HEIGHT GAUGE
Hi_Cal & Hi_Gage ONE

Specially developed and optimized for use in production lines, HI_CAL offers a great efficiency thanks to its large screen which can simultaneously display diameters and centerlines.

Its principal advantages consist in its ease of use, reduced dimensions of its base, its great lightness, the compatibility of the accessories with the instruments of the previous generation and the two travel speeds which offer a great comfort during the measurement of small diameters.

Inductive Sylvac system (patented)

Automatic motorized probe (patented)

Data output RS232 – USB

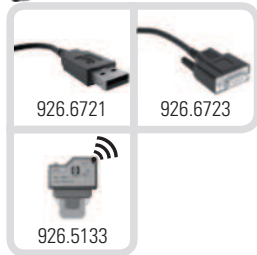**mm/inch conversion**

Height gauge

Hi_Gage ONE

DESCRIPTION

- Intuitive functions
- 400 and 600 mm versions
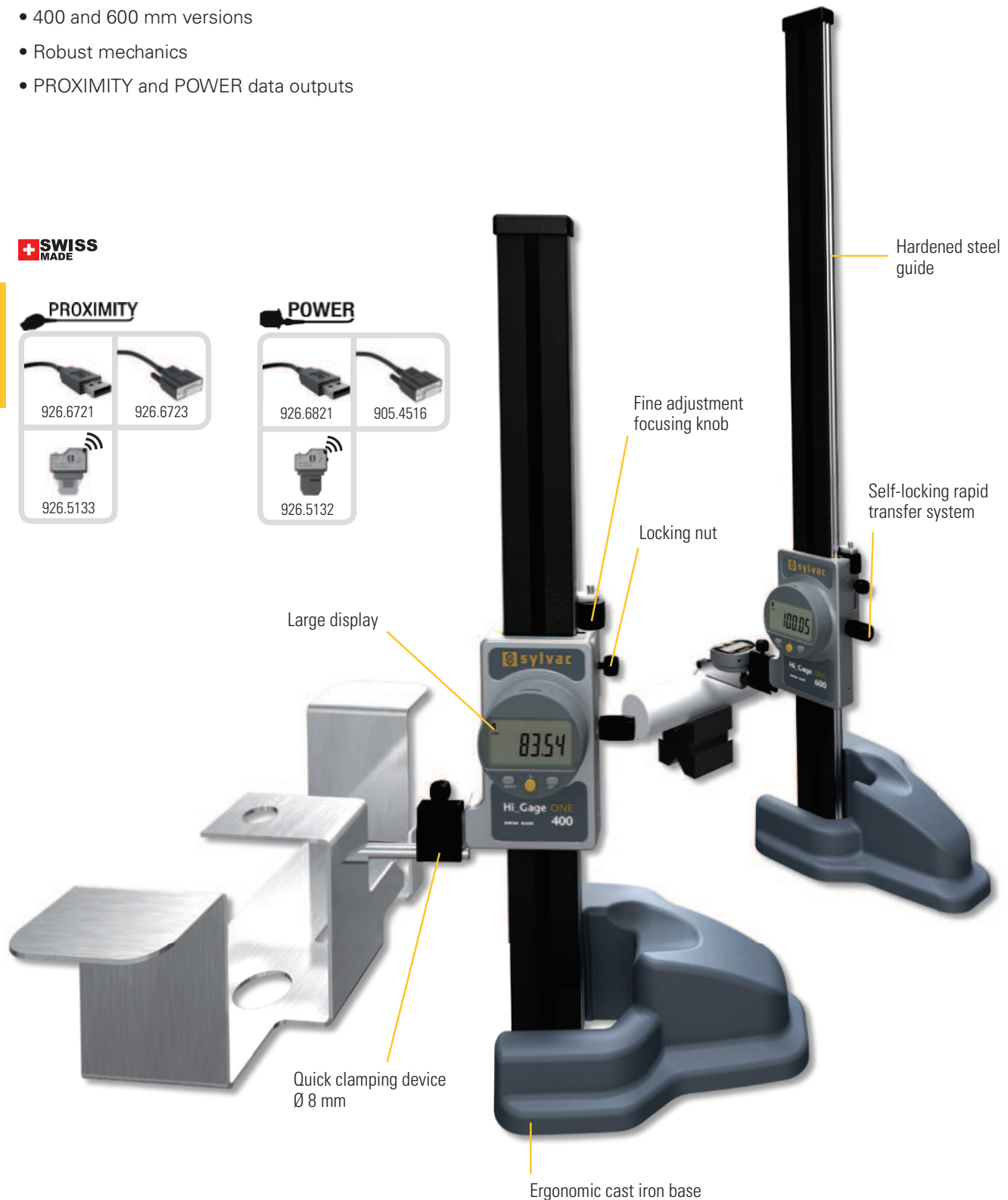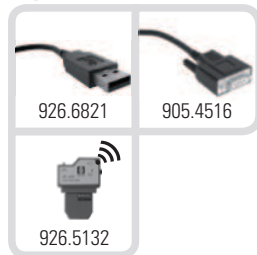- Robust mechanics
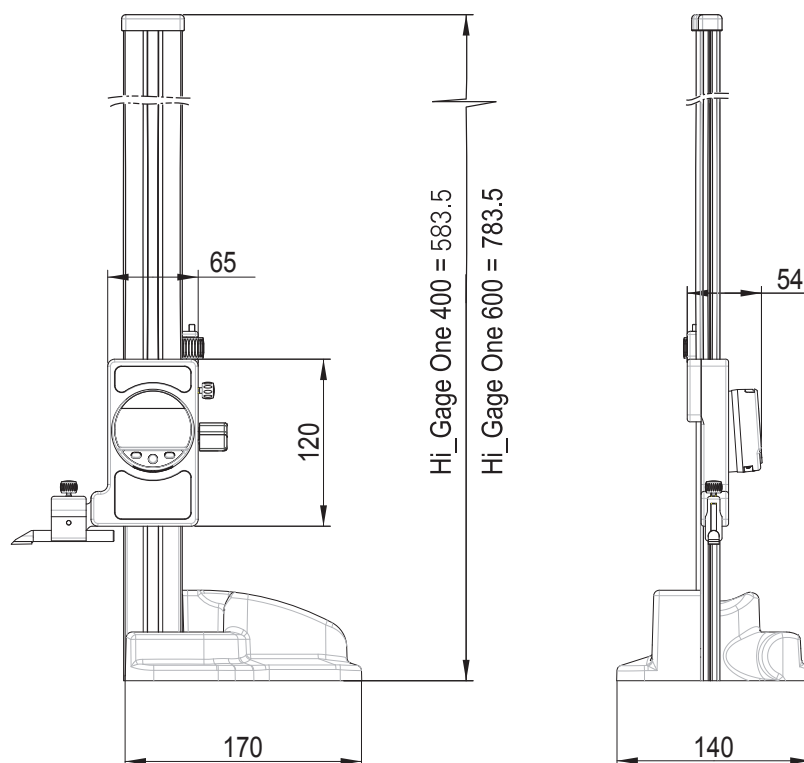- PROXIMITY and POWER data outputs

