



Excellence is what drives us !

GAUGES  
THE DIFFERENCE IS MEASURED  
IN THE SMALLEST DETAILS





Since 1914



# Know-how, dynamism and independence

are the foundations that  
drive us to excellence.

The Azurea Group has a long tradition  
and over 100 years' experience.

In order to meet its own needs and  
control its own production, Azurea de-  
cided in 1932 to manufacture smooth  
plug gauges.

The manufacture of buffer gauges  
remained the business of a small  
department until 1998, when the Board

of Directors decided to make it a  
fully-fledged company under the name  
Azurea Jauges SA.

Our gauges and all their components  
are manufactured in Belprahon. Azu-  
rea Jauges relies on its responsiveness  
and offers attractive lead times.



# Our gauges & pins

## Buffer gauge

This historic product has become a benchmark gauge in many workshops.

**Diameter :**

From 0.05 to 50 mm



Tempered steel

Hard metal

## Radius gauge

Spring-mounted, it reduces operator dependency and guarantees optimum sensitivity.

**Diameter :**

From 0.20 to 6 mm



Hard metal

## Shape gauge

Various convex shapes (square hexagonal, etc.), it is made to measure to your requirements.

**Circumscribed diameter :**

From 0.30 to 4 mm



Hard metal

## Rod

Its useful length is a real advantage for controlling long drilling.

**Diameter :**

From 0.05 to 20 mm



Tempered steel

Hard metal

## Mini gauge

It offers you all the advantages of a buffer gauge when space is limited.

**Diameter :**

From 0.05 to 0.51 mm



Tempered steel

Hard metal

# Proposals



- **Hard metal and tempered steel**

Make your choice according to your needs and applications.

- **Pins, gauges with or without handles**

In the event of wear or breakage, or for a particular control requirement easily separate the useful part from the handle.

- **Single or double handle**

On the same tool, minimum and maximum.

- **Extremity, tip**

Depending on the application, rounded or sharp-edged.

- **Drilling length**

Gauges have smaller working lengths than pins. Pins are available in 2 lengths.

- **Identification / Differentiation**

Coloured handles.  
Custom engraving.

- **Even greater precision**

Standard accuracy depending on diameter, extra accuracy on request.

- **Standard gauge**

Order according to standardised standards (ISO, NFE, etc.).

The product catalogue lists default options.  
These can be customised to suit your requirements on request.



# Buffer gauges

Steel	0.050 - 0.149	0.150 - 0.299	0.300 - 0.399	0.400 - 0.499	0.500 - 0.699	0.700 - 0.999
Hard metal	-	0.150 - 0.299	0.300 - 0.399	0.400 - 0.499	0.500 - 0.699	0.700 - 0.999
Fitting length	1.5 mm	2 mm	3 mm	3.5 mm	4.5 mm	5 mm
Standard accuracy	± 0.0004	± 0.0004	± 0.0004	± 0.0004	± 0.0004	± 0.0004
Standard finish	Sharp angle					
Progression	0.002	0.002	0.002	0.002	0.002	0.002
Out of progression	0.001	0.001	0.001	0.001	0.001	0.001
Progression	-	0.001	0.001	0.001	0.001	0.001

## Associated handles

### Single handle

Tempered steel



### Double sleeve

Tempered steel



### Cary type handle

Tempered steel



Diameter from 0.05 to 12.999

Hard metal

Tempered steel



1.000 - 1.999	2.000 - 3.999	4.000 - 5.999	6.000 - 9.999	10.000 - 19.999	20.000 - 29.999	30.000 - 50.000
-	-	-	-	-	-	-
5 mm	6 mm	10 mm	10 mm	14 mm	20 mm	20 mm
± 0.0004	± 0.0004	± 0.0004	± 0.0005	± 0.001	± 0.001	± 0.002
Sharp angle	Sharp angle	Rounded angle	Rounded angle	Rounded angle	Rounded angle	Rounded angle
0.002	0.002	0.01	0.01	0.01	0.01	0.01
0.001	0.001	0.001	0.001	0.001	0.001	0.001
-	-	-	-	-	-	-



Single handle

Hard metal



Double sleeve

Hard metal



Our sleeves are available in several colours



# Radiated gauges

Hard metal



Hard metal	0.200 - 3.999	4.000 - 6.000
Accuracy	$\pm 0.0004$	$\pm 0.0004$
Pressure	0.35 N	0.55 N
Progression	0.001	0.001

## Associated handles



Radiused gauges must be sold with their handle.

