

MEASURING BENCH PS15/16/17

Welcome to our small world!

Miniaturization of manufactured goods generates challenges for the control of smaller and smaller components with high requirements on accuracy. Conventional measuring instruments and even latest optical and non-contact equipment sometimes do not allow achieving the expected results. Sylvac has a long experience of all these particular applications, acquired in contact of our very demanding Swiss watchmaker's customers.

Our PS bench table series was designed to meet high expectations and to offer solutions even when it seems to be impossible! Whether internal or external measurement of small dimensions, Sylvac is ready for the challenge; If our wide selection of instruments, tables, anvils and accessories is not sufficient, we will design and manufacture the measuring solution according to your needs.

Hundreds of users around the world cannot work without our measuring bench tables PS. Let us be your partner for the measurement of small components.

Integrated digital display or values displayed on an external display unit.

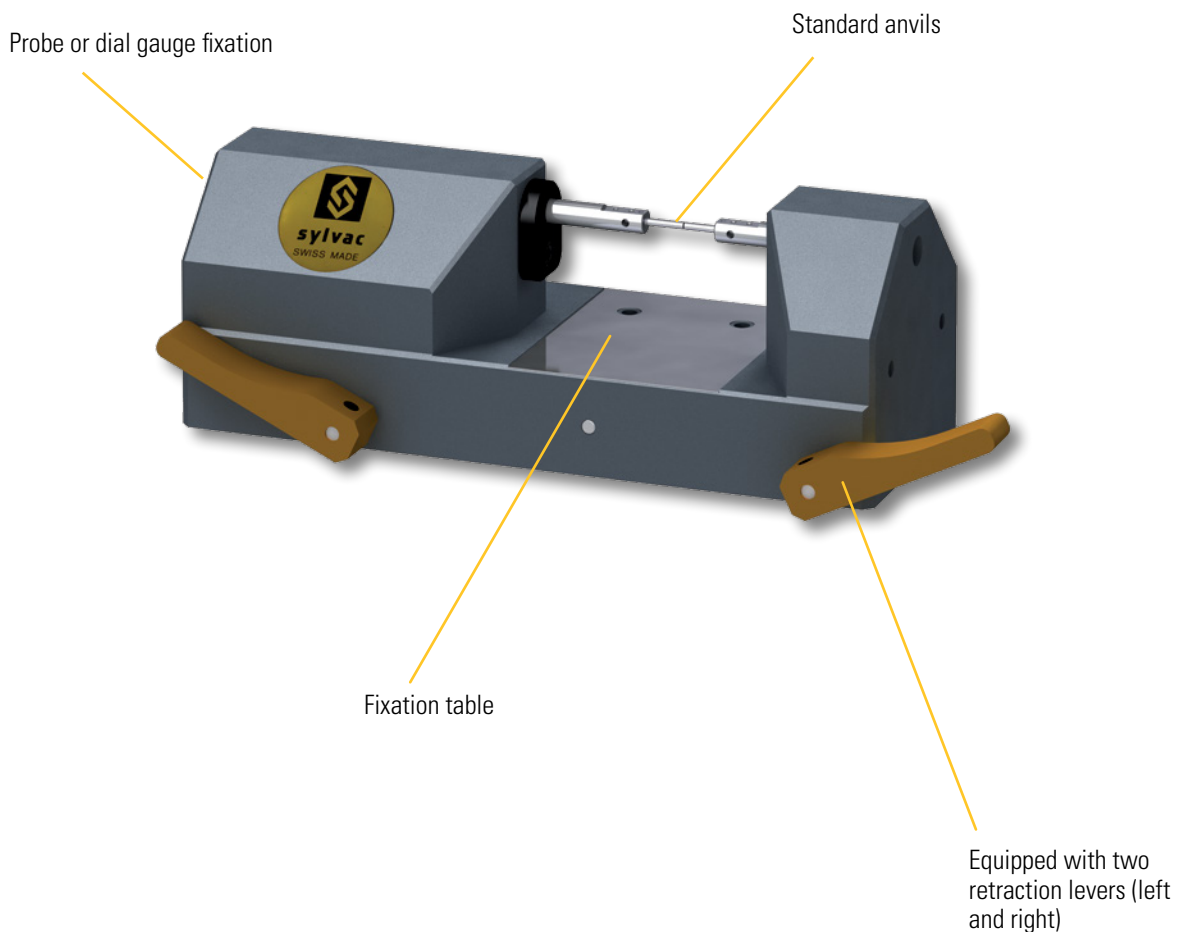
Large selection of anvils, tables and accessories available

Adjustable measuring force



DESCRIPTION

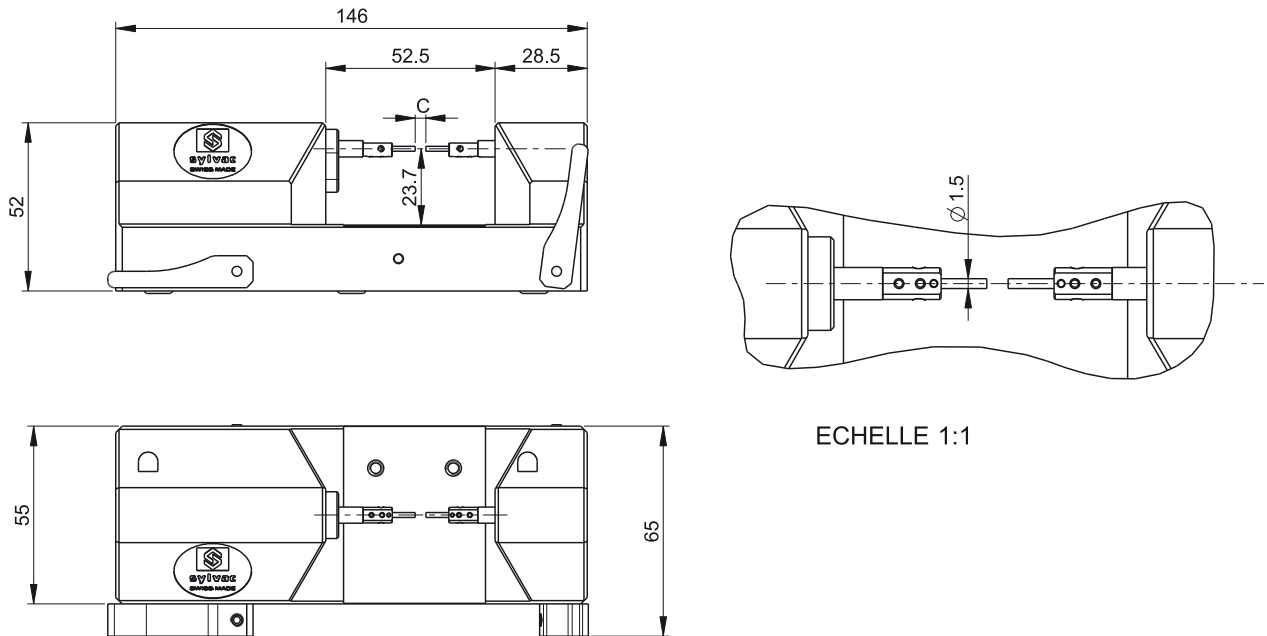
- Small horizontal bench table designed to easily and quickly check small parts up to 10 mm
- **Measuring spindle guided by linear ball bearing**
- The measured value will be displayed either by a Sylvac digital dial gauge range 12.5mm, up to 0.1 μm resolution or by a Sylvac measuring probe P10 (P10L) linked to a digital display unit. Using a pair display unit / measuring probe an overall accuracy of 0.6 μm and a repeatability of 0.2 μm can be reached.
- This bench table can be equipped with different kind of tables as well as with several types of anvils of any shapes
- Standard spindle \varnothing 1.5 mm (908.2175)
- Compatible with Sylvac \varnothing 1.5 mm and Cary type spindle



Bench table

PS15

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		808.1215
Type		PS15BH
Max. Capacity C	mm	20
Measuring range	mm	10
Adjustable measuring force	N	0.3 - 1.0
Max. error	µm	Probe P10 : 0.6µm / Dial gauge S_Dial : 1.6 - 3µm
Weight	kg	1.8
Measuring direction		Horizontal
Anvils fixation		Ø 1.5 mm
Cary Compatibility		•