SWISS MADE

PROXIMITY

926.6721 926.6723

926.5133

POWER

926.6821 905.4516

926.5132

Hardened steel guide

Fine adjustment focusing knob

Self-locking rapid transfer system

Locking nut

Large display

Quick clamping device Ø 8 mm

Ergonomic cast iron base

Height gauge

Hi_Gage ONE

DIMENSIONAL DRAWINGS

65

Hi_Gage One 400 = 583.5

Hi_Gage One 600 = 783.5

120

170

54

140

TECHNICAL SPECIFICATIONS

		840.0400	840.0600
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)		●	
S_Connect : Proximity & Power		USB / RS232 / Wireless	

[1] ± 1 digit

ACCESSORIES

	Description
840.9001	Ball probe Ø8 mm
840.9002 [1]	Tracing probe
905.2247	Clamping stem

[1] supplied in standard
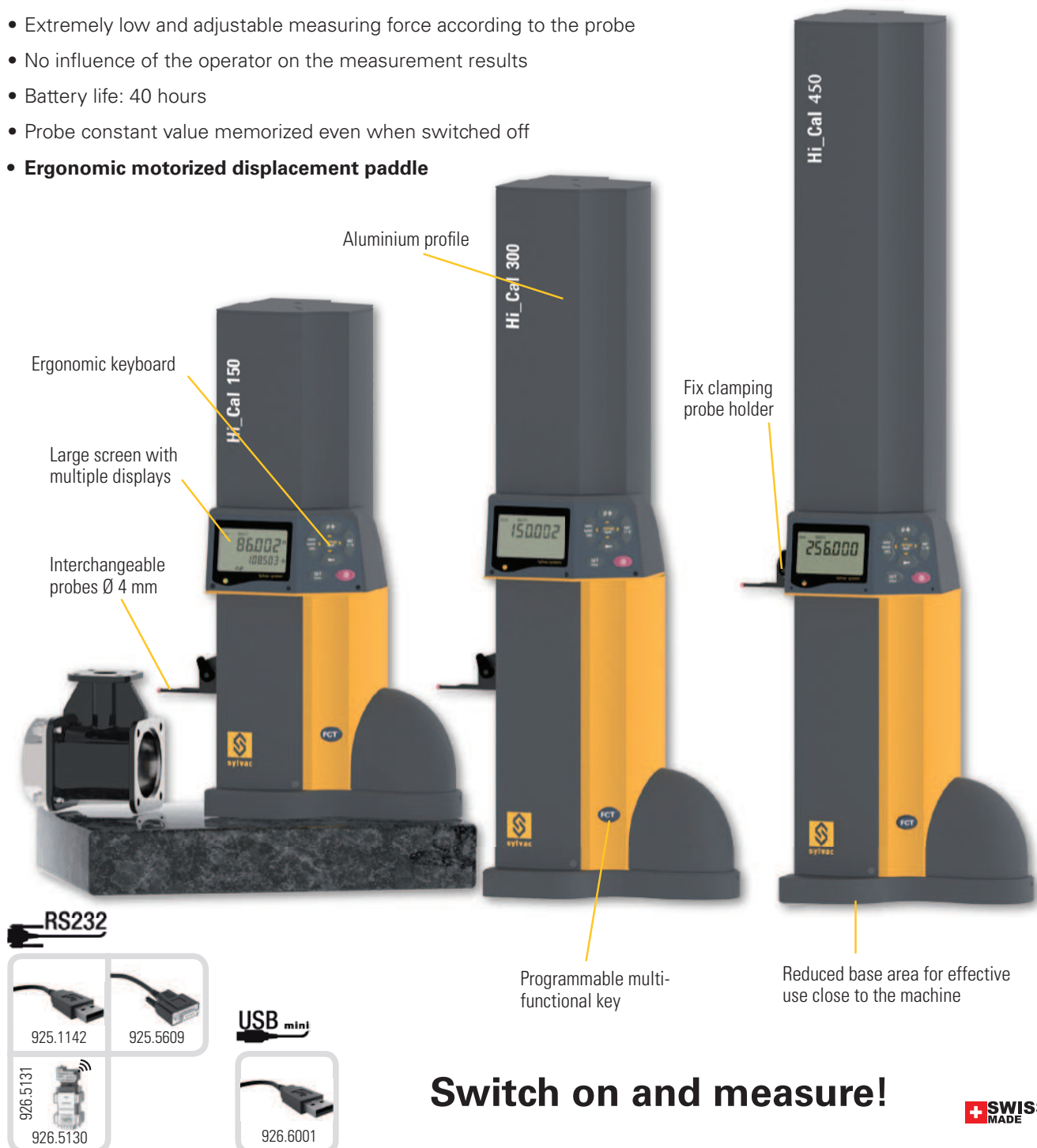

840.9001

840.9002

905.2247

Height gauge

Hi_Cal

DESCRIPTION

- Intuitive functions
- Great mobility
- Measurement of internal and external diameters, centerlines, heights, thicknesses, depths, surfaces
- 150, 300 and 450 mm range
- Data output USB and RS232
- Extremely low and adjustable measuring force according to the probe
- No influence of the operator on the measurement results
- Battery life: 40 hours
- Probe constant value memorized even when switched off
