

# Waterpipe



## Purposes

- Automotive
- Technical part
- Under-the-hood
- Fluid management



## Technologies

- IMA
- Bi-injection molding



## Know-how

- Watertightness
- Control of thicknesses
- Burst test
- Kinematics of tooling

## Issue

This part was achieved with the use of the technology «water injection». Encountering difficulties in obtaining constants thicknesses, our client approached MIHB and we chose a development with IMA injection (In Mold Assembly). Indeed, other existing technologies didn't allow a simple realization and requires some reruns (machining, control, ...). IMA then appeared as a real innovative solution.

MIHB, as an expert in this kind of injection, was awarded the project in 2013 and has defended once again its position of plastics transformer. The use of this innovative process ensures in one step of injection the welding, the sealing and the dimensional control of thicknesses, all maintaining optimal driving flows into the part.



## Solution and benefits

First, the use of IMA allows the respect of forms of the piece, which is very important. In addition, this allows to have freedom in the 3D shape of the part.

MIHB controls, through the IMA, the achievement of a hollow body in the mold in a single injection step with an assembly line. This technology allows particularly time-saving and therefore increased productivity.

(Re)-discover IMA: <http://www.usinenouvelle.com/expo/guides-d-achat/in-mold-assembly-ima-378>



## Identity card

Launch year : 2013

Nb of parts a year : 250 000

Customer : Renault, pipe for turbo control

Parts dimensions : 110x168x96

Market : Automotive

Technology : IMA