BASIC INSTRUMENT

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Ø 1.5 mm (908.2175)
- Allen keys 2 and 2.5 mm
- Dust cover

DESCRIPTION

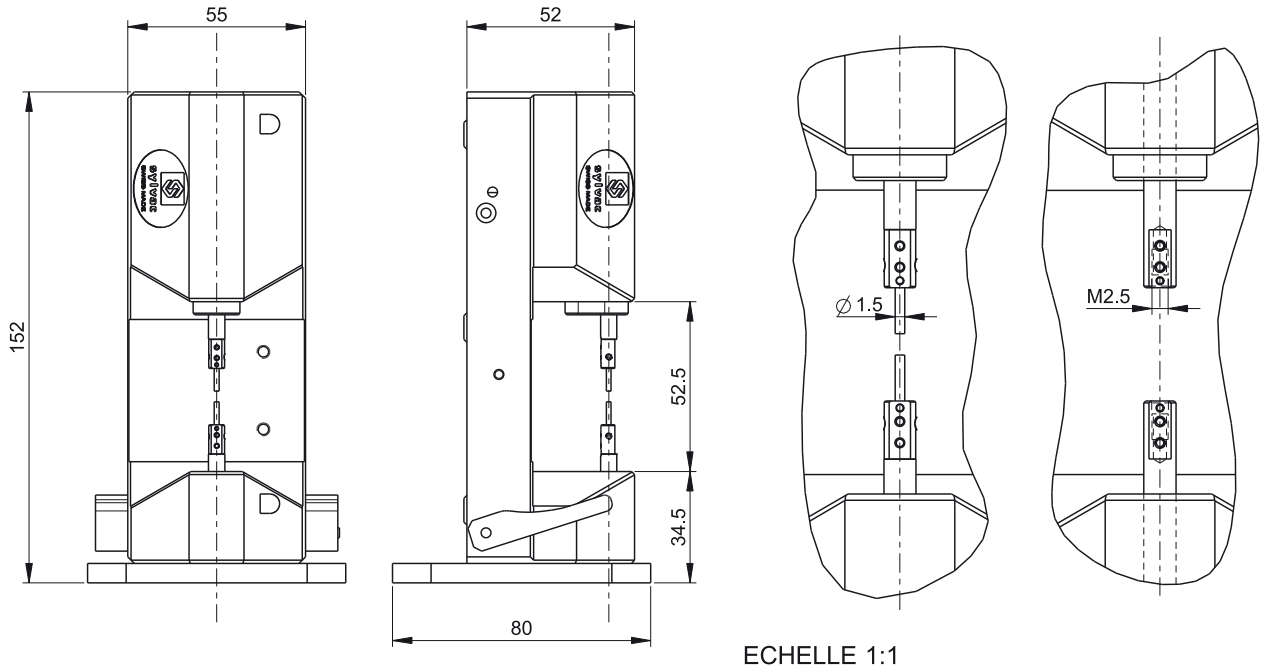
- Small vertical bench table designed to easily and quickly check small parts up to 20 mm
- **Measuring spindle guided by linear ball bearing**
- The measured value will be displayed either by a Sylvac digital dial gauge range 12.5mm, up to 0.0001mm resolution or by a Sylvac measuring probe P10 (P10L) linked to a digital display unit. Using a pair display unit / measuring probe an overall accuracy of 0.6 μm and a repeatability of 0.2 μm can be reached.
- This bench table can be equipped with different kind of tables XYZ as well as with several types of anvils of any shapes



Bench table

PS15

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		808.1216	808.1218
Type		PS15BV	PS15BV +
Measuring scale	mm	10	10
Adjustable measuring force	N	0.3 - 1.0	0.3 - 1.0
Max. error	µm	Probe P10 : 0.6µm / Dial gauge S_Dial : 1.6 - 3µm	
Weight	kg	1.8	1.8
Measuring direction		Vertical	Vertical
Anvils fixation		M2.5	Ø 1.5 mm
Cary Compatibility		•	•

BASIC INSTRUMENT

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Ø 1.5 mm or Ø 5 mm (depending on model)
- Allen keys 2 and 2.5 mm
- Dust cover

Bench table

PS15

TABLES, PLATES AND LAPPING



N°	Designation	PS15BH	PS15BV / BV+
908.2170	Supporting table adjustable in XYZ	•	
908.2160	Supporting table with fine adjustment XYZ	•	
908.2161	Supporting table with fine adjustment Z	•	
908.2166	Floating table	•	
908.2172	Rotating table with 25 bores		•
908.2165	Plain table only		•
908.2162	Cylindrical plate with 25 bores from 0.2 to 5 mm		•

ACCESSORIES



N°	Designation	PS15BH	PS15BV / BV+
908.2198	Replacement lapping stone for 908.2199	•	
908.2199	Lapping device (3 stones and lapping liquid included)	•	

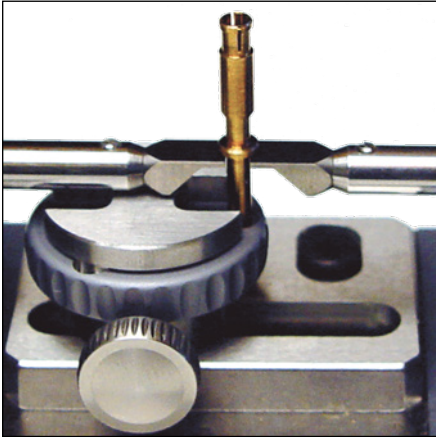
ANVILS

Compatible anvils list at the end of this chapter.

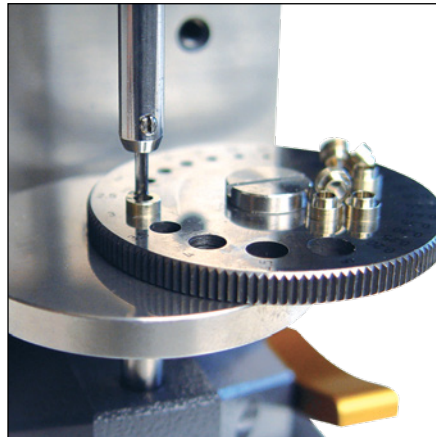
Bench table

PS15

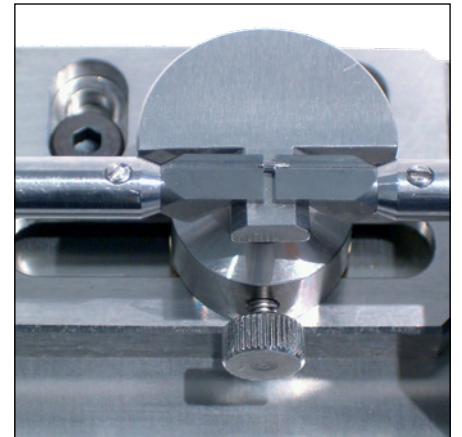
APPLICATIONS



XYZ table with plate with fine adjustment.



Measurement of small parts with PS15V+and rotation 25 holes support



Special anvils

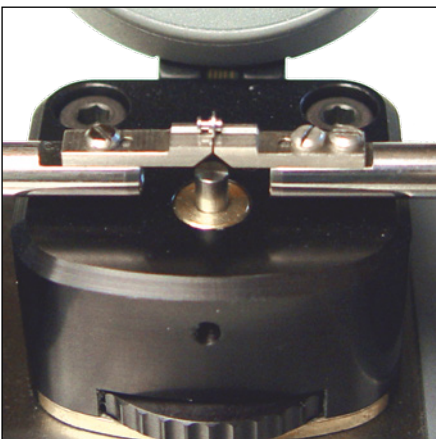
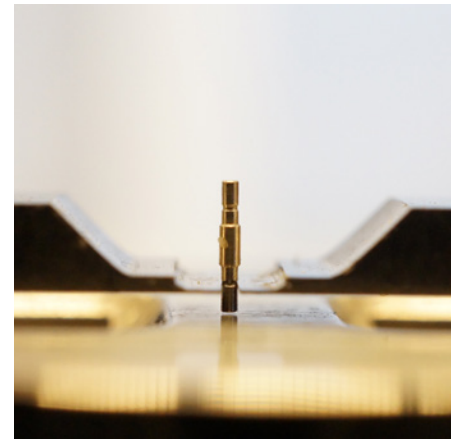


Table with plate \varnothing 3 mm and fine adjustment. Indication of the height integrated.



