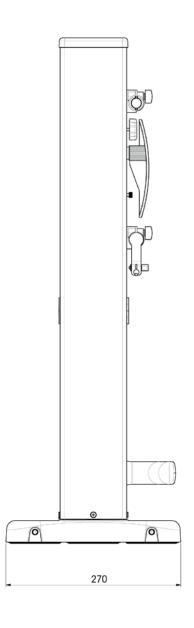




Z5

DIMENSIONAL DRAWINGS





STANDARD DELIVERY

- Instrument according to technical specifications
- Protection cover
- Charging set (904-4200¹⁾/01/03/04/05)
- Ruby ball probe Ø 4 mm
- Setting gauge
- Calibration certificate
- Instruction manual

¹⁾ according to country





Z5

Height gauge

TECHNICAL SPECIFICATIONS

		936-0700
Measuring range	mm	711
Measuring range with extension	mm	1023
Max. Error	μm	2.5 + L / 300
Repeatability R _{MPE}	μm	2
Frontal squareness deviation \mathbf{S}_{MPE}	μm	8
Maximum resolution	mm	0.001
Measuring force	N	0.75 ÷ 1.5
Autonomy	h	12
Output data		USB / RS232
Air cushion		•
Weight	kg	24
Programmable by PC		•
Zero setting		•
Min / max / delta		•
PRESET function		•
Simultaneous display of diameters and centerlines		•
Thickness, chain and height measurements		•
Manual and motorised displacement		•

The above values have been determined according to ISO 13225, with the standard measuring insert.

APPLICATIONS



Thickness, chain and height measurements



Simultaneous display of diameters and centerlines



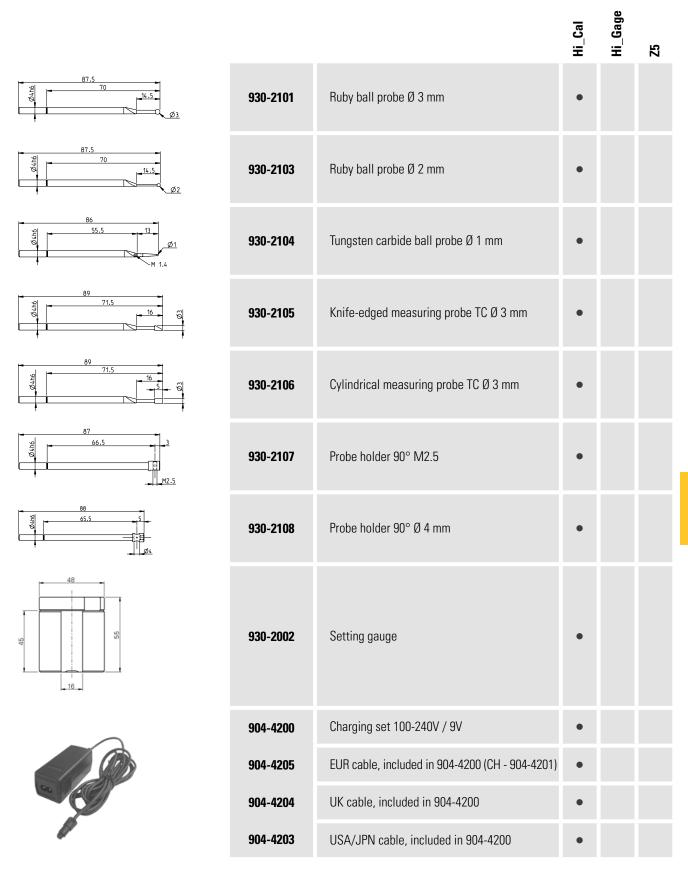
The motorisation guarantees a perfectly constant measuring force

For the accessories, refer to Trimos website: www.trimos.com





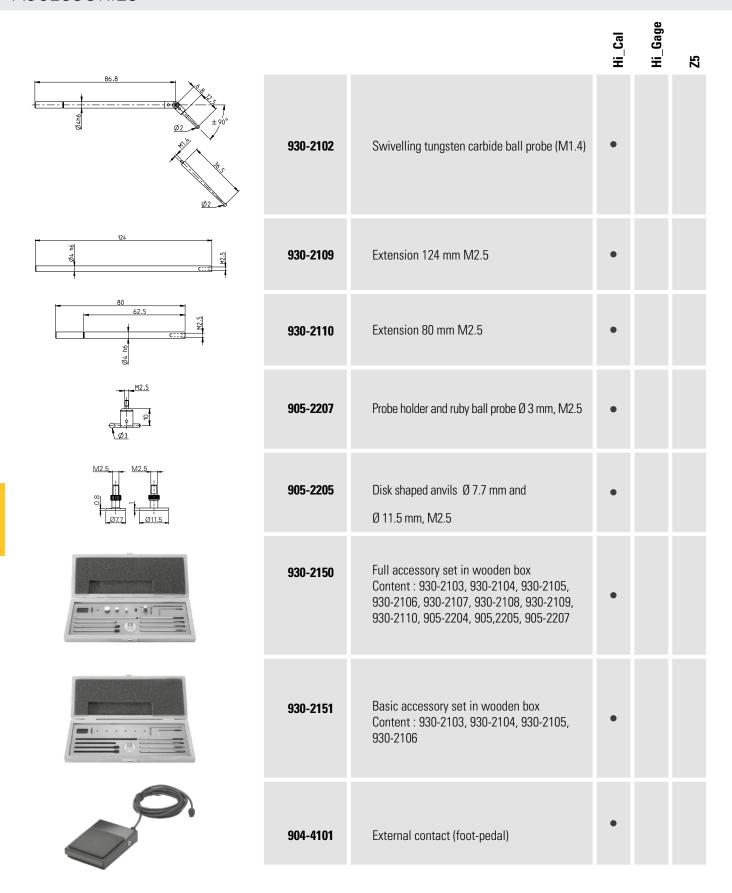
ACCESSORIES







ACCESSORIES







ACCESSORIES

			Hi_Cal	Hi_Gage	Z 2
-	930-2111	Carbon probe-holder 200mm, Ø4mm	•		
	930-2112	Demonstration piece	•	•	•
0	840.9001	Ball probe Ø8mm		•	•
	840.9002	Tracing probe (standard delivery)		•	
	905-2247	Clamping stem		•	
Sylvac Sylvac Sylvac Sylvac Sylvac Sylvac Sylvac	981-7200	Bluetooth® module Z5			•