

Campagnolo[®]



FLUID-DYNAMIC WHEELS

THE CAMPAGNOLO FLUID-DYNAMIC WHEEL GHIBLI M 23

The lenticular wheel represents the first generation disc wheel of the 80's. It has been developed according to the principle of supporting the weight of the rider/bicycle system from the hub to the road surface, by compressing the connecting wall between the hub and the rim.

For this reason the choice of the structure is determined by the requirements of vertical and transversal rigidity. These requirements result in solutions weighing more than a conventional spoked wheel (min. of 0.7 kg to a max. of 1.5 kg per wheel).

In order to define the distribution of the loads and forces involved, Campagnolo engineers utilized a computer to obtain the necessary calculations and information vital to improve the existing disc wheel.

Upon completion, this information was, through the use of CAD/CAM technology, translated

into profiles which determined the optimum requirements for the construction and mechanical characteristics to exceed all present lenticular wheels.

As a result, a new structural principle makes it possible to use tensioned fibers instead of compressed fibers, resulting in weight reduction while developing the most efficient application for fiber, ever.

The second generation disc wheels, thus, having been created by Campagnolo were appropriately named: FLUID-DYNAMIC WHEELS.