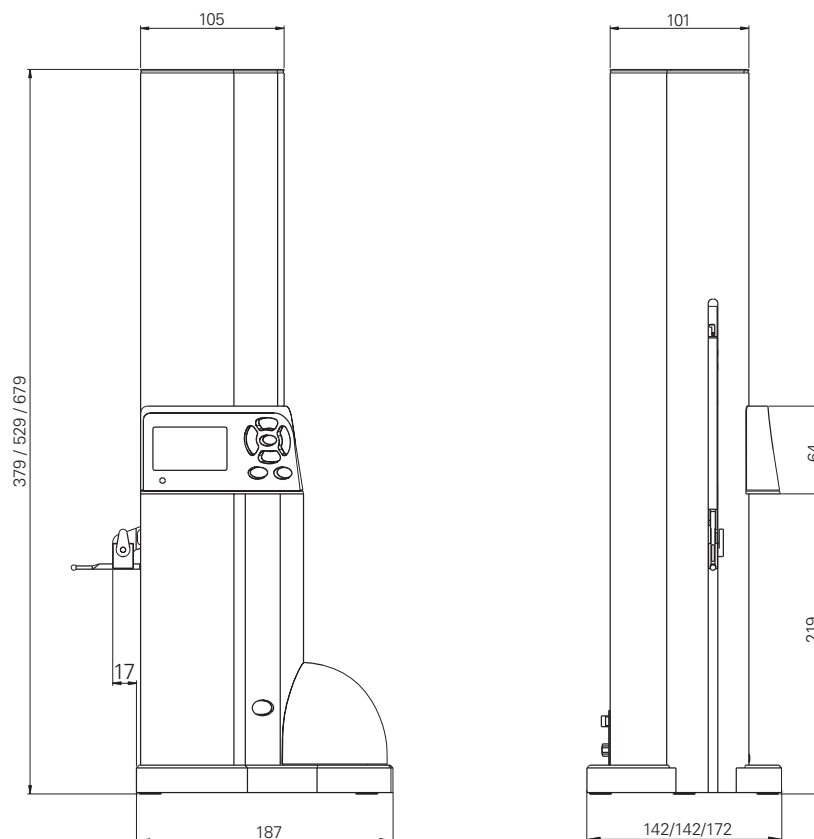- **Ergonomic motorized displacement paddle**

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Hi_Cal 450

Aluminium profile

Hi_Cal 300

Ergonomic keyboard

Hi_Cal 150

Fix clamping probe holder

Large screen with multiple displays

86.002
108503

150.002

256.000

Interchangeable probes Ø 4 mm

RS232

925.1142   925.5609

926.5131

926.5130

USB mini

926.6001

Programmable multi-functional key

Reduced base area for effective use close to the machine

Switch on and measure!

SWISS MADE

Height gauge

Hi_Cal

DIMENSIONAL DRAWINGS

105

379 / 529 / 679

17

187

101

64

219

142/142/172

DISPLAYS

❶ **Measuring unit and actives reference**

❷ **Display of measuring value**

❸ **Active measuring mode**

❹ **Centerline display**

❺ **Dynamic measuring mode**

❻ **Diameter / height measurement**

❼ **Access to setting menu**

❽ **Selection of reference Ref I / Ref II**

❾ **ON / OFF Switch**

❿ **Ball probe constant**

⓫ **Validation / Initialization of min, max mode**

⓬ **Luminous indication of valide measurement**

mm REFI 6.189 166.202 Ø SYLVAC system
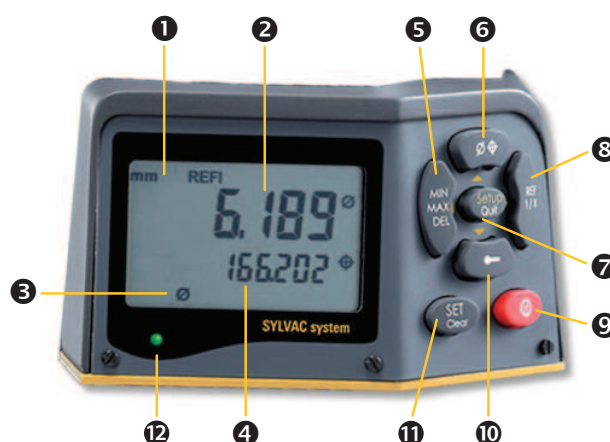
Height gauge

