

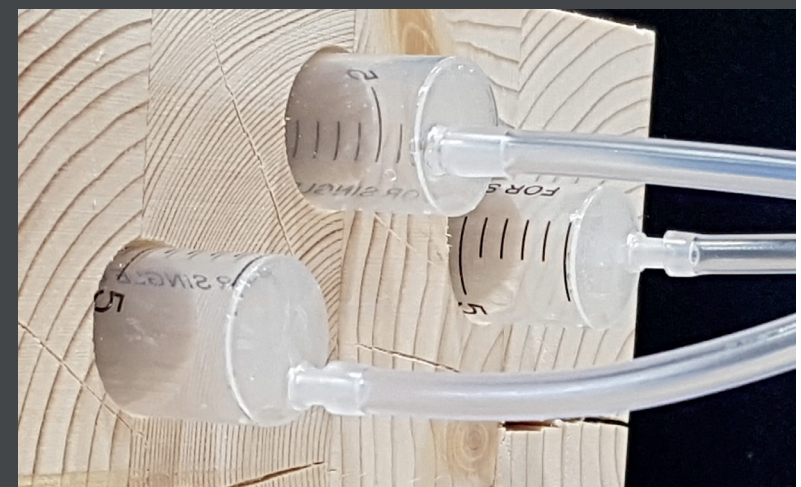
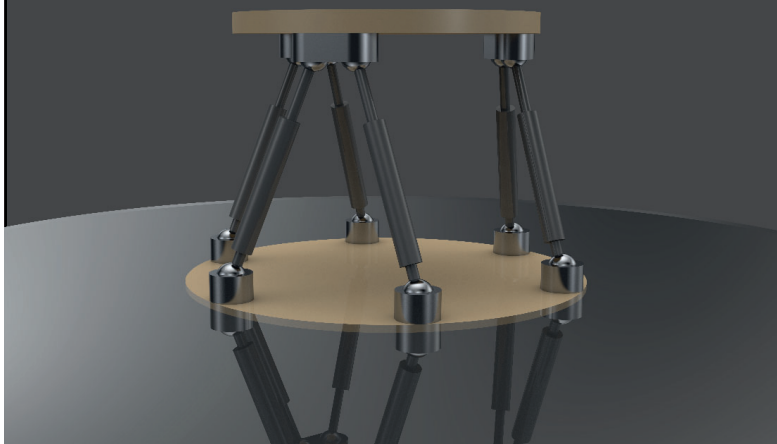
Drink Stabilizer

The concept of the group work is a device that has a stabilized platform which keeps drinks and bottles upright in ship restaurant tables in rough seas. The realized prototype is a concept model which demonstrates the principles of the Stewart-Gough-platform and the use of hydraulic actuation.

The Stewart-Gough Platform has six legs which connect the base plate and the platform and have 6-degree of freedom ball joints in both ends. Changing the length of the legs makes it possible to move the position of the platform in three dimensions and also rotate it along three axis.

The main materials used are wood (plates and console) and steel (legs). Our realized prototype uses medical syringes as cylinders for the hydraulic actuation and the ball joints consist of long screws and steel plates with a hole in the middle.

The Drink Stabilizer is a suitable product for cruise line companies and boat owners.





Workgroup

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