

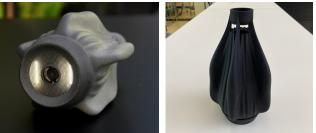
Water Pipes Inspection Camera

Efficient water pipe inspection solution through additive manufacturing technology

Challenge

Aigües de Barcelona was in search of an innovative solution that could expedite pipe inspections, ensuring greater efficiency while remaining cost-effective.



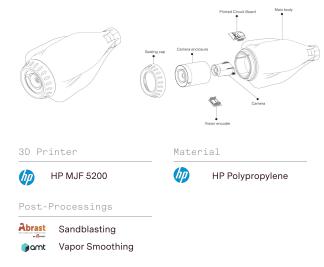


Solution

IAM3DHUB's design team developed a polypropylene pipe inspection device, seamlessly integrating a light and camera to guarantee stable and high-quality imaging. This device boasts built-in buoyancy for inspections and a tanker hose adaptor for efficient propulsion, ensuring a great performance throughout the inspection process.

Results

The device featured essential attributes of watertightness, compact size, impact resistance and cost-effectiveness, streamlining the pipeline inspection process while minimizing resource investments.



IAM3DHUB





AM Benefits

IAM3DHUB employed **HP's MJF technology** to craft an isotropic pipe inspection tool using **PA11** material due to its moderate elasticity and robustness against impacts.

Subsequently, IAM3DHUB's technical team refined the fit through **postprocessing sandblasting**, ensuring a device that is both watertight and water-resistant. Lastly, chemical **vapor smoothing** was applied, further enhancing its water resistance.