### Single handle

Hard metal



### Double sleeve

Hard metal



Only the blue colour is available



# Shape gauges

Hard metal



Hard metal	0.300 - 1.400	1.401 - 4.000
Fitting length	3 mm	5 mm
Accuracy	$\pm 0.001$	$\pm 0.001$
Progression	0.001	0.001

## Associated handles



Single gripper handle

Hard metal



Double gripper handle

Hard metal



Our sleeves are available in several colours



# Rods

Hard metal

Tempered steel



Steel	0.050 - 0.149	0.150 - 1.000	1.001 - 6.000	6.001 - 20.000
Hard metal	-	0.150 - 1.000	1.001 - 6.000	6.001 - 20.000
Standard accuracy	± 0.0004	± 0.0004	± 0.001	± 0.001

Fitting length	15 / 32 mm	15 / 32 mm	32 mm	-
Progression	0.01	0.01	0.01	-
Out of progression	0.001	0.001	0.001	-

Fitting length	-	15 / 32 mm	15 / 32 mm	15 / 32 mm
Progression	-	0.01	0.01	0.01

# Associated sleeves



Single pliers handle

Tempered steel



Double pliers handle

Tempered steel



Single pliers handle

Hard metal



Double pliers handle

Hard metal



Our sleeves are available in several colours



# Mini gauges

Hard metal

Tempered steel



Steel	0.050 - 0.099	0.100 - 0.510
Hard metal	0.050 - 0.099	0.100 - 0.510
Fitting length	1.5 mm	4.5 mm
Standard accuracy	$\pm 0.004$	$\pm 0.004$
Standard finish	Sharp angle	Sharp angle
Progression	0.002	0.002
Out of progression	0.001	0.001
Progression	0.001	0.001

## Associated handles



Mini gauges must be sold with their handle.

Mini handle

Tempered steel



Mini handle

Hard metal



# Some products on request

Our production facilities enable us to make customised products, such as :



Standard gauge



Colour gauges



Double-handled hard metal/  
steel gauge



6-sided double-handled hard  
metal form gauge



Custom engraving  
image



Measuring keys

Measuring keys are available on request.  
The length, diameter, shape and all its components are to  
be determined together.

# Complementary products

To store your gauges neatly, we offer the following solutions :



Box of  
50 pieces

**Gauge diameter**

N°1 : From 0.05 to 3.999

N°3 : From 4 to 6.999

N°5 : From 7 to 12.999

N°7 : From 13 to 20



Box of  
100 pieces

**Gauge diameter**

N°2 : From 0.05 to 3.999

N°4 : From 4 to 6.999

N°6 : From 7 to 12.999

N°8 : From 13 to 20



# Metrology services

The metrology laboratory complies with the ISO 17025 standard and is, therefore, regularly monitored to guarantee absolute measurement results.

We issue the following certificates :

- **Official SCS certificate**

In order to obtain this certificate, your test instrument must reside for 24 hours in our temperature-controlled metrology laboratory.

There are two types of certificate :

- External roundness check, from  $\varnothing$  0.50 to  $\varnothing$  20.00 mm : uncertainty of 0.1  $\mu\text{m}$
- Checking the outside diameter, from  $\varnothing$  0.05 to  $\varnothing$  20.00 mm : uncertainty of 0.3  $\mu\text{m}$

- **Azurea certificate**

The controls are identical to those at the SCS, except for the 24-hour delay in the metrology laboratory, which is not applied.

## Metrological product



### Measuring device

For absolute measurements in the range 0 to 6.5 mm. The result can be read on a digital display with a resolution of 0.01  $\mu\text{m}$ . Our measuring device is available for sale or hire.

# Accessibility and responsiveness

Our gauges and pins, in small quantities, are delivered within 2 to 10 days depending on the material requested.

Shipping costs for orders placed through the E-Shop and destined for Switzerland are free.

The online shop is here



[www.azurea-shop.ch](http://www.azurea-shop.ch)

The cost of delivery abroad is borne by the customer and varies according to the weight of the parcel and the carrier. Boxes are appropriately sized and your items are properly protected.

An order confirmation containing the delivery date is sent by e-mail as soon as the order has been processed.





■ [www.azurea.ch](http://www.azurea.ch)

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