

# meconet

Innovations are built together



## Avant°pool

To award-winning result through co-operation

# Simple idea, brilliant solution

As the old saying goes, well planned is half done. This could well be the motto of the Meconet team. Our objective is to solve the technical manufacturing and logistics challenges of our customers. At the same time, we free the valuable time of our customers for their own core activities. Prototype manufacture offers a flexible and quick path towards volume products.

Our long-time co-operation partner **Pekka Nurmi**, now acting as the Operations Manager of Avantopool Oy, described the prototype manufacturing stage and its significance to the point: "When starting from scratch with planning, it's almost inevitable that there will be development phases, changes, improvements, and new ideas. The prototyping opportunity offered by Meconet has been extremely important; it has allowed us to approach the final product flexibly."

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We have already co-operated successfully in our previous projects. Meconet is really easy to approach. The spirit of trust is there all right. Based on my experience, I can recommend Meconet.

**Pekka Nurmi,**  
Operations Manager, Avantopool Oy

## Avant°pool

The Avant°pool recovery pool is intended for recovery care of tired or sore muscles. The main target group is athletes, but Avant°pool is suitable for anyone who yearns for more vitality and energy, better immunity and less stress and pain. Examples of application environments include sports halls or ice rinks, sports schools, gyms, retirement homes, or even private homes.



# Co-operation starts from design

Our newest co-operation project started when Pekka Nurmi presented his idea. Avant°pool was in the process of designing a recovery pool for both cold and hot application. The product marketed under the trademark Avant°pool would be intended for consumers, sports clubs and physical exercise centres; it would allow enjoying the benefits of ice swimming all year round.

Together, we began to consider the shape of the Avant°pool frame. At first, we thought about a pipe-structured frame, but soon found that this structure would not meet all of the wishes. After that, we arrived at the idea of designing the frame of metal sheet components and making the forms by a sheet metal working technology. With this idea in our back pocket, we continued with the prototype manufacturing stage.

## The benefits of sheet metal work always spill over from manufacture to design and logistics

Initially, there were several design approaches to the Avant°pool, but functional and appearance-related circumstances directed our choice towards the sheet metal method. From the viewpoint of design, sheet metal does not come with any constraints.

We had a simple idea seen as a complete solution. Light components make up a strong and stiff frame. This means that minimum material consumption provides a sturdy structure of high-quality feel and appearance.

In line with the sustainable development principle, the production method is resource-saving and reduces the carbon footprint. In addition, the benefits of the manufacturing methods spill over to logistics, since the components are delivered in a compact space and assembled only upon the final assembly of

the products – in other words, transporting air is not required.

At the very first meeting, it became clear that the sheet metal method brings almost limitless possibilities for assembly and design. For example, dimension changes are quite easy. There are many components in the Avant°pool, but owing to sheet metal use, this is not a problem. If a component is replaced, changes can be made. In addition, readiness for serial production is already there. In line with the principle of modular thinking, we have a product that can be modified. We have already created a larger version of our standard model, 20 cm longer than the previous one. Although the product's proportions change, it was possible to make efficient use of the existing structure.

# Award-winning product born through co-operation

The outcome of the co-operation won the industrial category of Plootu Fennica. In addition to **Pekka Nurmi** from Avantopool and **Harri Karukoski** from Meconet, the persons who participated in the creation of Avant°pool include **Ville Nenonen** from RD Velho Oy (responsible for design and mechanical planning), **Juha Kiukas** from Avantopool (responsible for design and marketing), and **Pauli Asikainen** from Meconet (responsible for design and manufacture).

The Plootu Fennica jury praised Avant°pool for being a product with inherently high assembly and strength characteristics. “In the support structures, sheet metal has been used in a cost-effective and altogether ingenious manner. In the final product, the different materials have been combined skilfully. The structure of the recovery pool has been carefully thought through down to the last detail. In addition, the modular structure is easily scalable. The pool looks impressive; its appearance communicates reliability and strength,” the jury substantiated.

## Contact us

[www.meconet.net](http://www.meconet.net)

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Case Avantopool is a good example of the importance of close co-operation. We have managed to optimise and develop the product even along the way.

**Jari Peura**

Account Manager, Meconet Oy

**Design • Prototype manufacture • Serial production • Quality assurance and delivery**

Springs | Stamping | Deep drawing