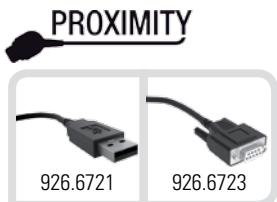
Multi-functional measuring station



Gear measuring anvils. On request

DESCRIPTION

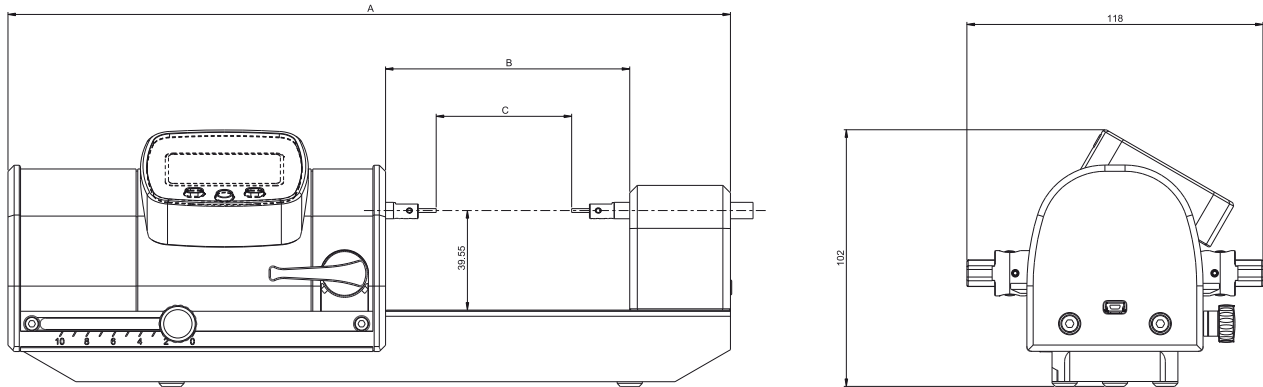
- **Integrated Bluetooth® technology**
- Brand new design with integrated display resolution 0.1µm
- The bench tables PS16 V2 are designed to check dimensions up to 50 mm
- These bench tables can be equipped with different kind of tables to fit your needs as well as with several types of anvils of any shapes
- A ball bearing, as well as many other features and accessories make these tables a must for your workshop or your inspection room
- Adjustable measuring force
- Led tolerances status
- Data output USB, Proximity or Bluetooth®
- Standard measuring anvils Ø 1.5 mm



Bench table

PS16 V2

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

External and internal measurement		808.1231	808.1232
Max. Capacity C	mm	25	50
Max. Error	µm	1.5	2.0
Repeatability	µm	0.2	0.2
Resolution	µm	0.1	0.1
Measuring force (Adjustable)	N	0.1 - 0.6 ¹⁾	
Weight	kg	3.6	4.2
Anvils clamping dimension	mm	Ø 1.5	
Cary compatibility		●	
A	mm	232	287
B	mm	66	97

¹⁾ ± 20%

BASIC INSTRUMENT

- Instrument according to technical specifications
- Instruction manual
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Calibration certificate
- Table not included
- Anvils Ø 1.5mm (908.2175)
- Dust cover

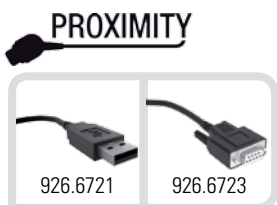
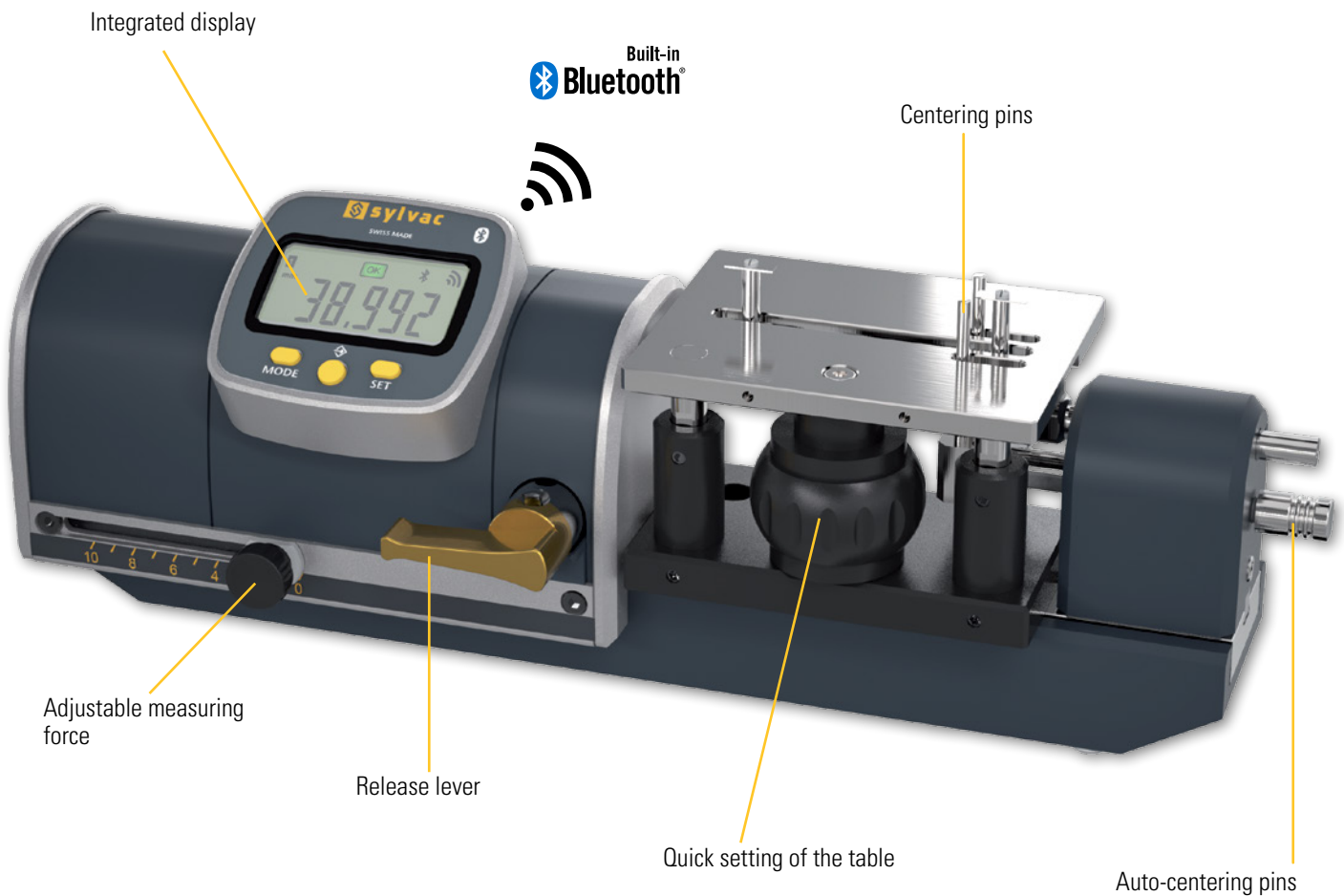
F

