

## HYT - H1

### **A mechanical movement to activate the hydro system**

We knew about clepsydras or water clocks. The oldest found thus far dates back to the age of the pharaohs. It took 3400 years to overcome the force of gravity and indicate the time with a liquid in a mechanical wristwatch. Many have dreamt of it – HYT has done it.

Orchestrated by Bruno Moutarlier, alongside Jean-François Mojon and his Chronode SA team, a mechanical movement is situated in the upper part of the watch, and propels a cam, which pushes the piston and activates the bellows.

The main challenge lay in finding an interface between the mechanical movement and the hydro system in a closed, waterproof circuit – a task further complicated by the limited space available to house them both. They had to be assembled separately to keep them independent, and then made to operate simultaneously. This is a highly delicate modular integration, which involves other constraints, such as the installation of the dial in two parts, through the sides.

### **From concept to reality: the convergence of two worlds with a common aim**

While the basic idea is simple, realising it is highly complex. Led by Bruno Moutarlier, two teams worked together. On the watchmaking front were Jean-François Mojon and his supporting team at Chronode. Working on the fluid operation was Preciflex, the patent registration company created by the founders of HYT – Patrick Berdoz, Lucien Vouillamoz and Emmanuel Savioz. Supporting Preciflex was Helbling Technik, from the medical world, where fluid motion is used in certain treatments. An incredible human adventure that propelled two worlds in principle at odds with each other towards a new joint era – that in which a unique technology would rock not only watchmaking but also medtech, because the pump system would lead the way for brand-new applications in that field.