Hi_Cal

TECHNICAL SPECIFICATIONS

		830.0150	830.0300	830.0450
Measuring range	mm	150	300	450
Application range	mm	0 - 155	0 - 320	0 - 470
Max. Error	µm		$2.5 + L / 175$ [1]	
Repeatability	µm		2	
Resolution	mm		0.01 / 0.001	
Velocity	mm/s		50 / 100	
Measuring force	N		0.2 - 0.3	
Self-contained use	h		>40	
Height	mm	379	529	679
Weight	kg	3.9	4.6	6.8
Weight of the standard probe			7.5g, possibility of using 0-15g or 10-25g [2] probes	
S_Connect			USB / mini USB / RS232 [3]	
Programmable by PC			●	
Zero setting			●	
Min / max / delta			●	
PRESET function			●	
2 references			●	
Height measurement, Ø and centerlines			●	
2 types of progressive speed			●	

[1] With standard probe, in laboratory conditions
[2] With adjustement of the measuring force
[3] See cables chapter

BASIC INSTRUMENT

- Loose cover HI_CAL 150 (930.6001)
- Loose cover HI_CAL 300 (930.6002)
- Loose cover HI_CAL 450 (930.6005)
- Charging set (904.4200 [1] /01/03/04/05)
- Ruby ball probe Ø 3 mm
- Setting gauge
- Calibration certificate
- Instruction manual

[1] according to country

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APPLICATIONS
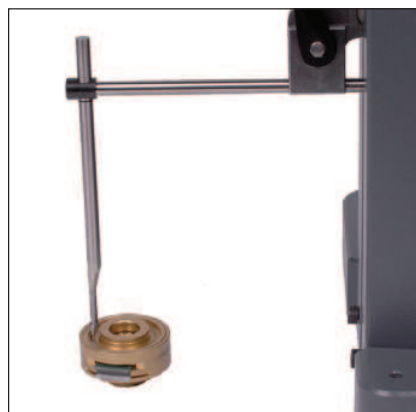
Depth measurement with accessories
930.2108 and 930.2105

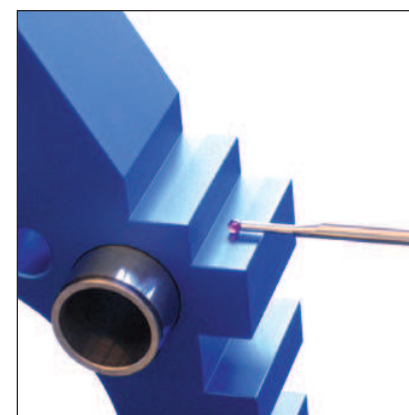Depth measurement with accessories
930.2108 and 905.2204

Internal measurement with ruby ball probe
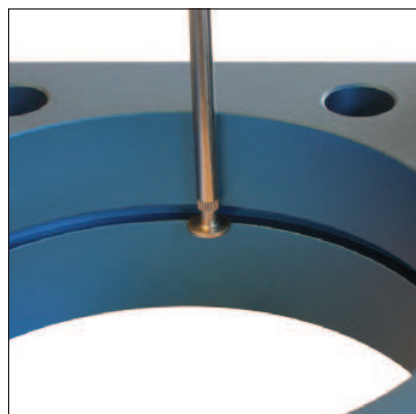Ø 3 mm, 930.2101 (standard)

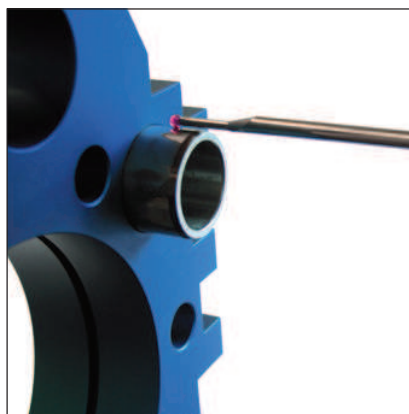Internal groove measurement with accessories 930.2108, 930.2110 and 905.2207