Bench table

PS16 V2 LV

DESCRIPTION

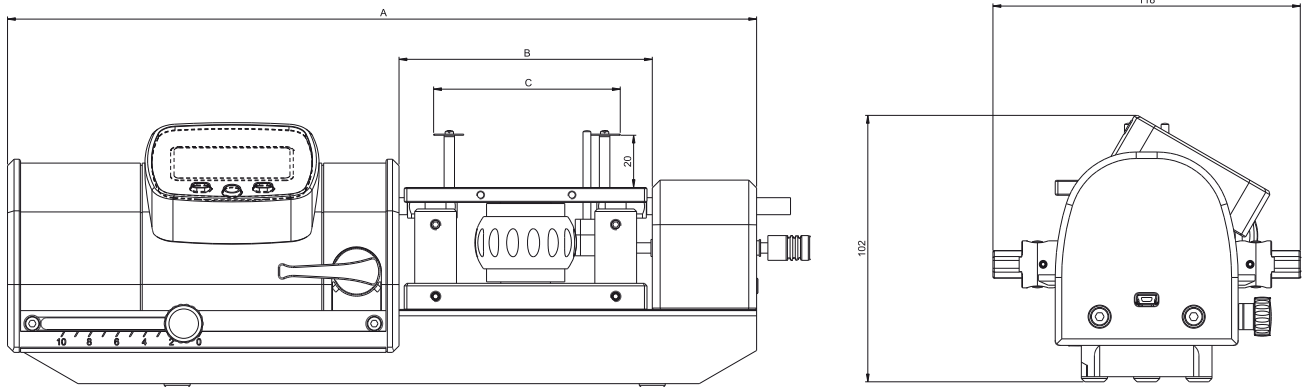
- LV version are designed to check internal dimensions up to 70 mm (depends on model)
- **Integrated Bluetooth® technology**
- Brand new design with integrated display resolution 0.1µm
- 2 points measurement with centering pins
- Table height adjustable up to 20mm
- Adjustable measuring force
- Led tolerances status
- Data output USB, Proximity or Bluetooth®
- Standard measuring anvils 0.4 mm



Bench table

PS16 V2 LV

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

Internal measurement		808.1233	808.1234
Max. Capacity C	mm	Ø 12 - 62	Ø 24 - 70
Max. Error	µm	6.0	6.0
Repeatability	µm	1.5	1.5
Resolution	µm	0.1	0.1
Measuring force (Adjustable)	N	0.1 - 0.6 ¹⁾	
Weight	kg	5.1	5.1
Anvils clamping dimension	mm	Ø 1.5	

¹⁾ ± 20%

BASIC INSTRUMENT

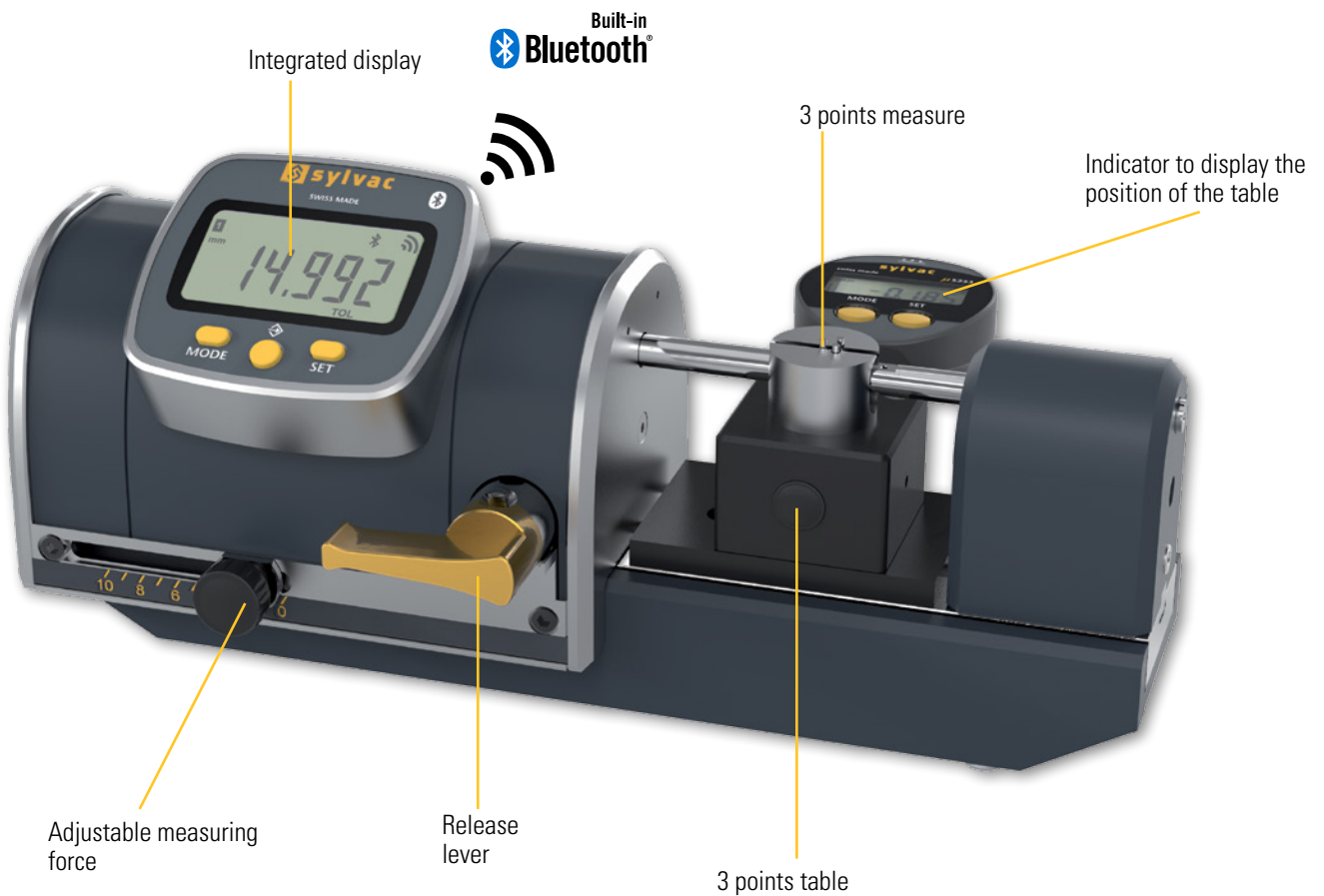
- Instrument according to technical specifications
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Instruction manual
- Calibration certificate
- Anvils 0.4mm and LVS table included
- Dust cover

Bench table

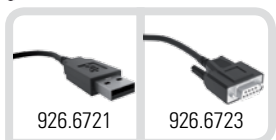
PS16 V2 3-Points

DESCRIPTION

- 3 points version are designed to check internal dimensions of 0.8mm up to 12.5mm
- **Integrated Bluetooth® technology**
- Customized version based on the components to measure available on request (provide drawing)
- 3-points measurement with exact calculation of the diameter by electric function
- Calibration with two setting rings corresponding to the diameters MIN and MAX of the measuring range
- Table with fine adjustment in Z axis (height), position adjustable on 0-3 mm wit indicator.
- Adjustable measuring force
- Led tolerances status
- Data output USB, Proximity or Bluetooth®
- Set including: bench table PS16VP25 with integrated probe, table, anvils and 2 setting rings



PROXIMITY



mini-USB

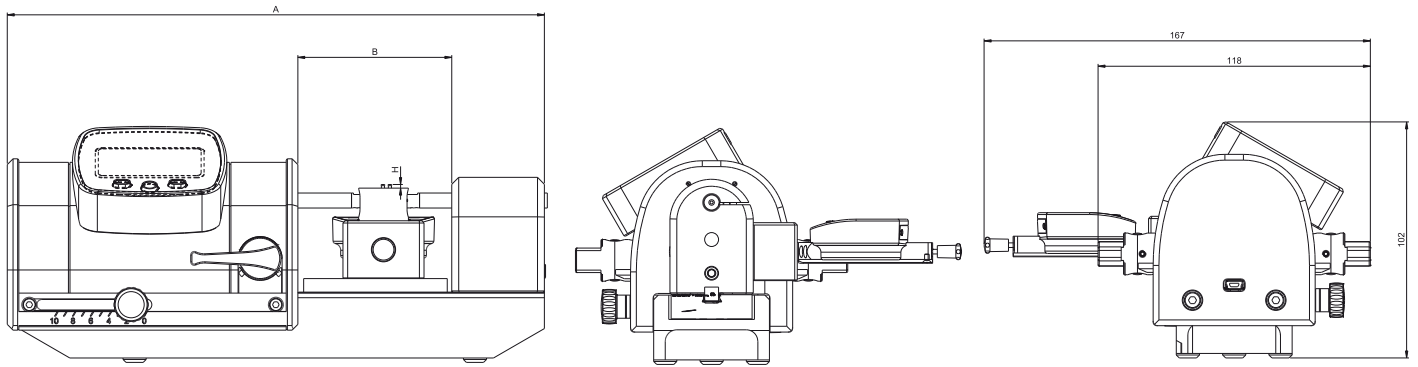


F

Bench table

PS16 V2 3-Points

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

External and internal measurement		808.1335	808.1336	808.1337	808.1338	808.1339
Max. Capacity C	mm	Ø0.8-1.3	Ø1.3-2.5	Ø2.5-4.0	Ø4.0-8.0	Ø8.0-12.5
Max. Error	µm	1.5				
Repeatability	µm	0.2				
Resolution	µm	0.1				
Measuring force (Adjustable)	N	0.1 - 0.6 ¹⁾				
Weight	kg	4.1				
Anvils clamping dimension	mm	Ø1.5				
A	mm	232				
B	mm	60				

