

# Seed VMF 5430/22

Extra-thin flying Tourbillon with manual winding, Titanium - 18 ct gold

**Titanium** is renowned throughout the watchmaking industry for its properties of strength and lightness.

The use of titanium on the watch exterior is widespread, but very few have the expertise to manufacture watch components in titanium.

This number is reduced even further when it comes to making bottom plates or bridges in this material, because, in addition to the manufacturing, it is also necessary to control all the other operations:

- ✦ *During machining, the cutting tools are severely tested and each parameter must be expertly adjusted to the requirements of this material.*
- ✦ *When it comes to decorative work on titanium, it takes a lot of skill and finesse to give a shimmering aspect, worthy of the haute horlogerie.*
- ✦ *During filling, great skill is required for the setting of the brittle rubies in this very hard material.*
- ✦ *During assembly, the watchmaker must handle the components with extreme care as they are coated with the fragile but magnificent black PVD treatment.*

However, on the other hand, what other material apart from gold would be more appropriate to the nobility of the Tourbillon mechanism? Everyone involved in the manufacture, decoration and assembly of gold components has the utmost respect for this rare and precious material.

The challenges of shaping these gold components are different than for titanium, but not less demanding. The value of a gramme of gold is so high that each operation of machining, decorating, filling, assembly, etc, must be achieved at the very first attempt. This requires, for each step, an extra degree of attention on the part of the people who work on these gold components.

This movement is a composition of materials in contrast. It is a demonstration of the manufacturer's know-how. It's an in-depth personalisation, not just the design of the outer contour of the components or their final colour. This has implications on the entire manufacturing line of a movement, and cannot be carried out without full expertise at all the given stages.





# Seed VMF 5430/22

Extra-thin flying Tourbillon

with manual winding, Titanium - 18 ct gold

This is the latest in the line of extra-thin movements in a manual version. The Seed VMF 5430 - with a particularly robust mechanism - is enhanced by a flying tourbillon at 9 o'clock in a titanium cage to obtain better regulation performance. It is no exaggeration to say that this is one of the thinnest tourbillons in the world incorporating all the advantages of our extra-thin range. Its design offers great opportunities for personalisation of the bridges and tourbillon cage.

...✦ From **10 pieces or more**: opportunities for personalisation on request.

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<b>Fitting dimensions</b>	30.5 mm (1 1/2")
<b>Thickness</b>	3.4 mm
<b>Indications and functions</b>	Hours, minutes, small seconds
<b>Type of balance</b>	Variable inertia with gold inertia-blocks
<b>Frequency</b>	3 Hz (21,600 V/h)
<b>Type of balance-spring stud holder</b>	Mobile
<b>Type of balance-spring</b>	Flat
<b>Power-reserve</b>	48 hours
<b>Chronometry</b>	Rapid rotation barrel Variable inertia balance Tourbillon
<b>Number of components</b>	160
<b>Number of jewels</b>	22
<b>Specific features and finishes</b>	<ul style="list-style-type: none"><li>• Titanium plate, sandblasted, stretched on dial side, black PVD</li><li>• Titanium gear-wheel bridge, sandblasted, stretched, black PVD</li><li>• Tourbillon bridge, gold 5N18 carats, sandblasted, stretched, polished chamfers and sinks</li><li>• Hours bridge, gold 5N18 carats, stretched, diamond-polished angles</li><li>• Ceramic ball-bearing</li><li>• Gear wheels circular-grained on both faces, rhodium plated, diamond-polished mouldings</li><li>• Locked flat-head screws</li><li>• Burnished pivots and shoulders</li><li>• Balance visible on dial side</li><li>• Titanium tourbillon cage</li></ul>