Taking the probe constant value with the setting bloc 930.2002 (standard)
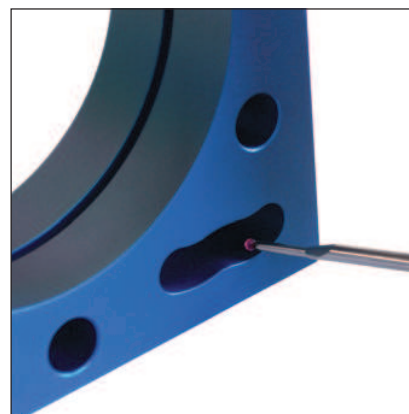

Heights and thicknesses measurements with the standard probe 930.2101

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

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ACCESSORIES

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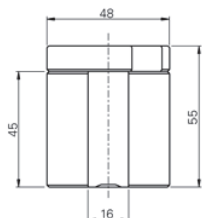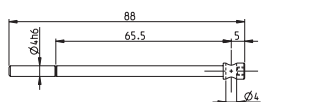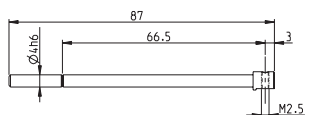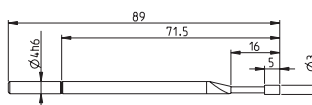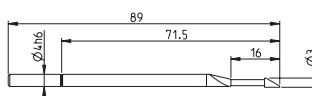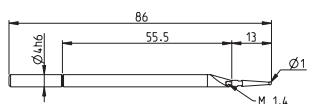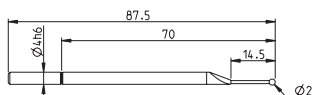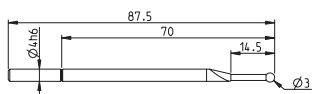
930.2101	Ruby ball probe Ø 3 mm
930.2103	Ruby ball probe Ø 2 mm
930.2104	Tungsten carbide ball probe Ø 1 mm
930.2105	Knife-edged measuring probe TC Ø 3 mm
930.2106	Cylindrical measuring probe TC Ø 3 mm
930.2107	Probe holder 90° M2.5
930.2108	Probe holder 90° Ø 4 mm
930.2002	Setting gauge
904.4200	Charging set 100-240V / 9V
904.4205	EUR cable, included in 904.4000 (CH - 904.4201)
904.4204	UK cable, included in 904.4000
904.4203	USA/JPN cable, included in 904.4000

ACCESSORIES
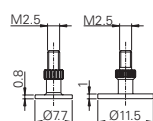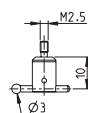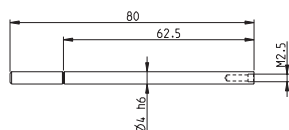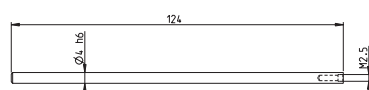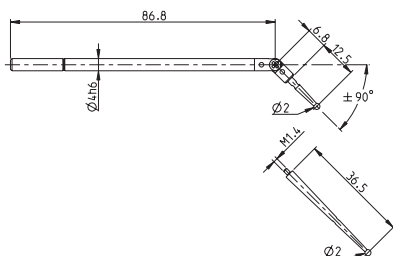
930.2102	Swivelling tungsten carbide ball probe (M1.4)
930.2109	Extension 124 mm M2.5
930.2110	Extension 80 mm M2.5
905.2207	Probe holder and ruby ball probe Ø 3 mm, M2.5
905.2205	Disk shaped anvils Ø 7.7 mm and Ø 11.5 mm, M2.5
930.2150	Full accessory set in wooden box Content : 930.2103, 930.2104, 930.2105, 930.2106, 930.2107, 930.2108, 930.2109, 930.2110, 905.2204, 905,2205, 905.2207
930.2151	Basic accessory set in wooden box Content : 930.2103, 930.2104, 930.2105, 930.2106
904.4101	External contact (foot-pedal)

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ACCESSORIES

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	930.2111	Carbon probe-holder 200mm, Ø4mm
	930.2112	Demonstration piece