¹⁾ ± 20%

BASIC INSTRUMENT

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Instruction manual
- Calibration certificate
- Table and anvils according to technical specification
- Mini indicator and 2 setting rings included
- Dust cover

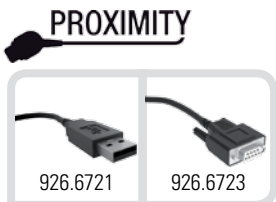
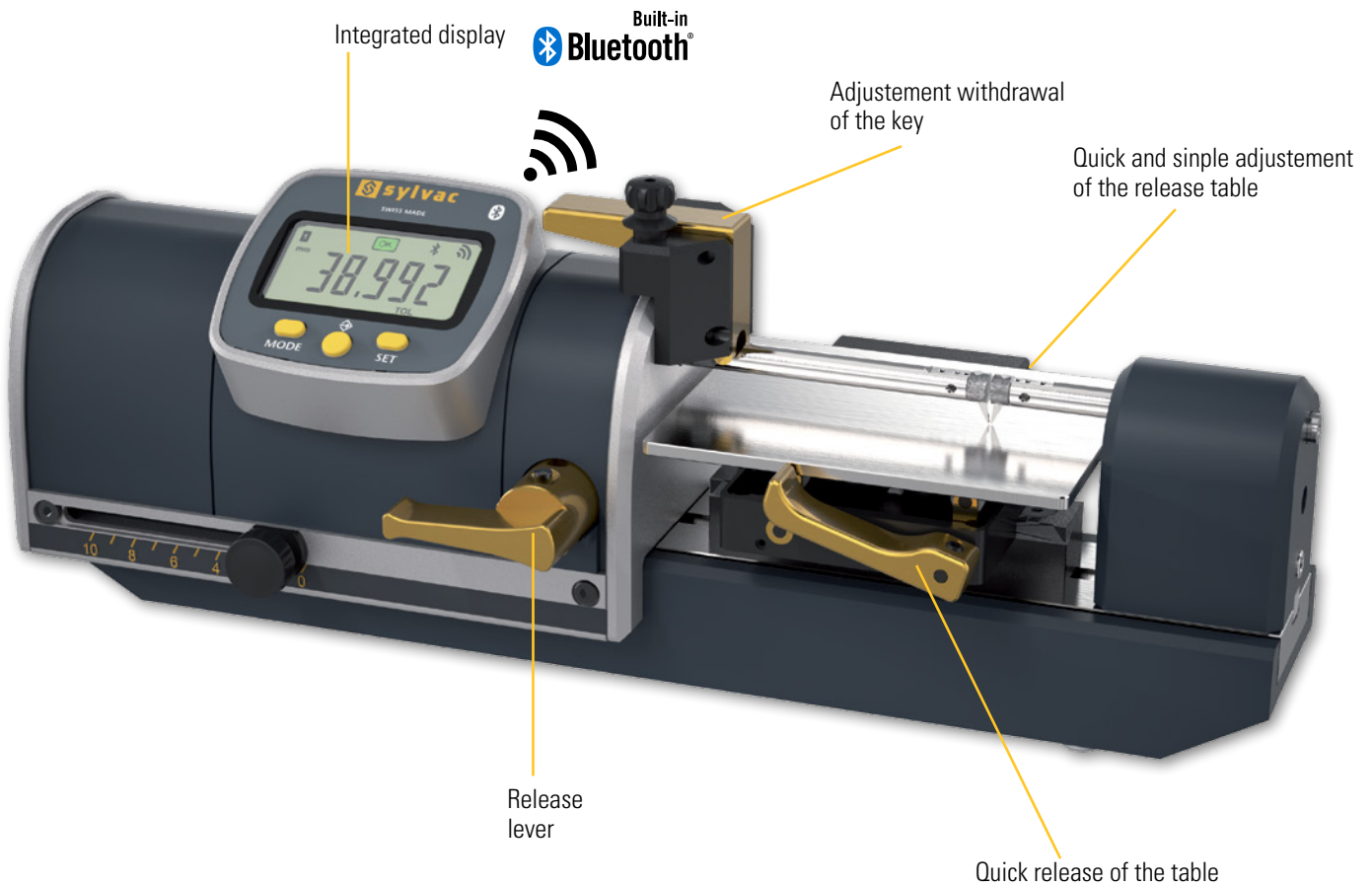
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Bench table

PS16 V2 Goutte

DESCRIPTION

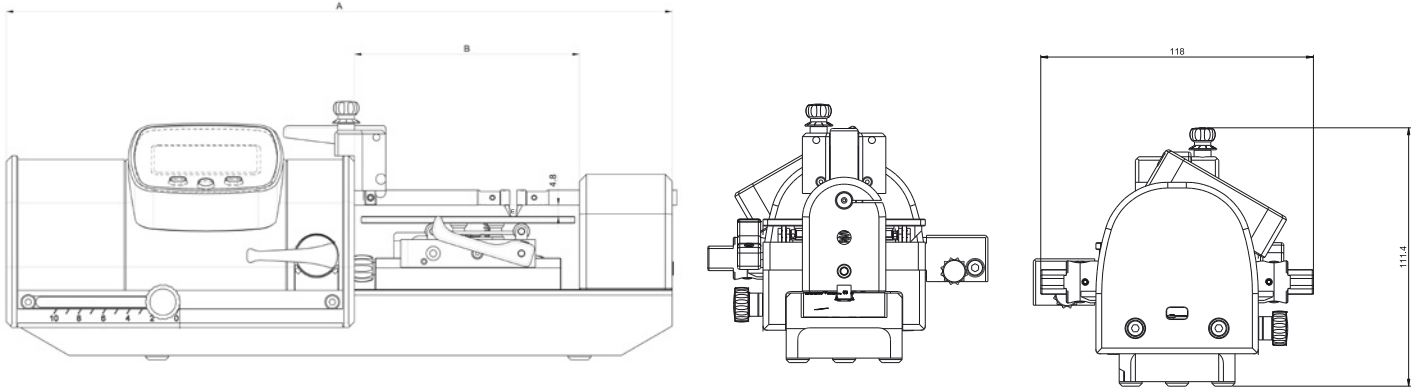
- Goutte version designed to measure small pivot on watch plates (gouttes) or on parts requiring an important clearance to load the components on the table
- **Integrated Bluetooth® technology**
- Adjustable and retractable table with a lever allowing to place and bring the piece in measuring position
- Quick and simple adjustment of the release table and the withdrawal of the key
- Customized anvils manufactured based on the components to measure available on request (provide drawing)
- Adjustable measuring force
- Led tolerances status
- Data output USB, Proximity or Bluetooth®
- Set including: bench table, special table and anvils



Bench table

PS16 V2 Goutte

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

External measurement		808.5213	808.5413
Max. Capacity C	mm	25	50
Quick clearance	mm	7	7
Measuring range E	mm	3	3
Resolution	µm	0.1	0.1
Max. Error	µm	2.5	3.5
Repeatability	µm	0.5	0.5
Table dimensions (lxL)	mm	58x70	92x70
Measuring force (Adjustable)	N	0.1 - 0.6 ¹⁾	
Weight	kg	4.0	4.7
A	mm	232	287
B	mm	66	97

