

## **3D Model Based Boat Hull Design and Manufacturing with Remote Controlled Industrial Robot**

---

G. Bognár, [bognar@gdf.hu](mailto:bognar@gdf.hu)

Manufacturing of sheet metal structures with small wall-thickness is a very difficult complex engineering task, when the suggested geometry is supposed not to exceed tight tolerance limits. Such a sheet structure is the boat hull where the geometry prescriptions are in close relation with the boat performances. A new manufacturing method, the Sheet Metal Forming was tested to prepare the boat hull with an industrial robot. The basis of the robot manufacturing was a 3D model developed in SolidWorks. The manufactured boat satisfies all suggested requirements.