USER MANUAL

SADDLE MEASURING AND POSITIONING TOOL

A fixed reference on the saddle, at 73 mm width, and a tape measure: saddle height and setback are measured in two minutes and found again to the millimetre after transport, a service or a change of equipment. This manual explains the reference, how to take the dimensions and how to reproduce them.

REF. VELKPOSELBLCK1 · 73 MM REFERENCE, BIKE FITTING · 3D-PRINTED PLA, 30 G



01 · BEFORE YOU START

WHAT THE TOOL MEASURES

The 73 mm reference

A saddle has no obvious fixed point: its nose, its tail and its length change from one model to the next. Bike fitters therefore take their reference where **the saddle is 73 mm wide**, a point that exists on almost every saddle and matches where the pelvis sits. The tool locates at exactly that width: set on the saddle, it always marks the same point, on this bike as on any other.

The dimensions to take

DIMENSION	FROM	TO	USED FOR
Saddle height	73 mm reference	Centre of the bottom bracket axle	Finding your height to the millimetre
Setback (saddle → bars)	73 mm reference	Centre of the handlebar, at the stem	Checking the distance to the cockpit
Saddle → components	73 mm reference	Any point you choose (stem, lever…)	Comparing two bikes, tracking a change

Compatibility

- Road, MTB, gravel, hybrid, time trial, triathlon, BMX and city bike saddles: the saddle only has to reach 73 mm in width.
- A single tool in the box, no other tool needed to measure.



The U-shaped reference locates on the saddle at 73 mm width; its notches hold the tape measure.

Specifications

Material	**3D-printed premium PLA**	Manufacture	**3D-printed and made in France**
Colour	**Black**	Weight	**≈ 30 g**
Reference	**73 mm width**	Notches	**Hold the tape measure**

THE RULE

A dimension is only worth its **repeatability**: same reference, same end point, same tension on the tape. The tool guarantees it on the saddle; you guarantee it at the other end of the tape.

You will also need

- A rigid tape measure.
- A notebook, or a note on your phone, per bike.

02 · PROCEDURE

TAKING THE DIMENSIONS, REPRODUCING THEM

Measuring

1. **Stand the bike upright,** against a wall or on a stand, saddle clean and dry. A leaning bike distorts the setback reading.
2. **Set the tool on the saddle,** opening of the U towards the nose, and slide it back until it locates: both arms touch the sides of the saddle where it is 73 mm wide.
3. **Hook the tape** into the notch provided: the zero is held, both your hands are free.
4. **Measure the height** by pulling the tape, taut and straight, to the **centre of the bottom bracket axle**. Read to the millimetre.
5. **Measure the setback** from the same reference to the **centre of the handlebar**, next to the stem. Note what you aim at, so you aim at the same point next time.
6. **Repeat each dimension** a second time. Two readings within a millimetre of each other: that is a dimension. Otherwise reset the tool and start again.
7. **Write everything down:** bike, saddle, height, setback, end point, and separately the saddle tilt (spirit level or phone app), which the tool does not measure.



Saddle height: from the 73 mm reference to the centre of the bottom bracket axle, tape taut.

Reproducing the position

1. **Set the height first:** seatpost clamp loosened, raise or lower until you find the dimension again, then tighten to the maker's torque.
2. **Then set the setback,** sliding the saddle on its rails to the saddle → bars dimension, then check the tilt.
3. **Check the height again:** moving the saddle forward or back slightly changes the measured height. One last reading, and you are done.

WHEN TO MEASURE AGAIN

After transport with the saddle or post removed, after cleaning the seatpost, whenever you change saddle, post, crankset or shoes, and once a season to check that nothing has slipped.

NEW SADDLE, NEW DIMENSIONS

Two saddles have neither the same shape nor the same shell height: the 73 mm reference does not fall in the same place. Take your dimensions again on the new saddle once it is set by feel, and note them separately.

03 · BUILT TO LAST

CARE, MISTAKES TO AVOID, TROUBLESHOOTING

Care

- PLA is a 3D-printed material that **dislikes heat**: no glovebox or car boot in full sun, no radiator. A warped tool no longer locates at 73 mm.
- A damp cloth is enough; no solvent or degreaser.
- Keep it in the toolbox or the saddle bag: at 30 g it goes everywhere the bike goes.
- Check now and then that neither arm is cracked or worn on the inside.

The mistakes that spoil a dimension

MISTAKE	CONSEQUENCE
Tool set down without locating against the sides	Reference moves by several millimetres
Tape slack or curved	Height overestimated
Different end point from one time to the next	Dimensions cannot be compared
Bike leaning for the setback	Setback wrong
Saddle changed without re-measuring	Position lost: two saddles never have the same shape

FROM ONE BIKE TO ANOTHER

Dimensions taken at the 73 mm reference carry over between your bikes. Transfer them as they are, then fine-tune by feel over a few rides: two geometries never feel quite the same.

On video

Independent tutorials on saddle height and setback, scan to watch.

How I measure my bike fit position
BikesbyMike · English

The big mistake most cyclists make when measuring saddle height
UK Bike Fit · English

Comment bien régler sa hauteur de selle
Bien rouler à vélo · French

Need help?

velkyne.com/contact
Our team answers your questions about taking the dimensions and compatibility with your saddle.

A position is two numbers.
Written down once at the right reference, they follow you from bike to bike, season after season.

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