¹⁾ ± 20%

BASIC INSTRUMENT

- Instrument according to technical specifications
- Lithium battery CR2477 included
- Adapter for Lithium battery CR2032
- Instruction manual
- Calibration certificate
- Table and anvils according to specification
- Dust cover

F

Bench table

PS16 V2

TABLES, PLATES AND LAPPING



N°	Designation	PS16 V2 25	PS16 V2 50	PS16 V2 LV	3 points	Goutte
808.2190	Supporting table XYZ	•	•			
808.2302	Supporting table adjustable XZ	•	•			

ACCESSORIES

F



N°	Designation	PS16 V2 25	PS16 V2 50	PS16 V2 LV	3 points	Goutte
908.2194	Dial gauge holder (display height / depth)			•		
908.2198	Replacement lapping stone for 908.2199	•	•			•
908.2199	Lapping device (3 stones and lapping liquid included)	•	•			•

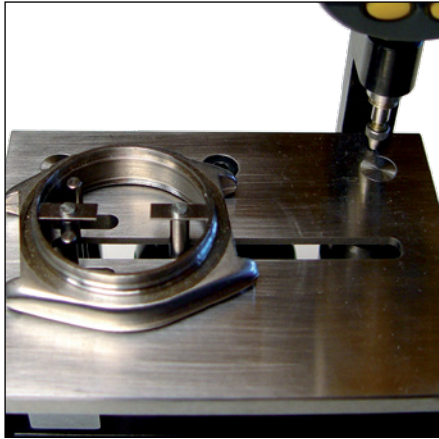
ANVILS

Compatible anvils list at the end of this chapter.

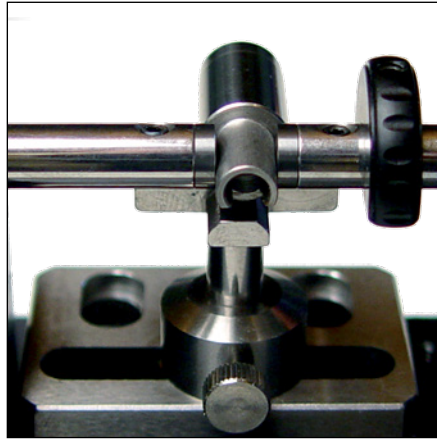
Bench table

PS16 V2

APPLICATIONS



Internal measurement in 2 – points with auto-centering of the part on LVS 50



External measurement with anvils \varnothing 6.5 and XYZ table

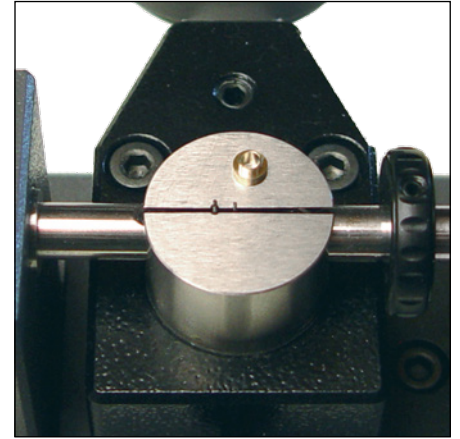


Table and anvils for internal measurement in 3 - points 1.3 - 2.5 mm

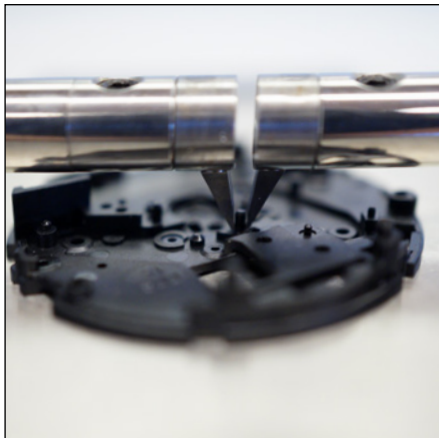
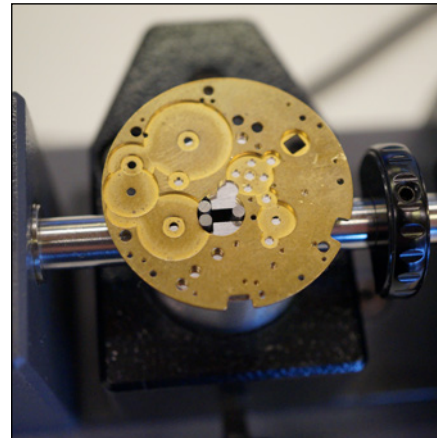


Table with adjustable plate (height). Different \varnothing plates available



3 – points internal measurement

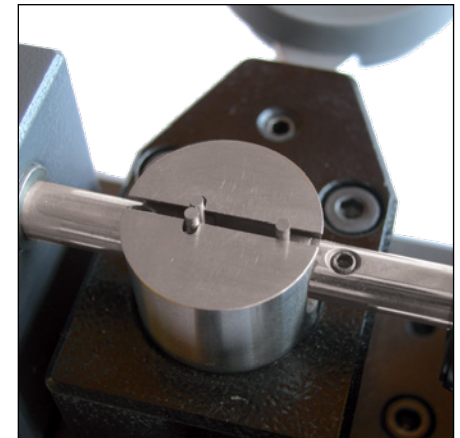


Table and anvils for internal measurement in 3 - points 2.5 - 4 mm

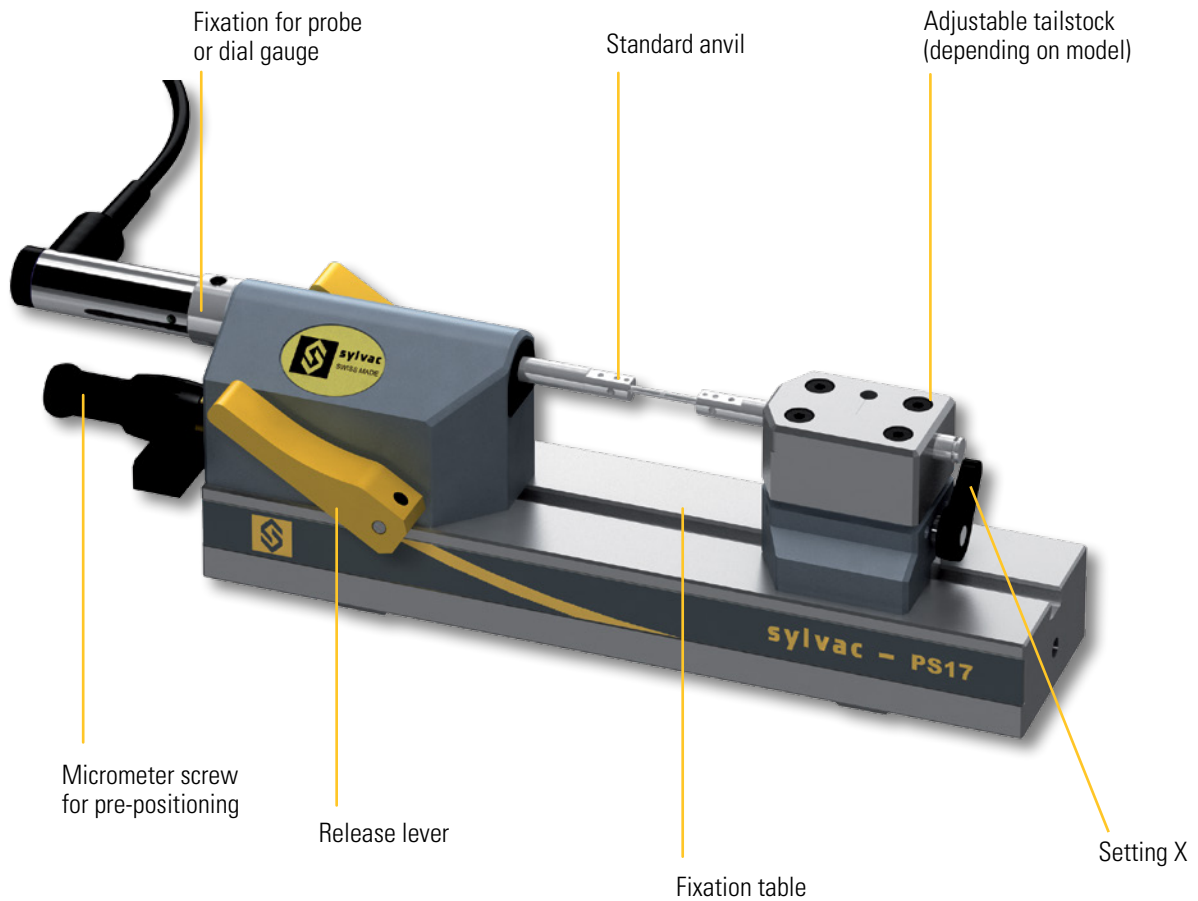
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Bench table

