



**One Team, One Vision**

## 3D SCANNING AND MODELING



### What we do?

During the last decade, the Hidramar Group has grown significantly thanks to our experience and constant training of the entire team plus the extraordinary management results in large-scale projects.

The Engineering team has extensive experience in the conception, planning and project execution, developing a standardized process whose result is excellence.

We offer a wide range of services in the field of mechanical engineering, from initial feasibility studies, detailed engineering, to commissioning, construction and final handover.

### How we do it?

By operating in different sectors, we can transfer knowledge between industries for the benefit of our clients; Our experience in sectors as strict as Mining, Maritime and Oil & Gas, combined with our focus on customer needs, makes us your partner of choice for all types of projects.

Considering the diversity of needs operations in the sector we have full willingness to provide solutions 24 hours and 365 days a year.

## GEOREFERENCED POINT CLOUDS

For each project there is a suitable tool to use; In the case of BIM (Buildin Information Modeling) projects, it is extremely useful to include the generation of point clouds through 3D scanning in the workflows.

Georeferencing this point cloud within geographic coordinates will give you a real, geographic contextualization. These geographical references of points can be inserted in different platforms for a better application in your project; Among the most common platforms we can find AutoCad, Revit, Civil 3D and Faro Scene among others.

In summary, one of the most important activities for those who use the point cloud in models with real coordinates is the georeferencing of point clouds.



## 3D SCANNING AND MODELING FOR INDUSTRY

Our 3D scanning service offers dynamic solutions for industrial or manufacturing facilities where our team captures a reality in 3D in a point cloud of space and its content, differentiated by production sectors.

Subsequently and from the 3D point cloud we can develop 3D modeling, using the modeling as a basis to help locate equipment and create more efficient production stations.

3D scanning will provide our clients with precision when defining spaces and considering the restrictions that they may have in industrial facilities.

# INGENIERÍA INVERSA

La ingeniería Inversa se ha vuelto muy necesaria y útil a la hora de reconstruir modelos clásicos e implementa diseños nuevos a partir de una pieza CAD. A través de la ingeniería inversa se abre la posibilidad palpable de generar documentación perdida o inexistente de diseños y actualizar o crear documentos conforme a obra.

El equipo de ingeniería de Hidramar Group, ejecutará el escaneado laser 3D sin contacto, con equipos portátiles que harán la captura de imágenes integrando los procesos de modelado, sin tareas adicionales y engorrosas.

La ingeniería inversa es tu aliado para acelerar el desarrollo de prototipos e inspección de superficies en ensamblaje, su aplicación no tiene límites.



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