PS17 VS/VP

DESCRIPTION

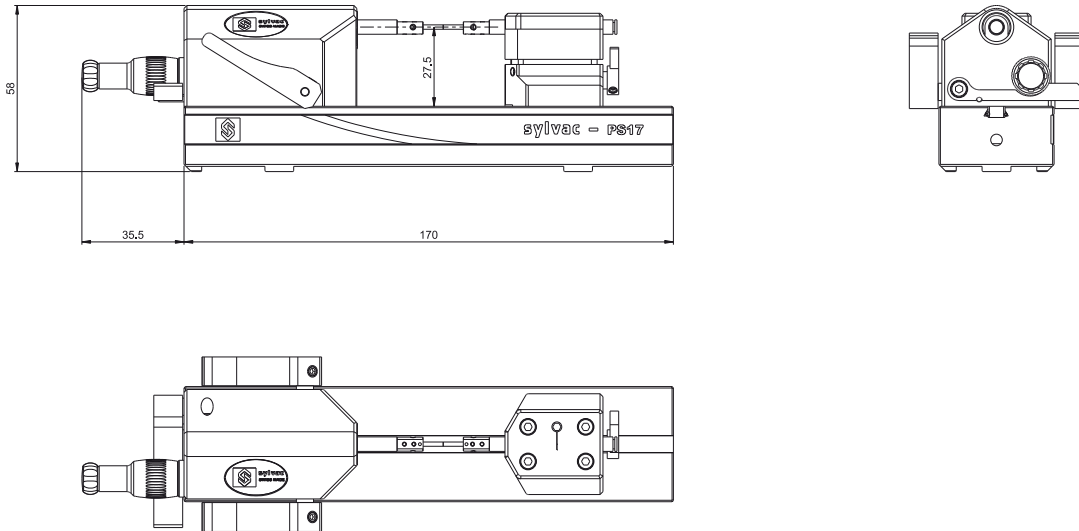
- Measuring bench with great flexibility of use for external dimensions
- Tailstock adjustable in X axis (and in Z, depends on model)
- Accurate micrometer screw for pre-positioning
- Compatibility with Sylvac anvils (Ø1.5mm) and Cary type anvils
- Several accessories available
- 2 models : Integrated P10 capacitive probe (VP) or free use with indicator (VS)



Bench table

PS17 VS/VP

DIMENSIONAL DRAWING



TECHNICAL SPECIFICATIONS

		908.1240	908.1241	908.1242	908.1243
Type		VS ¹⁾	VP ¹⁾	VS ¹⁾	VP ¹⁾
Measuring system		Dial gauge ²⁾	Probe 10 mm	Dial gauge ²⁾	Probe 10 mm
Tailstock adjustable in Z ± 1.75 mm				•	•
Measurement capacity C	mm	37			
Measuring scale	mm	10			
Adjustable measuring force	N	0.2 - 1.0			
Weight	kg	1.4	1.5	1.4	1.5
Clamping anvils $\varnothing 1.5$ mm				•	
Compatibility with Cary				•	
Micrometer screw				•	

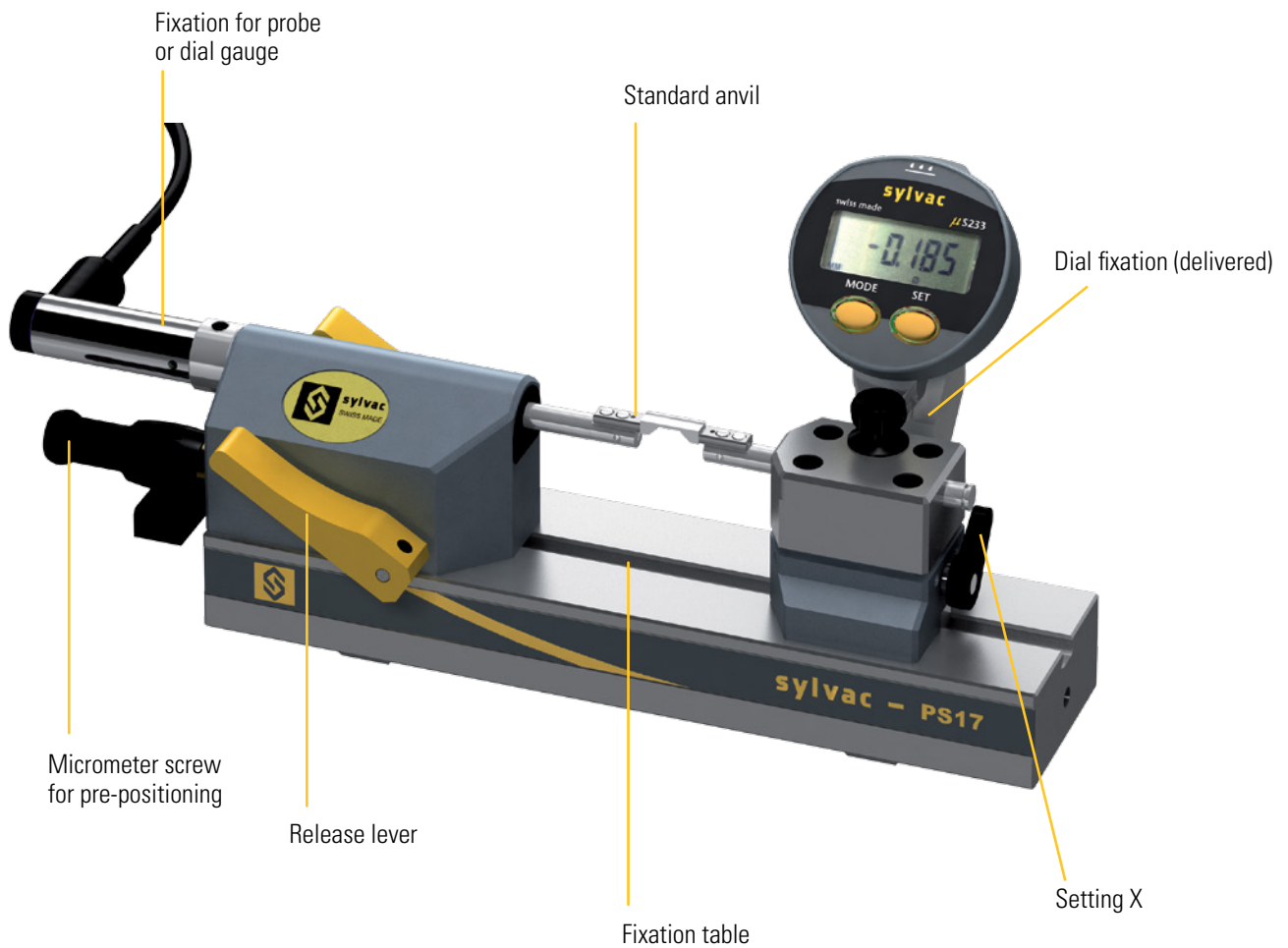
BASIC INSTRUMENT

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils $\varnothing 1.5$ mm (908.2175)
- Calibration certificate for VP
- Dust cover

F

DESCRIPTION

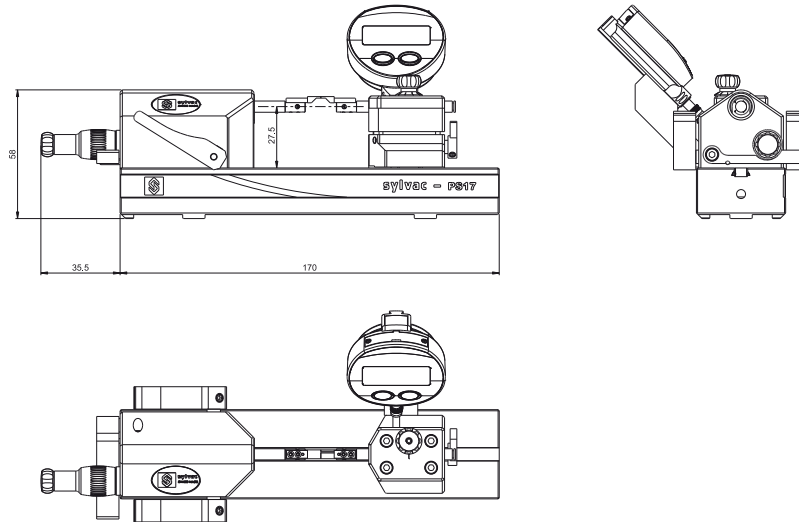
- Measuring bench with great flexibility of use for external dimensions
- Tailstock adjustable in X axis and in Z
- Mini indicator to display the position in Z axis (height) of the tailstock
- Delivered with carbide anvils 0.7mm with 90°V for the measure of distance width
- Accurate micrometer screw for pre-positioning
- Compatibility with Sylvac anvils (Ø1.5mm) and Cary type anvils
- Several accessories available
- 2 models : integrated P10 capacitive probe (VP) or Ø 8mm bore to locate any other measuring devices (VS)



Bench table

PS17 Entre-portée

DIMENSIONAL DRAWINGS



TECHNICAL SPECIFICATIONS

		908.1245	908.1244
Type		VP	VS
Measuring system		Probe 10 mm	Dial gauge ¹⁾
Tailstock adjustable in Z	±1.75 mm		•
Measurement capacity C	mm		0 - 37
Measurement scale	mm		0 - 10
Measurement force	N		1
Working temperature (storage)	°C		5 - 40 (-10 - 60)
Weight	kg		1.4
Cary Compatibility			•
Micrometer screw			•

¹⁾ No-included on delivery

BASIC INSTRUMENT

- Instrument according to technical specifications
- Instruction manual
- Measuring anvils Cary 0.7mm with V_é (908.2220)
- Calibration certificate for VP
- Mini digital indicator
- Dust cover

F

Bench table

PS17

TABLES, PLATES AND LAPPING



N°	Designation	PS17 VS / VP
908.2290	Supporting table adjustable XYZ	•
908.2301	Supporting table adjustable XZ	•
908.2296	Floating table	•

ACCESSORIES

F



N°	Designation	PS17 VS / VP
908.2310	Kit for low and strong measuring force	•
908.2198	Replacement lapping stone for 908.2199	•
908.2199	Lapping device (3 stones and lapping liquid included)	•

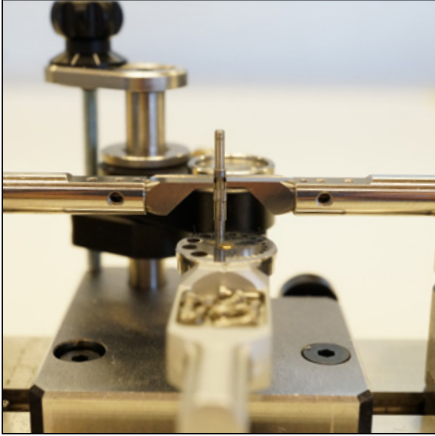
ANVILS

Compatible anvils list at the end of this chapter.

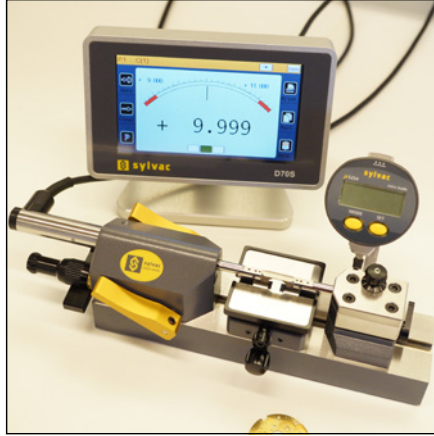
Bench table

PS17

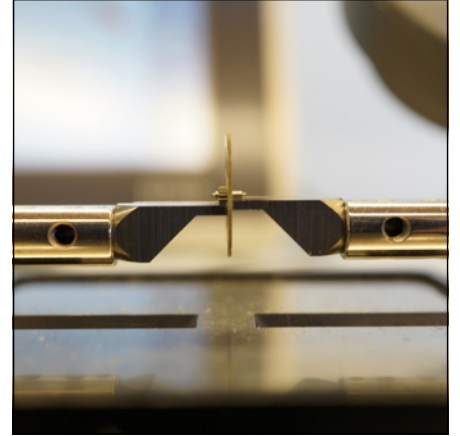
APPLICATIONS STANDARD



Measure of a small part on a floating table






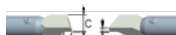
Multifunctional control station




Measure of a distance width with the Z axis adjustable tailstock.

ANVILS

Anvils Ø1.5

		B	F	C	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	PS 17
N°	Designation								
	908.2175 Cylindrical anvils TC Ø 1.5 mm	-	8	Ø 1.5	•		•	•	•
	908.2176 Cylindrical anvils TC Ø 2 mm	-	8	Ø 2	•		•	•	•
	908.2177 Cylindrical anvils TC Ø 6.5 mm	-	2	Ø 6.5				•	
	908.2174 Knife-shaped anvils TC 0.7 mm	0.70	2.2	4	•		•	•	•
	908.2178 Knife-shaped anvils TC 0.4 mm	0.40	2.2	4	•		•	•	•
	908.2179 Knife-shaped anvils TC 0.3 mm	0.30	2.2	4	•		•	•	•
	908.2180 Knife-shaped anvils standard TC 0.2 mm	0.20	2.2	4	•		•	•	•
	908.2181 Knife-shaped anvils standard TC 0.14 mm	0.14	2.2	4	•		•		•
	908.2182 Knife-shaped anvils standard TC 0.1 mm	0.10	2.2	4	•		•		•
	908.2201 Knife-shaped anvils TC 0.7 mm/V	0.70	2.2	4	•		•	•	•
	908.2202 Knife-shaped anvils standard TC 1.5 mm	1.5	2.2	4	•		•	•	•

Anvils LV





		B	E (Ø int)	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	PS16 V2 LV	PS 17
N°	Designation								
	908.2184 Knife-shaped anvils in steel 0.4 mm	0.4	24-70					•	
	908.2185 Knife-shaped anvils in steel 1 mm	1	24-70					•	
	908.2186 Knife-shaped anvils in steel 0.40 mm	0.4	-					•	
	908.2187 Knife-shaped anvils in steel 1 mm	1	-					•	

Bench table

PS15/PS16/PS17

ANVILS

Anvils Cary

		B	F	C	PS15 BH	PS15 BV	PS15 BV+	PS16 V2	PS 17
N°	Designation								
	908.2214 Knife-shaped anvils TC 0.10 mm	0.10	2.2	4	●				●
	908.2221 Knife-shaped anvils TC 0.12 mm	0.12	2.2	4	●				●
	908.2215 Knife-shaped anvils TC 0.14 mm	0.14	2.2	4	●				●
	908.2213 Knife-shaped anvils TC 0.15 mm	0.15	2.2	4	●			●	●
	908.2216 Knife-shaped anvils TC 0.20 mm	0.20	2.2	4	●			●	●
	908.2217 Knife-shaped anvils TC 0.30 mm	0.30	2.2	4	●			●	●
	908.2218 Knife-shaped anvils TC 0.40 mm	0.40	2.2	4	●			●	●
	908.2219 Knife-shaped anvils TC 0.70 mm	0.70	2.2	4	●			●	●
	908.2220 Knife-shaped anvils TC 0.70 mm/vé	0.70	2.2	4	●			●	●
	908.2223 Knife-shaped anvils TC 1.5 mm	-	6	Ø1.5	●			●	●
	908.2224 Cylindrical anvils TC Ø 1.5 mm	-	6	Ø2	●			●	●
	908.2225 Cylindrical anvils TC Ø 2.0 mm	-	6	Ø3	●			●	●
	908.2222 Cylindrical anvils TC Ø 3.0 mm	1.50	2.2	4	●			●	●

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